Attachment 1

York Region

THE REGIONAL MUNICIPALITY OF YORK 2022 DEVELOPMENT CHARGES BACKGROUND STUDY DRAFT

TOWN OF

TOWN OF EAST GWILLIMBURY

> TOWN OF WHITCHURCH

STOUFFVILLE

CITY OF MARKHAM

5/

TOWN OF NEWMARKE

> TOWN OF AURORA

> > CITY OF Richmond Hill

TOWNSHIP OF

CITY OF VAUGHAN

As Released March 3, 2022

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LIST OF ACRONYMS AND ABBREVIATIONS

AMP	Asset Management Plan
Bill 13	Supporting People and Businesses Act, 2021
Bill 108	More Homes, More Choice Act, 2019
Bill 197	COVID-19 Economic Recovery Act, 2020
Bill 213	Better for People, Smarter for Business Act, 2020
BTE	Benefit to existing
CANSIM	Canadian Socio-Economic Information Management System
DC	Development charges
the Act	Development Charges Act, 1997, as amended
EA	Environmental Assessment
FIR	Financial Information Return
FSW	Floor Space per Worker
GFA	Gross floor area
GMS	Growth Management Strategy
GTA	Greater Toronto Area
ICI	Industrial/ Commercial/ Institutional
LPAT	Local Planning Appeal Tribunal
MCR	Municipal Comprehensive Review
МТО	Ministry of Transportation
OLT	Ontario Land Tribunal
OMB	Ontario Municipal Board
OPA	Official Plan Amendment
O. Reg.	Ontario Regulation
O. Reg. 82/98	General Regulation under Development Charges Act, 1997
O. Reg. 192/07	Toronto-York Spadina Subway Extension under Development Charges Act, 1997

POA	Provincial Offences Act
PPB	Post-Period Benefit
PPU	Persons per unit
ROP	Regional Official Plan
SDU	Single detached unit
SFD	Single-family Dwelling
SWM	Stormwater management
sq. ft.	square foot
sq. m.	square metre
TMP	Transportation Master Plan
TYSSE	Toronto-York Spadina Subway Extension
WWTF	Wastewater treatment facilities
YNSE	Yonge North Subway Extension
YRP	York Regional Police
YRRTC	York Region Rapid Transit Corporation

EXECUTIVE SUMMARY

I. Purpose of the Background Study

The Act requires a municipality to update its DC bylaw every five years if not sooner. York Region's current Region-wide bylaw 2017-35 (as amended by bylaw 2018-42) expires on June 16, 2022. A new bylaw is required to continue to levy development charges. This background study provides the justification for the proposed rates in the bylaw and is prepared pursuant to Section 10 of the Act and in accordance with the prescribed methodology.

The Act provides the statutory basis for the recovery of growth-related capital expenditures from new development. A high-level overview of the methodology is as follows:

- a) Identify amount, type and location of growth
- b) Identify servicing requirements to accommodate growth
- c) Identify capital costs required to meet servicing needs
- d) Deduct:
 - Amounts in excess of the 10-year average historical service calculation
 - Grants, subsidies and other contributions
 - Benefit to existing (BTE) development
 - Post-period benefits (PPB)
- e) Net costs are then allocated between residential and non-residential development, and within the various non-residential rate categories
- f) Using the net costs derived above, a cash flow calculation is used to determine the residential per capita rate and the non-residential rates on a per square feet basis. Where applicable, the rate calculation commences with the inclusion of reserve fund balances for the service, as at the end of 2021. Existing and projected debt payments are also tabulated.

The calculated development charges are based on expenditures eligible for recovery under the Act, included in York Region's capital plan and master plans. Changes to the Act approved through Bills 108, 197, 213, and 13 have been incorporated in the 2022 Bylaw.

This Background Study contains the following chapters:

Chapter 1:	Introduction
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- Chapter 2: Anticipated Development in York Region
- Chapter 3: Water: Capital Forecasts and DC-recoverable Costs
- Chapter 4: Wastewater: Capital Forecasts and DC-recoverable Costs
- Chapter 5: Roads: Capital Forecasts and DC-recoverable Costs
- Chapter 6: Transit: Capital Forecasts and DC-recoverable Costs

Chapter 7: Toronto-York Spadina Subway Extension: Capital Forecasts and DC-recoverable Costs

Chapter 8: Yonge North Subway Extension: Capital Forecasts and DC-recoverable Costs

- Chapter 9: Other General Services: Capital Forecasts and DC-recoverable Costs
- Chapter 10: Development Charges Cash Flow Calculations
- Chapter 11: Current Development Charges Bylaw and Policies
- Chapter 12: Development Charges Bylaw and Policies: Areas of Review

Chapter 13: Asset Management Plan

II. Growth Forecast

The growth forecast used for calculating Region-wide development charges is summarized in Table ES-1 below.

	Gross Population Growth	Housing Growth	Total Employment Growth	Non-Residential Space Growth (sq. ft.)
2022 to 2031	222,074	77,109	102,150	47,329,840
2022 to 2041*	476,277	168,279	210,600	96,115,715

TABLE ES-1

GROWTH IN POPULATION, HOUSING AND NON-RESIDENTIAL SPACE

*2041 Mid-year

III. Growth-related Capital Program

This background study includes \$16.2 billion in gross growth-related project capital cost. Of this amount, \$7.9 billion has been determined to be DC-recoverable over the 2022-2041 period. In addition, the 2022 Bylaw will help recover \$2 billion in outstanding debt previously issued by the Region to finance vital infrastructure to support growth.

The difference between the gross and DC-recoverable amounts comprises the following deductions, pursuant to the Act (numbers may not add due to rounding):

\$16.2 billion	Gross development-related capital cost
- \$2.9 billion	Capital Grants, Subsidies and Other Contributions
- \$3.5 billion	BTE Development
\$9.8 billion	Project costs eligible for DC recovery
- \$1.9 billion	Level of Service cap and Post Period Benefit deduction
\$7.9 billion	DC eligible costs recoverable through the 2022 DC Bylaw
+ \$2.0 billion	Outstanding debt to be recovered from development charges
\$9.9 billion	Total DC-recoverable costs (before financing)

These calculations have been made in accordance with the principle that "Growth Pays for Growth" to the extent that it is permitted under the Act. The limitations to cost recovery include:

- A service level cap that restricts the future level of service from exceeding the 10-year historical service level, and
- Attribution of a share of the costs benefitting existing population and employment base.

"Capital Grants, Subsidies and Other Contributions" represents a funding source that does not involve local taxes or user rates. "Post Period Benefit" deduction represents the growth-related costs to be funded by means of future development charges, to be collected via subsequent bylaws, for the portion of the costs that pertains to the period beyond the planning horizon of 2041.

IV. Proposed Development Charges

Table ES-2 presents the proposed charges for residential developments, including single and semi-detached dwellings, multiple unit dwellings, and apartments (large and small); and non-residential developments, including retail, industrial/office/institutional (IOI), and hotel.

TABLE ES-2

PROPOSED DEVELOPMENT CHARGES RATES*

	Current rate*	Proposed rate	% Increase/ (Decrease)
Residential	Rate (per uni	t)	
Single and Semi-Detached Dwellings	\$65,608	77,873	19%
Multiple Unit Dwellings	\$52,814	64,792	23%
Large Apartments > = 700 sq. ft.	\$38,382	50,280	31%
Small Apartments < 700 sq. ft.	\$28,042	32,702	17%
Non-Residential Rate (per sq. ft.)			
Retail	\$58.50	60.58	4%
Industrial/Office/Institutional	\$24.31	24.70	2%
Hotel	\$11.44	10.91	(5%)

*Excludes GO Transit, Local and Education DCs

Regional Council, having received the draft background study and bylaw, and having regard for the input at the public meeting and any other consultation sessions, shall decide upon the magnitude of the development charges it wishes to establish. Tax levy, user rate or other funding (e.g., grants) will be required to fund and finance any portion of growth-related costs not funded by development charges.

V. Bylaw Modifications

The following modifications have been included in the draft 2022 DC Bylaw:

- Stacked townhouses will be treated as apartments
- Any residential dwellings less than 700 sq. ft. (e.g., 'Tiny Homes') will be charged the small apartment rate
- Changes to the Act, through Bills 108 and 197 providing development with the ability to freeze development charges at site plan and/or zoning bylaw amendment application (section 26.2 of the Act) and the phasing of development charges for eligible development (under section 26.1 of the Act)
- Recent residential and non-residential statutory exemptions, including:
 - Exemptions for additional dwellings in, or ancillary to, existing residential buildings, but also for additional dwellings in, or ancillary to, new residential buildings
 - o Exemptions for conversion of common areas in rental buildings into residential units
 - Exemptions for universities receiving funding from the government for the purposes of post-secondary education

post-secondary education

- Adding one service and renaming three services:
 - Adding Yonge North Subway Extension
 - o Renaming:
 - "Seniors Services Capital Component" to "Long-Term Care/Seniors Services"
 - "Social Housing" to "Housing Services"
 - "Paramedic Services" to "Ambulance Services"

VI. Consultation Process

Beginning in March 2021, staff held meetings with representatives of the Building Industry and Land Development Association York Chapter (BILD) and the local municipalities. Topics discussed included: the growth forecast and development charge methodologies and assumptions, the planning horizon and development charges policies.

Staff will continue to meet and engage with all stakeholders post-tabling until the 2022 Bylaw and Background Study come to Council for consideration of passage.

VII. Council Approval Sought

At this stage in the process, the Background Study and draft Development Charge Bylaw are being tabled for information purposes, as part of the consultation process and in accordance with the Act.

When that process is complete, and final development charge recommendations are made to Council on May 26, 2022, approval will be sought for the 2022 Development Charge Bylaw and the Background Study, including:

- The development forecast
- The development-related capital program
- The development charges rate calculation
- Changes to the bylaw
- An Asset Management Plan that demonstrates that all assets whose capital costs are being funded through development charges are financially sustainable of the over their full life cycle

All of the above may be subject to any amendments or addenda that could be produced prior to the passing of the Bylaw.

VIII. GO Transit Development Charges

Development charges for GO Transit only apply to residential development and are levied under a separate bylaw (No. <u>DC-0004-2001-097</u>). As such, the rates charged are not affected by the 2022 Background Study or Bylaw. For information purposes, GO Transit rates as of March 3, 2022 are provided in Table ES-3 below:

TABLE ES-3 GO TRANSIT DEVELOPMENT CHARGES (AS OF MARCH 3, 2022)

Type of residential development	GO Transit DC Rate (\$)
Single and semi-detached dwellings	\$396
Multiple unit dwellings	\$311
Large Apartments >=700 sq. ft.	\$229
Small Apartments < 700 sq. ft.	\$145

1 INTRODUCTION

1.1 Legislative Context

The Act (as amended) requires that Council complete a development charges background study before passing a development charges bylaw. The mandatory inclusions in such a study are set out in s.10 of the Act and in s.8 of O.Reg. 82/98, and are as follows:

- 1. Estimates of the anticipated amount, type and location of development (addressed in Chapter 2 of this background study)
- 2. Development charges calculations for each service to which the Bylaw would relate are addressed in Chapters 3-9 of this background study
- 3. The following details for each service to which the development charges relate:
 - The total of the estimated capital costs relating to the service
 - Any grants, subsidies, and other contributions to be deducted
 - The allocation of the costs between benefiting new and existing development
 - The total of the estimated capital costs relating to the service that will be incurred during the term of the proposed Bylaw
 - An estimation of costs which will benefit development that occurs beyond the planning horizon of the respective services under this Bylaw
 - The estimated and actual value of credits that are being carried forward relating to the service
- 4. Consideration by Council of the use of area-specific charges to reflect different needs for services in different areas
- 5. An examination of the long-term capital and operating costs for capital infrastructure required for each service to which the Bylaw would relate (addressed in Chapter 13)
- 6. An Asset Management Plan that deals with all assets whose capital costs are proposed to be funded under the Bylaw, demonstrating that all assets are financially sustainable over their full lifecycle (addressed in Chapter 13)
- 7. A municipality's DC background study to be made publicly available 60 days prior to the passing of the bylaw
- 8. The proposed sequence of timing involved with putting a new Bylaw in place, ensuring that all statutory requirements are met, as set out in Table 1-1

TABLE 1-1

SCHEDULE OF KEY DC BYLAW PROCESS DATES IN YORK REGION

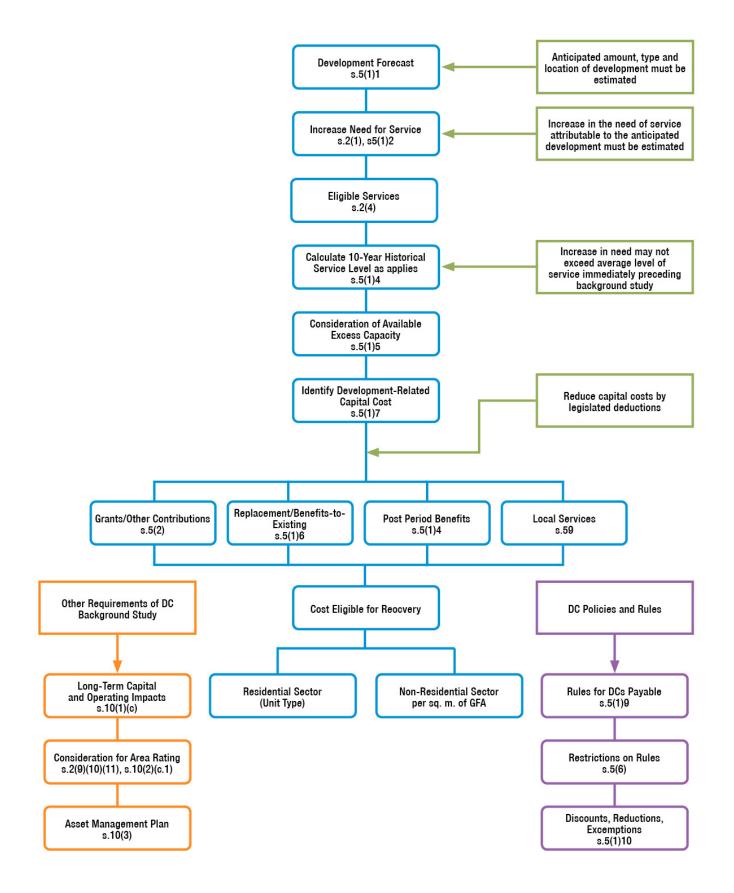
Deliverables	Date
Status of 2022 Bylaw Update: Report to Council	June 24,2021
2022 Development Charges Bylaw Policy Directions: Report to Council	November 25, 2021
Notice of first public meeting published	February 24, 2022
Rate Structures for the 2022 Development Charges Bylaw: Report to Council	February 24, 2022
2022 Development Charges Bylaw and Background Study tabled at Committee of the Whole	March 3, 2022
Public meeting at Council	March 24, 2022
2022 Bylaw to Council for approval	May 26, 2022
2022 Development Charges Bylaw comes into force	June 17, 2022
Notice of bylaw passage published	Within 20 days of passage
Last day for bylaw appeal	Within 40 days after passage
Region makes pamphlet available	Within 60 days after in-force date

1.1.1 Statutory Requirements for Calculating Development Charges

The key steps required in the calculation of DCs for future growth-related infrastructure are shown schematically in Figure 1-1 and summarized below:

FIGURE 1-1

STATUTORY REQUIREMENTS FOR CALCULATING DEVELOPMENT CHARGES



1.1.2 Changes to the Act: Bill 108, 197, 213 and 13

Table 1-2 below summarizes the changes to the Act through four bills passed by the Ontario Legislature:

- Bill 108: More Homes, More Choice Act, 2019
- Bill 197: COVID-19 Economic Recovery Act, 2020
- Bill 213: Better for People, Smarter for Business Act, 2020
- Bill 13: Supporting People and Businesses Act, 2021

The 2022 Bylaw and Background Study will be updated to reflect these changes.

TABLE 1-2

DETAILED CHANGES TO THE ACT THROUGH ONTARIO LEGISLATURE BILLS

Amendments to the Act	Details		
Bill 108: More Homes, More Choice Act, 2019	• Installment payments: Effective January 1, 2020, for profit rental housing and institutional developments shall pay D.C.s in six (6) equal annual payments commencing at first occupancy. Non-profit housing developments shall pay D.C.s in 21 equal annual payments		
	 Interest charges: Interest may be charged for both frozen and phased development charges from the date of Site Plan of Zoning bylaw Application to the date of building permit issuance or date of final payment 		
	• Freezing provisions: Effective January 1, 2020 the D.C. amount for all developments shall be determined based on the development charges by-law in effect on the day of Site Plan or Zoning By-law Amendment application		
	 Exemption of additional dwelling units: Additional units in prescribed classes of existing residential buildings or prescribed structures ancillary to existing residential buildings 		
	Second dwelling unit for new residential buildings and ancillary structures		
	• Conversion exemption: Common areas in existing rental buildings can be converted into residential units and be exempt. Limited to additional units equivalent to the greater of 1 and 1% of existing units		
Bill 197: COVID-19 Economic Recovery Act, 2020	• Eligible Services: The list of DC eligible services was expanded to include most services eligible under the Act prior to Bill 108. All services currently provided by York Region remain eligible		
	 10% reduction: Elimination of the mandatory 10% deduction for all DC-eligible services 		

Amendments to the Act	Details
Bill 213: <i>Better for People,</i> <i>Smarter for Business Act,</i> 2020	• Exemption for Universities: Development on land owned or leased to a University that receives funding from the government for the purposes of post-secondary education is exempt from development charges
Bill 13: Supporting People and Businesses Act, 2021	• Yonge North Subway Extension: The amendments change the method by which the estimate for the increase in the need for the YNSE is calculated by basing it on the planned LOS provided in the municipality over the 20-year period immediately following the preparation of the background study (further guidance was provided through <u>O.Reg. 847/21</u> , which amended O.Reg 192/07)

1.2 Growth Forecast

The first step in the rate calculation requires a development forecast to be prepared for future residential and non-residential development anticipated to occur over the following planning horizons:

- 2022-2041 for Water, Wastewater, Roads, Yonge North Subway Extension (YNSE), Police, Waste Diversion, Public Works, Housing Services, Growth Studies, Court Services
- 2022-2031 for Transit, Toronto-York Spadina Subway Extension (TYSSE), Ambulance Services, Public Health, Long-Term Care/Seniors Services

A Place to Grow: Growth Plan for the Greater Golden Horseshoe, 2019 (Growth Plan), as amended, sets out population and employment forecasts and requires municipalities to plan to achieve these targets. The growth forecasts for the background study are based on the Growth Plan targets, Census data, employment surveys and planned development activity in the Region.

For residential growth forecast, both gross and net population growth are estimated:

Gross population growth	=	Total population in new housing units
Net population growth	=	Population in new housing units adjusted for the decline in the population in the existing base

Gross population growth is used in the calculation of DCs per capita.

The non-residential portion of the forecast estimates the gross floor area (GFA) of building space to be developed over the planning horizon based on employment forecast for the Region.

Floor space per worker index is used to convert the employment forecast into GFA for the purposes of the DC study.

Detailed growth forecast can be found in Chapter 2 of this Background Study.

1.3 Council Approval of the Capital Program

To include an increase in need for service in the development charges calculation, Regional Council must indicate "...that it intends to ensure that such an increase in need will be met" (s.s.5 (1)3). This can be done if the increase in service forms part of a Council-approved Official Plan, capital forecast or similar expression of the intention of Council (O.Reg. 82/98 s.3). The capital program contained herein reflects York Region's approved capital plan and also reflects previous approvals of York Region's Transportation Master Plan and Water and Wastewater Master Plan.

1.4 Service Categories Potentially Involved

Table 1-3 below provides a range of municipal service categories, and identifies whether they can, subject to the subsection 2(4) of the Act, be included in the development charges calculation.

In addition, subsection 5(3) of the Act lists capital costs in respect of eligible services that are eligible for inclusion and two ineligible costs, such as "computer equipment" and "rolling stock with an estimated useful life of seven years or more." In instances where rolling stock has an equivalent life, due to use, of seven years (e.g., police vehicles) they have been included as an eligible cost.

Local water, wastewater, stormwater management and road works are recovered separately under subdivision agreements and related means (as are other local services).

Service	Service Categories	Development Charges Eligibility
Services Related to a Highway	Arterial roads	\checkmark
	Traffic signals	\checkmark
	Interchanges and grade separations	\checkmark
Transit Services	Transit vehicles	\checkmark
	Other transit infrastructure	\checkmark
	Works yards	\checkmark
	Rolling stock	\checkmark
TYSSE	As defined in s. 5.1(1) of the Act	\checkmark
YNSE	As defined in s. 5.1.1(1) of the Act	\checkmark
Water Supply Services	Treatment plants	\checkmark
	Distribution systems	\checkmark
Wastewater Services	Treatment plants	\checkmark
	Sewage trunks	\checkmark
	Vehicles and equipment	\checkmark

TABLE 1-3

ELIGIBILITY OF MUNICIPAL SERVICES FOR DEVELOPMENT CHARGES RECOVERY

Service	Service Categories	Development Charges Eligibility
Waste Diversion Services	Collection, transfer vehicles and equipment (not for waste diversion purposes)	×
Services	Landfills, incineration, and other disposal facilities	×
	Other waste diversion facilities and vehicles*	\checkmark
Police Services	Police detachments	\checkmark
	Police vehicles*	\checkmark
	Small equipment and gear	\checkmark
	Communications systems	\checkmark
Long-Term Care/Seniors Services	Long-term-care facilities	\checkmark
Public Health Services	Public health facilities, vehicles	\checkmark
Housing Services	Housing facilities	\checkmark
Ambulance Services	Ambulance station space	\checkmark
	Vehicles*	\checkmark
Provision of Headquarters for the	Office space (all services)	×
General Administration of	Office furniture	×
Municipalities and Local Boards	Computer equipment	×
Growth Studies	Growth-related studies of a corporate nature	\checkmark
	(e.g., DC studies, master plans, official plans, etc.)	
Court Services	Court facilities	\checkmark

*Note: with 7+ years of useful life or the equivalent

1.5 Historical Service Level Calculation

Section 5(1) 4 of the Act provides that the increase in the need for service attributable to anticipated development must not include an increase that would result in the level of service (LOS) exceeding the average level of that service provided in the municipality over the 10-year period immediately preceding the preparation of the background study.

Future servicing requirements for Water and Wastewater services are subject to provincial health and environmental requirements. Section 4(3) of O.Reg. 82/98 allows for the LOS to be determined under the requirements of Acts other than the Act if the average LOS determined is lower than the standard LOS required under another Act.

Transit services, TYSSE, and the YNSE are based on a "planned" LOS and are not subject to average historical service-level cap.

A review of the Region's inventory of buildings, land, vehicles and equipment has been prepared to calculate the average LOS provided over the 2012-2021 period for the relevant services to determine the portion of future capital projects that may be included in the DC rate calculation.

Any positive reserve balances are added to the LOS while negative balances serve to reduce the LOS. The reserves are indicative of whether the municipality have constructed the service capacity needed for development that has already occurred.

Any outstanding development charge debt principal that is to be recovered under this bylaw have been removed from the historic LOS to reflect the portion of service that benefit growth under this bylaw.

The LOS calculation for each service can be found in Chapters 3 to 9.

1.6 Growth-related Capital Program and In-Period DC-eligible Costs

Section 5(1) 3 of the Act requires that the increase in the need for service attributable to the anticipated development may be included only if the council of the municipality has indicated that it intends to ensure that such an increase in need will be met. The growth-related capital program included in the study ensures that DCs are only imposed to help pay for projects that have been, or are intended to be, purchased or built to accommodate anticipated development. The Act also requires that any available uncommitted excess capacity be netted off from growth-related costs. The Region does not have uncommitted capacity for any of its services.

As required by Section 5(2) and Section 5(1) 5, 6 of the Act, the gross costs identified in the capital program have been reduced by the following to arrive at the in-period DC-eligible costs:

- **Capital grants, subsidies or contributions:** anticipated grants subsidies and contributions from other levels of government or sources
- Benefit to existing development (BTE): portion of the project that confer benefits to existing residents
- Level of service cap (LOS cap): any amount that exceeds the average level of the service provided in the municipality over the 10-year period immediately preceding the preparation of the background study
- **Post period benefit (PPB)**: planned capacity intended to meet servicing requirements beyond the planning horizon of this bylaw

Detailed growth-related capital program, methodologies for determining statutory deductions, and calculated in-period DC eligible costs for each service can be found in Chapters 3 to 9.

1.6.1 Applicable Credits

Section 8(1) 5 of O.Reg. 82/98 indicates that a development charge background study must set out, "The estimated value of credits that are being carried forward relating to the service." A credit is, in effect, a municipal payment liability linked to the prior provision of infrastructure by a landowner. Credits have been included in the development charges calculation to ensure that the necessary development charge "funding room" has been provided.

York Region has made agreements with respect to a number of credits, which are incorporated in the calculation of the charge, for each of the services involved. Details of the Region's Development Charge Credit policy can be found in Chapter 11.

1.7 Attribution to Types of Development

The growth-related in-period development charge eligible costs are allocated between the residential and the non-residential sectors based on assessment of use to which the two types of developments are expected to require capital expenditures.

TABLE 1-4

Service	Residential Cost Share	Non-Residential Cost share	Basis of allocation
Water & Wastewater	79%	21%	Incremental flow estimates
Waste Diversion, Housing services, Long-Term Care/ Seniors Services	100%	0	All costs allocated to residential
Public Health	97%	3%	Based on a survey of current program services
Ambulance Services	90%	10%	Net increment in population and employment growth, with population weighted at three times that of employment
Transit and TYSSE	74%	26%	Net incremental population and employment growth
All other services	75%	25%	Net incremental population and employment growth

RESIDENTIAL/NON-RESIDENTIAL COST SHARE BY SERVICE

The residential component of the DC is applied to different housing types based on average occupancy factors. The non-residential component has been further categorized into retail, industrial, office, institutional, and hotel.

1.8 Reserve Fund Balances allocation and Cash Flow Analysis

A cash flow analysis is used to account for the timing of projects and receipt of DCs, together with interest earnings and/or borrowing costs and inflation. This is done through the establishment of a reserve continuity schedule.

Opening reserve balances are allocated to rate categories. Negative balances are allocated on the basis of forecasted residential and non-residential growth. Positive reserve balances are allocated based on actual development charge collections.

The cash flow analysis can be found in Chapter 10.

1.9 Other Requirements of the DC Study

1.9.1 Asset Management Plan

The asset management plan shall,

- a) deal with all assets whose capital costs are proposed to be funded under the DC bylaw
- b) demonstrate that all the assets included are financially sustainable over their full life cycle
- c) contain any other information that is prescribed
- d) be prepared in the prescribed manner

1.9.2 Long-term Capital and Operating Impacts

Section 10 (2) (c) of the Act requires an examination of the long-term capital and operating costs for capital infrastructure required for each service to which the development charge by-law would relate.

1.9.3 Consideration of Area Rating

Council must consider the use of area rating, also known as area-specific development charges, as part of the DC Background Study. The Act permits the Region to designate the areas where development charges shall be imposed. The charges may apply to all lands in the Region or only to designated areas as specified in the DC Bylaw.

With the exception of the wastewater charge for the Village of Nobleton, York Region's existing development charge policy is to levy a uniform Region-wide rate. The 2022 Bylaw update proposes to continue with this approach (discussed in more detail in Chapter 12 and in Appendix B).

1.9.4 Sixty-day Circulation Period of the DC Background Study

Municipalities must ensure that a development charges background study is made available to the public at least 60 days prior to the passing of the development charges bylaw and until the bylaw expires or is repealed by posting the study on the website of the municipality or, if there is no such website, in the municipal office.

1.9.5 Rules for Development Charges Payable

The rules for determining if development charges are payable in any particular case and for determining the amount of the development charges involved, are set out in the proposed Bylaw. The quantum of the development charges payable is as calculated in Chapters 3-9 and summarized in the Executive Summary.

The bylaw includes rules deal with matters such as: multiple charges, the connection between servicing needs and development, the list of services for which charges are being imposed, types of development approval triggering the need for the imposition of development charges, the requirements for the installation of local services in addition to payment of the development charge, the method used in calculating development charges for individual developments, the quantum of the charge, the timing of calculation and payment, the alternative means of payment, exemptions, phasing- in of charges, indexing and charges imposed on redevelopment.

2 ANTICIPATED DEVELOPMENT IN YORK REGION

This chapter details the development forecast used in calculating the development charges, as well as a summary of the forecast results.

2.1 Development Charges Growth Forecast

In August 2020, the Province updated the Growth Plan's population and employment targets for municipalities across the Greater Golden Horseshoe (GGH) and extended the planning horizon from 2041 to 2051. York Region has been assigned a target of 2.02 million people and 990,000 jobs by 2051.

York Region is undertaking a Regional Municipal Comprehensive Review (MCR), a key part of which is updating the Region's population and employment forecasts contained in the current Regional Official Plan, and ensuring it meets the target set out in Schedule 3 of the Growth Plan.

This background study assumes a total population 1,704,700 and total employment forecast 860,500 to mid-2041 as the basis for forecasting anticipated development which aligns with the MCR and the updates to Region's infrastructure Master Plans.

2.2 Population and Housing Unit Growth Forecast

The methodology used to generate the population and residential unit mix forecast is outlined in Attachment 1 of the March 2021 York Region staff report on the Proposed 2051 Forecast and Land Needs Assessment.

Net population growth refers to the total growth in population considering both population in new housing units and the decline in population in existing units. The mid-year 2041 net population forecast is 1,704,700. For the purposes of calculating development charges, the population forecast includes the Census undercount but does not include the Region's institutional population. Table 2-1 below summarizes the population and housing unit forecast for the DC growth forecast.

TABLE 2-1

Year	Net Population	Housing Units					
End	(excl. institutional population)	Single and Semi-Detached Dwellings	Multiple Unit Dwellings ¹	Apartments ²	Total Households		
2021	1,227,700	264,357	68,163	63,420	395,940		
2026	1,333,300	276,216	76,045	79,508	431,769		
2031	1,449,700	289,880	85,127	98,042	473,049		
2036	1,581,300	303,046	96,025	122,056	521,127		
2041 Mid-year	1,704,700	314,846	105,794	143,580	564,219		
2022-2031	222,000	25,523	16,964	34,622	77,109		
2022-2041	477,000	50,489	37,631	80,159	168,279		

RESIDENTIAL GROWTH FORECAST SUMMARY

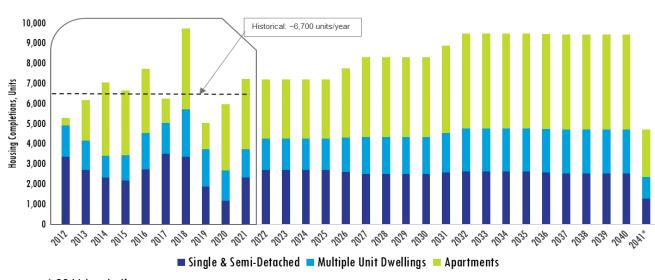
¹Multiple dwellings consist of row and duplex units.

²Apartment category includes stacked townhouses

Numbers may not sum up due to rounding

From 2022 to mid-2041, the Region is expected to add just over 168,000 residential units, of which 30% are single and semi-detached dwellings, 22% for multiple unit dwellings, and the remaining 48% are apartments. The housing unit mix forecast to 2041 assumes a gradual shift in the Region's housing mix to higher density forms of housing over the forecast period. This change in housing mix is required to respond to the changing demographics of the Region and to meet the Growth Plan's intensification policy requirements. Figure 2-1 below shows the historical and forecast housing growth by type in the Region.

FIGURE 2-1



HISTORICAL AND FORECAST HOUSING GROWTH (2012 - 2041)

* 2041 is a half year

2.3 Persons Per Unit Assumptions

'Average' persons per unit (PPU) by dwelling type are based on historical data of PPU's for recently constructed units from Statistics Canada (2001 to 2016) and account for the shift of more families occupying higher density structure types. The 'total unit' PPU's are based on the unit type PPU's weighted by housing forecast mix, which are then adjusted to account for Census undercount.

Table 2-2 summarizes the PPU assumptions informing the housing forecast.

Housing Type	10-year Average Persons per Unit	19.5-year Average Persons per Unit
Single and Semi-Detached Dwellings	3.81	3.81
Multiple Unit Dwellings	3.17	3.17
Large Apartments > = 700 sq. ft.	2.46	2.46
Small Apartments < 700 sq. ft.	1.60	1.60
Total Apartments	2.04	2.04
Weighted PPU	2.88	2.83

TABLE 2-2 PPU ASSUMPTIONS FOR DC RATE CALCULATIONS

Gross population growth only includes the population in new housing units, with no consideration for the decline in the existing population base. For the 10-year DC period, the growth in gross population of 222,074 was estimated by applying the persons per unit (PPU) by dwelling type to the forecast of housing units. (Table 2-3). The calculation of population in new housing units for the 19.5-year DC period to 2041 is also based on the same PPU assumptions. Using this method, the gross population increase from 2022 to 2041 is estimated to be 476,277 (Table 2-4).

TABLE 2-3

YORK REGION 10-YEAR GROWTH FORECAST: 2022 TO 2031

ESTIMATED YORK REGION POPULATION BY DECEMBER 31, 2021: 1,227,700, including:

- the 2016 Census population with an undercount adjustment
- CMHC housing completion data from May 2016 to June 2021
- estimates for additional units to be completed in 2021 x the 2016 PPU (does not include institutional population) adjusted for an estimated decline

Average Persons Per Unit (PPU) Assumptions

	PPU		Housing Mix		Weight
Single and Semi-Detached Dwellings	3.81	х	33.1%	=	1.26
Multiple Unit Dwellings	3.17	х	22.0%	=	0.70
Apartments	2.04	х	44.9%	=	0.92
Weighted Average					2.88

Persons Per Unit (PPU): Based on census 2016 information for households in newly constructed units for the 2001 to 2016 period, as well as adjustments to align with 2051 forecast and adjusted for Census undercount

* Based on estimated forecast mix for the 2021 to 2031 period.

NEW HOUSING UNITS' OCCUPANTS - END OF 2021 TO END OF 2031

Household Unit Pl Growth		PPU		Gross Population Increase	
77,109	x	2.88	=	222,074	

Note: Numbers may not sum due to rounding

DECLINE IN HOUSING UNIT OCCUPANCY - END OF 2021 TO MID 2031

Occupied Househo at Dec. 3 2021	ld	PPU Decline Rate		Total Population Decline	
395, 940	х	0.02%	=	74	

Net Population

220,000

Increase

Note: Numbers may not add up due to rounding

FORECAST FOR MID-YEAR 2031

473,049 1,449,700

Notes for the 2031 Growth Forecast

DECLINE IN HOUSING UNIT OCCUPANCY - END OF 2021 TO END OF 2031

December 31, 2021 occupied household estimate: Based on 2016 occupied household Census total plus CMHC housing completion to Jun 2021 plus estimate of units under construction to be completed in 2021

PPU decline rate = Gross population increase + Year-end 2021 population estimate – 2031 year-end population forecast 2021 year-end household estimate

Total population decline = PPU decline rate x 2021 year-end household estimate

Forecast for mid-year 2041: Households - 2031 year-end forecast; Population - 2031 year-end forecast (not incl. institutional population)

Net population increase = 2031 year-end forecast - 2021 year-end estimate

TABLE 2-4

YORK REGION 20-YEAR GROWTH FORECAST: 2022 TO 2041

ESTIMATED YORK REGION POPULATION BY DECEMBER 31, 2021: 1,227,700, including:

- the 2016 Census population with an undercount adjustment
- CMHC housing completion data from May 2016 to June 2021
- estimates for additional units to be completed in 2021 x the 2016 PPU (does not include institutional population) adjusted for an estimated decline.

Average Persons Per Unit (PPU) Assumptions

	PPU		Housing Mix		Weight
Single and Semi-Detached Dwellings	3.81	х	30.00%	=	1.14
Multiple Unit Dwellings	3.17	х	22.36%	=	0.71
Apartments	2.04	х	47.63%	=	0.97
Weighted Average					2 83

Weighted Average

Persons Per Unit (PPU): Based on census 2016 information for households in new constructed units for the 2001 to 2016 period, as well as adjustments to align with 2051 forecast and adjusted for Census undercount

* Based on estimated forecast mix for the 2021 to 2041 period.

NEW HOUSING UNITS' OCCUPANTS - END OF 2021 TO END OF 2041

Household Unit Growth		PPU		Gross Population Increase
168,279	х	2.83	=	476,277

Note: Numbers may not sum due to rounding

DECLINE IN HOUSING UNIT OCCUPANCY - END OF 2021 TO MID 2041

-723		
Total Population Decline		
1		

Net Population Increase

Note: Numbers may not sum due to rounding

FORECAST FOR MID-YEAR 2041

Total Households	Total Net Population
564,219	1,704,700

Notes for the 2041 Growth Forecast

DECLINE IN HOUSING UNIT OCCUPANCY - END OF 2021 TO END OF 2041

December 31, 2021 occupied household estimate: Based on 2016 occupied household Census total plus CMHC housing completion to Jun 2021 plus estimate of units under construction to be completed in 2021

PPU decline rate = Gross population increase + Year-end 2021 population estimate – 2041 mid-year population forecast 2021 year-end household estimate

Total population decline = PPU decline rate x 2021 year-end household estimate

Forecast for mid-year 2041: Households - 2041 mid-year forecast; Population - 2041 mid-year forecast (not incl. institutional population)

Net population increase = 2041 mid-year forecast - 2021 year-end estimate

2.4 **Employment and Non-Residential Space Forecast**

Consistent with the population forecast, the employment forecast is based on the recent York Region MCR work. The methodology for the employment forecast is outlined in Attachment 1 of the March 2021 York Region staff report on the Proposed 2051 Forecast and Land Needs Assessment. The impact of the COVID-19 pandemic was not evaluated for the forecast as it is too early to identify any long-term trends. The next MCR may provide further insights into the impacts of COVID-19.

The forecast total employment to mid-2041 is 860,500 (Table 2-5) with growth of approximately 210,600 over the 19.5-year forecast period, or about 10,800 jobs per year. To calculate nonresidential development charge rates, work-at-home employment was removed from the total employment forecast growth, as it does not result in new building space. There was also an adjustment made to account for some employment growth that will occur in existing space and therefore not require new building space.

The employment growth (less work at home employment) by building type is estimated by examining the forecast by the four employment types - major office, employment land, populationrelated, and rural employment. The shares of growth within each employment type by the four building types (industrial, office, institutional, and retail) were estimated by examining historical shares of employment growth using York Region's building permit data and employment survey data. In addition, a hotel space forecast was also generated as a segment of the retail building type.

Figure 2-2 shows historical forecast year-end to year-end employment growth with the exception of 2041 which is to mid-year.

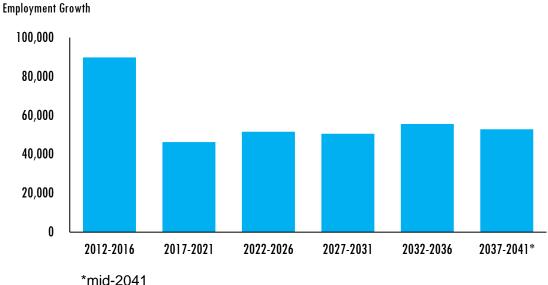


FIGURE 2-2

YORK REGION HISTORICAL AND FORECAST EMPLOYMENT GROWTH

To derive the total employment growth that will generate new non-residential space (Table 2-5), the following deductions are made:

1. Work-at-Home Employment

Work-at-home employment is based on a projection that calculates work-at-home as a share of the Region's labour force. Work-at-home employment in the Region is forecast to increase from about 10% to 12% as a share of total employment growth over the forecast period. The employment growth (less work at home employment) by building type is estimated by first examining the forecast by the four employment types – major office, employment land, population-related, and rural employment. The shares of growth within each employment type by the four building types (industrial, office, institutional, and retail) were estimated by examining historical shares of employment growth using York Region building permit data and employment survey data.

2. GFA Growth Adjustment Factor

An adjustment factor is applied to the employment growth (less the work-at-home employment growth) to account for employment growth that does not require new floor space. Recent development trends suggest that the forecast employment growth does not align with growth occurring in new space. This could be due to existing space achieving planned occupancy (previously unoccupied space), and/or through renovations of existing space allowing for higher employment density. In addition, the adjustment factor also accounts for the anticipated continued increase in contracting out and growth in no-fixed place of work employment. The adjustment factor is a necessary modification to the employment forecast.

TABLE 2-5

EMPLOYMENT GROWTH FORECAST

	All Employment Growth									Employ	ment requiring	new space(refle	cting reoccupation	n and intensific	ation in new sp	bace)		
	Total Employment	Employment Growth	WFH Share	Employment growth Less WFH	Other Retail	Industrial	Office	Institutional	IOI	Hotel	Total	Other Retail	Industrial	Office	Institutional	Ю	Hotel	Total Employment requiring new space
2021	649,900															-		
2022	660,250	10,350	9.78%	9,337	1,806	3,296	2,922	1,277	7,495	36	9,337	1,714	2,802	2,192	1,213	6,207	36	7,957
2023	670,600	10,350	9.78%	9,337	1,806	3,296	2,922	1,277	7,495	36	9,337	1,714	2,802	2,192	1,213	6,207	36	7,957
2024	680,950	10,350	9.78%	9,337	1,806	3,296	2,922	1,277	7,495	36	9,337	1,714	2,802	2,192	1,213	6,207	36	7,957
2025	691,300	10,350	9.78%	9,337	1,806	3,296	2,922	1,277	7,495	36	9,337	1,714	2,802	2,192	1,213	6,207	36	7,957
2026	701,500	10,200	9.78%	9,202	1,779	3,249	2,880	1,258	7,387	37	9,203	1,688	2,761	2,160	1,195	6,116	37	7,841
2027	711,500	10,000	10.84%	8,916	1,709	3,132	2,828	1,209	7,169	37	8,915	1,622	2,662	2,121	1,149	5,932	37	7,591
2028	721,500	10,000	10.84%	8,916	1,709	3,132	2,828	1,209	7,169	37	8,915	1,621	2,662	2,121	1,149	5,932	37	7,590
2029	731,500	10,000	10.84%	8,916	1,709	3,132	2,828	1,209	7,169	37	8,915	1,622	2,662	2,121	1,149	5,932	37	7,591
2030	741,500	10,000	10.84%	8,916	1,709	3,132	2,828	1,209	7,169	37	8,915		2,662	2,121	1,149	5,932	37	7,590
2031	752,050	10,550	10.84%	9,406	1,803	3,304	2,984	1,276	7,564	39	9,406	· · ·	2,809	2,238	1,212	6,259	39	8,008
2032	763,100	11,050	10.91%	9,844	1,901	3,305	3,230	1,366	7,901	42	9,844	1,804	2,810	2,422	1,298	6,530	42	8,376
2033	774,150	11,050	10.91%	9,844	1,901	3,305	3,230	1,366	7,901	42	9,844	1,804	2,810	2,422	1,298	6,530	42	8,376
2034	785,200	11,050	10.91%	9,844	1,901	3,305	3,230	1,366	7,901	42	9,844	1,804	2,810	2,422	1,298	6,530	42	8,376
2035	796,250	11,050	10.91%	9,844	1,901	3,305	3,230	1,366	7,901	42	9,844	1,804	2,810	2,422	1,298	6,530	42	8,376
2036	807,650	11,400	10.91%	10,156	1,961	3,410	3,332	1,410	8,152	43	10,156	1,861	2,899	2,499	1,339	6,737	43	8,641
2037	819,400	11,750	11.72%	10,373	1,978	3,395	3,530	1,427	8,352	44	10,374	1,877	2,885	2,647	1,355	6,887	44	8,808
2038	831,150	11,750	11.72%	10,373	1,978	3,395	3,530	1,427	8,352	44	10,374	1,877	2,885	2,647	1,355	6,887	44	8,808
2039	842,900	11,750	11.72%	10,373	1,978	3,395	3,530	1,427	8,352	44	10,374	1,877	2,885	2,647	1,355	6,887	44	8,808
2040	854,650	11,750	11.72%	10,373	1,978	3,395	3,530	1,427	8,352	44	10,374	1,877	2,885	2,647	1,355	6,887	44	8,808
mid-2041	860,500	5,850	11.72%	5,164	985	1,690	1,757	710	4,157	22	5,164	934	1,437	1,318	675	3,430	22	4,386
2022-2031		102,150		91,622	17,642	32,265	28,864	12,478	73,607	368	91,617	16,740	27,426	21,650	11,855	60,931	368	78,039
2022-2041		210,600		187,809	36,104	64,165	60,993	25,770	150,928	777	187,809	34,259	54,542	45,743	24,481	124,766	777	159,802

The forecast growth in non-residential space is derived by multiplying the employment growth requiring new space for each building type with employee density assumptions also known as floor space per worker (FSW). The FSW assumptions were derived by examining industry standards and the observed employment densities of buildings constructed using data and information from the York Region employment survey and building permits. Table 2-6 summarizes the FSW assumptions used in the non-residential space forecast (Table 2-7).

TABLE 2-6

Employment Type	Sq. Ft. per Employee
Retail	430
Industrial	850
Office	250
Institutional	900
Hotel	2,000

NON-RESIDENTIAL FSW PER EMPLOYEE ASSUMPTIONS

TABLE 2-7

Floor Space per Worker	Retail 430	Industrial 850	Office 250	Institutional 900	Hotel 2,000	Total
2022	736,966	2,381,718	547,923	1,091,742	72,000	4,830,082
2023	737,005	2,381,718	547,923	1,091,742	72,000	4,829,942
2024	736,966	2,381,718	547,923	1,091,742	72,000	4,830,082
2025	736,966	2,381,718	547,923	1,091,742	72,000	4,830,082
2026	725,783	2,347,200	539,982	1,075,920	74,000	4,761,917
2027	697,281	2,262,997	530,329	1,033,968	74,000	4,598,742
2028	697,242	2,262,997	530,329	1,033,968	74,000	4,598,883
2029	697,281	2,262,997	530,329	1,033,968	74,000	4,598,742
2030	697,242	2,262,997	530,329	1,033,968	74,000	4,598,883
2031	735,504	2,387,461	559,497	1,090,836	78,000	4,852,135
2032	775,604	2,388,152	605,601	1,168,132	84,000	5,021,010
2033	775,604	2,388,152	605,601	1,168,132	84,000	5,021,010
2034	775,604	2,388,152	605,601	1,168,132	84,000	5,021,010
2035	775,604	2,388,152	605,601	1,168,132	84,000	5,021,010
2036	800,261	2,463,795	624,783	1,205,131	86,000	5,179,714
2037	806,907	2,452,542	661,810	1,219,811	88,000	5,229,215
2038	806,945	2,452,542	661,810	1,219,811	88,000	5,229,074
2039	806,907	2,452,542	661,810	1,219,811	88,000	5,229,215
2040	806,945	2,452,542	661,810	1,219,811	88,000	5,229,074
mid-2041	401,733	1,221,053	329,497	607,310	44,000	2,603,494
2022-2031	7,198,236	23,313,521	5,412,487	10,669,596	736,000	47,329,490
2022-2041	14,730,350	46,361,145	11,436,411	22,033,809	1,554,000	96,113,316

NON-RESIDENTIAL GFA GROWTH FORECAST

3 WATER: CAPITAL FORECASTS AND DC-RECOVERABLE COSTS

3.1 **Program Description**

The water capital program (Table 3-4) consists of infrastructure and initiatives required to support growth as recommended by the 2021 York Region's Water and Wastewater Master Plan Update (2021 Master Plan), and other studies. The program includes several projects consisting of a combination of the following components:

- Water supply including wells, treatment and cost-shared projects with the City of Toronto and the Region of Peel
- Pumping stations
- Storage facilities
- Watermains and system interconnections
- Planning and studies to support growth such as Long-Term Water Conservation program, Master Plans and Capacity Assessments

3.2 Level of Service

When another Act or Provincial Agency requires a higher level of service than what is permitted under section 5(1)4 of the Act, development charges may be established based on the prescribed level of service as required under another Act. York Region's water service is provided in accordance with provincial design guidelines and requirements and recognizes engineering design standards.

Through the Water and Wastewater Master Plan, design unit rates are developed to assist in identifying infrastructure needs over the long term. Water design unit rates recommended by the 2021 Master Plan, shown in Table 3-1, have been derived from the Regional water consumption forecast model that uses regression analysis of past water consumption trends, while taking into consideration the Region's long-term Water Conservation Program. Unit rates will continue to be monitored and adjusted as flow data becomes available to inform the water program implementation.

	Residential (l/c/d*)	Employment (l/c/d)
2021 Master Plan**	195	151
2016 Master Plan	189	144
2009 Master Plan	239	228

TABLE 3-12041 WATER DESIGN UNIT RATES

* Litres per capita per day

** While using the same methodology to estimate unit rates (i.e., Water Consumption Forecast Model), the 2021 Master Plan unit rates are marginally higher than those in the 2016 Master Plan. This is attributed to recalibration of existing flows with measured water production data since 2016. The unit rates shown in the 2017 DC Bylaw (201 l/c/d for residential and 155 l/c/d for employment) came from the 2016 Master Plan Update and are applicable to year 2031.

3.3 Benefit to Existing Development Deduction

As with other services, the methodology for establishing benefit to existing deduction is based on the principle that growth should pay for growth. Therefore, when a project was required to meet an increase in need due to development, no benefit to existing was allocated. In cases where benefit to existing was considered, it was addressed on a project-by-project basis.

- 1. In cases of **enhancements and/or modification of the existing treatment processes** to meet statutory requirements, the following methodology applies:
 - a) No benefit to existing applies where a growth project requires enhancement and/or modification of the existing treatment process to meet stringent regulatory requirements as part of the project approval requirements. Existing residents should not be asked to pay for improvements they don't need if growth does not occur
 - b) Where it can be demonstrated that enhancement of treatment process is required regardless of the growth project, then a portion of the project can be considered benefit to existing
- 2. In the case of enhancements for system security:
 - a) No benefit to existing applies to growth projects which add system security
 - b) If a portion of the project is triggered solely by the need to provide system redundancy, and is not required for growth, then the corresponding cost will be considered benefit to existing and is not included in the development charges rate calculation

- 3. In the case of growth projects **replacing/decommissioning of existing facilities**, the following methodology applies:
 - a) If the replacement year of an existing facility is within 10 years of the timing of the growth project, the two projects can be combined. As such, where a growth project replaces a facility within 10 years of the end of its useful life as identified in a completed condition assessment, the Region's Asset Management Plan or established under the Public Sector Accounting Board (PSAB) reporting a portion of the cost can be considered as benefit to existing and is calculated as follows:

$$BTE = \frac{C_o}{C_u} xP$$

Where:

 C_o is the capacity of the existing facility to be replaced C_u is the total capacity of the new facility

P is the cost of the project within the DC period including facility decommissioning

- b) Where a growth project advances the replacement of an existing facility by more than 10 years from the end of its expected useful life, no benefit to existing applies, and the replacement cost would be fully attributable to growth because:
 - The existing facility is still sound, and the service received by the residents will not noticeably and tangibly be increased by the new facility
 - The time value of money for improvements is higher when payments are advanced
 - Funds collected to cover the specific facility replacement have not yet built up to the target amount

3.4 Post Period Benefit Deduction

Where infrastructure is sized to accommodate growth beyond the Bylaw planning horizon, the additional cost of providing the oversized infrastructure has been recognized as post period benefit and calculated on a project-by-project basis, as follows:

 In the case of discrete assets, such as groundwater wells, storage facilities, treatment plants and pumping stations, a pro-rated capacity method is used. This method is based on pro-rating the cost of capacity attributable to growth beyond the planning horizon (post 2041), excluding base costs that would be required, regardless of the planning period or capacity of the project. Such post-period costs would be eligible for recovery in subsequent development charges bylaws.

$$PPB = \frac{C_u - F_{pp}}{C_u - C_e} \times P_{net}$$

Where:

 C_u is the total capacity immediately after new facility completion in the service area up to 2051 F_{pp} is the estimated flows in the service area in 2041 C_e is the existing capacity before commissioning the new facility P_{net} is the cost of the project excluding certain base costs, such as:

- Environmental Assessment costs which are expected to be generally the same for a facility sized for 2041 or for other years, i.e., 2051
- Supervisory Control and Data Acquisition System costs are expected to be generally the same for facility sized for 2041 or for other years
- For a pumping facility, normally at least one pump is required for standby. If a standby pump is required for the new facility, the hypothetical cost of one-pump station is considered base cost and calculated as:

Base Cost = P /Number of pumps

Where:

P is the project cost excluding environmental assessment and SCADA system costs

• Other fixed costs where applicable, on a project-by-project basis.

No post period benefit will apply for decommissioning projects in general, as there is no benefit to growth beyond 2041.

2. The determination of post period benefit **for Peel and Toronto cost-shared projects** (through partnership servicing agreements) is based on a pro-rated capacity method, which has been used since 2012, and calculated as follows:

$$PPB = \frac{C_{agt} - D_{2041}}{C_{agt} - C_{2022}} \times P_{cs}$$

Where:

 C_{agt} is the total capacity that York Region secured with municipal partners (535 ML/d from Toronto and 331 ML/d from Peel)

 D_{2041} is the estimated Lake Ontario based demand required from Toronto and Peel water systems in 2041

 C_{2022} is the capacity York Region secured from Toronto and Peel at the beginning of 2022

 P_{cs} is the total York Region share of the cost-shared projects in Toronto and Peel from 2022 onwards to provide the respective capacities, excluding costs related to administration of the servicing agreements

3. In the case of linear assets, a marginal cost approach is used. The cost of a project (including planning, design, construction, contingency and project management) required to service growth within the Bylaw planning horizon is determined. The additional, or marginal costs required to increase the infrastructure size to service beyond 2041 is considered to provide a post-period benefit.

This approach requires sizing "hypothetical" watermains to service 2041 growth needs through the following criteria:

- Minimum size of 300mm in diameter
- Capacity to meet maximum day demand plus fire flow need in 2041
- Capacity to meet peak hour demand in 2041

Cost estimates are derived from cost valuation models developed for the 2021 Master Plan.

3.5 Grants, Subsidies, and Other Contributions

Any applicable grants, subsidies and other contributions have been deducted from the development-charge-eligible costs in accordance with the requirements of the Act. The grants are primarily from the senior levels of government; however, the amounts vary by project and are not based on a set formula. For the projects included in this Background Study, the anticipated contributions are approximately \$48 million.

3.6 Residential versus Non-Residential Allocation

The residential vs. non-residential allocation is based on incremental flow estimates as set out in Table 3-2. The residential share is 79.40%, and the non-residential share is 20.60%.

TABLE 3-2

WATER / WASTEWATER DEMAND FORECAST CALCULATIONS: FLOW SPLIT RESIDENTIAL VERSUS NON-RESIDENTIAL

Residential Component					
Population Growth (2021 - 2041)	476,277				
Non-Residential Component					
Employment Growth (2021 – 2041)	159,802				
Residential / Non-Residential Co	st Share Ratio				
Proportion = Flow per capita	x growth				
Residential = 195 x 476,277	= 92,874,015 (see notes 1 and 2)				
Non-Residential = 151 x 159,802	= 24,130,102 (see notes 1 and 2)				
Total 117,004,117					
Residential share 79.40%]				
Non-Residential share 20.60%					

Note 1 - Unit consumption rates are population weighted averages based on the projected 2041 water unit rates in the 2021 Water and Wastewater Master Plan.

Note 2 - Population growth figures can be found in the anticipated development section of the background study. These figures exclude populations in institutions. Employment population only includes employment growth that would be generated by new development.

The cost share attributable to non-residential development (shown in Table 3-3) was divided between retail, institutional office and industrial, and hotel uses. This is based on the incremental growth in employment by type.

TABLE 3-3

NON-RESIDENTIAL ALLOCATION

Retail	Industrial/ Office/ Institutional	Hotel
4.42%	16.10%	0.10%

2022 Development Charge Background Study Water Services Growth-related capital costs

							Potential Develo	opment Charge Red	coverable Costs		Residential and No	n-residential Split	
											N	on-Residential Share	1
Project			Gross Project Cost	Less Capital Grants, Subsidies and Other	New Municipal	Less	Total Development Charge Eligible	In-period Growth Costs	Post Period Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional 16.10%	Hotel
Number Water Supp	Project Description	Timing	(2022-2041)	Contributions	Cost	Benefit to Existing	Cost	(2022-2041)	(Beyond 2041)	79.40%	4.42%	16.10%	0.10%
	Ballantrae Wells EA	2022-2031	29,000	0	29,000	0	29,000	29,000	0	23,026	1,282	4,669	29
2	Nobleton Water Servicing	2032-2041	7.603.955	0	7.603.955	5 O	7.603.955	7,603,955	0	6,037,540	336,194	1,224,367	7.625
3	Toronto Water Supply - Cost Shared Works	2022-2041	47,800,000	0	47,800,000	0	47,800,000	300,000	47,500,000	238,200	13,264	48,305	301
4	Peel Water Supply - Cost - Shared Works	2022-2041	16,010,000	0	16,010,000	0	16,010,000	1,595,703	14,414,297	1,266,988	70,551	256,935	1,600
5	Georgina Water System Upgrades	2032-2041	21,807,175	0	21,807,175		21,807,175	5,742,675	16,064,500	4,559,684	253,901	924,669	5,759
Subtotal Su			93,250,131	0	93,250,131	0	93,250,131	15,271,333		12,125,439	675,192	2,458,946	15,313
Cubiciai Ci				•		-		,	,0.0,.01	12,120,100	0.0,102	2,100,010	
Water Pum	ping												
6	Aurora East Booster Pumping Station Upgrades	2022-2031	11,442,000	0	11,442,000	0	11,442,000	11,442,000	0	9,084,948	505,886	1,842,358	11,474
7	North Richmond Hill Pumping Station Decommissioning	2032-2041	1,474,846	0	1,474,846	s 0	1,474,846	1,474,846	0	1,171,028	65,207	237,475	1,479
8	East Woodbridge Pumping Station Decommissioning	2032-2041	1,258,470	0	1,258,470	0	1,258,470	1,258,470	0	999,225	55,641	202,635	1,262
9	Northeast Vaughan Water Servicing	2022-2031	100,036,000	48,330,000	51,706,000	0	51,706,000	41,786,347	9,919,653	33,178,359	1,847,502	6,728,317	41,902
10	North Markham Water Servicing	2032-2041	112,717,333	0	112,717,333	0	112,717,333	69,306,576	43,410,758	55,029,421	3,064,255	11,159,545	69,498
11	West Park Heights Pumping Station and Watermain	2032-2041	47,948,163	0	47,948,163	s 0	47,948,163	27,087,055	20,861,108	21,507,122	1,197,601	4,361,480	27,162
Subtotal W	ater Pumping		274,876,812	48,330,000	226,546,812	. 0	226,546,812	152,355,294	74,191,519	120,970,103	6,736,092	24,531,811	152,776
Water Stora	age												
12	Newmarket West Water Servicing	2032-2041	28,574,594	0	28,574,594	0	28,574,594	23,865,216	4,709,379	18,948,981	1,055,154	3,842,708	23,931
13	Stouffville Water Servicing*	2032-2041	4,817,077	0	4,817,077	0	4,817,077	2,618,924	2,198,153	2,079,426	115,791	421,692	2,626
14	West Vaughan Water Servicing	2032-2041	25,024,374	0	25,024,374	0	25,024,374	23,910,758	1,113,615	18,985,142	1,057,168	3,850,041	23,977
15	Vaughan Storage Expansion*	2032-2041	34,884,182	0	34,884,182	0	34,884,182	25,678,483	9,205,699	20,388,716	1,135,324	4,134,675	25,749
16	Holland Landing Storage Expansion	2032-2041	10,343,476	0	10,343,476	3,620,217	6,723,260	4,073,586	2,649,674	3,234,427	180,106	655,917	4,085
17	Queensville Elevated Tank No. 2*	Post 2041	4,447,324	0	4,447,324	0	4,447,324	0	4,447,324	0	0	0	0
Subtotal St	torage		108,091,028	0	108,091,028	3,620,217	104,470,811	80,146,967	24,323,844	63,636,692	3,543,542	12,905,034	80,368
Water Line	ar												
18	York East Water Servicing*	2032-2041	124,871,617	0	124,871,617	36,818,664	88,052,953	68,505,898	19,547,055	54,393,683	3,028,855	11,030,622	68,695
19	Bloomington - Bayview Watermain*	Post 2041	0	0	(0	0	0	0	0	0	0	0
20	York Peel Feedermain Upgrade	2022-2031	3,396,000	0	3,396,000	0 0	3,396,000	3,396,000	0	2,696,424	150,148	546,814	3,405
21	Orchard Heights Reservoir Inlet Upgrade	2022-2031	1,554,000	0	1,554,000	0	1,554,000	1,554,000	0	1,233,876	68,707	250,221	1,558
22	Richmond Hill Langstaff Gateway Provincial Urban Growth Centre Water Servicing	2022-2031	3,550,000	0	3,550,000	0	3,550,000	3,550,000	0	2,818,700	156,956	571,611	3,560
23	Eagle to Kirby Pumping Station Watermain	2022-2031	11,948,364	0	11,948,364	0	11,948,364	11,948,364	0	9,487,001	528,274	1,923,891	11,981
24	Green Lane Leslie Street Watermain	2026-2036	30,992,121	0	30,992,121	0	30,992,121	24,194,950	6,797,170	19,210,791	1,069,733	3,895,801	24,262
25	East Gwillimbury Water Servicing*	2022-2031	35,144,722	0	35,144,722	2 0	35,144,722	35,144,722	0	27,904,910	1,553,855	5,658,902	35,242
26	Yonge Street Watermain*	Post 2041	0	0	(0 0	0	0	0	0	0	0	0
Subtotal W	ater Linear		211,456,825	0	211,456,825	36,818,664	174,638,161	148,293,935	26,344,225	117,745,385	6,556,527	23,877,862	148,703

							Potential Develo	opment Charge Red	coverable Costs		Residential and Nor	-residential Split	
											No	n-Residential Share	
			Gross Project	Less Capital Grants, Subsidies and			Total Development	In-period	Post Period Benefit / Level of Service	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Number	Project Description	Timing	Cost (2022-2041)	Other Contributions	New Municipal Cost	Less Benefit to Existing	Charge Eligible	Growth Costs (2022-2041)	Deduction (Beyond 2041)	79.40%	4.42%	16.10%	0.10%
Subtotal Pl	anning and Studies												
27	Water for Tomorrow Program	2022-2041	19,915,000	0	19,915,000	0	19,915,000	19,915,000	0	15,812,510	880,503	3,206,656	19,970
28	Water Master Plan Update	2022-2041	4,810,000	0	4,810,000	0	4,810,000	4,810,000	0	3,819,140	212,665	774,492	4,823
29	Water System Capacity Assessment	2022-2041	14,118,000	0	14,118,000	0	14,118,000	14,118,000	0	11,209,692	624,200	2,273,240	14,157
Subtotal Pl	anning and Studies		38,843,000	0	38,843,000	0	38,843,000	38,843,000	0	30,841,342	1,717,368	6,254,388	38,950
Other													
30	Credits	2022-2041	50,750,000	0	50,750,000	0	50,750,000	50,750,000	0	40,295,500	2,243,812	8,171,619	50,890
Subtotal O	ther		50,750,000	0	50,750,000	0	50,750,000	50,750,000	0	40,295,500	2,243,812	8,171,619	50,890
	Total		777,267,795	48,330,000	728,937,795	40,438,881	688,498,915	485,660,530	202,838,385	385,614,461	21,472,534	78,199,660	487,001

*These projects will have expenditures beyond 2041, not currently captured in the 2022 DC bylaw

4 WASTEWATER: CAPITAL FORECASTS AND DC-RECOVERABLE COSTS

4.1 **Program Description**

The wastewater capital program (Table 4-1) consists of infrastructure and initiatives required to support growth as recommended by the 2021 York Region Water and Wastewater Master Plan Update (2021 Master Plan) and other studies. The program includes several projects consisting of a combination of the following components:

- Wastewater Treatment including Water Resource Recovery Facilities, Duffin Water Pollution Control Plant and cost-shared projects with the Region of Peel
- Sewage pumping stations and forcemains
- Trunk sewers and flow control management systems
- Planning and studies including Inflow and Infiltration Reduction, Master Plans and Capacity Assessments

4.2 Level of Service

When another Act, or Provincial Agency, requires a higher level of service than what is permitted under section 5 (1)4 of the Act, development charges may be established based on the prescribed level of service as required under another Act. York Region's wastewater service is provided in accordance with provincial design guidelines and requirements and recognizes engineering design standards.

Through the Master Plan, design unit rates are developed to assist in identifying infrastructure needs over the long term. Water design unit rates recommended by the 2021 Master Plan (see Section 4.2) were also used in the development of the wastewater program. Consistent with the 2016 Master Plan, the Regional 25-year design storm was used to size the wastewater system, with inflow and infiltration reduction considered through the recalibration of the Regional wastewater hydraulic model using measured flows. For wastewater treatment (i.e., water resource recovery facilities) capacity is evaluated individually based on both hydraulic and treatment capabilities.

4.3 Benefit to Existing Development Deduction

The methodology to determine benefit to existing development deduction for wastewater assets is the same as for water assets. The methodology is based on the principle that growth should pay for growth. Therefore, when a project is required to meet the increase in need for service arising from development, no benefit to existing is allocated. In cases where benefit to existing is considered, it is addressed on a project-by-project basis.

- 1. In cases of **enhancements and/or modification of the existing treatment processes** to meet statutory requirements, the following methodology applies:
 - a) No benefit to existing applies where a growth project requires enhancement and/or modification of the existing treatment process to meet stringent regulatory requirements as part of the project approval requirements. Existing residents should not be asked to pay for improvements they don't need if growth does not occur
 - b) Where it can be demonstrated that enhancement of treatment process is required regardless of the growth project, then a portion of the project can be considered benefit to existing
- 2. In the case of enhancements for system security:
 - a) No benefit to existing applies to growth projects which add system security
 - b) If a portion of the project is triggered solely by the need to provide system redundancy, and is not required for growth, then the corresponding cost will be considered benefit to existing and is not included in the development charges rate calculation
- 3. In the case of **growth projects replacing/decommissioning of existing facilities**, the following methodology applies:
 - a) If the replacement year of an existing facility is within 10 years of the timing of the growth project, the two projects can be combined. As such, where a growth project replaces a facility within 10 years of the end of its useful life as identified in a completed condition assessment, the Region's Asset Management Plan or established under the Public Sector Accounting Board (PSAB) reporting a portion of the cost can be considered as benefit to existing and is calculated as follows:

$$BTE = \frac{C_o}{C_u} xP$$

Where:

 C_{\circ} is the capacity of the existing facility to be replaced

C_u is the total capacity of the new facility

P is the project cost within the DC period incl. decommissioning of the existing facility

- b) Where a growth project advances the replacement of an existing facility by more than 10 years from the end of its expected useful life, no benefit to existing applies, and the replacement cost would be fully attributable to growth because:
 - The existing facility is still sound, and the service received by the residents will not noticeably and tangibly be increased by the new facility
 - The time value of money for improvements is higher when payments are advanced
 - Funds collected to cover the specific facility replacement have not yet built up to the target amount.

4.4 Post Period Benefit Deduction

Where infrastructure is sized to accommodate growth beyond the Bylaw planning horizon, the additional cost of providing the oversized infrastructure has been recognized as post period benefit and calculated on a project-by-project basis, as follows:

1. In the case of discrete assets, such as treatment facilities and pumping stations, a prorated capacity method is used. This method is based on pro- rating the cost of capacity attributable to growth beyond the planning horizon (post 2041), excluding base costs that would be required, regardless of the planning period or capacity of the project. Such postperiod costs would be eligible for recovery in subsequent development charge bylaws:

$$PPB = \frac{C_u - F_{pp}}{C_u - C_e} \times P_{net}$$

Where:

 C_u is the total capacity immediately after new facility completion in the service area up to 2051 F_{pp} is the estimated flows in the service area in 2041)

C_e is the existing capacity before commissioning the new facility

Pnet is the cost of the project excluding certain base costs, such as:

- Environmental Assessment costs which are expected to be generally the same for a facility sized for 2041 or for other years, i.e., 2051
- Supervisory Control and Data Acquisition System costs are expected to be generally the same for facility sized for 2041 or for other years
- For a pumping facility, normally at least one pump is required for standby. If a standby pump is required for the new facility, the hypothetical cost of one-pump is considered base cost and calculated as:

Base Cost = *P* /Number of pumps

Where:

P is the cost of the project excluding environmental assessment and SCADA system costs

• Other fixed costs where applicable on a project-by-project basis

No post period benefit will apply for decommissioning projects in general, as there is no benefit to growth beyond 2041.

2. The determination of post period benefit **for the Peel wastewater cost-shared projects** is based on the estimated 2041 flow to be diverted to Peel for treatment

3. In the case of linear assets, a marginal cost approach is used. The cost of a project (including planning, design, construction, contingency and project management) required to service growth within the Bylaw planning horizon is determined. The additional, or marginal costs required to increase the infrastructure size to service beyond 2041 is considered to provide a post-period benefit.

This approach requires sizing of "hypothetical" sanitary sewers to service 2041 growth needs through the following criteria:

- Minimum size of 450mm in diameter
- Capacity to convey the peak wet weather flow in 2041 under a 25-year storm event

Cost estimates are derived from cost valuation models developed for the 2021 Master Plan.

4.5 Grants, Subsidies and Other Contributions

Any applicable grants, subsidies and other contributions have been deducted from the development charges eligible costs in accordance with the requirements of the Act. The grants are primarily from the senior levels of government; however, the amounts vary by project and are not based on a set formula. For the projects included in the 2022 Development Charges Background Study, the anticipated contributions are approximately \$234 million.

4.6 Residential versus Non-Residential Allocation

The residential vs. non-residential allocation is based on incremental flow estimates as set out in Table 3-1. The residential share is 79.40%, and the non-residential share is 20.60% (see Table 3-2).

The cost share attributable to non-residential development (shown in Table 3-3) was divided between retail, institutional office and industrial, and hotel uses. This is based on the incremental growth in employment by type.

2022 Development Charge Background Study Wastewater Services Growth related capital costs

							Potential Develo	opment Charge Rec	coverable Costs		Residential and No	on-residential Split	
											N	on-Residential Share	•
Project			Gross Project Cost	Less Capital Grants, Subsidies and Other	New Municipal	Less Benefit to	Total Development Charge Eligible	In-period Growth Costs	Post Period Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Number	Project Description	Timing	(2022-2041)	Contributions	Cost	Existing	Cost	(2022-2041)	(Beyond 2041)	79.40%	4.42%	16.10%	0.10%
Wastewate	r Treatment Keswick Wastewater Servicing	2022-2041	41,820,000	0	41,820,000	0	41,820,000	7,548,000	34,272,000	5,993,112	333,720	1,215,357	7,569
	Duffin Creek Water Pollution Control Plant					0							
2	Phase 3 Expansion	2022-2031	5,050,000	1,919,000	3,131,000	0	3,131,000	3,131,000	0	2,486,014	138,431	504,145	3,140
3	Duffin Creek Water Pollution Control Plant Stages 1 & 2 Upgrades	2022-2031	30,000	0	30,000	0	30,000	30,000	0	23,820	1,326	4,831	30
4	Duffin Creek Water Pollution Control Plant Lab Expansion	2022-2031	2,414,000	0	2,414,000	0	2,414,000	2,414,000	0	1,916,716	106,730	388,695	2,421
5	Holland Landing Lagoon Decommissioning	2022-2031	1,100,000	1,100,000	0	0	0	0	0	0	0	0	0
6	Upper York Water Reclamation Centre	2022-2031	549,938,000	0	549,938,000	0	549,938,000	549,938,000	0	436,650,772	24,314,437	88,549,433	551,456
7	Duffin Creek Water Pollution Control Plant Outfall Effluent Strategy	2022-2031	12,341,000	2,468,000	9,873,000	0	9,873,000	9,873,000	0	7,839,162	436,515	1,589,722	9,900
8	Duffin Creek Water Pollution Control Plant Growth Expansions*	2026-2041	395,988,800	79,198,800	316,790,000	0	316,790,000	97,779,317	219,010,683	77,636,778	4,323,122	15,744,144	98,049
9	Duffin Creek Water Pollution Control Plant Stages 1 & 2 Chlorine Contact Chamber Expansion	2022-2031	15,480,000	1,549,000	13,931,000	0	13,931,000	13,931,000	0	11,061,214	615,932	2,243,130	13,969
10	Sutton Wastewater Servicing	2032-2041	56,323,442	0	56,323,442	0	56,323,442	42,203,242	14,120,200	33,509,374	1,865,934	6,795,445	42,320
11	Upper York Servicing Infrastructure Expansions 1 and 2*	2032-2041	223,236,780	0	223,236,780	0	223,236,780	0	223,236,780	0	0	0	0
12	Nobleton Wastewater Servicing	2032-2041	21,969,060	0	21,969,060	0	21,969,060	21,969,060	0	17,443,433	971,319	3,537,395	22,030
Subtotal W	astewater Treatment		1,325,691,082	86,234,800	1,239,456,282	0	1,239,456,282	748,816,619	490,639,663	594,560,396	33,107,467	120,572,296	750,883
Wastewate													
13	Queensville Holland Landing Sharon York Durham Sewage System Connection	2022-2031	2,120,000	0	2,120,000	0	2,120,000	2,120,000	0	1,683,280	93,732	341,356	2,126
14	Leslie Street Sewage Pumping Station Upgrade	2022-2031	10,000	0	10,000	0	10,000	10,000	0	7,940	442	1,610	10
15	East Queensville Sewage Pumping Station and Forcemain	2022-2031	16,315,480	0	16,315,480	0	16,315,480	14,000,400	2,315,080	11,116,317	619,000	2,254,304	14,039
16	Leslie Street Sewage Pumping Station Expansion*	2031-2041	9,507,541	0	9,507,541	0	9,507,541	5,143,071	4,364,470	4,083,599	227,391	828,123	5,157
17	East Gwillimbury Sewage Pumping Stations Expansion	2032-2041	7,036,778	0	7,036,778	0	7,036,778	4,820,828	2,215,950	3,827,737	213,144	776,236	4,834
18	King City Wastewater Servicing*	2026-2041	40,141,675	0	40,141,675	0	40,141,675	4,622,995	35,518,680	3,670,658	204,397	744,381	4,636
Subtotal W	astewater Pumping		75,131,474	0	75,131,474	0	75,131,474	30,717,294	44,414,180	24,389,532	1,358,105	4,946,010	30,802
Wastewate													
19	West Vaughan Sewage Servicing	2022-2041	389,253,000	0	389,253,000	0	389,253,000	358,206,110	31,046,890	284,415,651	15,837,385	57,677,316	359,195
20	Richmond Hill Langstaff Gateway Provincial Urban Growth Centre Wastewater Servicing	2022-2031	15,178,000	0	15,178,000	0	15,178,000	12,267,950	2,910,050	9,740,752	542,403	1,975,350	12,302
21	Northeast Vaughan Wastewater Servicing	2022-2031	171,626,000	99,374,000	72,252,000	0	72,252,000	63,873,100	8,378,900	50,715,241	2,824,025	10,284,663	64,049
22	Primary Trunk Sewer	2022-2031	228,596,000	45,722,000	182,874,000	0	182,874,000	136,436,310	46,437,690	108,330,430	6,032,266	21,968,582	136,813

							Potential Develo	opment Charge Rec	coverable Costs	R	esidential and No	n-residential Split	
											No	n-Residential Share	
Project			Gross Project Cost	Less Capital Grants, Subsidies and Other	New Municipal	Less Benefit to	Total Development Charge Eligible	In-period Growth Costs	Post Period Benefit / Level of Service – Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Number	Project Description	Timing	(2022-2041)	Contributions	Cost	Existing	Charge Eligible Cost	(2022-2041)	(Beyond 2041)	79.40%	4.42%	16.10%	0.10%
23	Newmarket Diversion Sewer	2032-2041	29,797,687	0	29,797,687	0	29,797,687	20,196,997	9,600,690	16,036,416	892,971	3,252,062	20,253
24	North Markham Trunk Sewer	2032-2041	43,204,641	0	43,204,641	0	43,204,641	34,130,001	9,074,640	27,099,220	1,508,991	5,495,514	34,224
25	Yonge Street Sewer Twinning	2022-2031	65,934,090	0	65,934,090	0	65,934,090	56,399,910	9,534,180	44,781,528	2,493,612	9,081,351	56,556
26	York Durham Sewage System Forcemain Twinning	2022-2031	2,096,000	0	2,096,000	0	2,096,000	2,096,000	0	1,664,224	92,671	337,492	2,102
27	York Durham Sewage System Conveyance Expansion*	Post 2041	2,244,858	0	2,244,858	0	2,244,858	0	2,244,858	0	0	0	0
28	York Durham Sewage System Conveyance Optimization	2022-2031	6,560,427	0	6,560,427	0	6,560,427	6,560,427	0	5,208,979	290,056	1,056,341	6,579
29	York Durham Sewage System Interim Servicing	2022-2031	25,450,000	3,100,000	22,350,000	0	22,350,000	22,350,000	0	17,745,900	988,162	3,598,733	22,412
Subtotal V	Vastewater Linear		979,940,703	148,196,000	831,744,703	0	831,744,703	712,516,804	119,227,898	565,738,343	31,502,542	114,727,404	714,483
Wastewat	er Cost-Shared												
30	Peel System Cost Shared Works	2022-2041	8,215,000	0	8,215,000	0	8,215,000	8,215,000	0	6,522,710	363,210	1,322,756	8,238
Subtotal C	Cost-Shared		8,215,000	0	8,215,000	0	8,215,000	8,215,000	0	6,522,710	363,210	1,322,756	8,238
Planning a	and Studies												
31	York Durham Sewage System Wastewater Master Plan Update	2022-2041	4,816,000	0	4,816,000	0	4,816,000	4,816,000	0	3,823,904	212,930	775,458	4,829
32	Inflow & Infiltration Reduction	2022-2041	69,668,000	0	69,668,000	0	69,668,000	69,668,000	0	55,316,392	3,080,235	11,217,741	69,860
33	Wastewater System Capacity Studies	2022-2041	39,653,000	0	39,653,000	0	39,653,000	39,653,000	0	31,484,482	1,753,180	6,384,812	39,762
Subtotal F	Planning and Studies		114,137,000	0	114,137,000	0	114,137,000	114,137,000	0	90,624,778	5,046,345	18,378,011	114,452
Other	T												
34	Credits	2022-2041	201,262,585	0	201,262,585	0	201,262,585	201,262,585	0	159,802,493	8,898,433	32,406,722	201,818
Subtotal C	Dther		201,262,585	0	201,262,585	0	201,262,585	201,262,585	0	159,802,493	8,898,433	32,406,722	201,818
													1 aaa (
	Total		2,704,377,844	234,430,800	2,469,947,044	0	2,469,947,044	1,815,665,303	654,281,741	1,441,638,251	80,276,103	292,353,199	1,820,676

*These projects will have expenditures beyond 2041, not currently captured in the 2022 DC bylaw

5 ROADS: CAPITAL FORECASTS AND DC-RECOVERABLE COSTS

5.1. **Program Description**

The Roads capital program is based on York Region's Transportation Master Plan and Councilendorsed 10-year Capital Plan, and includes the following service components:

- Growth structures (including road/rail grade separations)
- New Interchanges
- Midblock crossings
- Growth new infrastructure (including missing links)
- Growth widening to 4 or to 6 lanes
- Road improvements to support Transit
- Reconstruction
- Environmental assessment, design, survey and property acquisition for future capital projects
- Intersection and miscellaneous capital
- Sustainable travel options (formally transportation demand management)
- Active Transportation programs and initiatives
- Growth Planning

Table 5-4 to this section details the growth-related capital projects and cost calculation¹.

Consistent with previous DC bylaws, York Region proposes to maintain a transportation program that accommodates all improvements within York Region's right of way, which includes road widenings, road structural capacity improvements, road volume capacity improvements, high-occupancy-vehicle lanes and dedicated transit lanes.

This multi-modal division of the transportation corridors is consistent with the Regional Official Plan, which states that:

• The hierarchy of streets supports York Region's proposed urban structure. These corridors are to accommodate and provide connectivity for all modes of transportation including active transportation, transit users, automobile use and the movement of goods, public and private utilities, and on-street parking where appropriate

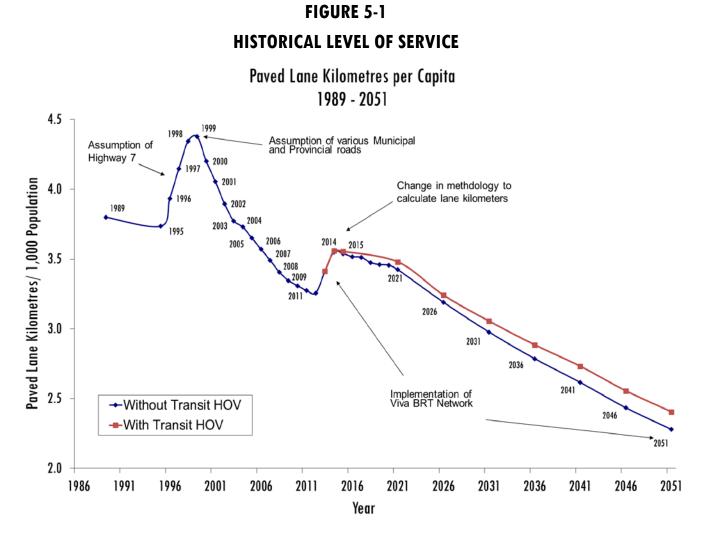
¹ Table 5-5 provides a list of projects contingent on certain trigger events to proceed

- To implement transit improvements on urban streets, which may include transit lanes, high-occupancy vehicle lanes, queue jump lanes, cycling facilities and other transit signal priority needs to support an integrated mobility network
- To require transit or high-occupancy vehicle lanes and cycling facilities within the rightof-way of existing and future six-lane Regional streets based on established thresholds and criteria

The project horizons identified in the background study are for fiscal planning purposes. To meet the changing needs of where growth is occurring and project commitments by third parties, including the Province and Metrolinx, the phasing of project will be evaluated annually through the Regional capital budgeting process.

5.2. Level of Service

As depicted in Figure 5-1, the proposed transportation improvement program anticipates a declining road-kilometre-per-capita level of service over the long term.



Note: 2022 to 2051 paved lane kilometers based on Draft 2022 Transportation Master Plan and therefore includes linear kilometers not currently funded within this Development Charges Bylaw

The network of roads, transit and active transportation improvements identified in the 2022 Transportation Master Plan play a foundational role in allowing people and goods to travel safely, conveniently and reliably throughout the Region in environmentally and fiscally sustainable ways. Transportation Master Plan integrates transportation and land-use policies outlined in the Regional Official Plan to support growth in the Region. Network improvements will be phased in over the next 30 years to meet the evolving needs of York Region's growing population and employment.

History has demonstrated that simply expanding the road network will not solve congestion issues. The Region will ensure the most effective use of road space and financial resources over the long term by designing and operating Regional streets to maximize capacity to move people. This principle will support the Region's ability to meet the mobility needs of today's users while ensuring corridors can adapt in the future to meet the changing travel needs, including High Occupancy Vehicle / Transit lanes and new technologies including autonomous and connected vehicles and supporting the development of a finer grid network.

To maintain an acceptable level of transportation service, some capacity deficiencies in the road network need to be supplied through the implementation of environmentally-friendly travel options, including walking and cycling, and transit infrastructure.

The inter-jurisdictional nature of mobility in the GTHA will continue to increase the complexity of service delivery in York Region. Further, the success of the Region's Transportation Master Plan will be heavily dependent on leveraging successful partnerships with other levels of government.

5.3. Benefit to Existing Development Deduction

Consistent with previous DC bylaws, the benefit to existing (BTE) deduction will be assigned to projects based on a standard categorization as defined in Table 5-1. The table is a general guideline to the proportion of the capital cost attributed to development in each case. Projects may deviate from these classifications based on an individual assessment.

York Region has historically applied a minimum 10% BTE to all road projects as a deduction for elements such as re-paving existing lanes, sub-base reconstruction, and rehabilitation of existing structures. This standard reduction is maintained. However, the base reduction would not apply to the construction of new or missing arterial road links; including mid-block crossings and interchange ramp extensions. When a project would not otherwise be constructed if there was no new growth, it is assigned 0% BTE.

The Region's population and employment growth between 2022 and 2041 (mid-year) is forecasted to be at approximately 27%. It is the position of York Region, that the maximum BTE shall not exceed 73% of the total Regional contribution to a project.

TABLE 5-1

PROJECT CATEGORIZATION FOR BENEFIT TO EXISTING

Project Category	Benefit to	Proportion Attributed
	Existing	to Development
NEW REGIONAL INFRASTRUCTURE		
New Arterial Road Link	0%	100%
New arterial roads are identified to support greenfield a Typically, in many developing communities the existing the hamlet. To service the transportation needs of thes constructed to serve as a major collector as well as an many incidences the new arterial road is designed as a nodes and villages which will negatively impact the exist	arterial road function e new communities, arterial road and trave by-pass to distribute	ns as a main street through the new arterial roads are verse the community. In a traffic away from existing
Missing Arterial Road Link	0%	100%
The construction of a missing arterial road link would be arterial travel. However, as the demand for the missing population and employment growth, the overall level of impacted.	arterial road link is n	eeded to support future
Grade Separation; New Structure	0% to 73%	27% to 100%
BTE for construction of new grade separated rail crossi difference in the rail exposure index from the time when the time of construction. If the increase in the rail exposi costs will be attributed to growth. If the increase in the rail growth share will be proportionate to the increase in rail calculated as (1-rail exposure increase).	n the need was ident sure index is greater rail exposure index is	ified (i.e. in the TMP) and than 100%, then all of the s less than 100%, then the
CAPACITY IMPROVEMENTS		
Road Widening; Urban Area	10%	90%
Capital improvement, including road widenings and inte boundary to support proposed growth. May include con lanes and widenings from 4 to 6 lanes.		
Road Widening; Rural Area	10%	90%
Capital improvement, including road widenings and inte support increased growth and densities in the towns an include continuous left turn lanes, widenings from 2 to 4	nd villages outside the	e main urban areas. May
Road Widening; HOV Lanes	10%	90%
Arterial road widenings to support multi-passenger veh to increase the person trip capacity of the corridor throu		5
Grade Separation; Widening	10% to 73%	27% to 90%
The benefit to existing for the road widening project will constructed concurrently. As a minimum, a 10% benefit accommodate the cost of rehabilitating the existing stru	t to existing deductio	

Major intersection improvements including jog elimination growth. Benefit to existing arises from capacity and safet however in many cases, the addition of new signals or m for example, protected phasing, may reduce the level of s	y increases and geometr odifications to existing si	ic improvements, gnals to accommodate
CONTRIBUTION TO INFRASTRUCTURE		
Mid-Block Crossing	0%	100%
To support the Regional share for new mid-block crossin growth areas.	gs of 400 series highway	rs to support new
400-Series Interchange - New	0%	100%
To support the Regional share for a new interchange in n interchange to existing users is normally offset by increas growth.		
400-Series Interchange Improvements	10%	90%
To support the Regional share for interchange improvement added interchange to existing users is often offset by incr growth.	-	
Interchange Ramp Extensions	0%	100%
To support the Regional share for new interchange ramp growth areas.	extensions from 400 ser	ies highways to new
Road Improvements to Support Transit	18%	82%
To support the Regional share for new road lanes to sup lanes, intersection improvements, utilities, and boulevard		not limited to travel
MISCELLANEOUS POLICIES AND PROGRAMS		
Reconstruction to Regional standard	73%	27%
Road improvements, road structural capacity improveme to support increased demand related to growth within or May include, but not limited to, reconstruction of existing intersection improvements, turn lanes, geometric improve	supporting existing or urb general-purpose lanes, s	ban growth areas. structural design,
Active and Sustainable Transportation	10%	90%
May include, but not limited to, regionally-owned active a regional rights of way, dedicated cycling corridors, partne studies, and initiatives to support active and sustainable	ership programs, researc	
Programs and Studies	10%	90%
May include, but not limited to, Master Plans, transp travel options (i.e., transportation demand managen required to support planned growth.		

10%

90%

Jog Elimination / Intersection Improvement

MISCELLANEOUS CAPITAL

Include general road improvements, streetscaping, urbanization and conversion of gravel, hard and surface treated roads to Regional standard to support increased demand related to growth

Urbanization	10%	90%
Intersection and Miscellaneous Capital	10 to 73%	27% to 90%
Streetscaping	20%	80%
■ Forestry	0%	100%
Remaining Gravel Roads	73%	27%
Remaining Surface Treated Roads	73%	27%

5.4. Post Period Benefit Deduction

Post period benefit deduction refers to the cost of oversized infrastructure capacity which is not required by development anticipated within the planning period, and will clearly benefit development in a subsequent period. York Region's methodology for undertaking the post period benefit analysis is as follows:

1. Consistent with the Act, where maintaining a fixed level of service is the standard measure, the Region will establish an average level of service (LOS) for the past 10 years, referred hereafter as "Base". The objective is to maintain the same traffic level of service as the Base for the DC Bylaw planning horizon, referred hereafter as "Future". As described in the 2017 Development Charges Bylaw, York Region proposes that volume-to-road capacity (V/C) ratio for 2021 be used to represent the average LOS "Base", and 2041 V/C ratio to represent the "Future".

The total cost of the capital projects identified as required by 2041 will be included (2022 to 2041) in the PPB analysis, while project costs identified in the Transportation Master Plan as required post 2041 have been assigned a post period benefit of 100%.

- 2. To maintain theoretical consistency in the analysis, traffic volumes on the Regional road system were modeled for the Base and Future, and V/C ratios for three scenarios computed:
 - a) Future volumes on Base network
 - b) Base volumes on Base network
 - c) Future volumes on Future network
- 3. Volume to capacity (V/C) is a common transportation engineering measure of the ratio between the number of vehicles on the road and the estimated capacity of the road. If the ratio equals 1.0, the section of road is considered to be at capacity. For each scheduled improvement in the roads section of the Development Charges Bylaw, the morning peak period/ peak demand is tested against two thresholds as follows:

Threshold 1:

Volumes_{Future} / Capacity_{Base} are less than (0.80 or 0.90)

The purpose of Threshold 1 is to ensure that specific projects identified in the Transportation Master Plan are required to support development identified within the planning horizon. In other words, where the future demand compared to the base capacity exceeds a volume to capacity ratio of 0.90 in an urban environment and 0.80 in a rural setting, the project is necessary to maintain the historical level of service. In the case of a road widening, the increase is measured in terms of the "minimum" number of lanes that need to be added to the road system in order to maintain the quality of the base network.

Threshold 2:

(V/C)_{Future} < (V/C)_{Base}

The purpose of Threshold 2 is to ensure that the quality of the base road network, defined as Level of Service, has not been improved by the scheduled improvement. In other words, there may be a potential for PPB if the quality of the road segment, defined as the Volume / Capacity of the road project, improves over time.

A Post Period Benefit will be considered for projects that satisfy both thresholds. The amount of Post Period Benefit will be calculated as defined in Step 4.

4. For projects identified in Step 3 for consideration of a Post Period Benefit, a reduction in the project shall be calculated as:

$$\frac{(V/C)_{Future} - (V/C)_{Base}}{(V/C)_{Base}}$$

The reduction shall be calculated for both directions and the lower of the two reductions utilized.

5. If a reduction is applied to a specific project to accommodate PPB, it is anticipated that this reduction will be considered for recovery in development charges calculations in a period beyond the existing Bylaw horizon.

This PPB methodology is not applicable to grade separations, mid-block crossings, new Regional roads, programs and studies and miscellaneous capital expenditures.

However, where the Transportation Master Plan identifies a project need beyond the planning horizon of this Background Study, the project will be assigned a 100% post-period benefit deduction.

Further, the Background Study has historically identified a growth component in major reconstruction capital projects. These improvements provide additional lane capacity to support growth within the planning horizon of the background study. As such, no post period benefit is applicable.

5.5. Grants, Subsidies and Other Contributions

Any applicable grants, subsidies and other contributions have been deducted from the DCeligible costs in accordance with the requirements of the Act. The grants are primarily from other levels of government; however, the amounts vary by project and are not based on a set formula. For the projects included in the 2022 DC Background Study, the applicable grants/ subsidies are approximately \$1.8 billion.

5.6. Residential versus Non-Residential Allocation

5.6.1 Residential vs. Non-residential

The system of network improvements identifies infrastructure requirements needed to support a multi-modal network for all trip purposes and for all trips originating from or destined to York Region. This includes additional transit infrastructure, roads infrastructure and a system of sidewalks and trails to further enable active transportation.

The residential vs. non-residential allocation is determined by using net incremental population and employment growth. This approach is used for both Roads and Transit, including Toronto-York Spadina Subway Extension and Yonge North Subway Extension (Table 5-2 below).

	2022 to mid-2041	%
Gross population growth	476,277	74.88
Employment growth requiring new space	159,802	25.12
Total	636,079	100.00

TABLE 5-2 INCREMENTAL GROWTH FOR POPULATION AND EMPLOYMENT

5.6.2 Non-residential Cost Allocation

For the purpose of rate calculation, the non-residential share of the total capital cost is further allocated between retail, IOI and hotel uses. The cost allocation is determined based on the share of trips generated using the Institute of Transportation Engineers (ITE) Trip Generation rates.

Trip generation rates are used by transportation professionals for estimating the number of trips generated by specific types of developments or land uses. A trip generation rate is the number of trips (vehicle trips, pedestrian trips, and/or transit trips) that can be expected to access and exit a site over a given period of time, expressed over an independent variable, such as trips per 1000 sq. ft. gross floor area, or per hotel suite. For each non-residential sector, an average trip generation rate was developed based on a sample of land use categories.

To capture the travel characteristics of all land use categories, an average of the AM peak hour and PM peak hour trip generation rate was estimated. Furthermore, consistent with industry practices, retail trip rates were further reduced by 20% to accommodate "pass-by" trips. Pass-by trips are defined as trips that would have travelled on a street adjacent to a retail centre even if the retail was not constructed.

Where data is available, the peak of the land use (the trips generated for each land use during the peak period of the land use) was used in the analysis.

Using this methodology, the non-residential share of the costs is allocated to the three land uses as in Table 5-3 below. This approach is used for Roads and Transit services, including Toronto-York Spadina Subway Extension and Yonge North Subway Extension. While the methodology is consistent, the split differs slightly depending on the planning horizon of the service.

Non-residential Land Use	Allocation of DC-Eligible Costs
Retail	35.60%
Industrial, Office, Institutional	63.74%
Hotel	0.66%
Total	100.00%

TABLE 5-3

NON-RESIDENTIAL LAND USE (BASED ON TRIP GENERATION)

2022 Development Charge Background Study Roads Growth related capital costs

							Potential Develo	pment Charge Re	coverable Costs		Residential and No	on-residential Split	
											No	n-Residential Shar	re
				Less			Tatal		Post Period			Industrial/ Office/	
			Gross Project	Capital Grants, Subsidies and		Less	Total Development		Benefit / Level of Service	Residential	Retail	Institutional	Hotel
Project Number	Project Description	Timing	Cost (2022-2041)	Other Contributions	New Municipal Cost	Benefit to Existing	Charge Eligible Cost	Growth Costs (2022-2041)	Deduction (Beyond 2041)	74.88%	8.94%	16.01%	0.17%
Growth St	ructures (Grade Separations)												
1	Barrie GO - Wellington Street East of Yonge Street (YR Share)	2022-2031	6,762,000	0	6,762,000	0	6,762,000	6,762,000	0	5,063,176	604,745	1,082,862	11,217
2	Barrie GO - Elgin Mills East of Yonge Street	2022-2031	57,399,000	5,444,000	51,955,000	0	51,955,000	51,955,000	0	38,902,295	4,646,486	8,320,038	86,181
3	Barrie GO - Rutherford Road East of Keele Street	2022-2031	220,000	0	220,000	0	220,000	220,000	0	164,729	19,675	35,231	365
4	Stouffville GO - Steeles Avenue - Kennedy Road to Midland Ave (YR Share)	2022-2031	12,045,000	0	12,045,000	0	12,045,000	12,045,000	0	9,018,923	1,077,219	1,928,878	19,980
Subtotal G	rowth Structures (Grade Separations)		76,426,000	5,444,000	70,982,000	0	70,982,000	70,982,000	0	53,149,123	6,348,125	11,367,009	117,743
New Interc	changes												
5	Highway 404 Interchange at Doane Road	2032-2041	6,282,000	0	6,282,000	0	6,282,000	6,282,000	0	4,703,767	561,817	1,005,995	10,420
6	Highway 404 Interchange at St. John's Sideroad	2042-2051	57,295,875	0	57,295,875	0	57,295,875	0	57,295,875	0	0	0	0
7	Highway 400 Interchange at King-Vaughan Road or Kirby Road	2042-2051	57,295,875	0	57,295,875	0	57,295,875	0	57,295,875	0	0	0	0
Subtotal N	ew Interchanges		120,873,750	0	120,873,750	0	120,873,750	6,282,000	114,591,750	4,703,767	561,817	1,005,995	10,420
Midblock C	Crossings												
8	Cedar Avenue Extension - Langstaff Road to High Tech Road	2022-2031	6,902,000	1,860,000	5,042,000	0	5,042,000	5,042,000	0	3,775,293	450,921	807,422	8,364
9	Highway 404 north of Doane Road	2042-2051	32,780,358	21,853,572	10,926,786	0	10,926,786	0	10,926,786	0	0	0	0
10	Highway 404 north of Elgin Mills Road	2042-2051	62,077,293	41,384,862	20,692,431	0	20,692,431	0	20,692,431	0	0	0	0
11	Highway 404 North of Major Mackenzie Drive	2032-2041	41,194,000	27,464,000	13,730,000	0	13,730,000	13,730,000	0	10,280,599	1,227,914	2,198,713	22,775
12	Highway 404 North of 16th Avenue	2022-2031	68,584,000	54,725,000	13,859,000	0	13,859,000	13,859,000	0	10,377,190	1,239,450	2,219,371	22,989
13	Highway 404 North of Highway 7 (Regional Share)	2022-2031	216,000	0	216,000	0	216,000	216,000	0	161,734	19,318	34,590	358
14	Highway 400 South of Teston Road (Regional Share)	2022-2031	8,666,000	0	8,666,000	0	8,666,000	8,666,000	0	6,488,832	775,025	1,387,767	14,375
15	Highway 400 north of Kirby Road	2042-2051	66,521,568	44,347,712	22,173,856	0	22,173,856	0	22,173,856	0	0	0	0
16	Highway 427 North of Langstaff Road (Regional Share)	2022-2031	2,287,000	0	2,287,000	0	2,287,000	2,287,000	0	1,712,435	204,533	366,239	3,794
Subtotal M	lidblock Crossings		289,228,219	191,635,146	97,593,073	0	97,593,073	43,800,000	53,793,073	32,796,083	3,917,160	7,014,102	72,654

							Potential Develo	pment Charge Re	coverable Costs	I	Residential and No	on-residential Split	
											No	on-Residential Shar	e
				Less Capital Grants,			Total		Post Period Benefit /			Industrial/ Office/	
Project	Project Description		Gross Project Cost	Subsidies and Other	New Municipal	Less Benefit to	Development Charge Eligible	Growth Costs	Level of Service Deduction	Residential	Retail	Institutional	Hotel
Number		Timing	(2022-2041)	Contributions	Cost	Existing	Cost	(2022-2041)	(Beyond 2041)	74.88%	8.94%	16.01%	0.17%
Growth Ne	ew Infrastructure (Missing Links)												
17	Highway 404 Northbound Off-Ramp Extension at Highway 7	2022-2031	216,000	0	216,000	0	216,000	216,000	0	161,734	19,318	34,590	358
18	Langstaff Road - Jane Street to Keele Street	2022-2031	783,000	0	783,000	0	783,000	783,000	0	586,286	70,026	125,389	1,299
19	Teston Road - Keele Street to Dufferin Street	2022-2041	156,056,000	0	156,056,000	0	156,056,000	156,056,000	0	116,849,899	13,956,539	24,990,702	258,861
20	Donald Cousens Parkway - Major Mackenzie Drive to Highway 48 (Inc. Grade Separation)	2032-2041	22,590,000	0	22,590,000	0	22,590,000	22,590,000	0	16,914,692	2,020,289	3,617,547	37,472
21	Arterial Road Road Ramp Extensions (Regional Share)	2022-2041	10,000,000	0	10,000,000	1,000,000	9,000,000	0	9,000,000	0	0	0	0
Subtotal G	rowth New Infrastructure (Missing Links)		189,645,000	0	189,645,000	1,000,000	188,645,000	179,645,000	9,000,000	134,512,611	16,066,171	28,768,228	297,989
Growth W	iden to 4 Lanes												
22	14th Avenue - Markham Road to Donald Cousens Parkway	2032-2041	35,616,000	353,000	35,263,000	3,526,300	31,736,700	31,736,700	0	23,763,458	2,838,305	5,082,294	52,644
23	19th Avenue - Bayview Avenue to Leslie Street	2022-2031	27,118,000	0	27,118,000	2,711,800	24,406,200	24,406,200	0	18,274,607	2,182,717	3,908,392	40,484
24	2nd Concession - Green Lane to Doane Road	2022-2031	11,000	0	11,000	1,100	9,900	9,900	0	7,413	885	1,585	16
25	Baseline Road - McCowan Road to Dalton Road	2042-2051	26,998,381	0	26,998,381	2,699,838	24,298,543	0	24,298,543	0	0	0	0
26	Bayview Avenue - Bloomington Road to Wellington Street	2032-2041	37,414,000	1,886,000	35,528,000	3,552,800	31,975,200	31,975,200	0	23,942,039	2,859,634	5,120,487	53,039
27	Bayview Avenue - Stouffville Road to Bloomington Road	2032-2041	19,198,000	2,000,000	17,198,000	1,719,800	15,478,200	15,478,200	0	11,589,597	1,384,260	2,478,668	25,675
28	Bloomington Road - Yonge Street to Bathurst Street	2022-2031	350,000	0	350,000	35,000	315,000	315,000	0	235,862	28,171	50,444	523
29	Carrville Road - Bathurst Street to Yonge Street	2022-2031	3,176,000	0	3,176,000	317,600	2,858,400	2,858,400	0	2,140,281	255,635	457,742	4,741
30	Doane Road - Highway 404 to Yonge Street	2032-2041	64,910,000	6,600,000	58,310,000	5,831,000	52,479,000	52,479,000	0	39,294,650	4,693,348	8,403,951	87,050
31	Donald Cousens Parkway - 16th Avenue to Major Mackenzie Drive	2032-2041	17,565,000	520,000	17,045,000	1,704,500	15,340,500	15,340,500	0	11,486,491	1,371,945	2,456,617	25,446
32	Dufferin Street - Major Mackenzie Drive to Teston Road	2022-2031	17,410,000	1,250,000	16,160,000	1,616,000	14,544,000	14,544,000	0	10,890,097	1,300,712	2,329,066	24,125
33	Elgin Mills Road - Woodbine Bypass to Woodbine Avenue	2022-2031	12,382,000	0	12,382,000	1,238,200	11,143,800	11,143,800	0	8,344,132	996,622	1,784,561	18,485
34	Elgin Mills Road - Yonge Street to Bathurst Street	2022-2031	34,489,000	7,564,000	26,925,000	2,692,500	24,232,500	24,232,500	0	18,144,545	2,167,182	3,880,576	40,196
35	Highway 27 - Major Mackenzie Drive to Nashville Road	2022-2031	19,886,000	1,200,000	18,686,000	1,868,600	16,817,400	16,817,400	0	12,592,348	1,504,029	2,693,127	27,896
36	Highway 27 - Nashville Road to King Road	2032-2041	35,501,000	1,400,000	34,101,000	3,410,100	30,690,900	30,690,900	0	22,980,395	2,744,776	4,914,820	50,909

							Potential Develo	pment Charge Re	coverable Costs	R	tesidential and No	on-residential Split	
											No	on-Residential Share	
Project	Project Description		Gross Project Cost	Less Capital Grants, Subsidies and Other	New Municipal	Less Benefit to	Total Development Charge Eligible	Growth Costs	Post Period Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Number		Timing	(2022-2041)	Contributions	Cost	Existing	Cost	(2022-2041)	(Beyond 2041)	74.88%	8.94%	16.01%	0.17%
37	Jane Street - Kirby Road to King-Vaughan Road	2032-2041	18,707,725	0	18,707,725	1,870,772	16,836,952	0	16,836,952	0	0	0	0
38	Jane Street - Teston Road to Kirby Road	2032-2041	18,080,000	983,000	17,097,000	1,709,700	15,387,300	15,387,300	0	11,521,534	1,376,131	2,464,112	25,524
39	Jefferson Sideroad - Bathurst Street to Yonge Street	2042-2051	20,473,216	585,042	19,888,174	1,988,817	17,899,357	0	17,899,357	0	0	о	0
40	Kennedy Road - Major Mackenzie Drive to North of Elgin Mills Road	2022-2031	36,616,000	0	36,616,000	3,661,600	32,954,400	32,954,400	0	24,675,234	2,947,207	5,277,295	54,664
41	King Road - Hwy 27 to 8th Concession	2042-2051	28,227,871	0	28,227,871	2,822,787	25,405,084	0	25,405,084	0	0	0	0
42	King Road - 8th Concession to 7th Concession	2042-2051	12,805,457	1,481,895	11,323,562	1,132,356	10,191,206	0	10,191,206	0	0	0	0
43	King Road - 7th Concession to Weston Road	2042-2051	9,796,831	1,488,885	8,307,946	830,795	7,477,152	0	7,477,152	0	0	0	0
44	King Road - Weston Road to Hwy 400	2042-2051	7,359,767	699,007	6,660,760	666,076	5,994,684	0	5,994,684	0	0	0	0
45	King-Vaughan Road - Dufferin Street to Bathurst Street	2042-2051	14,505,044	1,411,994	13,093,050	1,309,305	11,783,745	0	11,783,745	0	0	0	0
46	King-Vaughan Road - Keele Street to Dufferin Street	2042-2051	11,075,637	1,328,113	9,747,524	974,752	8,772,772	0	8,772,772	0	0	0	0
47	King-Vaughan Road - Jane Street to Keele Street	2042-2051	17,315,908	1,558,785	15,757,122	1,575,712	14,181,410	0	14,181,410	0	0	0	0
48	King-Vaughan Road - Weston Road to Jane Street	2032-2041	35,894,492	0	35,894,492	3,589,449	32,305,042	0	32,305,042	0	0	0	0
49	Langstaff Road - Keele Street to Dufferin Street	2022-2031	26,620,000	820,000	25,800,000	2,580,000	23,220,000	23,220,000	0	17,386,417	2,076,632	3,718,435	38,517
50	Leslie Street - Doane Road to Queensville Sideroad	2042-2051	39,368,397	0	39,368,397	3,936,840	35,431,557	0	35,431,557	0	0	0	0
51	Leslie Street - Green Lane to Colonel Wayling Boulevard	2022-2031	10,054,000	461,000	9,593,000	959,300	8,633,700	8,633,700	0	6,464,647	772,137	1,382,595	14,321
52	Leslie Street - Mount Albert Road to Doane Road	2042-2051	21,168,908	0	21,168,908	2,116,891	19,052,017	0	19,052,017	0	0	0	0
53	Leslie Street - Wellington Street to St. John's Sideroad	2022-2031	1,366,000	0	1,366,000	136,600	1,229,400	1,229,400	0	920,537	109,949	196,875	2,039
54	Leslie Street - 19th Avenue to Stoufffville Road	2022-2031	709,000	0	709,000	70,900	638,100	638,100	0	477,790	57,067	102,185	1,058
55	Leslie Street - Elgin Mills Road to 19th Avenue	2022-2031	468,000	0	468,000	46,800	421,200	421,200	0	315,382	37,669	67,451	699
56	McCowan Road - Major Mackenzie to Elgin Mills	2042-2051	17,671,985	0	17,671,985	1,767,198	15,904,786	0	15,904,786	0	0	0	0
57	Ninth Line - Steeles Avenue to Box Grove By-Pass	2022-2031	12,917,000	642,000	12,275,000	1,227,500	11,047,500	11,047,500	0	8,272,026	988,010	1,769,139	18,325
58	Pine Valley Drive - Major Mackenzie Drive to Teston Road	2032-2041	23,894,000	870,000	23,024,000	2,302,400	20,721,600	20,721,600	0	15,515,692	1,853,193	3,318,343	34,372
59	Pine Valley Drive - Rutherford Road to Major Mackenzie Drive	2032-2041	24,712,000	1,006,000	23,706,000	2,370,600	21,335,400	21,335,400	0	15,975,287	1,908,086	3,416,636	35,390
60	Queensville Sideroad - Hwy 404 to Woodbine	2042-2051	8,774,310	0	8,774,310	877,431	7,896,879	0	7,896,879	0	0	0	0

							Potential Develo	opment Charge Re	coverable Costs	F	Residential and No	on-residential Split	
											No	n-Residential Share	1
			Gross Project	Less Capital Grants, Subsidies and		Less	Total Development		Post Period Benefit / Level of Service	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Number	Project Description	Timing	Cost (2022-2041)	Other Contributions	New Municipal Cost	Benefit to Existing	Charge Eligible Cost	Growth Costs (2022-2041)	Deduction (Beyond 2041)	74.88%	8.94%	16.01%	0.17%
61	Queensville Sideroad - Leslie to Hwy 404	2042-2051	29,982,555	0	29,982,555	2,998,256	26,984,300	0	26,984,300	0	0	0	0
62	St John's Sideroad - Bayview Avenue to Woodbine Avenue	2022-2031	21,000	0	21,000	2,100	18,900	18,900	0	14,152	1,690	3,027	31
63	St John's Sideroad - Bathurst Street to Yonge Street	2042-2051	29,859,394	0	29,859,394	2,985,939	26,873,454	0	26,873,454	0	0	0	0
64	Stouffville Road - Bayview Avenue to Highway 404	2022-2031	40,650,000	0	40,650,000	4,065,000	36,585,000	36,585,000	0	27,393,715	3,271,902	5,858,697	60,686
65	Stouffville Road - Yonge Street to Bayview Avenue	2032-2041	19,456,000	654,000	18,802,000	1,880,200	16,921,800	16,921,800	0	12,670,520	1,513,365	2,709,846	28,069
66	Teston Road - Dufferin Street to Bathurst Street	2032-2041	20,861,000	0	20,861,000	2,086,100	18,774,900	18,774,900	0	14,058,064	1,679,094	3,006,600	31,143
67	Teston Road - Pine Valley Drive to Weston Road	2022-2031	40,563,000	2,754,000	37,809,000	3,780,900	34,028,100	34,028,100	0	25,479,187	3,043,231	5,449,237	56,445
68	Warden Avenue - Major Mackenzie Drive to Elgin Mills Road	2022-2031	20,517,000	1,860,000	18,657,000	1,865,700	16,791,300	16,791,300	0	12,572,805	1,501,694	2,688,947	27,853
69	Warden Avenue - Elgin Mills to 19th Avenue	2032-2041	18,057,755	0	18,057,755	1,805,775	16,251,979	16,251,979	0	12,168,979	1,453,461	2,602,581	26,958
70	Weston Road - Kirby to King-Vaughan	2042-2051	17,356,409	241,724	17,114,685	1,711,469	15,403,217	0	15,403,217	0	0	0	0
71	Weston Road - Teston Road to Kirby Road	2032-2041	23,121,000	1,008,000	22,113,000	2,211,300	19,901,700	19,901,700	0	14,901,776	1,779,866	3,187,045	33,012
72	Woodbine Avenue - Pollock Road to Old Homestead Road	2042-2051	22,728,373	332,028	22,396,344	2,239,634	20,156,710	0	20,156,710	0	0	0	0
75	Woodbine Avenue - Victoria Square Boulevard to 19th Avenue	2032-2041	13,828,000	117,000	13,711,000	1,371,100	12,339,900	12,339,900	0	9,239,735	1,103,593	1,976,103	20,469
76	Improvements to Support Bradford Bypass (HWY 400-404 Link)	2032-2041	50,000,000	0	50,000,000	5,000,000	45,000,000	45,000,000	0	33,694,606	4,024,480	7,206,269	74,645
Subtotal C	Frowth Widen to 4 Lanes		1,117,607,413	43,075,473	1,074,531,940	107,453,194	967,078,746	624,229,879	342,848,867	467,403,997	55,826,680	99,963,749	1,035,453
Growth W	iden to 6 Lanes												
77	Carrville Road - Bathurst Street to Yonge Street	2042-2051	36,809,690	751,432	36,058,258	3,605,826	32,452,432	0	32,452,432	0	0	0	0
78	16th Avenue - Yonge Street to Bayview Avenue	2032-2041	33,940,000	0	33,940,000	3,394,000	30,546,000	30,546,000	0	22,871,899	2,731,817	4,891,616	50,669
79	16th Avenue - Bayview Avenue to Leslie Street	2032-2041	26,650,000	0	26,650,000	2,665,000	23,985,000	23,985,000	0	17,959,225	2,145,048	3,840,942	39,786
80	16th Avenue - Leslie Street to Highway 404	2022-2031	17,436,000	15,000	17,421,000	1,742,100	15,678,900	15,678,900	0	11,739,875	1,402,209	2,510,808	26,008
81	16th Avenue - Highway 404 to Woodbine Avenue	2022-2031	23,354,000	0	23,354,000	2,335,400	21,018,600	21,018,600	0	15,738,077	1,879,754	3,365,904	34,865
82	16th Avenue - Woodbine Avenue to Warden Avenue	2022-2031	29,094,000	148,000	28,946,000	2,894,600	26,051,400	26,051,400	0	19,506,481	2,329,852	4,171,854	43,213
83	16th Avenue - Warden Avenue to Kennedy Road	2022-2031	41,503,000	470,000	41,033,000	4,103,300	36,929,700	36,929,700	0	27,651,815	3,302,730	5,913,897	61,258

							Potential Develo	pment Charge Red	coverable Costs		Residential and No	on-residential Split	
											No	n-Residential Sha	re
			Gross Project	Less Capital Grants, Subsidies and		Less	Total Development		Post Period Benefit / Level of Service	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Number	Project Description	Timing	Cost (2022-2041)	Other Contributions	New Municipal Cost	Benefit to Existing	Charge Eligible Cost	Growth Costs (2022-2041)	Deduction (Beyond 2041)	74.88%	8.94%	16.01%	0.17%
84	16th Avenue - Kennedy to McCowan	2042-2051	35,303,659	0	35,303,659	3,530,366	31,773,293	0	31,773,293	0	0	0	0
85	Bathurst Street - North of Highway 7 to Rutherford Road	2022-2031	31,413,000	1,687,000	29,726,000	2,972,600	26,753,400	26,753,400	0	20,032,117	2,392,634	4,284,271	44,378
86	Bathurst Street - Rutherford Road to Major Mackenzie Drive	2022-2031	36,267,000	4,079,000	32,188,000	3,218,800	28,969,200	28,969,200	0	21,691,240	2,590,799	4,639,108	48,053
87	Bayview Avenue - North of Highway 7 to 16th Avenue	2022-2031	36,975,000	0	36,975,000	3,697,500	33,277,500	33,277,500	0	24,917,161	2,976,103	5,329,036	55,200
88	Bayview Avenue - John Street to Highway 7	2042-2051	39,402,950	0	39,402,950	3,940,295	35,462,655	0	35,462,655	0	0	0	0
89	Dufferin Street - Langstaff Road to Rutherford Road	2032-2041	40,594,000	961,000	39,633,000	3,963,300	35,669,700	35,669,700	0	26,708,366	3,190,044	5,712,122	59,168
90	Dufferin Street and Rutherford Road	2022-2031	11,691,000	951,000	10,740,000	1,074,000	9,666,000	9,666,000	0	7,237,601	864,458	1,547,907	16,034
91	Highway 27 Road Widening at the Canadian Pacific Railway Bridge	2022-2031	5,301,000	266,000	5,035,000	503,500	4,531,500	4,531,500	0	3,393,047	405,265	725,671	7,517
92	Highway 50 - Steeles Avenue to Hwy 7	2042-2051	36,207,510	0	36,207,510	3,620,751	32,586,759	0	32,586,759	0	0	0	0
93	Highway 50 - Major Mackenzie Drive to Albion-Vaughan Road	2022-2031	17,856,000	0	17,856,000	1,785,600	16,070,400	16,070,400	0	12,033,018	1,437,222	2,573,503	26,657
94	Highway 50 - Rutherford Road to Major Mackenzie Drive	2022-2031	10,144,000	0	10,144,000	1,014,400	9,129,600	9,129,600	0	6,835,962	816,486	1,462,008	15,144
95	Highway 7 West of Kipling Avenue	2022-2031	5,547,000	0	5,547,000	554,700	4,992,300	4,992,300	0	3,738,080	446,476	799,464	8,281
96	Keele Street - Langstaff Road to Rutherford Road	2022-2031	558,000	0	558,000	55,800	502,200	502,200	0	376,032	44,913	80,422	833
97	Keele Street - Highway 7 to Langstaff Road	2032-2041	63,781,000	91,000	63,690,000	6,369,000	57,321,000	57,321,000	0	42,920,189	5,126,383	9,179,346	95,082
98	Keele Street - Steeles Avenue to Highway 407	2022-2031	25,558,000	4,613,000	20,945,000	2,094,500	18,850,500	18,850,500	0	14,114,670	1,685,855	3,018,706	31,269
99	Kennedy Road - Steeles Avenue to 14th Avenue	2042-2051	33,937,212	800,363	33,136,849	3,313,685	29,823,164	29,823,164	0	22,330,662	2,667,172	4,775,861	49,470
100	Kennedy Road - 14th Avenue to Highway 407	2022-2031	59,608,000	3,260,000	56,348,000	5,634,800	50,713,200	50,713,200	0	37,972,473	4,535,428	8,121,177	84,121
101	Kennedy Road - Highway 407 to Highway 7	2022-2031	20,723,000	224,000	20,499,000	2,049,900	18,449,100	18,449,100	0	13,814,115	1,649,956	2,954,426	30,603
102	Kennedy Road - Highway 7 to Major Mackenzie Drive (EA)	2022-2031	270,000	0	270,000	27,000	243,000	243,000	0	181,951	21,732	38,914	403
103	Kennedy Road - Hwy 7 to 16th Avenue	2042-2051	44,429,402	775,898	43,653,505	4,365,350	39,288,154	0	39,288,154	0	0	0	0
104	Langstaff Road - Weston Road to Jane Street	2022-2031	746,000	0	746,000	74,600	671,400	671,400	0	502,724	60,045	107,518	1,114
105	Major Mackenzie Drive - Canadian Pacific Railway to Highway 27	2022-2031	1,613,000	502,000	1,111,000	111,100	999,900	999,900	0	748,694	89,424	160,123	1,659
106	Major Mackenzie Drive - Highway 27 to Pine Valley Drive	2022-2031	2,486,000	2,053,000	433,000	43,300	389,700	389,700	0	291,795	34,852	62,406	646
107	Major Mackenzie Drive - Highway 400 to Jane Street	2022-2031	22,418,000	0	22,418,000	2,241,800	20,176,200	20,176,200	0	15,107,314	1,804,416	3,231,003	33,468

							Potential Develo	pment Charge Re	coverable Costs	Re	sidential and No	on-residential Split	
											No	on-Residential Share	
Durlant	Particul Description		Gross Project	Less Capital Grants, Subsidies and		Less	Total Development	Or with Or other	Post Period Benefit / Level of Service	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Number	Project Description	Timing	Cost (2022-2041)	Other Contributions	New Municipal Cost	Benefit to Existing	Charge Eligible Cost	Growth Costs (2022-2041)	Deduction (Beyond 2041)	74.88%	8.94%	16.01%	0.17%
108	Major Mackenzie Drive - Keele Street to McNaughton Road	2022-2031	12,035,000	1,140,000	10,895,000	1,089,500	9,805,500	9,805,500	0	7,342,055	876,934	1,570,246	16,265
109	Major Mackenzie Drive - Leslie Street to Woodbine Avenue	2032-2041	13,135,000	0	13,135,000	1,313,500	11,821,500	11,821,500	0	8,851,573	1,057,231	1,893,087	19,609
110	McCowan Road - Bullock Drive to 16th Avenue	2032-2041	15,565,000	707,000	14,858,000	1,485,800	13,372,200	13,372,200	0	10,012,689	1,195,914	2,141,415	22,181
111	McCowan Road - 14th Avenue to Bullock Drive	2022-2031	37,071,000	228,000	36,843,000	3,684,300	33,158,700	33,158,700	0	24,828,207	2,965,478	5,310,012	55,003
112	Rutherford Road - Jane Street to Westburne Drive	2022-2031	43,230,000	389,000	42,841,000	4,284,100	38,556,900	38,556,900	0	28,870,212	3,448,255	6,174,476	63,957
113	Rutherford Road - Peter Rupert Avenue to Bathurst Street	2022-2031	37,514,000	650,000	36,864,000	3,686,400	33,177,600	33,177,600	0	24,842,359	2,967,169	5,313,038	55,034
114	Steeles Avenue Donald Cousens Parkway to Morningside Avenue	2022-2031	329,000	0	329,000	32,900	296,100	296,100	0	221,711	26,481	47,417	491
115	Steeles Avenue - Tapscott Road to Ninth Line	2022-2031	23,543,000	0	23,543,000	2,354,300	21,188,700	21,188,700	0	15,865,442	1,894,967	3,393,144	35,147
116	Warden Avenue - Highway 7 to 16th Avenue	2032-2041	25,836,000	0	25,836,000	2,583,600	23,252,400	23,252,400	0	17,410,677	2,079,529	3,723,624	38,570
117	Weston Road - Highway 407 to North of Highway 7	2022-2031	8,847,000	0	8,847,000	884,700	7,962,300	7,962,300	0	5,961,924	712,091	1,275,077	13,208
118	Weston Road - North and South of Rutherford Road	2022-2031	13,408,000	0	13,408,000	1,340,800	12,067,200	12,067,200	0	9,035,546	1,079,205	1,932,433	20,017
119	Yonge Street - Davis Drive to Green Lane	2022-2031	48,175,000	541,000	47,634,000	4,763,400	42,870,600	42,870,600	0	32,100,177	3,834,042	6,865,269	71,112
Subtotal (Growth Widen to 6 Lanes		1,070,304,423	25,302,693	1,045,001,731	104,500,173	940,501,558	768,938,264	171,563,293	575,757,153	68,768,369	123,137,252	1,275,490
Road Imp	rovements to Support Transit		0	0		0	0	0	0				
120	Short Term Rapid Transit Project (Roads Infrastructure)	2022-2031	476,000,000	349,050,800	126,949,200	22,847,058	104,102,142	104,102,142	0	77,948,459	9,310,155	16,670,846	172,681
121	Medium Term Rapid Transit Project (Roads Infrastructure)	2032-2041	1,040,000,000	762,632,000	277,368,000	49,917,941	227,450,059	227,450,059	0	170,307,558	20,341,515	36,423,698	377,287
122	Long Term Rapid Transit Project (Roads Infrastructure)	2042-2051	517,000,000	379,116,100	137,883,900	24,814,977	113,068,923	0	113,068,923	0	0	0	0
Subtotal I	Road Improvements to Support Transit		2,033,000,000	1,490,798,900	542,201,100	97,579,975	444,621,125	331,552,201	113,068,923	248,256,018	29,651,671	53,094,545	549,968
Reconstru	uction												
123	Bridge and Culvert	2022-2041	426,125,000	0	426,125,000	311,071,250	115,053,750	115,053,750	0	86,148,684	10,289,589	18,424,629	190,848
124	Roads and Pavement	2022-2041	2,077,888,791	0	2,077,888,791	1,516,858,818	561,029,974	561,029,974	0	420,081,865	50,174,530	89,842,959	930,619
125	Rapidway Corridors	2022-2041	21,465,557	9,798,539	11,667,018	8,516,923	3,150,095	3,150,095	0	2,358,694	281,722	504,454	5,225
126	Intersection	2022-2041	20,000,000	0	20,000,000	14,600,000	5,400,000	5,400,000	0	4,043,353	482,938	864,752	8,957

							Potential Develop	oment Charge Re	coverable Costs	Re	sidential and No	n-residential Split	
											Nor	n-Residential Shar	e
			Gross Project	Less Capital Grants, Subsidies and		Less	Total Development		Post Period Benefit / Level of Service	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Number	Project Description	Timing	Cost (2022-2041)	Other Contributions	New Municipal Cost	Benefit to Existing	Charge Eligible Cost	Growth Costs (2022-2041)	Deduction (Beyond 2041)	74.88%	8.94%	16.01%	0.17%
	econstruction		2,545,479,348	9,798,539		1,851,046,991	684,633,819	684,633,819		512,632,595	61,228,779	109,636,795	1,135,649
	ental Assessment, Design, Survey and Acquisition for Future Capital Projects												
127	Miscellaneous Design & Survey for Future Projects	2022-2041	15,000,000	0	15,000,000	1,500,000	13,500,000	13,500,000	0	10,108,382	1,207,344	2,161,881	22,393
	Property Acquisition for Future Capital Projects	2022-2041	10,000,000	0	10,000,000	1,000,000	9,000,000	9,000,000	0	6,738,921	804,896	1,441,254	14,929
	nvironmental Assessment, Design, d Property Acquisition for Future Capital		25,000,000	0	25,000,000	2,500,000	22,500,000	22,500,000	0	16,847,303	2,012,240	3,603,135	37,322
Intersectio	n and Miscellaneous Capital												
129	Intersection, Bottleneck and Miscellaneous Capital	2022-2041	432,000,000	0	432,000,000	52,435,340	379,564,660	379,564,660	0	284,206,260	33,945,563	60,783,227	629,610
130	Various Road Improvements	2022-2041	94,515,001	1,000,000	93,515,001	9,351,500	84,163,501	84,163,501	0	63,019,022	7,526,985	13,477,886	139,608
131	Regional Streetscaping	2022-2041	26,116,000	0	26,116,000	5,223,200	20,892,800	20,892,800	0	15,643,881	1,868,503	3,345,759	34,656
132	Intelligent Transportation System	2022-2041	34,157,000	0	34,157,000	3,415,700	30,741,300	30,741,300	0	23,018,133	2,749,283	4,922,891	50,993
Subtotal In	tersection and Miscellaneous Capital		586,788,001	1,000,000	585,788,001	70,425,740	515,362,261	515,362,261	0	385,887,297	46,090,335	82,529,763	854,867
Transporta	ation Demand Mangement												
	Residential Transportation Demand Mangement	2022-2041	37,965,802	0	37,965,802	3,796,580	34,169,222	34,169,222	0	25,584,855	3,055,852	5,471,836	56,679
134	Non-Residential Transportation Demand Mangement	2022-2041	4,876,554	0	4,876,554	487,655	4,388,898	4,388,898	0	3,286,271	392,512	702,835	7,280
135	TDM Studies, Pilot Programs, and Intitiatives	2022-2041	1,000,000	0	1,000,000	100,000	900,000	900,000	0	673,892	80,490	144,125	1,493
Subtotal T	ransportation Demand Mangement		43,842,355	0	43,842,355	4,384,236	39,458,120	39,458,120	0	29,545,018	3,528,854	6,318,797	65,452
Active Tra	nsportation Programs and Initiatives												
	Pedestrian Cycling Partnership Program	2022-2041	11,318,000	0	11,318,000	1,131,800	10,186,200	10,186,200	0	7,627,111	910,981	1,631,211	16,897
137	Pedestrian Cycling Program inc. Urbanization	2022-2041	289,125,000	0	289,125,000	28,912,500	260,212,500	260,212,500	0	194,839,059	23,271,555	41,670,253	431,632
138	HWY 407 / South York Greenway	2022-2041	27,500,000	0	27,500,000	2,750,000	24,750,000	24,750,000	0	18,532,033	2,213,464	3,963,448	41,055
139	Keele Street - Highway 407 to Highway 7	2022-2041	12,147,000	114,000	12,033,000	1,203,300	10,829,700	10,829,700	0	8,108,944	968,531	1,734,261	17,964
Subtotal A Initiatives	ctive Transportation Programs and		340,090,000	114,000	339,976,000	33,997,600	305,978,400	305,978,400	0	229,107,148	27,364,532	48,999,173	507,547

							Potential Develo	pment Charge Re	coverable Costs	R	esidential and No	on-residential Split	
						Total Ber Less Development Level of				No	n-Residential Share		
Project	Project Description		Gross Project Cost	Less Capital Grants, Subsidies and Other	New Municipal	Benefit to	Development Charge Eligible	Growth Costs	Post Period Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Number		Timing	(2022-2041)	Contributions	Cost	Existing	Cost	(2022-2041)	(Beyond 2041)	74.88%	8.94%	16.01%	0.17%
Growth Pl	anning												
140	Transportation Master Plan Update	2022-2041	3,066,000	0	3,066,000	306,600	2,759,400	2,759,400	0	2,066,153	246,781	441,888	4,577
141	Arterial Corridor Transportation Studies	2022-2041	5,860,000	0	5,860,000	586,000	5,274,000	5,274,000	0	3,949,008	471,669	844,575	8,748
142	Transportation Planning Studies	2022-2041	10,000,000	0	10,000,000	1,000,000	9,000,000	9,000,000	0	6,738,921	804,896	1,441,254	14,929
Subtotal G	rowth Planning		18,926,000	0	18,926,000	1,892,600	17,033,400	17,033,400	0	12,754,082	1,523,346	2,727,717	28,254
Miscellane	ous Charges												
143	Forestry	2022-2041	24,789,000	0	24,789,000	0	24,789,000	24,789,000	0	18,561,235	2,216,952	3,969,694	41,119
144	Outstanding DC Credits	2022-2031	2,160,000	0	2,160,000	0	2,160,000	2,160,000	0	1,617,341	193,175	345,901	3,583
Subtotal N	liscellaneous Charges		26,949,000	0	26,949,000	0	26,949,000	26,949,000	0	20,178,576	2,410,127	4,315,595	44,702
Total			8,484,159,510	1,767,168,750	6,716,990,760	2,274,780,509	4,442,210,251	3,637,344,345	804,865,906	2,723,530,770	325,298,207	582,481,856	6,033,511

2022 Development Charge Background Study Roads Contingency List Growth related capital costs

							Potential Deve	elopment Charge Reco	overable Costs		Residential and No	n-residential Split	
											,	Non-Residential Share	
Project Number	Project Description			Less Capital Grants, Subsidies and Other		Less	Total Development	In-period Growth Costs	Post Period Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Interchang	145	Timing	(2022-2041)	Contributions	New Municipal Cost	Benefit to Existing	Charge Eligible Cost	(2022-2041)	(Beyond 2041)	74.88%	8.94%	16.01%	0.17%
1	Highway 404 Interchange at 19th Avenue	2022-2041	57,295,875	0	57,295,875	0	57,295,875	57,295,875	0	42,901,376	5,124,136	9,175,323	95,041
	nterchanges		57,295,875	0		0	57,295,875	57,295,875	0	42,901,376	5,124,136	9,175,323	95,041
Midblock	Crossings												
2	Midblock Crossing - Highway 400 north of Rutherford Road	2022-2041	70,857,811	47,238,541	23,619,270	0	23,619,270	23,619,270	0	17,685,378	2,112,340	3,782,374	39,179
3	Midblock Crossing - Highway 400 south of Highway 7 (Regional Share)	2022-2041	56,067,000	0	56,067,000	0	56,067,000	56,067,000	0	41,981,233	5,014,234	8,978,531	93,002
Subtotal N	Aidblock Crossings		126,924,811	47,238,541	79,686,270	0	79,686,270	79,686,270	0	59,666,611	7,126,573	12,760,905	132,181
Growth Ne	ew Infrastructure												
4	Langstaff Road - Jane Street to Keele Street	2022-2041	836,448,600	557,632,400		0	278,816,200	278,816,200	0	208,768,934	24,935,338	44,649,437	462,491
Subtotal G	Growth New Infrastructure		836,448,600	557,632,400	278,816,200	0	278,816,200	278,816,200	0	208,768,934	24,935,338	44,649,437	462,491
0													
Growth W	iden to 4 Lanes												
5	Elgin Mills Road - Woodbine Avenue to Warden Avenue	2022-2041	16,432,534	0	16,432,534	1,643,253	14,789,280	14,789,280	0	11,073,755	1,322,648	2,368,345	24,532
6	Elgin Mills Road - Warden Avenue to Kennedy Road	2022-2041	16,362,615	0	16,362,615	1,636,262	14,726,354	14,726,354	0	11,026,637	1,317,020	2,358,268	24,428
7	Elgin Mills Road - Kennedy Road to McCowan Road	2022-2041	29,996,554	0	29,996,554	2,999,655	26,996,898	26,996,898	0	20,214,441	2,414,411	4,323,265	44,782
8	Elgin Mills Road - McCowan Road to Highway 48	2022-2041	16,727,980	0	16,727,980	1,672,798	15,055,182	15,055,182	0	11,272,854	1,346,428	2,410,927	24,973
9	Kirby Road - Weston Road to Jane Street	2022-2041	61,626,345	0	61,626,345	6,162,635	55,463,711	55,463,711	0	41,529,509	4,960,280	8,881,921	92,001
10	Kirby Road - Jane Street to Keele Street	2022-2041	16,918,015	0	16,918,015	1,691,801	15,226,213	15,226,213	0	11,400,917	1,361,724	2,438,315	25,257
11	Kirby Road - Keele Street to Dufferin Street	2022-2041	15,246,008	0	15,246,008	1,524,601	13,721,407	13,721,407	0	10,274,165	1,227,145	2,197,337	22,761
12	19th Avenue - Leslie Street to Woodbine Avenue	2022-2041	59,512,842	0	59,512,842	5,951,284	53,561,558	53,561,558	0	40,105,235	4,790,165	8,577,311	88,846
13	19th Avenue - Woodbine Avenue to Warden Avenue	2022-2041	13,994,435	1,398,014		1,259,642	11,336,780	11,336,780	0	8,488,629	1,013,881	1,815,464	18,805
Subtotal G	Browth Widen to 4 Lanes		246,817,328	1,398,014	245,419,315	24,541,931	220,877,383	220,877,383	0	165,386,142	19,753,702	35,371,154	366,384
Crowth 14	iden to 6 Lanes												
Growth W	Langstaff Road - Weston Road to Jane Street	2022-2041	37,063,731	800,271	36,263,460	3,626,346	32,637,114	32,637,114	0	24,437,660	2,918,831	5,226,485	54,137
15	Langstaff Road - Keele Street to Dufferin	2022-2041	26,765,446	0	26,765,446	2,676,545	24,088,901	24,088,901	0	18,037,023	2,154,340	3,857,580	39,958
Subtatal	Street Subtotal Interchanges		63,829,177	800,271			56,726,016	56,726,016	0	42,474,683	5,073,171	9,084,066	94,095
SUDIOTAIS	austoral interchanges		63,829,177	800,271	63,028,906	6,302,891	50,720,016	56,726,016	0	42,474,683	5,073,171	9,084,066	94,095
Road Impi	rovements to Support Transit												
16	Steeles Avenue - Jane Street to Kennedy Road (Regional Share)	2022-2041	276,000,000	202,390,800	73,609,200	13,247,454	60,361,746	60,361,746	0	45,197,006	5,398,325	9,666,289	100,126
Subtotal R	Road Improvements to Support Transit		276,000,000	202,390,800	73,609,200	13,247,454	60,361,746	60,361,746	0	45,197,006	5,398,325	9,666,289	100,126
Total			1,607,315,792	809,460,026	797,855,766	44,092,276	753,763,490	753,763,490	0	564,394,752	67,411,245	120,707,174	1,250,319

6 TRANSIT: CAPITAL FORECASTS AND DC-RECOVERABLE COSTS

6.1. Program Description

The Transit growth program includes facilities, transit garages, bus terminals and stops, including but not limited to:

Technology/ Equipment	Electric bus infrastructure and charging stations, expansion of the automated fare collection system
Vehicles	Fleet expansion (YRT/Viva/Mobility On-Request)
Stations and Facilities	Transit vehicle garages, terminals, stops, stations
Bus Rapid Transit	BRT infrastructure, Environmental Assessments and preliminary design

6.2. Level of Service Calculation

Transit level of service is determined using a forward-looking planned level of service as opposed to a historical 10-year average level of service.

For the purpose of the development charges calculations for transit, excluding Toronto-York Spadina Subway Extension and the Yonge North Subway Extension, the "planned level of service" is considered to be the Council-endorsed 2022 10-year capital plan. This confirms Council's intention to meet the increased need for transit services through the transit network defined in the Transportation Master Plan, as updated, and YRT's service guidelines outlined in the Council-approved YRT 2021-2025 Business Plan and the 10-year Capital Plan.

The YRT service guidelines define how new services are designed, and how existing transit routes are evaluated for service adjustments. They are applied in tandem with route performance measures. For Mobility On-Request Paratransit service standards and all policies meet or exceed the standards and requirements outlined in the *Accessibility for Ontarians with Disabilities Act, 2005* (AODA), and the *Ontario Regulation 191/11: Integrated Accessibility Standards*. The service guidelines include:

- Service Coverage
- Span of Service
- Minimum Service Frequency
- Vehicle Capacity
- New Service Implementation
- Mobility On-Request Paratransit Service Area
- Mobility On-Request Paratransit Days and Hours of Service

6.3. Ridership Forecasts

Estimated ridership, measured by trips, is obtained from the Regional Transportation Demand Forecast model. This provides a basis for estimating the total number of trips during the AM peak period for local transit, GO Rail and auto trips:

- All trips originating from York Region to all destinations
- All trips with destinations to York Region from all origins
- All trips with origins in York Region and destinations in York Region were calculated and excluded from the analysis to account for double counting of trips, as these trips were already captured in all trip origins and all trip destinations

The following horizons were evaluated related to the Base Year - the Travel Demand Forecasting Horizon that closely represents the DC Bylaw horizon:

- Total Trips Total Auto and Local Transit Trips in the AM Peak Period at the end of the Base Year. Where required, a base year may be estimated based on two horizons within the Travel Demand Forecasting Model (T)
- Local Transit Trips trips in the AM Peak Period at the end of the Base year (A)

Local Transit Trips are defined as trips with an origin or a destination within York Region across the following transit services:

- Conventional Transit
- Bus Rapid Transit
- Subway
- Interim Local Transit Trips trips in the AM Peak Period at the Base Year + 5 years (B)
- 10-Year Local Transit Trips trips in the AM Peak Period at the end of a 10-year planning horizon (C)
- For the case of the 2022 DC Bylaw, it is assumed that the Yonge North Subway Extension is in service within the 10-year horizon.

The model extractions are summarized in Table 6-1 below:

TABLE 6-1TRANSIT MODEL EXTRACTIONS

			Excl. GO Rail									
Horizon	Local Transit	HOV Passenger	Non- motorized	Auto Trips	Total	Transit Mode Share						
2021	62,450 (A)	110,467	61,133	502,000	736,050 (T)	8.48%						
2026	69,899 (B)	124,233	64,967	539,800	798,899	8.75%						
2031	84,700 (C)	138,000	68,800	577,600	869,100	9.75%						
Total	217,049	372,700	194,900	1,619,400	2,404,049	9.03% (F)						

6.4. Benefit to Existing Development Deduction

The Local Transit Modal Split for existing development (F) is applied to the total trips in the Base Year (T) to determine forecasted transit trips by existing development in 10 years (BTE).

Local Transit Modal Split for the existing development (F) is estimated based on an weighted average of Base, Base+5-years and Base+10-years local transit modal split. The justification of a blended average is to reflect the gradual and incremental change in mode shift over the 10-year horizon.

The growth in transit trips between the Base Year (A) and 10-Year (C - A), is attributed to a split between growth in ridership from existing residents versus planned new development for the forward looking 10-year horizon. Estimated transit trips in the 10-year horizon are calculated by applying the forecasted mode split in the 10-year horizon (F) to the total trips in the base year (T).

- 217,049 Transit Trips (Sum of 2021, 2026, 2031 forecasted trips)
- 2,404,049 Total Trips (Sum of 2021, 2026, 2031 forecasted trips)
 - 9.03% Weighted Mode Split (F)

The justification of a step increase in the local transit mode share for existing residents is based on the anticipated faster uptake in transit use by new development compared to existing residents and employees. This is supported by the requirements in the Provincial Growth Plan promoting transit-supportive growth density targets and with transit-oriented street configurations for new development within the existing built boundary and urban growth area.

It is the position of the Region that benefit to existing for Transit be calculated based on the following formula:

BTE =
$$\frac{(T \times F) - A}{C - A} = \frac{(736,050 \times (9.03\%)) - 62,450}{84,700 - 62,450} = 18\%$$

As such, the deduction for benefit to existing development has been established at 18%.

6.5. Post Period Benefit Deduction

The Region provides services to meet Council direction reflected in the <u>YRT 2021-2025</u> <u>Business Plan</u>, <u>10-year capital program</u>, and the expansion of transit solutions as identified in the Transportation Master Plan. Transit service usage is monitored throughout the year and adjustments are made to the routes and frequency based on demand and revenue-tocost ratios for specific routes. Where routes are not sustainable, alternative transit solutions are implemented including Mobility On-Request. There is no uncommitted excess capacity in the transit network.

- Headways and vehicle types and sizes are scheduled to meet the service standards as set by Council and outlined in the <u>YRT Business Plan</u>
- Transit routes and services are monitored and adjusted periodically throughout the year to optimize the use of fleet and to provide cost-effective services.

6.6. Grants, Subsidies and Other Contributions

Any applicable grants, subsidies and other contributions have been deducted from the DC-eligible costs in accordance with the requirements of the Act. The grants are primarily from senior levels of government; however, the amounts vary by project and are not based on a set formula. For the projects included in the 2022 DC Background Study, the total amount of applicable grants and subsidies are about \$595 million.

6.7. Residential versus Non-Residential Allocation

The net growth-related costs have been allocated between residential and non-residential development on the same basis as the Roads calculation outlined in subsection 5.6, yielding a 74.00% residential and 26.00% non-residential split to 2031.

TABLE	6-2
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INCREMENTAL GROWTH FOR POPULATION AND EMPLOYMENT

	2022 to mid-2031	%
Gross population growth	222,074	74.00
Employment growth requiring new space	78,039	26.00
Total	300,113	100.00

2022 Development Charge Background Study Transit Service Growth related capital costs

							Potential Devel	opment Charge Red	coverable Costs		Residential and No	on-residential Split	
											N	on-Residential Share)
				Less Capital Grants, Subsidies and			Total Development	In-period	Post Period Benefit / Level of Service			Industrial/ Office/	
Project			Gross Project	Other	New Municipal	Less	Charge Eligible	Growth Costs	Deduction	Residential 74.00%	Retail 9.27%	Institutional 16.56%	Hotel 0.17%
Number Vehicles	Project Description	Timing	Cost	Contributions	Cost	Benefit to Existing	Cost	(2022-2031)	(Beyond 2031)	74.00 %	9.21 /6	10.50 %	0.17%
1	Support Vehicles	2022-2031	500,000		500,000	89,985	410,015	410,015	0	303,396	38,028	67,907	684
2	Mobility Plus Bus Expansion	2022-2031	5,940,000		5,940,000	1,069,022	4,870,978	4,870,978	0	3,604,343	451,771	806,735	8,129
3	Conventional Bus Expansion	2022-2031	99,740,000		99,740,000	17,950,216	81,789,784	81,789,784	0	60,521,415	7,585,796	13,546,079	136,494
4	Viva Bus Expansion	2022-2031	86,400,000		86,400,000	15,549,415	70,850,585	70,850,585	0	52,426,812	6,571,213	11,734,322	118,238
J Subtotal V		2022-2031	192.580.000	0	192.580.000		157,921,362	157.921.362	0	116.855.967	14,646,807	26.155.043	263,545
Subtotal V			192,000,000		132,300,000	34,030,030	137,321,302	137,321,302	•	110,033,307	14,040,007	20,133,043	203,343
Facilities													
5	Transit Vehicle Garage - North	2027-2031	23,000,000		23,000,000	4,139,312	18,860,688	18,860,688	0	13,956,212	1,749,281	3,123,720	31,475
6	Transit Garage Southeast	2027-2031	88,960,000		88,960,000	16,010,138	72,949,862	72,949,862	0	53,980,200	6,765,915	12,082,005	121,742
7	Transit Garage South	2027-2031	61,200,000		61,200,000	11,014,169	50,185,831	50,185,831	0	37,135,659	4,654,609	8,311,811	83,752
8	55 Orlando Garage Expansion	2022-2026	31,250,000		31,250,000	5,624,065	25,625,935	25,625,935	0	18,962,244	2,376,741	4,244,185	42,766
9	Bus Terminals, Loops & Stops - Expansion	2022-2031	8,039,000		8,039,000	1,446,779	6,592,221	6,592,221	0	4,877,999	611,412	1,091,808	11,001
10	Mackenzie-Vaughan Hospital Terminal	2022-2026	2,000,000		2,000,000	359,940	1,640,060	1,640,060	0	1,213,584	152,111	271,628	2,737
Subtotal Fa	acilities		214,449,000	0	214,449,000	38,594,404	175,854,596	175,854,596	0	130,125,897	16,310,069	29,125,157	293,473
Technolog	у												
11	Intelligent TRN System Expansion	2022-2031	8,060,000		8,060,000	1,450,559	6,609,441	6,609,441	0	4,890,742	613,009	1,094,660	11,030
12	Automated Fare Collection System Expansion	2022-2031	3,000,000		3,000,000	539,910	2,460,090	2,460,090	0	1,820,375	228,167	407,442	4,105
13	Electric Bus Infrastructure	2022-2031	27,540,000	0	27,540,000	18,797,945	8,742,055	2,779,266	5,962,789	2,056,554	257,770	460,304	4,638
14	Electric Bus Depot Charging Stations	2022-2031	9,600,000	0	9,600,000	3,081,481	6,518,519	6,518,519	0	4,823,463	604,576	1,079,601	10,878
Subtotal T	echnology		48,200,000	0	48,200,000	23,869,896	24,330,104	18,367,315	5,962,789	13,591,134	1,703,522	3,042,007	30,652
Bus Rapid	Transit												
15	Bus Rapid Transit Infrastructure	2022-2031	812,000,000	595,439,600	216,560,400	38,974,393	177,586,007	177,586,007	0	131,407,077	16,470,653	29,411,914	296,362
16	Environmental Assessment and Preliminary Design for Future Rapid Transit	2022-2031	29,903,533	0	29,903,533	5,381,741	24,521,792	24,521,792	0	18,145,219	2,274,334	4,061,316	40,923
Subtotal B	us Rapid Transit		841,903,533	595,439,600	246,463,933	44,356,134	202,107,799	202,107,799	0	149,552,296	18,744,987	33,473,230	337,285
	Total		1,297,132,533	595,439,600	701,692,933	141,479,071	560,213,862	554,251,073	5,962,789	410,125,295	51,405,386	91,795,437	924,956

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7 TORONTO-YORK SPADINA SUBWAY EXTENSION: CAPITAL FORECASTS AND DC-RECOVERABLE COSTS

7.1. Program Description

This service involves York Region's share of costs for the Toronto-York Spadina Subway Extension (TYSSE) including rights of way, system tracks, tunnel and single system, crossovers, subway stations and subway commuter facilities. The gross project cost is the updated estimate as of 2022 and is net of any expenditure to date (Table 7-1). As this project was included in York Region's 2017 Development Charges Study, the existing reserve fund balance for this service has been deducted from the development charge recoverable share in the cash flow calculations.

7.2. Level of Service Calculation

Pursuant to s.s.5.1 (2) of the Act, this service is not limited by a historical level of service calculation, and is subject to a planned level of service in accordance with the Regulation.

7.3. Benefit to Existing Development Deduction

The deduction for benefit-to-existing development for this service is consistent with the previous Development Charges Background Studies and Bylaws at 26%.

7.4. Post Period Benefit Deduction

Consistent with the previous Development Charges Background Studies and Bylaw, no deduction has been made for post period benefit as the costs are being recovered over the entire benefiting period.

7.5. Grants, Subsidies and Other Contributions

The capital costs have been reduced to exclude the portion attributable to grants and subsidies. The grant share for the remainder of the project is expected to be approximately \$1.7 million.

7.6. Residential versus Non-Residential Allocation

The net growth-related costs have been allocated between residential and non- residential development on the same basis as the Roads calculation outlined in subsection 5.6, yielding a 74.00% residential and 26.00% non-residential split to 2031.

2022 Development Charge Background Study Toronto-York Spadina Subway Growth related capital costs

							Potential Development Charge Recoverable Costs				Residential and Non-residential Split		
											Non-Residential Share		
				Less					Post Period Benefit/	Residential		Industrial/ Office/	
Project	Project Description		Gross Project Cost	Capital Grants, Subsidies and Other		Less	Total Development	In-period Growth Costs	Level of Service Deduction		Retail	Institutional	Hotel
Number	Project Description	Timing	(2022-2031)				Charge Eligible Cost	(2022-2031)	(Beyond 2031)	74.00%	9.27%	16.56%	0.17%
1	Toronto-York Spadina Subway Extension	2022	6,639,000	1,726,000	4,913,000	1,277,380	3,635,620	3,635,620	0	2,690,224	337,195	602,134	6,067
	Total			1,726,000	4,913,000	1,277,380	3,635,620	3,635,620	0	2,690,224	337,195	602,134	6,067

8 YONGE NORTH SUBWAY EXTENSION: CAPITAL FORECASTS AND DC-RECOVERABLE COSTS

8.1. Program Description

The Yonge North Subway Extension (YNSE) is an approximately eight-kilometre extension of TTC Line 1 (Yonge - University) to Richmond Hill, including stations, train storage, transit connections and commuter parking facilities. This service involves York Region's planned share of costs for the YNSE, including, but not limited to: land, stations, platforms, enclosures, subway infrastructure, vehicles, rights of way, system tracks, tunnel and single system, crossovers, and subway commuter facilities.

The YNSE total project cost is estimated at \$5.6 billion. In May 2020, York Region entered into a Preliminary Agreement with the Province of Ontario to fund and build the YNSE. The Preliminary Agreement ensures that the Province of Ontario, York Region and the City of Toronto are fully committed to working together in partnership. As per the Ontario-York Region Transit Partnership Preliminary Agreement (May 2020), the Region is expected to contribute its pro-rata share to the subway's construction. In May of 2021, the federal government announced up to \$2.24 billion for the project. Based on the current estimated project budget of \$5.6 billion, the Region's pro rata share of the YNSE is estimated at \$1.12 billion, which is equivalent to 75% of the total municipal contribution. This share is expressed as the principal cost of the subway line in this background study.

8.2. Level of Service Calculation

Pursuant to s.s.5.1 (2) of the Act, this service is not limited by a historical level of service calculation and is subject to a planned level of service in accordance with the Regulation.

The planned level of service is considered to be the Council-approved capital plan, Province of Ontario-Regional Municipality of York Transit Partnership (Yonge North Subway Extension) Preliminary Agreement, or Ontario-York Region Transit Partnership, in respect of the Yonge North Subway Extension.

The Act allows the treatment of the YNSE as a discrete service with a 20-year planning horizon.

8.3. Ridership Forecasts

As required under the Act, the Region must identify the subway costs that were to be considered to benefit the existing development as of the date of the completion of the background study (BTE).

For calculating the BTE share, the following assumptions have been made:

Estimated ridership, measured by trips, is obtained from the Regional Transportation Demand Forecast model. This provides a basis for estimating the total number of trips during the AM peak period for local transit, GO Rail and auto trips:

- All trips originating from York Region to all destinations
- All trips with destinations to York Region from all origins
- A YNSE trip is defined as any trip that has an origin within York Region that shares a portion of its trip using the YNSE

The following horizons were evaluated related to the Base Year - the Travel Demand Forecasting Horizon that closely represents the DC Bylaw horizon:

- Total Trips Total Auto and Local Transit Trips in the AM Peak Period at the end of the Base Year. Where required, a base year may be estimated based on two horizons within the Travel Demand Forecasting Model (T)
- YNSE Trips All trips with destinations to the Yonge North Subway Extension trips in the AM Peak Period at the end of the Base Year (A)
- Interim YNSE trips trips in the AM Peak Period at the Base Year and incremental years through to the 20-year horizon within the Travel Demand Forecasting Model (B)
- 20-Year YNSE trips trips in the AM Peak Period at the end of 20-year planning horizon (C)
- For the case of the 2022 DC Bylaw, it is assumed that the Yonge North Subway Extension is in service within the 10-year horizon

The model extractions are summarized in the following table.

TABLE 8-1 YNSE MODEL EXTRACTIONS

							Excl. GO Rail
Horizon	YNSE	Local Transit	Non- motorized	HOV Passenger	Auto Trips	Total	YNSE Mode Share
2021	17,289 (A)	28,757	59,200	84,800	375,733	565,779 (T)	3.06%
2026	20,833 (B)	31,458	62,900	96,700	404,967	616,858	3.38%
2031	27,875 (C)	36,825	66,600	108,600	434,200	674,100	4.14%
2041	29,545 (D)	41,955	95,600	137,500	512,500	817,100	3.62%
Total	95,542	138,995	284,300	427,600	1,727,400	2,673,837	3.57% (F)

8.4. Benefit to Existing Development Deduction

The YNSE Modal Split for existing development (F) is applied to total trips (T) in the Base Year to determine forecasted transit trips in the 10 Year by existing development (BTE).

The YNSE Mode Split for the existing development is estimated based on an average of base, interim horizon(s), and DC horizon YNSE trips (F). The justification of a weighted average is to reflect the gradual and incremental change in mode shift over the 20-year horizon.

The growth in YNSE trips between the Base Year (A) and 20-Year (D - A), is attributed to a split between growth in ridership from existing residents versus planned new development for the forward looking 20-year horizon. Estimated transit trips in the 20-year horizon are estimated by applying the forecasted mode split in the 20-year horizon (F) to the total trips in the base year (T).

95,542 YNSE Trips (Sum of 2021, 2026, 2031, 2041 forecasted trips)
2,673,837 Total Trips (Sum of 2021, 2026, 2031, 2041 forecasted trips)
3.57% Weighted Mode Split (F)

The justification of a step increase in the YNSE transit mode share for existing residents is based on the anticipated faster uptake in transit use by new development compared to existing residents and employees. This is supported by the requirements in the Provincial Growth Plan promoting transit-supportive growth density targets and with transit-oriented street configurations for new development within the existing built boundary and urban growth area.

Using this approach, the benefit to existing deduction is calculated as follows:

BTE =
$$\frac{(T \times F) - A}{D - A} = \frac{(565,779 \times (3.57\%)) - 17,289}{29,545 - 17,289} = 23.74\%$$

In addition to the aforementioned methodology, York Region evaluated two additional methodologies to estimate the benefiting population for YNSE. One of these includes the use of the Regional Travel Demand Forecasting Model, but with different formulations as noted above. The second approach includes an assessment of population growth. The result of the various models ranged from 8% to 27% BTE, however, clustered between 24 and 27%. As such, the deduction for the YNSE benefit to existing development has been rounded to 25% (Table 8-2), or \$280 million.

8.5. Post Period Benefit Deduction

No deduction has been made for post period or uncommitted excess capacity as the costs are being recovered over the entire benefiting period of this infrastructure. The infrastructure constructed for YNSE within the planning horizon is considered the minimum investment required to implement the subway extension to support growth within the 2041 planning horizon. Additional

capacity to the system would require significant additional investment including investment in rolling stock, improvements to the existing subway infrastructure south of Finch Station not included in the extension project, additional storage and maintenance facilities, and completion of future subway corridors in Toronto which are not included in this Background Study.

Although the tunnels and stations are built for a longer horizon, the additional capacity can only be unlocked with significant additional investment on the elements identified above. For this reason, the Metrolinx Initial Business Case (IBC) to support the construction of the Yonge North Subway Extension also used a horizon of 2041.

8.6. Grants, Subsidies and Other Contributions

There are no grants or subsidies for the Regional share of the YNSE subway costs. The overall capital costs have been reduced to exclude the portion attributable to senior levels of government grants and subsidies.

8.7. Residential versus Non-residential Allocation

The net growth-related costs have been allocated between residential and non-residential development on the same basis as the Roads calculation outlined in subsection 5.6, yielding a 74.88% residential and 25.12% non-residential split.

							Potential Deve	lopment Charge Reco	verable Costs	Residential and Non-residential Split					
											N	on-Residential Share			
				Less					Post Period Benefit /			Industrial/ Office/			
Destant	Businet Baserietian		Owner Davis of Ories	Capital Grants,				In-period	Level of Service	Residential	Retail	Institutional	Hotel		
Project Number	Project Description	Timing	Gross Project Cost (2022-2031)			Less Bonofit to Existing	Total Development Charge Eligible Cost	Growth Costs (2022-2041)	Deduction (Beyond 2041)	74.88%	8.94%	16.01%	0.17%		
				Contributions					(Beyonu 2041)						
1	Yonge North Subway Extension 2	2022-2041	1,120,000,000	0	1,120,000,000	280,000,000	840,000,000	840,000,000	0	628,965,979	75,123,625	134,517,030	1,393,365		
	Total		1,120,000,000	0	1,120,000,000	280,000,000	840,000,000	840,000,000	0	628,965,979	75,123,625	134,517,030	1,393,365		

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9. GENERAL SERVICES: CAPITAL FORECASTS AND DC-RECOVERABLE COSTS

This Chapter of the Background Study is organized into the following nine sections by service and planning horizon:

20-Year Planning Horizon:

- 9.1 Police Services
- 9.2 Waste Diversion
- 9.3 Public Works
- 9.4 Housing Services
- 9.5 Growth Studies
- 9.6 Court Services

10-Year Planning Horizon:

- 9.7 Ambulance Services
- 9.8 Public Health
- 9.9 Long-Term Care/Seniors Services

9.1 Police Services

9.1.1 Program Description

The 20-year Police Services capital program (Table 9-6) consists of:

Facilities	Largely a #1 district multi-function building, new district substation, consolidation of leased premises
Land	Land acquisition
Vehicles	Increase of inventory by adding new vehicles, marine boats and police helicopter
Equipment	Mostly specialized equipment, portable and mobile gear, radio systems, business intelligence and digital evidence management

9.1.2 Level of Service

The 10-year historical level of service is comprised of the following:

- Existing owned and leased facilities including district stations and substations, and the Central Services Building. This space has been valued based on 2022 replacement cost per square foot, including an allowance for land purchase and site servicing (Tables 9-2)
- Land for owned and leased districts and headquarters, including training facility, safety village and specialized locations (Tables 9-3)
- Vehicles including patrol cars, vans, specialty vehicles, boats and helicopters (Table 9-4)
- Equipment such as communication and radio infrastructure, data network equipment, computer-aided dispatch and specialized equipment (Table 9-5)

The total funding envelope of \$169,293,256 is determined by applying the historic per capita service level to projected growth over the planning horizon and accounting for opening reserve balance levels and existing debt. Finally, \$107,688,566 is the eligible amount available to new projects after accounting for existing outstanding development charge debt costs for this service.

9.1.3 Benefit to Existing Development Deduction

Benefit to existing deduction applied to facilities, land, vehicles and equipment is summarized as follows:

- Land Land acquisition is primarily done to service new population with more facilities and equipment. There is a 10% benefit to existing deduction to recognize non-growth related service.
- Facilities Training facilities, sub-station outlook and district headquarters and expansions involve the establishment of use-specific facilities for functions that are currently being undertaken in York Region.

A deduction of 10%, where applicable, has been made to recognize any potential benefit to existing development as a result of improved service.

Expansion or replacement of existing buildings will provide some service to existing population.

Vehicles Vehicle costs are incurred through rehabilitation and replacement costs with a growth component included through the addition of new vehicles. The benefit to existing deduction is based on the portion that services the existing total population and employment in 2021 as a share of total population and employment in 2041 (1,877,600 ÷ 2,565,200).

Therefore, the benefit to existing deduction is calculated as the nongrowth component of 73%.

Equipment Specialized equipment added for additional staff to support growth has no benefit to existing deduction applied to it. All other equipment includes some supplies to support existing police staff that will provide an improved service to existing population.

Following the same methodology as for vehicles, a deduction of 73% is made to recognize any potential benefit to existing population as a result of the added and improved equipment.

9.1.4 Post Period Benefit Deduction

The development charges program consists of 20 years of requirements. No deduction for post period benefit has been made.

9.1.5 Grants, Subsidies and Other Contributions

No grants, subsidies or other contributions have been identified for this service and as such, no adjustments have been made.

9.1.6 Residential versus Non-Residential Allocation

The allocations are based on the incremental gross population growth and employment requiring new space between 2022 and 2041, as outlined in Table 9-1 below:

TABLE 9-1

RESIDENTIAL AND NON-RESIDENTIAL ALLOCATION

	2022 to mid-2041	%
Gross population growth	476,277	74.88
Retail employment growth*	34,259	5.39
IOI employment growth*	124,766	19.62
Hotel employment growth*	777	0.12
Total population and employment*	636,079	100.00

*Note: Employment requiring new space Numbers may not add due to rounding

2022 DC Background Study Police Services - Land Acres Historic Level of Service

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Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Acre)
Owned Sites											
Central Services Building (47 Don Hillock Dr. and 55 Don Hillock Dr.)	9.35	9.35	9.35	9.35	9.35	9.35	9.35	9.35	9.35	9.35	1,540,000
District #1 (240 Prospect St. Newmarket)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2,420,000
District #1 (429 Harry Walker Parkway South. Newmarket)				3.00	3.00	3.00	3.00	3.00	3.00	3.00	1,980,000
District #1 ED Share	(1.36)	(1.36)	(1.36)	(1.36)	(1.36)	(1.36)	(1.36)	(1.36)	(1.36)	(1.36)	4,400,000
District #2 (171 Major Mackenzie Drive W.Richmond Hill)	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	1,518,000
District #3 (3527 Baseline Rd. Sutton)	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	55,000
District #4 (2700 Rutherford Rd. Vaughan)	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	2,530,000
District#5 (8700 McCowan Rd. Markham)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	5,500,000
Eqypt Tower Site (Township of Georgina)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	22,000
Training Facility							8.00	8.00	8.00	8.00	660,000
Marine Headquarters									0.90	0.90	1,650,000
Other - Provided Space											
Headquarters (17250 Yonge Street)	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	3,300,000
90 Bales Drive (E. Gwillimbury)	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	660,000
Court Services (50 Eagle Street, Newmarket)	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	2,640,000
Vaughan Mills Substation (Vaughan)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	3,300,000
Leased Sites											
Yonge and Mulock Centre (Newmarket)	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	3,300,000
Air Support -Hangar #17A and office- (Toronto Buttonville Municipal Airport, Markham, ON)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	2,618,000
Community Resource Centre (Hillcrest Mall, 9350 Yonge St. Richmond Hill, ON)	0.24	0.24	0.24								3,300,000
Community Resource Centre(10720 Yonge Street, #112, Richmond Hill)				0.39	0.39	0.39	0.39	0.39	0.39	0.39	3,300,000
Hope Tower Site (North Maple Reservoir, Vaughan)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	880,000
Safety Village (Stouffville)	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	27,500
King Tower (King)	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	110,000

Table 9-2

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Acre)
Stouffville Substation	0.07	0.07	0.07	0.30	0.30	0.30	0.30	0.30	0.30	0.30	1,650,000
King/Schomberg Substation	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	2,200,000
Seized Property Warehouse (Confidential Location)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1,980,000
Peer Support Building (East Gwillimbury)					22.00	22.00	22.00	22.00	22.00		220,000
Peer Support Building (Aurora)										0.65	1,650,000
Total	33.04	33.04	33.04	36.43	58.43	58.43	66.43	66.43	67.33	45.98	1,275

Population and Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	0.0204	0.0199	0.0196	0.0213	0.0334	0.0328	0.0365	0.0359	0.0372	0.0245

10 Year Average	2012-2021
Quantity Standard (acre. per 1,000 capita)	0.0282
Quality Standard (\$ per acre)	\$1,275
Service Standard (\$/1,000 capita)	\$0.04

DC Amount (before adjustments)	20-Year
Gross population and employment requiring new space growth	636,079
\$ per 1,000 Capita	\$0.04
DC Amount (before adjustments)	\$22,825,614

2022 Development Charge Background Police Services - Facilities Square Footage Historic Level of Service

F

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Sqft)
Owned Sites											
Central Services Building (47 Don Hillock Dr., Aurora)	237,391	237,391	244,255	244,255	244,255	244,255	244,255	244,255	244,255	244,255	467
Central Services Building (47 Don Hillock Dr., Aurora) Existing Debt Share	(38,093)	(38,093)	(38,093)	(38,093)	(38,093)	(38,093)	(38,093)	(38,093)	(38,093)	(38,093)	467
Police Central Services Building - Parking Garage (55 Don Hillock Drive)			168,240	168,240	168,240	168,240	168,240	168,240	168,240	168,240	445
District #1 (240 Prospect St. Newmarket)	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	445
District #1 Existing Debt Share	(20,347)	(20,347)	(20,347)	(20,347)	(20,347)	(20,347)	(20,347)	(20,347)	(20,347)	(20,347)	445
District #2 (171 Major Mackenzie Drive W.Richmond Hill)	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	445
District #3 (3527 Baseline Rd. Sutton)	25,500	25,500	25,500	25,500	26,500	26,500	26,500	26,500	26,500	26,500	445
District #3 (3527 Baseline Rd. Sutton) Existing Debt Share	(13,758)	(13,758)	(13,758)	(13,758)	(13,758)	(13,758)	(13,758)	(13,758)	(13,758)	(13,758)	445
District #4 (2700 Rutherford Rd. Vaughan)	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	45,000	445
District #4 (2700 Rutherford Rd. Vaughan) Existing Debt Share	(356)	(356)	(356)	(356)	(356)	(356)	(356)	(356)	(356)	(356)	445
District#5 (8700 McCowan Rd. Markham)	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	445
Safety Village (Stouffville)	10,000	10,000	10,000	10,000	17,533	17,533	17,533	17,533	17,533	17,533	445
Safety Village (Stouffville) Existing Debt Share	(1,874)	(1,874)	(1,874)	(1,874)	(1,874)	(1,874)	(1,874)	(1,874)	(1,874)	(1,874)	445
Training Facility							83,000	83,000	83,000	83,000	615
Training Facility Existing Debt Share							(30,482)	(30,482)	(30,482)	(30,482)	615
Marine Headquarters									8,900	8,900	795
Other - Provided Space											
Headquarters (17250 Yonge Street)1	49,895	49,895	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	339
90 Bales Drive (E. Gwillimbury)	13,598	13,598	13,598	13,598	13,598	13,598	13,598	13,598	13,598	13,598	615
Court Services (50 Eagle Street, Newmarket)	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	339
Vaughan Mills Substation (Vaughan)	949	949	949	949	949	949	949	949	949	949	339
Leased Sites											
Yonge and Mulock Centre (Newmarket)	17,672	17,672	17,672	17,672	20,319	20,319	20,319	20,319	20,319	20,319	339
Air Support -Hangar #19 and office- (Toronto Buttonville Municipal Airport, Markham, ON)	2,094	2,094	2,094	2,094	2,414	2,414	2,414	2,414	2,414	2,414	445

Table 9-3

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Sqft)
Air Support -Hangar #19 and office- (Toronto Buttonville Municipal Airport, Markham, ON) Existing Debt Share	(1,103)	(1,103)	(1,103)	(1,103)	(1,103)	(1,103)	(1,103)	(1,103)	(1,103)	(1,103)	445
Community Resource Centre (Hillcrest Mall, 9350 Yonge St. Richmond Hill, ON)	8,224	8,224	8,224								339
Community Resource Centre(10720 Yonge Street, #112, Richmond Hill)				7,603	7,603	7,603	7,603	7,603	7,603	7,603	339
Stouffville Substation	1,000	1,000	1,000	4,500	4,500	4,500	4,500	4,500	4,500	4,500	445
King/Shomberg Substation	1,000	1,000	1,000	1,000	1,000	1,000	3,000	3,000	3,000	3,000	445
East Gwillimbury/Mount Albert Substation	1,000	1,000	1,000	1,000	1,000	1,000					445
Seized Property Warehouse (Confidential Location)	9,700	9,700	9,700	9,700	9,700	9,700	9,700	9,700	9,700	9,700	445
Peer Support Building (East Gwillimbury)					3,000	3,000	3,000	3,000	3,000	0	615
Peer Support Building (Aurora)										6,946	445
Total	461,993	461,993	592,202	595,081	609,581	609,581	663,099	663,099	671,999	675,945	\$455.36

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per Capita Standard	0.2857	0.2782	0.3516	0.3473	0.3488	0.3420	0.3646	0.3580	0.3714	0.3600

10 Year Average	2012-2021
Quantity Standard (Sqft per Capita)	0.3408
Quality Standard (\$ per Sqft)	\$455
Service Standard (\$ per Capita)	\$155.17

DC Amount (before adjustments)	20-Year
Gross population and employment requiring new space growth	636,079
\$ per Capita	\$155.17
DC Amount (before adjustments)	\$98,697,965

2022 DC Background Study Police Services - Vehicles Number of Vehicles Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Vehicle)
Marked 24/7 Equivalent to = or > 7 years	170	173	173	181	177	195	219	211	226	242	47,896
Marked 24/7 Equivalent to = or > 7 years Existing Debt Share	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	47,896
Unmarked & Vans - All < 7 years	202	203	206	215	219	198	200	209	213	203	25,945
Specialty Vehicles:											
Operation Specialty	22	24	28	22	41	38	35	23	17	15	45,942
Operational Support	69	78	75	72	81	78	78	59	52	49	39,468
Command Post	1	1	1	1	1	1	2	2	2	2	398,836
Boats	8	8	8	8	8	7	7	6	6	7	257,913
Tractor	1	1	1	2	2	3	3	3	3	3	28,617
Motorcycle	14	12	14	13	18	18	18	17	17	17	29,347
Helicopter	1	1	1	1	1	1	1	1	1	1	6,250,000
Tactical Support Vehicle	1	1	1	1	1	1	1	1	1	2	376,144
Vehicle Equipment ¹	468	481	487	495	528	538	562	530	536	539	11,214
Vehicle Equipment ¹ Existing Debt Share	(14)	(14)	(14)	(14)	(14)	(14)	(14)	(14)	(14)	(14)	11,214
Total	453	466	472	480	513	504	528	496	502	505	\$66,983

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	0.2802	0.2807	0.2804	0.2802	0.2937	0.2829	0.2904	0.2679	0.2775	0.2691

10 Year Average	2012-2021
Quantity Standard (Veh. Per 1,000 Capita)	0.2803
Quality Standard (\$ per vehicle)	\$66,983
Service Standard (\$/Capita)	\$18.77

DC Amount (before adjustments)	20-Year
Gross population and employment requiring new space growth	636,079
\$ per Capita	\$18.77
DC Amount (before adjustments)	\$11,942,139

Notes:

1. Vehicle Equipment includes specialized equipment to outfit all police vehicles for

use. Value included in calculation of quality standard.

2022 DC Background Study Police Services - Equipment Dollar Value of Equipment Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Voice Communication User Gear	\$ 4,235,271	\$ 4,235,271	\$ 4,235,271	\$ 6,260,271	\$ 3,324,275	\$ 3,324,275	\$ 3,324,275	\$ 2,483,677	\$ 2,483,677	\$ 2,483,677
Voice Communication Infrastructure & Equipment	\$ 11,653,500	\$ 11,653,500	\$ 21,103,889	\$ 23,300,889	\$ 23,642,080	\$ 23,961,029	\$ 23,961,029	\$ 24,285,474	\$ 24,561,461	\$ 24,946,883
Backup Radio Infrastructure & Operations Centre	\$ 379,716	\$ 379,716	\$ 379,716	\$ 379,716	\$ 116,093	\$ 151,200	\$ 151,200	\$ 151,200	\$ 151,200	\$ 151,200
Data Network Equipment	\$ 13,063,783	\$ 14,148,760	\$ 16,174,310	\$ 16,174,310	\$ 19,416,827	\$ 16,435,224	\$ 18,798,305	\$ 18,979,090	\$ 22,542,784	\$ 20,797,607
External Assets - Fire Services	\$ 1,046,298	\$ 1,046,298	\$ 1,046,298	\$ 1,046,298	\$-	\$-	\$-	\$-	\$-	\$-
Use of Force Equipment	\$ 3,299,547	\$ 3,647,727	\$ 4,101,788	\$ 4,101,788	\$ 2,540,987	\$ 2,733,481	\$ 2,913,564	\$ 3,542,578	\$ 4,428,977	\$ 4,656,835
Generators	\$ 194,374	\$ 196,867	\$ 196,867	\$ 196,867	\$ 169,788	\$ 169,788	\$ 169,788	\$ 169,788	\$ 155,898	\$ 155,898
Computer Aided Dispatch/Records Mgmt System	\$ 3,762,000	\$ 3,762,000	\$ 3,762,000	\$ 3,762,000	\$ 3,762,000	\$ 3,762,000	\$ 3,762,000	\$ 3,762,000	\$ 3,762,000	\$ 3,762,000
Telephone Infrastructure & Equipment	\$ 530,527	\$ 530,527	\$ 530,527	\$ 530,527	\$ 530,527	\$ 530,527	\$ 778,954	\$ 778,954	\$ 778,954	\$ 778,954
Specialized Equipment	\$ 12,381,448	\$ 13,167,330	\$ 14,396,772	\$ 14,396,772	\$ 19,206,931	\$ 15,416,271	\$ 15,686,563	\$ 16,600,610	\$ 17,912,349	\$ 16,445,838
Specialized Equipment Existing Debt Share	-\$ 1,239,755	-\$ 1,239,755	-\$ 1,239,755	-\$ 1,239,755	-\$ 1,239,755	-\$ 1,239,755	-\$ 1,239,755	-\$ 1,239,755	-\$ 1,239,755	-\$ 1,239,755
Employee Scheduling System			\$ 356,654	\$ 356,654	\$ 356,654	\$ 356,654	\$ 356,654	\$ 447,814	\$ 447,814	\$ 447,814
Total	\$ 49,306,709	\$ 51,528,242	\$ 65,044,338	\$ 69,266,338	\$ 71,826,407	\$ 65,600,694	\$ 68,662,576	\$ 69,961,430	\$ 75,985,359	\$ 73,386,952

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per Capita Standard	30.49	31.03	38.62	40.42	41.10	36.80	37.75	37.77	41.99	39.09

10 Year Average	2012-2021
Quantity Standard	37.51
Quality Standard	1.00
Service Standard (\$perCapita)	\$37.51

DC Amount (before adjustments)	20-Year
Gross population and employment requiring new space growth	636,079
\$ per Capita	\$37.51
DC Amount (before adjustments)	\$23,857,422

2022 Development Charge Background Study Police Services Growth related capital costs

10-Year Historic Level of Service Cap									
Land	22,825,614								
Facilities	98,697,965								
Vehicles	11,942,139								
Equipment	23,857,422								
Opening reserve adjustment	11,970,116								
Funding Envelope	169,293,256								
Less Existing debt principal	61,604,690								
Total eligible amount for new projects	107,688,566								

							Potential Development Charge Recoverable Costs			Residential and Non-residential Split					
											No	on-Residential Share			
Project Number	Project Description	Timing	Gross Project Cost (2022-2041)	Less Capital Grants, Subsidies and Other Contributions	New Municipal Cost	Less Benefit to Existing	Total Development Charge Eligible Cost	In-period Growth Costs (2022-2041)	Post Period Benefit / Level of Service Deduction (Beyond 2041)	Residential	Retail	Industrial/ Office/ Institutional 19.62%	Hotel		
acilities			(((
1	District/Major Renovations	2032-2041	53,500,000	0	53,500,000	5,350,000	48,150,000	31,667,507	16,482,493	23,711,648	1,705,485	6,211,750	38		
2	Consolidated Leased Premises	2022-2026	10,000,000		10,000,000	1,000,000	9,000,000	5,919,160	3,080,840	4,432,084	318,782	1,161,075	7		
3	#1 District Multi-Function	2022-2026	3,600,000	0	3,600,000	360,000	3,240,000	2,130,898	1,109,102	1,595,550	114,762	417,987	2		
4	240 Prospect Renovation	2022-2026	2,050,000	0	2,050,000	205,000	1,845,000	1,213,428	631,572	908,577	65,350	238,020	1		
5	PS Leasehold Improvements	2022-2041	3,056,000	0	3,056,000	305,600	2,750,400	1,808,895	941,505	1,354,445	97,420	354,824	2		
6	Renovations/Major Equipment to Existing Facilities	2022-2041	24,960,000	0	24,960,000	19,968,000	4,992,000	3,283,161	1,708,839	2,458,329	176,818	644,010	4		
	Subtotal Facilities		97,166,000	0	97,166,000	27,188,600	69,977,400	46,023,049	23,954,351	34,460,633	2,478,617	9,027,666	56		
ehicles															
5	Vehicles	2022-2041	108,496,000	0	108,496,000	79,202,080	29,293,920	19,266,156	10,027,764	14,425,901	1,037,598	3,779,159	23		
6	Air Operations	2022-2041	14,008,000	0	14,008,000	10,225,840	3,782,160	2,487,468	1,294,692	1,862,539	133,965	487,930	:		
7	Marine Boats	2027-2041	3,334,000	0	3,334,000	2,433,820	900,180	592,034	308,146	443,297	31,885	116,131			
8	Air Operations- Helicopter Replacement	2022-2026	7,050,000	0	7,050,000	5,146,500	1,903,500	1,251,902	651,598	937,386	67,422	245,567	1		
	Subtotal Vehicles		132,888,000	0	132,888,000	97,008,240	35,879,760	23,597,561	12,282,199	17,669,123	1,270,870	4,628,787	28		
quipment															
	Business Intelligence	2022-2041	3,480,000	0	3,480,000	2,547,907	932,093	613,023	319,070	459,013	33,015	120,248			
10	Computer Aided Dispatch - Records Mgmt System	2022-2026	3,700,000	0	3,700,000	2,701,000	999,000	657,027	341,973	491,961	35,385	128,879			
11	Connected Officer	2022-2041	20,034,000	0	20,034,000	14,624,820	5,409,180	3,557,534	1,851,646	2,663,771	191,594	697,829	4		
12	Data Governance and Retention Management	2022-2041	2,000,000	0	2,000,000	1,460,000	540,000	355,150	184,850	265,925	19,127	69,664			
13	Digital Evidence Management & In-Car Cam	2022-2041	21,695,000	0	21,695,000	15,837,350	5,857,650	3,852,485	2,005,165	2,884,622	207,479	755,686			
14	Disaster Recovery Plan	2022-2041	1,232,000		1,232,000	899,360	332,640	218,772	113,868	163,810	11,782	42,913			
15	Employee Scheduling	2022-2041	560,000	0	560,000	408,800	151,200	99,442	51,758	74,459	5,356	19,506			
16	Portable and Mobile User Gear	2022-2041	8,208,000	0	8,208,000	5,991,840	2,216,160	1,457,534	758,626	1,091,356	78,497	285,903			
17	Radio System	2022-2031	27,880,000	0	27,880,000	20,352,400	7,527,600	4,950,786	2,576,814	3,706,995	266,629	971,123			
18	Specialized Equipment - Closed-Circuit / Witness Rooms	2022-2041	1,672,000	0	1,672,000	1,220,560	451,440	296,905	154,535	222,313	15,990	58,240			
19	Specialized Equipment - Forensic Equipment	2022-2041	6,355,000	0	6,355,000	4,639,150	1,715,850	1,128,488	587,362	844,977	60,776	221,359			
20	Specialized Equipment - Growth Staff	2022-2041	26,536,000	0	26,536,000	0	26,536,000	17,452,315	9,083,685	13,067,753	939,912	3,423,365	2		
21	Specialized Equipment - Road Safety	2022-2041	1,888,000	0	1,888,000	1,378,240	509,760	335,261	174,499	251,033	18,056	65,763			
22	Specialized Equipment - Robotics / Support Services	2022-2041	1,676,000	0	1,676,000	1,223,480	452,520	297,615	154,905	222,845	16,028	58,379			

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						Potential Develo	opment Charge Red	overable Costs		Residential and No	n-residential Split	
					-					No	on-Residential Share	
		Gross Project	Less Capital Grants, Subsidies and		Less	Total Development	In-period	Post Period Benefit / Level of Service	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Project Description Number	Timing	Cost (2022-2041)	Other Contributions	New Municipal Cost	Benefit to Existing	Charge Eligible Cost	Growth Costs (2022-2041)	Deduction (Beyond 2041)	74.88%	5.39%	19.62%	0.12%
23 Specialized Equipment - Technical Investigations	2022-2041	4,400,000	0	4,400,000	3,212,000	1,188,000	781,329	406,671	585,035	42,079	153,262	953
24 Specialized Equipment - Telephone	2027-2041	1,400,000	0	1,400,000	1,022,000	378,000	248,605	129,395	186,148	13,389	48,765	303
25 Talent Management	2022-2041	6,000,000	0	6,000,000	4,380,000	1,620,000	1,065,449	554,551	797,775	57,381	208,993	1,299
26 YRP Net Rewrite	2022-2041	610,000	0	610,000	445,300	164,700	108,321	56,379	81,107	5,834	21,248	132
Subtotal Equipment		139,326,000	0	139,326,000	82,344,207	56,981,793	37,476,040	19,505,753	28,060,898	2,018,309	7,351,125	45,708
Land												
27 Land Bank Acquisition	2032-2036	1,000,000	0	1,000,000	100,000	900,000	591,916	308,084	443,208	31,878	116,107	722
Subtotal Land		1,000,000	0	1,000,000	100,000	900,000	591,916	308,084	443,208	31,878	116,107	722
Total		370,380,000	0	370,380,000	206,641,047	163,738,953	107,688,566	56,050,387	80,633,862	5,799,674	21,123,686	131,343

9.2 Waste Diversion

9.2.1 Overview

Approved by Council in April 2020, an update to York Region's Waste Management Master Plan SM4RT Living Plan continues to move the Region to a more sustainable circular economy that emphasizes waste reduction, repair, reuse and resource recovery to ensure materials are kept in circulation, maximizing economic value and environmental protection.

Diversion from landfill is a key performance measure under the sustainable environment priority in the 2019 to 2023 Strategic Plan.

The Region provides waste diversion services through a number of projects, including Source Separated Organics Facility project and Expanded Diversion Capacity project that includes growth studies to identify additional infrastructure requirements resulting from the Waste Management Master Plan.

Source Separated Organics Facility project covers research into processing technologies applicable to York Region's waste stream, which in the long term will inform the construction of a Region-owned facility. The food waste diversion program represents at least half of the total diversion tonnage.

9.2.2 Program Description

The 20-year Waste Diversion capital program, as noted in Table 9-10, consists of:

Facilities	Building structures to expand diversion capacity and add a source-separated organic facility
Growth Studies	A study to explore new waste management needs as part of the Waste Diversion Master Plan review

9.2.3 Level of Service

The 10-year historical level of service is comprised of the following:

- Region-owned and leased land including depots, transfer stations, and environmental centres' locations, and contracted land including Source-Separated Organics and Yard Waste locations (Table 9-7)
- Existing owned and leased facilities, including recycling facilities, scale buildings, community environmental centres, and household hazardous waste depots (Table 9-8)
- Region-owned and leased equipment such as hydraulic power washers, scales, baler and feeder systems, platforms, compactors, and various sorting equipment; and contracted equipment within the Source-Separated Organics and yard waste facilities (Table 9-9)

Portions of the service related to landfill sites and servicing have been removed from the calculation.

The total funding envelope of \$70,914,679 is determined by applying the historic per capita service level to projected growth over the planning horizon and accounting for opening reserve balance levels and existing debt. Finally, \$70,914,679 is the eligible amount available to new projects after accounting for existing outstanding development charge debt costs for this service.

9.2.4 Benefit to Existing Development Deduction

Expanding Diversion Capacity project has a 33% benefit-to-existing deduction based on the share of population and employment growth. The Source-Separated Organics facility has a 72% deduction, based on the share of population growth during the planning horizon, considering that the facility will service only the residents of York Region.

9.2.5 Post Period Benefit Deduction

The Waste Diversion program is related to development occurring over the 2022-2041 planning period. For the Diversion Capacity Expansion project, where a benefit will be provided to development occurring beyond 2041, a reduction of 37% has been applied. These costs will be considered for recovery under future development charges.

9.2.6 Grants, Subsidies and Other Contributions

No grants, subsidies or other contributions have been identified for this service and as such, no adjustments have been made.

9.2.7 Residential versus Non-residential Allocation

For this background study, all waste diversion projects have been identified as 100% residential. This is because these projects are expected to divert residential waste.

2022 Development Charge Background Waste Diversion - Land Acres Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Acre)
Region Owned Land											
HHW Depot East Gwillimbury	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1,210,000
HHW & Georgina Transfer Stn	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	132,000
HHW Depot Vaughan	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	2,530,000
Waste Management Ctr East Gwillimbury @ 83% diversion (based on facility usage)	23.42	23.42	23.42	23.42	23.42	23.42	23.42	23.42	23.42	23.42	1,210,000
CEC McCleary Court @ 20% diversion	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	3,300,000
Region Contracted											
Household Hazardous Waste Depot - Markham Rental	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	2,200,000
Community Environmental Centre - Elgin Mills @ 11.5%	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	3,300,000
Leased Land											
Organics - SSO Facility 1 and 2 weighted average plus Yard Waste	106.52	106.52	106.52	106.52	106.52	106.52	106.52	106.52	106.52	106.52	464,170
Total	148	148	148	148	148	148	148	148	148	148	700,976

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	0.0913	0.0890	0.0877	0.0862	0.0845	0.0829	0.0812	0.0798	0.0816	0.0787

10 Year Average	2012-2021
Quantity Standard (Sqft per 1,000 Capita)	0.0843
Quality Standard (\$ per Acre)	\$700,976
Service Standard (\$ per Capita)	\$59.09

DC Amount (before adjustments)	20 Year
Gross population increase	476,277
\$ per Capita	\$59.09
DC Amount (before adjustments)	\$28,141,624

2022 Development Charge Background Study Waste Diversion - Facilities Square Footage Historic Level of Service

Community Environmental Centre - McCleary Ct, Vaughan Building at 20% 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,30	Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Sqft)
Municipal Recycling Facility / MRF and scale buildings at 33% (base on sq footage of MRF)- East Gwillimbury 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78,317 78												
buildings at 83% (base on sq footage of MRF)- East Gwillimbury78,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31778,31772,2772,772,772,772,772,77	Region Owned											
Community Environmental Centre - McCleary Ct, Vaughan Building at 20% 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,308 4,30	buildings at 83% (base on sq footage of MRF)-	78,317	78,317	78,317	78,317	78,317	78,317	78,317	78,317	78,317	78,317	376
McCleary Ct, Vaughan Building at 20% diversion4,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,3084,308<	Georgina Transfer Station at 10% diversion	51	51	51	51	51	51	27	27	27	27	4,570
Mills, Richmond Hill at 12% diversion 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 1,795 <td>McCleary Ct, Vaughan Building at 20%</td> <td>4,308</td> <td>508</td>	McCleary Ct, Vaughan Building at 20%	4,308	4,308	4,308	4,308	4,308	4,308	4,308	4,308	4,308	4,308	508
Georgina (Outbuilding) 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 512 513 513 513 513 513 513 513 513 5130 5130 5130 <t< td=""><td></td><td>1,795</td><td>1,795</td><td>1,795</td><td>1,795</td><td>1,795</td><td>1,795</td><td>1,795</td><td>1,795</td><td>1,795</td><td>1,795</td><td>1,184</td></t<>		1,795	1,795	1,795	1,795	1,795	1,795	1,795	1,795	1,795	1,795	1,184
Gwillimbury 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,592 1,593 1,592 1,592		512	512	512	512	512	512	512	512	512	512	2,942
MarkhamMarkhamImage: Constraint of the constraint		1,592	1,592	1,592	1,592	1,592	1,592	1,592	1,592	1,592	1,592	1,606
Vaughan 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 530 <		530	530	530	530	530	530	530	530	530	530	1,084
Organics - SSO and Yard Waste 114,338 119,610 118,890 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 120,207 1		530	530	530	530	530	530	530	530	530	530	626
	Region Contracted											
Total 201,973 207,245 206,525 207,842 207,842 207,842 207,818 207,818 207,818 207,818	Organics - SSO and Yard Waste	114,338	119,610	118,890	120,207	120,207	120,207	120,207	120,207	120,207	120,207	314
	Total	201,973	207,245	206,525	207,842	207,842	207,842	207,818	207,818	207,818	207,818	\$369
	1								1			

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per Capita Standard	0.1249	0.1248	0.1226	0.1213	0.1189	0.1166	0.1143	0.1122	0.1148	0.1107

10 Year Average	2012-2021
Quantity Standard (Sqft per Capita)	0.1181
Quality Standard (\$ per Sqft)	\$369
Service Standard (\$ per Capita)	\$43.57

DC Amount (before adjustments)	20 Year
Gross population increase	476,277
\$ per Capita	\$43.57
DC Amount (before adjustments)	\$20,751,590

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Equipment)
Region Owned											
CEC Elgin Mills @ 11.5% - Scales	0	0	0	0	0	0	1	1	1	1	34,104
CEC Elgin Mills @ 11.5% - Scales	1	1	1	1	1	1	1	1	1	1	35,221
CEC Elgin Mills @ 11.5% - Furniture and Fixtures	1	1	1	1	1	1	1	1	1	1	2,703
CEC Elgin Mills @ 11.5% - Roll-off Bins	1	1	1	1	1	1	1	1	1	1	4,425
CEC Elgin Mills @ 11.5% - Scale Hardware	0	1	1	1	1	1	1	1	1	1	1,505
GTS @ 10% - Compactors	0	0	1	1	1	1	1	1	1	1	47,184
GTS @ 10% - Fall Protection System	0	1	1	1	1	1	1	1	1	1	2,447
GTS @ 10% - Hydraulic Power Washer	1	1	1	1	1	1	1	1	1	1	2,669
GTS @ 10% - Radiation Detector	0	0	1	1	1	1	1	1	1	1	2,068
GTS @ 10% - Scale Hardware	1	1	1	1	1	1	1	1	1	1	2,347
GTS @ 10% - Scale	0	0	0	0	0	0	1	1	1	1	9,845
GTS @ 10% - HW&SW Scale	0	0	0	0	0	0	1	1	1	1	4,877
CEC MCC Scale	0	0	0	0	0	1	1	1	1	1	144,645
CEC Vaughan POS	1	1	1	1	1	1	1	1	1	1	58,809
CEC MCC Scale	1	1	1	1	1	1	1	1	1	1	84,428
CEC MCC Scale	0	1	1	1	1	1	1	1	1	1	23,471
MRF - Baler	1	1	1	1	1	1	1	1	1	1	946,725
MRF - Baler/Feeder System	1	1	1	1	1	1	1	1	1	1	2,820,739
MRF - Compactors	1	1	1	1	1	1	1	1	1	1	526,751
MRF - Conveyor to return containers	1	1	1	1	1	1	1	1	1	1	185,963
MRF - Infeed Sorting Residue Conv	1	1	1	1	1	1	1	1	1	1	4,792,718
MRF - Instrumentation Controls	1	1	1	1	1	1	1	1	1	1	2,532,302
MRF - Mixed Paper Bypass & Scalp Scree	0	0	0	0	0	0	0	0	1	1	1,288,061
MRF - Glass Clean Up System	0	0	0	1	1	1	1	1	1	1	1,742,981
MRF - Mixed Paper Sorting	1	1	1	1	1	1	1	1	1	1	3,030,314
MRF - Newspaper by-pass conveyor	1	1	1	1	1	1	1	1	1	1	355,022
MRF - Newspaper Screens	1	1	1	1	1	1	1	1	1	1	845,289
MRF - Optical Sorting Equipment	1	1	1	1	1	1	1	1	1	1	12,654,094
MRF - Plastic Perforator	1	1	1	1	1	1	1	1	1	1	456,457
MRF - Platforms Stairs	1	1	1	1	1	1	1	1	1	1	1,215,850
MRF - Power Distribution System	1	1	1	1	1	1	1	1	1	1	693,138
MRF - Radiation Detector	1	1	1	1	1	1	1	1	1	1	56,644

Table 9-9

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Equipment)
MRF - SCADA System w/ Controls	1	1	1	1	1	1	1	1	1	1	1,267,935
WMC Scales - Diversion Portion @ 83%	1	1	1	1	1	1	1	1	1	1	163,132
MRF - Shafts on Finishing Screens	1	1	1	1	1	1	1	1	1	1	160,605
MRF - Sort Room HVAC	0	0	0	0	1	1	1	1	1	1	40,075
MRF - SW Signage	0	0	0	1	1	1	1	1	1	1	28,063
Region Contracted											
Organics - SSO Facility 1 and 2 weighted average plus Yard Waste facility	2	2	2	2	2	2	2	2	2	2	20,618,709
Total	26	29	31	33	34	35	38	38	39	39	2,227,935
Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600	

0.0193

0.0195

0.0196

0.0209

0.0205

0.0216

0.0208

10 Year Average	2012-2021
Quantity Standard (Number of Items per 1,000 Capita)	0.0194
Quality Standard (\$ per Equipment)	\$2,227,935
Service Standard (\$ per Capita)	\$43.23

0.0161

0.0175

0.0184

Per 1000 Capita Standard

DC Amount (before adjustments)	20 Years
Gross population increase	476,277
\$ per Capita	\$43.23
DC Amount (before adjustments)	\$20,588,893

2022 Development Charge Background Study Waste Diversion Growth related capital costs

10-Year Historic Level of Service Cap					
Land	28,141,624				
Facilities	20,751,590				
Vehicles	0				
Equipment	20,588,893				
Opening reserve adjustment	1,432,572				
Funding Envelope	70,914,679				
Less Existing debt principal	0				
Total eligible amount for new projects	70,914,679				

							Potential Develo	opment Charge Red	coverable Costs	R	esidential and No	on-residential Split		
											No	on-Residential Sha	e	
			Gross Project	Less Capital Grants, Subsidies and		Less	Total Development	In-period	Post Period Benefit / Level of Service Deduction (Beyond 2041)	Benefit /	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Number	Project Description	Timing	Cost (2022-2041)	Other Contributions	New Municipal Cost	Benefit to Existing	Charge Eligible Cost	Growth Costs (2022-2041)		100%	0%	0%	0%	
Facilities	· • •													
1	Expanded Diversion Capacity	2032-2036	30,996,000	0	30,996,000	10,341,438	20,654,562	13,097,716	7,556,846	13,097,716	0	0	0	
2	Source Separated Organics Facility	2022-2031	98,791,000		98,791,000	71,129,520	27,661,480	27,661,480	0	27,661,480	0	0	0	
	Subtotal Facilities		129,787,000	0	129,787,000	81,470,958	48,316,042	40,759,196	7,556,846	40,759,196	0	0	0	
Study														
3	New Waste Management Initiatives	2022-3036	1,326,000		1,326,000	0	1,326,000	1,326,000	0	1,326,000	0	0	0	
	Subtotal Studies		1,326,000	0	1,326,000	0	1,326,000	1,326,000	0	1,326,000	0	0	0	
	Total		131,113,000	0	131,113,000	81,470,958	49,642,042	42,085,196	7,556,846	42,085,196	0	0	0	

9.3 Public Works

9.3.1 Program Description

The 20-year Public Works program (Tables 9-17) consists of:

Facilities	Roads traffic operations main and satellite yards and maintenance facilities
Fleet	New additions to the fleet and electric fleet infrastructure; snow-melting and off-road equipment, trailers, loaders, and mowers

9.3.2 Level of Service

The 10-year historical level of service is based on the replacement cost for the following:

- Land and buildings including Operations Centre, patrol yards and salt/sand storage facilities (Tables 9-13 and 9-14)
- Fleet of service trucks, street sweepers and dump trucks (Table 9-15)

Equipment inventory both owned and contracted (Table 9-16)

The total funding envelope of \$110,293,161 is determined by applying the historic per capita service level to projected growth over the planning horizon and accounting for opening reserve balance levels and existing debt. Finally, \$109,512,931 is the eligible amount available to new projects after accounting for existing outstanding development charge debt costs for this service.

9.3.3 Benefit to Existing Development Deduction

Benefit to existing deduction was applied to facilities, vehicles and equipment using the same methodology as in the Region's 2017 DC Bylaw. Vehicles and equipment have no deduction as York Region is simply expanding its resources to provide the same service level in meeting the growth-related needs. For facilities, only costs net of replacement value have been included resulting in a 5% BTE deduction:

Southeast Patrol Area Works Yard (Main and Satellite Facilities)	5% deduction
SW/Central Roads Maintenance Facilities and Yards	5% deduction
North Existing and Satellite Yards	5% deduction
Various Maintenance Facility Upgrades	5% deduction
Portable Snow Melting Facilities	No deduction
Electric Fleet Infrastructure	No deduction
Fleet New Additions	No deduction

9.3.4 Post Period Benefit Deduction

The Public Works program is related to development occurring over the 2022-2041 planning horizon with level of service cap affecting in-period cost recovery. Any exceeding amount will be considered for recovery under future DC bylaws. No deduction for post period benefit has been made.

9.3.5 Grants, Subsidies and Other Contributions

No grants, subsidies or other contributions have been identified for this service and as such, no adjustments have been made.

9.3.6 Residential versus Non-Residential Allocation

The allocations are based on the net increment in population and employment between 2022 and 2041, as outlined in Table 9-11 below:

TABLE 9-11

INCREMENTAL GROWTH FOR POPULATION AND EMPLOYMENT

	2022 to mid-2041	%
Gross population growth	476,277	74.88
Employment growth requiring new space	159,802	25.12
Total	636,079	100.00

9.3.7 Non-Residential Cost Allocation

For the purpose of rate calculation, the non-residential share of the total capital cost is further allocated between retail, IOI and hotel uses. The cost allocation is determined based on the share of trips generated using the Institute of Transportation Engineers (ITE) Trip Generation rates.

Trip generation rates are used by transportation professionals for estimating the number of trips generated by specific types of developments or land uses. A trip generation rate is the number of trips (vehicle trips, pedestrian trips, and/or transit trips) that can be expected to access and exit a site over a given period of time, expressed over an independent variable, such as trips per 1,000 sq. ft. gross floor area, or per hotel suite. For each non-residential sector, an average trip generation rate was developed based on a sample of land use categories.

To capture the travel characteristics of all land use categories, an average of the AM peak hour and PM peak hour trip generation rate was estimated. Furthermore, consistent with industry practices, retail trip rates were further reduced by 20% to accommodate "pass-by" trips. Pass-by trips are defined as trips that would have traveled on a street adjacent to a retail center even if the retail was not constructed. Where data is available, the peak of the land use (the trips generated for each land use during the peak period of the land use) was used in the analysis.

Using this methodology, the non-residential share of the costs is allocated to the three land uses as outlined in Table 9-12 below.

TABLE 9-12

NON-RESIDENTIAL LAND USE (BASED ON TRIP GENERATION)

Non-residential Land Use	Allocation of DC-Eligible Costs
Retail	35.60%
Industrial, Office, Institutional	63.74%
Hotel	0.66%
Total	100.00%

2022 DC Background Study Public Works - Land Acres Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Acre)
SE Main Yard	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	1,518,000
SE Satellite Yard	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	1,518,000
SW Main Yard	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	2,530,000
SW Satellite Yard										20.0	1,776,500
Central Main Yard	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	550,000
Central Snow Disposal Facility	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	1,980,000
North Main Yard	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	55,000
Road Ops Maintenance Yard	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1,600,000
Total	71	71	71	71	71	71	71	71	71	91	1,253,475

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	0.0439	0.0428	0.0422	0.0415	0.0406	0.0399	0.0391	0.0383	0.0393	0.0485

10 Year Average	2012-2021
Quantity Standard (Acre per 1,000 Capita)	0.0416
Quality Standard (\$ per Acre)	\$1,253,475
Service Standard (\$ per 1,000 Capita)	\$52,139.08

DC Amount (before adjustments)	20 Year
Gross population increase and employment requiring new space	636,079
\$ per 1,000 Capita	\$52,139.08
DC Amount (before adjustments)	\$33,164,575

2022 DC Background Study Public Works - Facilities Square Footage

Hist	oric	Level	ot	Serv	/ice

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Sqft)
SE Main Yard	12,020	12,020	12,020	12,020	12,020	12,020	12,020	12,020	12,020	12,020	615
SE Main Yard Existing Debt Share	(1,269)	(1,269)	(1,269)	(1,269)	(1,269)	(1,269)	(1,269)	(1,269)	(1,269)	(1,269)	615
SE Satellite Yard	14,682	14,682	14,682	14,682	14,682	14,682	14,682	14,682	14,682	14,682	615
SW Main Yard	35,198	35,198	35,198	35,198	35,198	35,198	35,198	35,198	35,198	35,198	615
Central Main Yard	27,652	27,652	27,652	27,652	27,652	27,652	27,652	27,652	27,652	27,652	615
North Main Yard	35,412	35,412	35,412	35,412	35,412	35,412	35,412	35,412	35,412	35,412	445
Road Ops Maintenance Yard	8,922	8,922	8,922	8,922	8,922	8,922	8,922	8,922	8,922	8,922	615
Total	132,617	132,617	132,617	132,617	132,617	132,617	132,617	132,617	132,617	132,617	570

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per Capita Standard	0.0820	0.0799	0.0787	0.0774	0.0759	0.0744	0.0729	0.0716	0.0733	0.0706

10 Year Average	2012-2021
Quantity Standard (Sqft per Capita)	0.0757
Quality Standard (\$ per Sqft)	\$570
Service Standard (\$ per Capita)	\$43.10

DC Amount (before adjustments)	20 Year
DC Amount (before adjustments)	636,079
\$ per Capita	\$43.10
DC Amount (before adjustments)	\$27,412,755

2022 DC Background Study Public Works - Vehicles Number of Vehicles Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Vehicle)
Region Owned											
LD Car	26	26	26	26	26	1	1	1	1	1	36,000
LD EV-Hybrid	9	13	13	13	13	23	23	23	23	23	34,000
LD Off Road Equipment	6	8	8	8	8	17	17	17	17	17	25,000
LD Pick-up	90	97	100	105	106	85	85	85	85	85	38,000
LD SUV	15	23	24	24	24	36	36	36	36	36	35,000
LD Van	37	38	40	57	57	93	93	93	93	93	38,000
MD Pick-up 3/4+	17	17	18	20	20	26	26	26	26	26	50,000
MD Stake Truck	11	11	11	11	11	8	8	8	8	8	90,000
MD Van 3/4 +	34	38	38	40	40	27	27	27	27	27	50,000
HD Single Axle Truck	8	8	8	8	8	5	5	5	5	5	240,000
HD Tandem Truck	18	19	19	19	19	24	24	24	24	24	325,000
HD Line Marking Truck	1	1	1	1	1	1	1	1	1	1	800,000
HD Streetsweeper	2	2	2	3	3	3	3	3	3	3	100,000
Dump HD Tri-axle	1	1	1	1	1	0	0	0	0	0	334,011
Dump HD Tandem & S/A	27	27	27	27	27	11	11	11	11	11	283,260
Dump MD Reg or Crew	8	8	8	8	8	10	10	10	10	10	181,758
DC Amount (before adjustments)											
Region Contracted											
Utility Vehicle	4	4	4	4	4	0	0	0	0	0	25,000
Stake/Utility (Med. Duty)	0	0	0	0	0	0	0	0	0	0	50,751
Dump HD Tri-axle	6	6	6	6	6	6	6	6	6	6	334,011
Dump HD Tandem & S/A	55	55	55	55	55	93	93	93	93	93	283,260
Dump MD Reg or Crew	0	0	0	0	0	0	0	0	0	0	181,758
Hydro Excavator	0	0	0	0	0	2	2	2	2	2	600,000
Total	375	402	409	436	437	471	471	471	471	471	118,944
Population + Employment	1.617.300	1.660.600	1.684.100	1.713.500	1.747.500	1.782.400	1.818.800	1.852.300	1.809.500	1.877.600	

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1000 Capita Standard	0.2319	0.2421	0.2429	0.2544	0.2501	0.2643	0.2590	0.2543	0.2603	0.2509

10 Year Average	2012-2021
Quantity Standard (Vehicles per 1,000 Capita)	0.2510
Quality Standard (\$ per Vehicle)	\$118,944
Service Standard (\$ per Capita)	\$29.85

DC Amount (before adjustments)	20 Year
Gross population increase and employment requiring new space	636,079
\$ per Capita	\$29.85
DC Amount (before adjustments)	\$18,989,846

2022 DC Background Study Public Works - Equipment Number of Items Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Equipment)
Region Owned											
HD Off Road Equipment	8	11	11	12	12	9	9	9	9	9	200,000
HD Snowmelter	0	0	1	1	1	1	1	1	1	1	340,000
HD Crane Truck	4	4	4	4	5	5	5	5	5	5	260,000
					-		13	-	-		
MD Off Road Equipment	16	16	16	16	16	13		13	13	13	75,000
Rear Sander	0	2	4	4	4	5	5	5	5	5	95,000
Boulevard Fine Grass Cutting Mowers	0	0	0	0	0	10	10	10	10	10	20,000
Trailer	73	82	88	91	92	113	113	113	113	113	12,000
Region Contracted											
HD Bucket/Boom/Crane	0	0	0	0	0	0	0	0	0	0	300,000
Graders	1	1	1	1	4	6	6	6	6	6	375,000
Sweepers	1	1	1	1	6	4	4	4	4	4	285,620
Tractor	1	1	1	1	4	0	0	0	0	0	85,000
Loaders	4	4	4	4	7	0	0	0	0	0	375,000
MD Bucket/Boom/Crane	4	4			0	0	0	0	0	0	
			1	1			-		-		300,000
Trailer	0	0	0	0	0	0	0	0	0	0	18,884
DC Amount (before adjustments)	3	3	3	3	2	2	2	2	2	2	1,180,249
Rubber Tire Backhoe	0	0	0	0	2	0	0	0	0	0	375,000
Sign	0	0	0	0	0	0	0	0	0	0	300,000
Grass Cutting Tractor (One-Swath)	0	0	0	0	12	1	1	1	1	1	25,000
Plow	0	0	0	0	81	0	0	0	0	0	360,000
Flusher Truck (Dump Truck)	0	0	0	0	0	2	2	2	2	2	190,000
String Trimmers	0	0	0	0	0	16	16	16	16	16	500
Boulevard Fine Grass Cutting Mowers	0	0	0	0	0	12	12	12	12	12	22,000
6" inch trash pump with trailer	0	0	0	0	0	1	1	1	1	1	15,000
Asphalt Roller (2 to 6 tonnes)	0	0	0	0	0	4	4	4	4	4	60,000
Backhoe with attachments	0	0	0	0	0	2	2	2	2	2	135,000
Skidsteer with attachments	0	0	0	0	0	4	4	4	4	4	65,000
Miscellaneous	0	0	0	0	10	0	0	0	0	0	25,965
Total	112	126	135	139	258	210	210	210	210	210	89,339
Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600	

10 Year Average	2012 - 2021
Quantity Standard (Number of Items per 1,000 Capita)	0.1029
Quality Standard (\$ per Equipment)	\$89,339
Service Standard (\$ per Capita)	\$9.19

0.0693

0.0759

0.0802

0.0811

0.1476

0.1178

0.1155

0.1134

0.1161

0.1118

Per 1,000 Capita Standard

DC Amount (before adjustments)	20 Year
Gross population increase and employment requiring new space	636,079
\$ per Capita	\$9.19
DC Amount (before adjustments)	\$5,845,175

2022 Development Charge Background Study

Public Works

Growth related capital costs

10-Year Historic Level of Service Cap								
Land	33,164,575							
Facilities	27,412,755							
Vehicles	18,989,846							
Equipment	5,845,175							
Opening reserve adjustment	24,880,808							
Funding Envelope	110,293,161							
Less Existing debt principal	780,229							
Total eligible amount for new projects	109,512,931							

							Potential Devel	lopment Charge Red	coverable Costs		Residential and No	on-residential Split	
											Ν	Ion-Residential Share	
				Less Capital Grants, Subsidies and			Total Development		Post Period Benefit / Level of Service	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Number	Project Description	Timing	Gross Project Cost (2022-2041)	Other Contributions	New Municipal Cost	Less Benefit to Existing	Charge Eligible Cost	Growth Costs (2022-2041)	Deduction (Beyond 2041)	74.88%	8.94%	16.01%	0.17%
	1 rojou boonpilon		(1011 2011)	Contributions	0001	Bononi to Existing		(2022 2041)	(Doyona 2041)				
Growth Fleet R	oads												
1	Electric Fleet Infrastructure	2022-2031	1,603,000	0	1,603,000	0	1,603,000	661,793	941,207	495,530	59,186	105,979	1,098
2	Central Snow Management Facility	2022-2026	300,000	0	300,000	0	300,000	123,854	176,146	92,738	11,077	19,834	205
3	Fleet New Additions	2022-2041	9,636,000	0	9,636,000	0	9,636,000	3,978,188	5,657,812	2,978,744	355,781	637,064	6,599
Subtotal Growt	h Fleet Roads		11,539,000	0	11,539,000	0	11,539,000	4,763,835	6,775,165	3,567,012	426,044	762,877	7,902
Growth Facilitie	es Roads												
4	Various Maintenance Facility Upgrades	2022-2041	6,757,000	0	6,757,000	337,850	6,419,150	2,650,123	3,769,027	1,984,330	237,008	424,389	4,396
5	Central Main Yard	2022-2026	4,434,000	0	4,434,000	221,700	4,212,300	1,739,033	2,473,267	1,302,134	155,527	278,488	2,885
6	Central Satellite Yard	2027-2031	39,748,000	0	39,748,000	1,987,400	37,760,600	15,589,330	22,171,270	11,672,807	1,394,199	2,496,465	25,859
7	North Existing Yard	2022-2026	5,803,000	0	5,803,000	290,150	5,512,850	2,275,961	3,236,889	1,704,169	203,546	364,471	3,775
8	North Satellite Yard	2037-2041	33,945,000	0	33,945,000	1,697,250	32,247,750	13,313,369	18,934,381	9,968,639	1,190,653	2,131,994	22,084
9	Southeast Main Yard	2022-2026	60,220,000	0	60,220,000	3,011,000	57,209,000	23,618,533	33,590,467	17,684,826	2,112,274	3,782,256	39,178
10	Southeast Main Yard - Phase 2 (10988/10990 Warden Avenue)	2027-2036	17,718,000	0	17,718,000	885,900	16,832,100	6,949,073	9,883,027	5,203,250	621,476	1,112,820	11,527
11	Southeast Satellite Yard	2032-2036	60,226,000	0	60,226,000	3,011,300	57,214,700	23,620,886	33,593,814	17,686,588	2,112,484	3,782,633	39,182
12	Southwest Main Yard	2022-2026	2,781,000	0	2,781,000	139,050	2,641,950	1,090,720	1,551,230	816,697	97,546	174,667	1,809
13	Southwest Satellite Yard	2022-2031	35,446,000	0	35,446,000	1,772,300	33,673,700	13,902,068	19,771,632	10,409,438	1,243,302	2,226,268	23,060
Subtotal Growt	h Facilities Roads		267,078,000	0	267,078,000	13,353,900	253,724,100	104,749,096	148,975,004	78,432,878	9,368,014	16,774,449	173,754
	Total		278,617,000	0	278,617,000	13,353,900	265,263,100	109,512,931	155,750,169	81,999,891	9,794,058	17,537,327	181,657

9.4 Housing Services

9.4.1 Program Description

Community Housing Master Plan is developed to identify the need for increased housing supply, economic development, social inclusion, and creation of complete communities. The 2022 Community and Health Services 10-year capital plan and the Housing York Inc. 2021 to 2024 Strategic Plan include redevelopment projects (Table 9-19) in Unionville and Whitchurch-Stouffville, Nobleview Pines and Armitage Gardens buildings, transitional family and men's emergency housing, pre-development costs, land acquisitions and a regeneration expansion program. The program supports 10-year Housing and Homelessness Plan approved by Council in 2019.

9.4.2 Level of Service

York Region's 10-year historical level of service (Table 9-18) is based on housing units operated by Housing York Inc., as well as a large number of non-profit corporations, co-operatives and other providers. The average replacement cost, inclusive of land value and site servicing has been applied.

The total funding envelope of \$987,818,596 is determined by applying the historic per capita service level to projected growth over the planning horizon and accounting for opening reserve balance levels and existing debt. Finally, \$980,364,104 is the eligible amount available to new projects after accounting for existing outstanding development charge debt costs for this service.

9.4.3 Benefit to Existing Development Deduction

Considering that the demand is largely driven by existing development with an existing wait list for community housing, the growth-related cost has been calculated as 28% of total net capital program, with the benefit to existing share of 72% based on share of population growth to 2041.

9.4.4 Post Period Benefit Deduction

The Housing Services development charges program is entirely related to development occurring over the 2022 to 2041 period. No deduction for post period benefit has been made.

9.4.5 Grants, Subsidies and Other Contributions

Any applicable grants, subsidies and other contributions have been deducted from the development charge eligible costs in accordance with the requirements of the Act. The grants are primarily from other levels of government; however, the amounts vary by project and are not based on a set formula. For the projects included in the 2022 DC Background Study, the applicable grants/ subsidies are approximately \$261 million.

9.4.6 Residential versus Non-Residential Allocation

This program is solely for the benefit of residential development. As such, 100% of the development charges eligible costs have been allocated to residential development.

2022 Development Charge Background Study Housing Services - Facilities Number of Units Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Unit)
Projects Transferred to Region (Pre-2002)											
Annswell Court Foundation	39	39	39	39	39	39	39	39	39	39	389,111
Bethany Co-operative Homes Inc.	68	68	68	68	68	68	68	68	68	68	386,045
Bogart Creek Co-operative Homes Inc.	40	40	40	40	40	40	40	40	40	40	382,979
Branch 414 Legion Village Non-Profit Housing Corp.	30	30	30	30	30	30	30	30	30	30	389,111
Calvary House (Markham) Corp.	100	100	100	100	100	100	100	100	100	100	336,043
Carpenters Local 27 Housing Co-operative Inc.	119	119	119	119	119	119	119	119	119	119	318,004
Centre Green Co-operative Homes Inc.	42	42	42	42	42	42	42	42	42	42	382,979
Charles Darrow Housing Co-operative Inc.	107	107	107	107	107	107	107	107	107	107	386,045
Davis Drive Non-Profit Homes Corp.	119	119	119	119	119	119	119	119	119	119	336,043
Friuli Benevolent Corporation	113	113	113	113	113	113	113	113	113	113	318,004
German-Canadian Housing of Newmarket Inc.	135	135	135	135	135	135	135	135	135	135	351,688
Hagerman Corners Community Homes Inc.	81	81	81	81	81	81	81	81	81	81	336,043
Birch Housing	149	149	149	149	149	149	149	149	149	149	359,511
Ja'fari Islamic Housing Corporation	170	170	170	170	170	170	170	170	170	170	382,979
John Fitzpatrick Steelworkers Housing Co-operative Inc.	180	180	180	180	180	180	180	180	180	180	359,511
Jubilee Garden Non-Profit Housing Corp.	100	100	100	100	100	100	100	100	100	100	382,979
Kinsmen Non Profit Housing Corporation	187	187	187	187	187	187	187	187	187	187	382,979
Landsberg Lewis Housing Co-operative Inc.	149	149	149	149	149	149	149	149	149	149	382,979
Machell's Corners Housing Co-operative Inc.	67	67	67	67	67	67	67	67	67	67	382,979
Mount Albert United Church Seniors Foundation	0	0	0	0	0	0	0	0	0	28	389,111
Oakwil Non-Profit Homes Corporation	28	28	28	28	28	28	28	28	28	28	382,979
OHR Somayach Residential Centre Inc.	125	125	125	125	125	125	125	125	125	125	318,004
Our Lady of Smolensk	35	35	35	35	35	35	35	35	35	35	389,111
Parkview Retirement Assoc. of York Region	124	124	124	124	124	124	124	124	124	124	336,043
Pefferlaw and Lions Housing Corp.	26	26	26	26	26	26	26	26	26	26	389,111
Prophetic Non-Profit (Richmond Hill) Inc.	212	212	213	213	213	213	213	213	213	213	318,004
Richmond Hill Co-operative Homes Inc.	105	105	105	105	105	105	105	105	105	105	382,979
Richmond Hill Ecumenical Homes Corporation	500	500	500	500	500	500	500	500	500	500	318,004
Robinson Street Non-Profit Homes (Markham) Inc.	26	26	26	26	26	26	26	26	26	26	382,979
Rougebank Foundation	118	118	118	118	118	118	118	118	118	118	336,043
Schomberg Lions Club Non-Profit Housing Corp.	32	32	32	32	32	32	32	32	32	32	389,111
St. Matthew's Non-Profit Homes Inc.	23	23	23	23	23	23	23	23	23	23	382,979
St. Peter's Seniors' Residence Woodbridge Inc.	65	65	65	65	65	65	65	65	65	65	336,043
Thornhill St. Luke's Seniors Home Inc.	96	96	96	96	96	96	96	96	96	96	318,004

Table 9-18

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Unit)
Unionville Home Society	92	92	92	92	92	92	92	92	92	92	382,979
Trinity Glen Housing Corporation	90	90	90	90	90	90	90	90	90	90	382,979
Water Street Non-Profit Homes Inc.	150	150	150	150	150	150	150	150	150	150	336,043
Housing York Inc Thornhill Green	102	102	102	102	102	102	102	102	102	102	421,569
Housing York Inc Brayfield Manors	81	81	81	81	81	81	81	81	81	81	345,679
Housing York Inc Dunlop Pines	133	133	133	133	133	133	133	133	133	133	303,030
Housing York Inc East Court	10	10	10	10	10	10	10	10	10	10	500,000
Housing York Inc Elmwood Gardens	51	51	51	51	51	51	51	51	51	51	352,941
Housing York Inc Evergreen Terrace	56	56	56	56	56	56	56	56	56	56	321,429
Housing York Inc Fairy Lake Gardens	153	153	153	153	153	153	153	153	153	153	268,041
Housing York Inc Founders Place	100	100	100	100	100	100	100	100	100	100	330,000
Housing York Inc Glenwood Mews	64	64	64	64	64	64	64	64	64	64	296,875
Housing York Inc Hadley Grange	80	80	80	80	80	80	80	80	80	80	337,500
Housing York Inc Heritage East	120	120	120	120	120	120	120	120	120	120	444,444
Housing York Inc Keswick Gardens	120	120	120	120	120	120	120	120	120	120	383,333
Housing York Inc Kingview Court	27	27	27	27	27	27	27	27	27	27	444,444
Housing York Inc Maplewood Place	80	80	80	80	80	80	80	80	80	80	325,000
Housing York Inc Mulock Village	104	104	104	104	104	104	104	104	104	104	365,385
Housing York Inc Nobleview Pines	26	26	26	26	26	26	26	26	26	26	346,154
Housing York Inc Northview Court	72	72	72	72	72	72	72	72	72	72	350,000
Housing York Inc Orchard Heights Place	83	83	83	83	83	83	83	83	83	83	318,182
Housing York Inc Oxford Village	36	36	36	36	36	36	36	36	36	36	333,333
Housing York Inc Pineview Terrace	49	49	49	49	49	49	49	49	49	49	306,122
Housing York Inc Porter Place	25	25	25	25	25	25	25	25	25	25	240,000
Housing York Inc Leeder Place	15	15	15	15	15	15	15	15	15	15	466,667
Housing York Inc Rosetown	125	125	125	125	125	125	125	125	125	125	384,000
Housing York Inc Springbrook Gardens	93	93	93	93	93	93	93	93	93	93	376,344
Housing York Inc Trinity Square	100	100	100	100	100	100	100	100	100	100	462,500
Projects Added by Region (Since 2002)											
Housing York Inc Armitage Gardens	58	58	58	58	58	58	58	58	58	58	568,966
Housing York Inc Blue Willow Terrace	60	60	60	60	60	60	60	60	60	60	400,000
Housing York Inc Tom Taylor Place	50	50	50	50	50	50	50	50	50	50	360,000
Housing York Inc Dew St. Kingview Court	39	39	39	39	39	39	39	39	39	39	384,615
East Markham Non-Profit Homes Inc.	120	120	120	120	120	120	120	120	120	120	336,043
Voice of Vedas Cultural Sabha Inc.	25	25	25	25	25	25	25	25	25	25	389,111
Deafblind Ontario Services - Hertick	4	4	4	4	4	4	4	4	4	4	382,979
Deafblind Ontario Services - Treffry	4	4	4	4	4	4	4	4	4	4	382,979
Deafblind Ontario Services - St. George	4	4	4	4	4	4	4	4	4	4	382,979

Table 9-18

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Unit)
Hesperus Fellowship Village	60	60	60	60	60	60	60	60	60	60	389,111
REENA	60	60	60	60	60	60	60	60	60	60	336,043
Housing York Inc Mackenzie Green	0	140	140	140	140	140	140	140	140	140	357,143
Housing York Inc Mapleglen Residences	84	84	84	84	84	84	84	84	84	84	321,429
Housing York Inc Lakeside Residences	0	0	97	97	97	97	97	97	97	97	268,041
Richmond Hill Hub	0	0	0	0	202	202	202	202	202	202	316,832
Richmond Hill Hub Existing Debt Share					(14)	(14)	(14)	(14)	(14)	(14)	316,832
Crescent Village	0	0	0	28	28	28	28	28	28	28	389,111
Belinda's Place	0	0	0	0	37	37	37	37	37	37	513,514
Woodbridge	0	0	0	0	0	0	0	0	162	162	308,642
Modular Home - Sutton (Transitional Housing)										8	325,000
Modular Home - East Gwillimbury (Transitional Housing)										18	217,666
Markham Inter-Church Committee for Affordable Housing										32	336,043
Total	6,315	6,455	6,553	6,581	6,806	6,806	6,806	6,806	6,968	7,054	353,720

Population	1,087,000	1,101,500	1,117,000	1,131,700	1,143,900	1,160,900	1,182,200	1,197,700	1,209,800	1,227,700
Per Capita Standard	0.0058	0.0059	0.0059	0.0058	0.0059	0.0059	0.0058	0.0057	0.0058	0.0057

10 Year Average	2012-2021
Quantity Standard (Unit per Capita)	0.0058
Quality Standard (\$ per Unit)	\$353,720
Service Standard (\$ per Capita)	\$2,055

DC Amount (before adjustments)	20 Year
Gross population increase	476,277
\$ per Capita	\$2,055.45
DC Amount (before adjustments)	\$978,963,403

2022 Development Charge Background Study Housing Services Growth related capital costs

10-Year Historic Level of Service Cap									
Land	0								
Facilities	978,963,403								
Vehicles	0								
Equipment	0								
Opening reserve adjustment	8,855,193								
Funding Envelope	987,818,596								
Less Existing debt principal	7,454,492								
Total eligible amount for new projects	980,364,104								

							Potential Devel	opment Charge Reco	verable Costs		Residential and N	on-residential Split	
												Non-Residential Shar	e
Project			Gross Project Cost	Less Capital Grants, Subsidies and Other		Less	Total Development	In-period Growth Costs	Post Period Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Number	Project Description	Timing	(2022-2041)	Contributions	New Municipal Cost	Benefit to Existing		(2022-2041)	(Beyond 2041)	100%	0%	0%	0%
1	Unionville Common	2022-2026	36,137,000	1,962,000	34,175,000	24,606,000	9,569,000	9,569,000	0	9,569,000	C) () (
2	Stouffville (Phase I)	2022-2026	28,400,000	10,437,000	17,963,000	12,933,360	5,029,640	5,029,640	0	5,029,640	C) () (
3	Men's Emergency and Transitional Housing	2022-2026	10,000,000	0	10,000,000	7,200,000	2,800,000	2,800,000	0	2,800,000	0) () (
4	62 Bayview	2022-2026	87,500,000	26,250,000	61,250,000	44,100,000	17,150,000	17,150,000	0	17,150,000	C) () (
5	Aurora	2022-2026	52,500,000	15,750,000	36,750,000	26,460,000	10,290,000	10,290,000	0	10,290,000	0) () (
6	Nobleview Pines (Growth)	2022-2031	70,000,000	21,000,000	49,000,000	35,280,000	13,720,000	13,720,000	0	13,720,000	0) () (
7	Armitage Gardens (Growth)	2022-2031	31,500,000	9,450,000	22,050,000	15,876,000	6,174,000	6,174,000	0	6,174,000	C) () (
8	Stouffville (Phase II)	2022-2031	70,000,000	21,000,000	49,000,000	35,280,000	13,720,000	13,720,000	0	13,720,000	0) () (J
9	Markham Site A	2022-2031	87,500,000	26,250,000	61,250,000	44,100,000	17,150,000	17,150,000	0	17,150,000	0) () (J
10	Youth Emergency Housing (Growth)	2027-2031	7,000,000	2,100,000	4,900,000	3,528,000	1,372,000	1,372,000	0	1,372,000	0) () (
11	East Court (Growth)	2027-2036	31,500,000	9,450,000	22,050,000	15,876,000	6,174,000	6,174,000	0	6,174,000	0) () (
12	Aurora Site A	2027-2036	61,250,000	18,375,000	42,875,000	30,870,000	12,005,000	12,005,000	0	12,005,000	0) () (
13	Family Transitional (Growth)	2027-2036	8,750,000	2,625,000	6,125,000	4,410,000	1,715,000	1,715,000	0	1,715,000	0) () (
14	Dunlop Pines (Growth)	2027-2036	43,750,000	13,125,000	30,625,000	22,050,000	8,575,000	8,575,000	0	8,575,000	0) () (
15	Thornhill Green (Phase I) - Growth	2031-2036	63,350,000	19,005,000	44,345,000	31,928,400	12,416,600	12,416,600	0	12,416,600	0) () (
16	Pre-Development Cost	2022-2041	4,000,000	0	4,000,000	2,880,000	1,120,000	1,120,000	0	1,120,000	0) () (
17	Northview Court (Growth)	2031-2041	9,800,000	2,940,000	6,860,000	4,939,200	1,920,800	1,920,800	0	1,920,800	0) () (
18	Thornhill Green (Phase II) - Growth	2031-2041	58,100,000	17,430,000	40,670,000	29,282,400	11,387,600	11,387,600	0	11,387,600	0) () (
19	Newmarket Site B (HYI)	2031-2041	36,750,000	11,025,000	25,725,000	18,522,000	7,203,000	7,203,000	0	7,203,000	0) () (
20	Georgina Site C (HYI)	2031-2041	17,500,000	5,250,000	12,250,000	8,820,000	3,430,000	3,430,000	0	3,430,000	0) () (
21	Thornhill Green (Phase III) - Growth	2031-2041	52,500,000	15,750,000	36,750,000	26,460,000	10,290,000	10,290,000	0	10,290,000	0) () (
22	Evergreen Terrace (Growth)	2031-2041	40,950,000	12,285,000	28,665,000	20,638,800	8,026,200	8,026,200	0	8,026,200	0) () (
	Total		908,737,000	261,459,000	647,278,000	466,040,160	181,237,840	181,237,840	0	181,237,840	0) () (

9.5 Growth Studies

The 2022 DC Bylaw includes Growth Studies undertaken to facilitate the completion of the Region's capital growth-related program.

9.5.1 Program Description

The 20-year Growth Studies capital program (Table 9-19) consists of growth-related studies of a corporate nature, such as DC Background Studies, Official Plan updates and Master Plans.

9.5.2 Level of Service

The 10-year historical level of service for the Growth Studies program is reflective of actual expenditures on growth studies in York Region.

9.5.3 Benefit to Existing Development Deduction

No deduction has been made for the studies, which are fully growth-related.

9.5.4 Post Period Benefit Deduction

The studies identified in the capital program are entirely related to development occurring over the 2022-2041 planning period. As such, no post-period deduction has been made.

9.5.5 Grants, Subsidies and Other Contributions

No grants, subsidies or other contributions have been identified for this service and as such, no adjustments have been made.

9.5.6 Residential versus Non-Residential Allocation

The methodology to determine the residential vs. non-residential allocation for Growth Studies is based on the net increment in population and employment growth 2022-2041, as follows:

TABLE 9-20

RESIDENTIAL AND NON-RESIDENTIAL ALLOCATION

476,277 34,259	74.88 5.39
34,259	5.39
124,766	19.62
777	0.12
636,079	100.00

*Note: Employment requiring new space Numbers may not add due to rounding

2022 Development Charge Background Study Growth Studies Growth related capital costs

							Potential Develo	pment Charge Re	coverable Costs		Residential and No	n-residential Split	
											No	n-Residential Share	
Project			Gross Project Cost	Less Capital Grants, Subsidies and Other	New Municipal	Less Benefit to	Total Development Charge Eligible	In-period Growth Costs	Post Period Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Number	Project Description	Timing	(2022-2041)	Contributions	Cost	Existing	Cost	(2022-2041)	(Beyond 2041)	74.88%	5.39%	19.62%	0.12%
	Growth Studies - Long Range Planning	2022-2041	19,195,628	0	19,195,628	0	19,195,628	19,195,628	0	14,373,092	1,033,799	3,765,325	23,412
2	Growth Studies - Finance	2022-2041	10,171,083	0	10,171,083	0	10,171,083	10,171,083	0	7,615,792	547,774	1,995,112	12,405
3	Growth Studies - Consultant	2022-2041	700,000	0	700,000	0	700,000	700,000	0	524,138	37,699	137,309	854
4	YorkTrax Enhancement	2022-2027	1,910,700	0	1,910,700	0	1,910,700	1,910,700	0	1,430,673	102,903	374,794	2,330
Total			31,977,411	0	31,977,411	0	31,977,411	31,977,411	0	23,943,695	1,722,175	6,272,540	39,002

9.6 Court Services

9.6.1 **Program Description**

The 20-year Court Services capital program (Table 9-25) includes the Court Services portion of 17150 Yonge Street and existing growth-related debt costs.

9.6.2 Level of Service

York Region's 10-year historical level of service for Court Services is based on square footage at the Court facilities at 465 Davis Drive (Tannery), 50 High Tech Road (South Services Centre), and 17150 Yonge Street. The average replacement cost, inclusive of land value and site servicing, has been applied.

The total funding envelope of \$9,643,284 is determined by applying the historic per capita service level to projected growth over the planning horizon and accounting for opening reserve balance levels and existing debt. Finally, \$5,950,018 is the eligible amount available to new projects after accounting for existing outstanding development charge debt costs for this service.

9.6.3 Statutory Deductions

The Court Services capital program identified a 29% share costs benefitting existing development and included as a BTE deduction in rate calculation.

No grants, subsidies or other contributions have been identified for this service and as such, no adjustments have been made.

9.6.4 Residential versus Non-Residential Allocation

The methodology to determine the residential versus non-residential allocation for Court Services is the same as what was used for Police Services. It is based on the net increment in population and employment growth between 2022-2041 as shown in Table 9-20 below:

TABLE 9-22

RESIDENTIAL AND NON-RESIDENTIAL ALLOCATION

	2022 to mid-2041	%
Gross population growth	476,277	74.88
Retail employment growth*	34,259	5.39
IOI employment growth*	124,766	19.62
Hotel employment growth*	777	0.12
Total population and employment*	636,079	100.00

*Note: Employment requiring new space Numbers may not add due to rounding

Table 9-23

2022 Development Charge Background Study Court Services - Land Acres Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Acre)
465 Davis Drive (Tannery)	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62		3,207,377
17150 Yonge St (Annex)										1.48	3,207,377
50 High Tech Road (South Service Centre)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	6,109,290
Total	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	1.98	3,688,848

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	0.0019	0.0019	0.0019	0.0018	0.0018	0.0018	0.0017	0.0017	0.0017	0.0011

10 Year Average	2012-2021
Quantity Standard (Sqft per 1,000 Capita)	0.0017
Quality Standard (\$ per Sqft)	\$3,688,848
Service Standard (\$ per 1,000 Capita)	\$6,343.30

DC Amount (before adjustments)	20-Year
Gross population and employment requiring new space increase	636,079
\$ per 1,000 Capita	\$6,343.30
DC Amount (before adjustments)	\$4,034,837

2022 Development Charge Background Study Court Services - Facilities Square Footage Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Sqft)
465 Davis Drive (Tannery)	21,880	21,880	21,880	21,880	21,880	21,880	21,880	21,880	21,880	0	806
17150 Yonge St (Annex)	0	0	0	0	0	0	0	0	0	74,070	806
17150 Yonge St (Annex) Existing Debt Share										(4,580)	806
50 High Tech Road (South Service Centre)	12,063	12,063	12,063	12,063	12,063	12,063	12,063	12,063	12,063	12,023	806
Total	33,943	33,943	33,943	33,943	33,943	33,943	33,943	33,943	33,943	81,513	806

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	20.99	20.44	20.16	19.81	19.42	19.04	18.66	18.32	18.76	43.41

10 Year Average	2012-2021
Quantity Standard (Sqft per 1,000 Capita)	21.90
Quality Standard (\$ per Sqft)	\$806
Service Standard (\$ per 1,000 Capita)	17,663.17

DC Amount (before adjustments)	20-Year
Gross population and employment requiring new space increase	636,079
\$ per 1,000 Capita	\$17,663.17
DC Amount (before adjustments)	\$11,235,173

2022 Development Charge Background Study Court Services Growth related capital costs

10-Year Historic Level of Service Cap					
Land	4,034,837				
Facilities	11,235,173				
Vehicles	0				
Equipment	0				
Opening reserve adjustment	(5,626,726)				
Funding Envelope	9,643,284				
Less Existing debt principal	3,693,266				
Total eligible amount for new projects	5,950,018				

							Potential Develo	pment Charge Red	coverable Costs	F	Residential and No	on-residential Split	
			Gross Project	Less Capital Grants, Subsidies and		Less	Total Development	In-period	Post Period Benefit / Level of Service			on-Residential Shar Industrial/ Office/	-
Project			Cost	Other	New Municipal	Benefit to	Charge Eligible	Growth Costs	Deduction	Residential	Retail	Institutional	Hotel
Number	Project Description	Timing	(2022-2041)	Contributions	Cost	Existing	Cost	(2022-2041)	(Beyond 2041)	74.88%	5.39%	19.61%	0.12%
1.	Annex, Courts only (17150 Yonge Street)	2022	108,460	0	108,460	31,453	77,007	77,007	0	57,660	4,148	15,105	94
	Total		108,460	0	108,460	31,453	77,007	77,007	0	57,660	4,148	15,105	94

9.7 Ambulance Services

9.7.1 Program Description

With regular updates <u>since 2012</u>, York Region has been preparing an Emergency Medical Services 10-Year Resources and Facilities Master Plan. The Plan identifies optimal station locations, staffing and vehicle requirements to meet the needs of the Region's growing population. The 2022 update extends the Plan to 2031 and, building on previous plans, includes a more comprehensive assessment of growth needs (Table 9-30). The Ambulance Services program consists of:

- Facilities Additional growth-related bays, new stations, land acquisitions and station rebuilds for future growth
- Vehicles Additional growth-related ambulance vehicles, equipped with defibrillators and stretchers

9.7.2 Level of Service

The 10-year historical level of service cap has been applied for the Ambulance Services in the 2022 DC Background Study and is comprised of the following:

- Land, including existing paramedic response stations and a headquarters facility (Table 9-27)
- Facilities, including existing paramedic response stations and a headquarters facility (Table 9-28). The space has been valued based on estimated 2022 replacement cost per square foot
- Vehicles, such as ambulances with specialized equipment, emergency response vehicles, support vehicles, administration and command vehicles, special response units and logistics vehicles (Table 9-29)

For services such as Ambulance Services, it is recognized that response time is a critical measure of service delivery and new development can fundamentally impact the ability to provide such services at historical levels. The increase in need for service arising from new development, as identified in the capital program, has also been informed by the need to provide and meet identified response time measures.

The total funding envelope of \$45,749,856 is determined by applying the historic per capita service level to projected growth over the planning horizon and accounting for opening reserve balance levels and existing debt. Finally, \$33,982,185 is the eligible amount available to new projects after accounting for existing outstanding development charge debt costs for this service.

9.7.3 Benefit to Existing Development Deduction

The 25 to 50 % benefit to existing share was identified for some facility projects. The rest of the facilities and new vehicles are being added in proportion to the growth-related call volume.

9.7.4 Post Period Benefit Deduction

Most of the Ambulance Services program reflects 10 years of requirements related to development occurring between 2022 and 2031. Facilities that support growth beyond the planning horizon have a post period benefit deduction ranging from 25% to 67%.

9.7.5 Grants, Subsidies and Other Contributions

No grants, subsidies or other contributions have been identified for this service and as such, no adjustments have been made.

9.7.6 Residential versus Non-Residential Allocation

The residential versus non-residential allocation is based on the net increment in population and employment growth between 2022-2031 (Table 9-26), with population weighted at three times that of employment in order to reflect increased per capita needs related to age and time spent in residences.

	2022 to mid-2031		Weighted	%
Gross residential population growth	222,074	Х	666,222	89.51
Retail employment growth	16,740	Х	16,740	2.25
IOI employment growth	60,931	Х	60,931	8.19
Hotel employment growth	368	Х	368	0.05
Total population and employment	744,261	Х	744,261	100.00

TABLE 9-26

NET INCREMENT IN POPULATION AND EMPLOYMENT GROWTH

*Note: Employment requiring new space Numbers may not add due to rounding

2022 Development Charge Background Study Ambulance Services - Land Acres Historic Level of Service

Historic	Level	ot	Service	

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Acre)
Paramedic Response Stations											
Station #10 - Pefferlaw (Georgina)	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	1,338,163
Station #11 - Sutton (Georgina)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1,338,163
Station #12 - Keswick (Georgina)	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	1,338,163
Station #13 - Holland Landing							2.01	2.01	2.01	2.01	1,338,163
Station #14 - Queensville (East Gwillimbury)	1.22	1.22	1.22								1,784,218
Station #15 - Mount Albert (East Gwillimbury)	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	1,784,218
Station #16 - Newmarket NW								1.11	1.11	1.11	2,341,786
Station #17 - Newmarket	0.80	0.80	0.80	0.80	0.80	0.80	0.80				2,341,786
Station #18 - Aurora	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	2,341,786
Station #19 - Newmarket SE							0.43	0.43	0.43	0.43	2,341,786
Station #20 - Ballantrae (Whitchurch/Stouffville)	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	2,007,245
Station #21 - Stouffville (Whitchurch/Stouffville)	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	2,007,245
Station #22 - Gormley (Whitchurch-Stouffville)										1.62	2,007,245
Station #23 - Markham	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	4,683,571
Station #24 - Unionville	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	4,683,571
Station #25 - Markham								1.25	1.25	1.25	4,683,571
Station #26 - Markham	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	4,683,571
Station #28 - Richmond Hill	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	4,460,544
Station #29 - Thornhill (Markham)										0.94	4,683,571
Station #30 - Woodbridge (Vaughan)	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	4,683,571
Station #31 - Vaughan West						0.51	0.51	0.51	0.51	0.51	4,683,571
Station #32 - Maple (Vaughan)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	4,683,571
Station #34 - Thornhill (Vaughan)	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	4,683,571
Station #36 - Thornhill Central (Vaughan)	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13			4,683,571
Station #37 - Nobleton (King)	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	2,453,299
Station #38 - Schomberg	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	2,453,299
Station #39 - King	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	2,453,299
Station #70 - Holland Landing				0.23	0.23	0.23					1,338,163
Station #85 - Richmond Hill									2.12	2.12	4,460,544
Station #99 - Sharon-Bales HQ	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	1,338,163
Total	37	37	37	36	36	36	39	40	42	45	1,965,992

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	0.0228	0.0222	0.0219	0.0210	0.0206	0.0205	0.0213	0.0217	0.0233	0.0238

10 Year Average	2012-2021
Quantity Standard (Sqft per 1,000 Capita)	0.0219
Quality Standard (\$ per acre)	\$1,965,992
Service Standard (\$ per Capita)	\$43.09

DC Amount (before adjustments)	10 Year
Gross population and employment requiring new	300,113
\$ per Capita	\$43.09
DC Amount (before adjustments)	\$12,931,930

2022 Development Charge Background Study Ambulance Services - Facilities Square Footage Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Sqft)
Paramedic Response Stations											
Station #10 - Pefferlaw (Georgina)	655	655	655	2,279	2,279	2,279	2,279	2,279	2,279	2,279	1,266
Station #10 - Pefferlaw (Georgina) Existing Debt Share	(279)	(279)	(279)	(279)	(279)	(279)	(279)	(279)	(279)	(279)	1,266
Station #11 - Sutton (Georgina)	1,937	1,937	1,937	1,937	1,937	1,937	1,937	1,937	1,937	1,937	1,266
Station #12 - Keswick (Georgina)	2,278	2,278	2,278	2,278	2,278	2,278	2,278	2,278	2,278	2,278	1,266
Station #13 - Holland Landing							5,371	5,371	5,371	5,371	1,266
Station #13 - Holland Landing Existing Debt Share							(920)	(920)	(920)	(920)	1,266
Station #14 - Queensville (East Gwillimbury)	957	957	957								1,266
Station #14 - Queensville (East Gwillimbury) Existing Debt Share	(332)	(332)	(332)								1,266
Station #15 - Mount Albert (East Gwillimbury)	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	1,266
Station #16 - Newmarket NW								7,266	7,266	7,266	126581.99%
Station #17 - Newmarket	9,179	9,179	9,179	9,179	9,179	9,179	9,179				1,266
Station #18 - Aurora	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	2,037	1,266
Station #19 - Newmarket SE							7,212	7,212	7,212	7,212	1,266
Station #20 - Ballantrae (Whitchurch/Stouffville)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,266
Station #21 - Stouffville (Whitchurch/Stouffville)	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	2,168	1,266
Station #22 - Gormley (Whitchurch-Stouffville)										3,886	1,266
Station #22 - Gormley (Whitchurch-Stouffville) Existing Debt Share										(2,773)	1,266
Station #23 - Markham	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	6,276	1,266
Station #24 - Unionville	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,266
Station #25 - Markham								5,275	5,275	5,275	1,266
Station #25 - Markham Existing Debt Share								(743)	(743)	(743)	1,266
Station #26 - Markham	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	1,266
Station #28 - Richmond Hill	6,634	6,634	6,634	6,634	6,634	6,634	6,634	6,634	6,634	6,634	1,266
Station #29 - Thornhill (Markham)										5,371	1,266
Station #29 - Thornhill (Markham) Existing Debt Share										(2,810)	1,266
Station #30 - Woodbridge (Vaughan)	6,857	6,857	6,857	6,857	6,857	6,857	6,857	6,857	6,857	6,857	1,266
Station #31 - Vaughan West						3,767	3,767	3,767	3,767	3,767	1,266
Station #31 - Vaughan West Existing Debt Share						(746)	(746)	(746)	(746)	(746)	1,266
Station #32 - Maple (Vaughan)	2,226	2,226	2,226	2,226	2,226	2,226	2,226	2,226	2,226	2,226	1,266
Station #34 - Thornhill (Vaughan)	6,857	6,857	6,857	6,857	6,857	6,857	6,857	6,857	6,857	6,857	1,266
Station #36 - Thornhill Central (Vaughan)	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239			1,266
Station #37 - Nobleton (King)	3,220	3,220	3,220	3,220	3,220	3,220	3,220	3,220	3,220	3,220	1,266
Station #38 - Schomberg	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	1,266
Station #38 - Schomberg Existing Debt Share	(170)	(170)	(170)	(170)	(170)	(170)	(170)	(170)	(170)	(170)	1,266
Station #39 - King	3,724	3,724	3,724	3,724	3,724	3,724	3,724	3,724	3,724	3,724	1,266
Station #70 - Holland Landing				2,076	2,076	2,076					1,266
Station #85 - Richmond Hill									2,082	2,082	1,266
Station #99 - Sharon-Bales HQ	63,564	63,564	63,564	63,564	63,564	63,564	63,564	63,564	63,564	63,564	1,266

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per Capita Standard	0.0808	0.0787	0.0776	0.0781	0.0765	0.0767	0.0805	0.0804	0.0828	0.0817

10 Year Average	2012-2021
Quantity Standard (Sqft per Capita)	0.0794
Quality Standard (\$ per Sqft)	\$1,266
Service Standard (\$ per Capita)	\$100.49

DC Amount (before adjustments)	10 Year		
Gross population and employment requiring new space	300,113		
\$ per Capita	\$100.49		
DC Amount (before adjustments)	\$30,157,153		

2022 Development Charge Background Study Ambulance Services - Vehicles Number of Vehicles Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Vehicle)
Ambulances (includes Stretcher & Defib)	49	54	54	56	58	62	66	70	74	76	260,000
Emergency Response Vehicles (incl. Defib)	17	19	19	20	22	22	22	22	26	28	135,000
Emergency Support Unit (ESU)	1	1	1	1	1	1	1	1	1	1	500,000
Multi Patient Unit (MPU/bus)	0	1	1	1	1	1	1	1	1	1	1,213,106
Administration Vehicles	0	13	13	11	11	11	8	6	5	5	81,090
Special Response Units (SRU)	0	4	4	4	4	4	4	4	4	4	270,300
Community Paramedicine/EPIC (Expanding Paramedicine in the Community) (incl.	0	2	2	2	2	2	2	4	2	3	135,000
Logistics Vehicles						2	2	2	2	2	154,395
Trailers and Ranger (SRU)						4	4	2	2	2	40,000
Total	67	94	94	95	99	109	110	112	117	122	223,301

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	0.0414	0.0566	0.0558	0.0554	0.0567	0.0612	0.0605	0.0605	0.0647	0.0650

10 Year Average	2012-2021
Quantity Standard (Vehicles per 1,000 Capita)	0.0578
Quality Standard (\$ per Vehicle)	\$223,301
Service Standard (\$ per Capita)	\$12.90

DC Amount (before adjustments)	10 Year
Gross population and employment requiring ne	300,113
\$ per Capita	\$12.90
DC Amount (before adjustments)	\$3,871,337

2022 Development Charge Background Study Ambulance Services Growth related capital costs

10-Year Historic Level of Service Cap						
Land	12,931,930					
Facilities	30,157,153					
Vehicles	3,871,337					
Equipment	0					
Opening reserve adjustment	(1,210,564)					
Funding Envelope	45,749,856					
Less Existing Debt Principal	11,767,671					
Total eligible amount for new projects	33,982,185					

						Potential Devel	opment Charge Ree	coverable Costs		Residential and No	on-residential Split	
					-					N	on-Residential Share	•
		Gross Project Cost	Less Capital Grants, Subsidies and Other	New Municipal	Less Benefit to	Total Development Charge Eligible	In-period Growth Costs	Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Project Description	Timing	(2022-2031)	Contributions	Cost	Existing	Cost	(2022-2031)	(Beyond 2031)	89.51%	2.25%	8.19%	0.05%
Naple Paramedic Response Station #32 (from 1	2022 - 2026	6,925,000	0	6,925,000	1,731,250	5,193,750	3,479,813	1,713,938	3,114,931	78,269	284,893	1,720
Sallantrae Paramedic Response Station #20 from 1 to 2 bays)	2022 - 2026	5,680,000	0	5,680,000	2,840,000	2,840,000	2,840,000	0	2,542,207	63,878	232,512	1,404
Paramedic Station Land Acquisition - Growth	2022 - 2031	12,248,000	0	12,248,000	3,551,920	8,696,080	3,826,275	4,869,805	3,425,064	86,062	313,258	1,891
Paramedic Response Station Rebuilds - Growth	2027 - 2031	3,690,000	0	3,690,000	1,845,000	1,845,000	922,500	922,500	825,770	20,749	75,525	456
Aarkham N/W Paramedic Response Station 27	2022 - 2026	6,504,000	0	6,504,000	0	6,504,000	6,504,000	0	5,822,012	146,290	532,484	3,214
aughan S/E Paramedic Response Station #35	2027 - 2031	2,816,000	0	2,816,000	0	2,816,000	929,280	1,886,720	831,839	20,902	76,080	459
/aughan North Paramedic Response Station 33	2022 - 2026	4,735,000	0	4,735,000	0	4,735,000	4,735,000	0	4,238,503	106,501	387,656	2,340
Seswick South Paramedic Response Station	2022 - 2026	7,000,000	0	7,000,000	0	7,000,000	5,250,000	1,750,000	4,699,502	118,084	429,819	2,595
ubtotal Facilities		49,598,000	0	49,598,000	9,968,170	39,629,830	28,486,868	11,142,962	25,499,827	640,734	2,332,227	14,079
MS Vehicle New	2022-2031	3,847,068		3,847,068	0	3,847,068	3,847,068	0	3,443,677	86,529	314,960	1,901
Subtotal Vehicles		3,847,068	0	3,847,068	0	3,847,068	3,847,068	0	3,443,677	86,529	314,960	1,901
		53 445 068	0	53 445 068	9 968 170	43 476 898	32 333 936	11 142 962	28 943 504	727 264	2 647 188	15,980
	Iaple Paramedic Response Station #32 (from 1 allantrae Paramedic Response Station #20 rom 1 to 2 bays) aramedic Station Land Acquisition - Growth aramedic Response Station Rebuilds - irowth taramedic Response Station Rebuilds - irowth tarkham N/W Paramedic Response Station 27 aughan S/E Paramedic Response Station 33 eswick South Paramedic Response Station 14 ubtotal Facilities MS Vehicle New	Iaple Paramedic Response Station #32 (from 1 2022 - 2026 allantrae Paramedic Response Station #20 2022 - 2026 orm 1 to 2 bays) 2022 - 2026 aramedic Station Land Acquisition - Growth 2022 - 2031 aramedic Response Station Rebuilds - trowth 2027 - 2031 larkham N/W Paramedic Response Station 2022 - 2026 aughan N/E Paramedic Response Station #35 2027 - 2031 aughan North Paramedic Response Station 2022 - 2026 aswick South Paramedic Response Station 2022 - 2026 ubtotal Facilities 2022 - 2026 MS Vehicle New 2022-2031	Project DescriptionTiming (2022-2031)Iaple Paramedic Response Station #32 (from 1 2022 - 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9.8 Public Health

9.8.1 **Program Description**

The 10-year Public Health capital program (Table 9-34) consists of the provision of additional space for growth-related service expansions as, in part, reflected in York Region's 2022 capital budget.

9.8.2 Level of Service

The 10-year historical service level is made up of a number of operating locations, including the Public Health component of the Administrative Building, net of Headquarters Administration functions, and specialized vehicles. Vehicles include vaccine and staff mobile units valued at 2021 replacement costs. The land and facilities have been valued at 2022 replacement cost (Tables 9-31 to 9-33).

The total funding envelope of \$31,831,890 is determined by applying the historic per capita service level to projected growth over the planning horizon and accounting for opening reserve balance levels and existing debt. Finally, \$31,831,890 is the eligible amount available to new projects after accounting for existing outstanding development charge debt costs for this service.

9.8.3 Statutory Deductions

As the provision for future vehicles and facilities is entirely related to providing an increased service arising from new development over the planning period, no benefit to existing deduction has been made.

The development charges program consists of 10 years of requirements. As such, no deduction for post period benefit has been made.

No grants, subsidies or other contributions have been identified for this service and no adjustments have been made.

9.8.4 Residential versus Non-Residential Allocation

Public Health primarily provides services to residents of York Region. However, some of its functions benefit non-residential development. The basis for determining the allocation between residential and non-residential sectors is the proportionate share of the 2022 operating budget. Based on this methodology the residential/ non-residential split is 97.18% and 2.82% respectively.

2022 Development Charge Background Study Public Health - Land Acres Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Acre)
22 Prospect St. (Newmarket)	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45		1,872,358
4261 Highway 7 (Markham)	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	2,184,418
465 Davis Drive	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93		1,872,358
50 High Tech Road	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	1,872,358
194 Eagle Street (Newmarket)	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01		1,872,358
100 Biscayne Blvd. (Keswick)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02		1,248,239
20798 Dalton Road (Sutton)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		1,248,239
Vaughan Community Health Center	0.00	0.00	0.00								3,120,597
520 Cane Parkway	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33		1,872,358
24262 Woodbine (Keswick)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1,248,239
9060 Jane St (Vaughan)			1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	3,120,597
3901 Hwy 7 (Woodbridge)	0.00	0.00	0.00								3,120,597
20849 Dalton Rd, Sutton (Georgina Link Hub)										0.85	1,248,239
17150 Yonge Street - 3rd floor (clinic service)										0.17	1,872,358
17150 Yonge Street - Vaccine Depot P1 & Temp space										0.16	1,872,358
17250 / 17150 Yonge Street - Health Emergency Operations Centre						0.02	0.02	0.02	0.02	0.02	1,872,358
Total	6.95	6.95	8.21	8.21	8.21	8.23	8.23	8.23	8.23	4.68	2,063,088

Net Population + Net Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	0.0043	0.0042	0.0049	0.0048	0.0047	0.0046	0.0045	0.0044	0.0045	0.0025

10 Year Average	2012-2021
Quantity Standard (Sqft per 1,000 Capita)	0.0043
Quality Standard (\$ per 1,000 Sqft)	\$2,063,088
Service Standard (\$ per 1,000 Capita)	\$8,969.49

DC Amount (before adjustments)	10-Year			
Gross population and employment requiring new space increase	300,113			
\$ per 1,000 Capita	\$8,969			
DC Amount (before adjustments)	\$2,691,862			

2022 Development Charge Background Study Public Health - Facilities Square Footage Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Sqft)
22 Prospect St. (Newmarket)	10,939	10,939	10,939	10,939	10,939	10,939	10,939	10,939	10,939		885
4261 Highway 7 (Markham)	16,056	16,056	16,056	16,056	16,056	16,056	16,056	16,056	16,056	16,056	885
465 Davis Drive	27,137	27,137	23,616	23,616	23,616	23,616	23,616	23,616	23,616		885
50 High Tech Road	21,495	21,495	21,495	21,495	21,495	21,495	21,495	21,495	21,495	21,495	885
194 Eagle Street (Newmarket)	6,670	6,670	6,670	6,670	6,670	6,670	6,670	6,670	6,670		885
100 Biscayne Blvd. (Keswick)	220	220	220	220	220	220	220	220	220		884
20798 Dalton Road (Sutton)	300	300	300	300	300	300	300	300	300		884
Vaughan Community Health Center	189	189	189								886
520 Cane Parkway	3,818	3,818	3,818	3,818	3,818	3,818	3,818	3,818	3,818		885
24262 Woodbine (Keswick)	812	812	812	812	812	812	812	812	812	812	884
9060 Jane St (Vaughan)			34,215	34,215	34,215	34,215	34,215	34,215	34,215	34,215	886
3901 Hwy 7 (Woodbridge)	48	48	48								886
20849 Dalton Rd, Sutton (Georgina Link Hub)										3,128	884
17150 Yonge Street - 3rd floor (clinic service)										8,690	885
17150 Yonge Street - Vaccine Depot P1 & Temp space										8,218	885
17250 / 17150 Yonge Street - Health Emergency Operations Centre						831	831	831	831	2,597	885
Total	87,684	87,684	118,378	118,141	118,141	118,972	118,972	118,972	118,972	95,211	885

Net Population + Net Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,877,600
Per 1,000 Capita Standard	54.2163	52.8026	70.2916	68.9472	67.6057	66.7482	65.4124	64.2293	65.7485	50.7089

10 Year Average	2012-2021
Quantity Standard (Sqft per 1,000 Capita)	62.67
Quality Standard (\$ per 1,000 Sqft)	\$885
Service Standard (\$ per 1,000 Capita)	\$55,485

DC Amount (before adjustments)	10-Year
Gross population and employment requiring new space increase	300,113
\$ per 1,000 Capita	\$55,485
DC Amount (before adjustments)	\$16,651,768

2022 Development Charge Background Study Public Health - Vehicles Number of Vehicles Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Value (\$ per Vehicle)
#381 & 3028 - Caravan - Transport of Staff	2	2	2	2	2	2	2	2	2	2	25,000
#3022 - 1 tonne van - Transport of Vaccines						1	1	1	1	1	78,000
#3052 - 3/4 tonne van - Transport of Vaccines										1	44,000
Total	2	2	2	2	2	3	3	3	3	4	35,573

Population + Employment	1,617,300	1,660,600	1,684,100	1,713,500	1,747,500	1,782,400	1,818,800	1,852,300	1,809,500	1,866,700
Per 1,000 Capita Standard	0.0012	0.0012	0.0012	0.0012	0.0011	0.0017	0.0016	0.0016	0.0017	0.0021

10 Year Average	2012-2021
Quantity Standard (Vehicles per 1,000 Capita)	0.0015
Quality Standard (\$ per Vehicle)	\$35,573
Service Standard (\$ per 1,000 Capita)	\$52.27

DC Amount (before adjustments)	10 Years
Gross population and employment requiring new space increase	300,113
\$ per 1,000 Capita	\$52.27
DC Amount (before adjustments)	\$15,686

2022 Development Charge Background Study Public Health Growth related capital costs

10-Year Historic Level of Servic	e Cap
Land	2,691,862
Facilities	16,651,768
Vehicles	15,686
Equipment	0
Opening reserve adjustment	12,472,574
Funding Envelope	31,831,890
Less Existing debt principal	0
Total eligible amount for new projects	31,831,890

							Potential Develo	opment Charge Re	coverable Costs		Residential and No	on-residential Split	
											N	on-Residential Share	
Project Number	Project Description (2022-2041)	Timina	Gross Project Cost (2022-2031)	Less Capital Grants, Subsidies and Other Contributions	New Municipal Cost	Less Benefit to Existing	Total Development Charge Eligible Cost	Growth Costs (2022-2031)	Post Period Benefit / Level of Service Deduction (Beyond 2031)	Residential 97.18%	Retail 0.60%	Industrial/ Office/ Institutional 2.20%	Hotel 0.01%
Number	(2022-2041)	riming	(2022-2031)	Contributions	Cost	Existing	Cost	(2022-2031)	(Beyond 2031)	57.10%	0.0070	2.2070	0.0170
1	Provision for Public Health Facilities and Land	2022-2031	31,806,098	0	31,806,098	C	31,806,098	31,806,098	0	30,909,554	192,191	700,000	4,352
2	Provision for Public Health Vehicles	2022-2031	25,792	0	25,792	C	25,792	25,792	0	25,065	156	568	4
	Total		31,831,890	0	31,831,890	C	31,831,890	31,831,890	0	30,934,620	192,346	700,568	4,356

9.9 Long-term Care/ Seniors Services

9.9.1 Program Description

The 10-year Long-term Care/Seniors Services' capital program (Table 9-36) includes Unionville Seniors Hub and Community Centre facility. Community hubs are innovative and accessible spaces that bring people together to access a range of services, programs and opportunities to promote inclusive, healthy and resilient communities. There are no development charges rates proposed for Long-term Care/Seniors Services as the available reserve funds are sufficient to fund the proposed projects.

9.9.2 Level of Service

The 10-year historical level of service cap has been applied to the Long-term Care/Seniors Services in the 2022 DC Background Study and is based on the bed count in the York Region's Long-term Care/ Seniors Services facilities (see Table 9-35).

The total funding envelope of \$52,239,962 is determined by applying the historic per capita service level to projected growth over the planning horizon and accounting for opening reserve balance levels and existing debt. Finally, \$52,239,962 is the eligible amount available to new projects after accounting for existing outstanding development charge debt costs for this service.

9.9.3 Benefit to Existing Development Deduction

Due to the fact that the demand is largely driven by existing development with a significant wait list for senior care beds; the growth-related cost has been calculated at 15% of total net capital program, with the benefit-to-existing share being 85%, based on share of population growth to 2031.

9.9.4 Post Period Benefit Deduction

The Long-term Care/ Seniors Services program is entirely related to development occurring over the 2022 to 2041 period. As such, no post period deduction has been made.

9.9.5 Grants, Subsidies And Other Contributions

Any applicable grants, subsidies and other contributions have been considered and deducted from the development charges eligible costs in accordance with the requirements of the Act. For the listed Long-term Care/ Seniors Services projects, the anticipated grants total is \$1.8 million, as listed in Table 9-35.

9.9.6 Residential versus Non-Residential Allocation

Long-term Care/ Senior Services programs are provided solely for the benefit of residential development. As such, 100% of the development charges eligible costs have been allocated to residential development.

2022 Development Charge Background Study Long Term Care/Senior Services - Facilities Beds Historic Level of Service

Description	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 Building Value (\$ per bed)	2022 Value with land, site works, etc. (\$ per bed)
Bed Count	232	232	232	232	232	232	232	232	232	232	427,419	683,419
Total	232	232	232	232	232	232	232	232	232	232	427,419	683,419

Population	1,087,000	1,101,500	1,117,000	1,131,700	1,143,900	1,160,900	1,182,200	1,197,700	1,209,800	1,227,700
Per 1,000 Capita Standard	0.2134	0.2106	0.2077	0.2050	0.2028	0.1998	0.1962	0.1937	0.1918	0.1890

10 Year Average	2012-2021
Quantity Standard (per 1,000 Capita)	0.2010
Quality Standard (\$ per bed)	\$683,419
Service Standard (\$ per 1,000 Capita)	\$137,374.16

DC Amount (before adjustments)	10 Year
Gross population increase	222,074
\$ per 1,000 Capita	\$137,374
DC Amount (before adjustments)	\$30,507,229

2022 Development Charge Background Study Long Term Care/Seniors Services Growth related capital costs

10-Year Historic Level of Service Cap					
Land	0				
Facilities	30,507,229				
Vehicles	0				
Equipment	0				
Less Existing debt principal	0				
Opening reserve adjustment	21,732,733				
Total eligible amount for new projects	52,239,962				

							Potential Develo	pment Charge Red	coverable Costs		Residential and	Non-residential Split	
												Non-Residential Share	
Project			Gross Project Cost	Less Grants and	New Municipal	Less Benefit to	Total Development Charge Eligible	In-period Growth Costs	Post Period Benefit / Level of Service Deduction	Residential	Retail	Industrial/ Office/ Institutional	Hotel
Number	Project Description	Timing	(2022-2031)	Subsidies	Cost	Existing	Cost	(2022-2031)	(Beyond 2031)	100%	0%	0%	0%
1	Unionville Seniors Hub	2022-2027	2,501,000	1,822,000	679,000	574,992	104,008	104,008	0	104,008		0 0	0
	Total		2,501,000	1,822,000	679,000	574,992	104,008	104,008	0	104,008		0 0	0

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10 DEVELOPMENT CHARGES CASH FLOW CALCULATIONS

This Chapter provides the development charges calculations, based on the "Potential Development Charges Recoverable Cost" by service in Chapters 3-9 and the development forecasts in Chapter 2. Where applicable, the DC rate calculations commence with the development charges reserve fund balance for the service, as of the end of 2021. The DC-funded expenditures are set out by year and inflated at 2.71% annually. This rate of inflation is based on Non-Residential Building Consumer Price Index for the Toronto Census Metropolitan Area over the last 10 years. Existing debt payments and new debt proceeds and related payments are also tabulated. The interest rates assumed for the additional debt payments are consistent with the Region's debt program.

For residential rates, the annual gross population growth forecast is shown and multiplied by the development charge per capita, also inflated at 2.71% per year. The calculated development charges ensure that the revenue stream is sufficient to fund the capital expenditures and debt payments, while leaving the development charge reserve fund balance at nil by the end of the period in mid-2041 (or 2031 where applicable).

The final adjustment that is made to this calculation is to provide for interest earnings/ expense on the annual reserve fund transactions. The interest earnings/expense assumed depends on the nature of the service. In addition, it is assumed that the various rates applied will increase in the long term. Positive interest earnings are shown for the year where the opening reserve balance for the year is above zero. This earnings figure is then adjusted up or down, depending on whether the in-year transactions were in a surplus or deficit position.

The resultant development charge per capita is multiplied by the average persons per unit occupancy for each residential unit type in order to yield the development charge.

A similar set of calculations has been made for non-residential development, based on the forecast growth in floor area (in sq. ft.) and the share of costs attributable to non-residential development.

The following tables set out the DC rate calculations for each service.

Table 10-1

Water Residential Development Charge Calculation

Assumptions						
Gross Population Growth	476,277					
Inflation		2.71%				
Interest	Earned	Charged				
Opening Balance	1.90% - 2.95%	3.30% - 4.35%				
In-year Transactions	0.95% - 1.48% 1.65% - 2.18%					
New Debt Term (Years)	20					
New Debt interest	Fr	om 3.30% to 4.35%				
Target Reserve Balance 2041 \$370,309,						
Discount Rate Applied to Post 2041 Debt Paym	ents	2.95%				

Calculated Development charge per capita \$2,375	Calculated Development Charge per Capita	\$2,373
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	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(77,954,354)	(6,895,402)	(6,895,402)	(58,110,648)	6,895,402	(113,774)	20,326	2,373	48,240,671	(9,983,751)	(2,572,494)	(164,732)	(90,675,330)
2023	(90,675,330)	(15,163,415)	(15,573,933)	(58,098,574)	15,573,933	(771,883)	20,326	2,438	49,546,687	(9,323,770)	(3,082,961)	(158,504)	(103,240,566)
2024	(103,240,566)	(26,646,893)	(28,109,242)	(58,086,583)	28,109,242	(2,146,694)	20,326	2,504	50,888,060	(9,345,217)	(3,561,800)	(161,205)	(116,308,788)
2025	(116,308,788)	(17,784,070)	(19,267,927)	(58,074,427)	19,267,927	(4,096,310)	20,326	2,571	52,265,749	(9,904,988)	(4,128,962)	(175,814)	(130,518,552)
2026	(130,518,552)	(12,244,211)	(13,624,981)	(58,269,466)	13,624,981	(5,445,472)	21,883	2,641	57,792,754	(5,922,184)	(4,698,668)	(106,599)	(141,246,003)
2027	(141,246,003)	(8,661,963)	(9,899,716)	(59,128,221)	9,899,716	(6,409,935)	23,439	2,712	63,578,004	(1,960,153)	(5,226,102)	(36,263)	(148,468,521)
2028	(148,468,521)	(12,498,208)	(14,670,854)	(59,441,065)	14,670,854	(7,253,757)	23,439	2,786	65,299,246	(1,395,577)	(5,567,570)	(26,167)	(155,457,834)
2029	(155,457,834)	(20,415,067)	(24,612,727)	(59,084,224)	24,612,727	(8,571,195)	23,439	2,861	67,067,087	(588,332)	(5,985,127)	(11,325)	(162,042,618)
2030	(162,042,618)	(28,409,281)	(35,177,944)	(55,326,795)	35,177,944	(10,710,411)	23,439	2,939	68,882,788	2,845,582	(6,643,747)	38,415	(165,802,368)
2031	(165,802,368)	(23,860,073)	(30,344,729)	(42,888,326)	30,344,729	(13,407,401)	25,131	3,018	75,854,734	19,559,007	(7,212,403)	288,495	(153,167,269)
2032	(153,167,269)	(22,758,046)	(29,726,772)	(31,815,568)	29,726,772	(15,820,468)	26,823	3,100	83,153,693	35,517,657	(6,662,776)	523,885	(123,788,502)
2033	(123,788,502)	(30,116,073)	(40,402,886)	(22,239,803)	40,402,886	(18,429,766)	26,823	3,184	85,404,906	44,735,337	(5,384,800)	659,846	(83,778,119)
2034	(83,778,119)	(31,308,460)	(43,139,691)	(17,416,481)	43,139,691	(21,720,097)	26,823	3,270	87,717,066	48,580,488	(3,644,348)	716,562	(38,125,416)
2035	(38,125,416)	(36,776,520)	(52,045,985)	(10,722,044)	52,045,985	(25,363,463)	26,823	3,359	90,091,823	54,006,316	(1,658,456)	796,593	15,019,037
2036	15,019,037	(30,801,328)	(44,770,024)	(6,434,666)	44,770,024	(29,367,053)	26,761	3,450	92,316,991	56,515,272	443,062	833,600	72,810,971
2037	72,810,971	(14,682,812)	(21,919,386)	(2,202,337)	21,919,386	(32,450,074)	26,700	3,543	94,600,154	59,947,742	2,147,924	884,229	135,790,866
2038	135,790,866	(19,930,229)	(30,558,549)	(298,095)	30,558,549	(34,390,754)	26,700	3,639	97,161,256	62,472,407	4,005,831	921,468	203,190,571
2039	203,190,571	(11,051,276)	(17,403,401)	(298,095)	17,403,401	(36,548,235)	26,700	3,738	99,791,694	62,945,364	5,994,122	928,444	273,058,501
2040	273,058,501	(8,301,384)	(13,426,830)	(298,095)	13,426,830	(37,853,403)	26,700	3,839	102,493,346	64,341,848	8,055,226	949,042	346,404,617
2041	346,404,617	(7,196,624)	(11,955,096)	(251,971)	11,955,096	(401,414,204)	13,350	3,943	52,634,070	(349,032,105)	10,218,936	(7,591,448)	0
Total		(385,501,335)	(503,526,077)	(658,485,486)	503,526,077	(712,284,351)	476,277		1,484,780,779		(35,165,113)	(891,476)	

Table 10-2

Water Retail Development Charge Calculation

Assumptions						
Total GFA Growth		14,730,349				
Inflation		2.71%				
Interest	Earned	Charged				
Opening Balance	1.90% - 2.95%	3.30% - 4.35%				
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%				
New Debt Term (Years)	20					
New Debt interest	Fr	om 3.30% to 4.35%				
Target Reserve Balance 2041 \$20,626,3						
Discount Rate Applied to Post 2041 Debt Payme	ents	2.95%				

Calculated Development Charge per sqft \$4.26

	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(4,342,080)	(384,076)	(384,076)	(3,236,780)	384,076	(6,337)	736,966	4.26	3,138,775	(104,341)	(143,289)	(1,722)	(4,591,431)
2023	(4,591,431)	(844,607)	(867,473)	(3,236,107)	867,473	(42,994)	737,005	4.37	3,223,920	(55,182)	(156,109)	(938)	(4,803,660)
2024	(4,803,660)	(1,484,240)	(1,565,693)	(3,235,439)	1,565,693	(119,571)	736,966	4.49	3,311,028	(43,983)	(165,726)	(759)	(5,014,128)
2025	(5,014,128)	(990,578)	(1,073,229)	(3,234,762)	1,073,229	(228,166)	736,966	4.61	3,400,667	(62,261)	(178,002)	(1,105)	(5,255,495)
2026	(5,255,495)	(682,006)	(758,915)	(3,245,626)	758,915	(303,314)	725,783	4.74	3,439,730	(109,210)	(189,198)	(1,966)	(5,555,869)
2027	(5,555,869)	(482,474)	(551,417)	(3,293,459)	551,417	(357,035)	697,281	4.87	3,394,117	(256,377)	(205,567)	(4,743)	(6,022,556)
2028	(6,022,556)	(696,154)	(817,171)	(3,310,884)	817,171	(404,036)	697,242	5.00	3,485,813	(229,107)	(225,846)	(4,296)	(6,481,805)
2029	(6,481,805)	(1,137,125)	(1,370,936)	(3,291,008)	1,370,936	(477,418)	697,281	5.13	3,580,382	(188,044)	(249,549)	(3,620)	(6,923,018)
2030	(6,923,018)	(1,582,405)	(1,959,421)	(3,081,718)	1,959,421	(596,573)	697,242	5.27	3,677,110	(1,181)	(283,844)	(24)	(7,208,067)
2031	(7,208,067)	(1,329,013)	(1,690,210)	(2,388,892)	1,690,210	(746,796)	735,504	5.42	3,983,909	848,222	(313,551)	12,511	(6,660,885)
2032	(6,660,885)	(1,267,630)	(1,655,790)	(1,772,136)	1,655,790	(881,205)	775,604	5.56	4,314,846	1,661,505	(289,749)	24,507	(5,264,622)
2033	(5,264,622)	(1,677,474)	(2,250,452)	(1,238,763)	2,250,452	(1,026,543)	775,604	5.71	4,431,661	2,166,355	(229,011)	31,954	(3,295,324)
2034	(3,295,324)	(1,743,890)	(2,402,893)	(970,103)	2,402,893	(1,209,816)	775,604	5.87	4,551,639	2,371,721	(143,347)	34,983	(1,031,967)
2035	(1,031,967)	(2,048,463)	(2,898,976)	(597,221)	2,898,976	(1,412,752)	775,604	6.03	4,674,865	2,664,892	(44,891)	39,307	1,627,341
2036	1,627,341	(1,715,643)	(2,493,703)	(358,413)	2,493,703	(1,635,753)	800,261	6.19	4,954,072	2,959,906	48,007	43,659	4,678,913
2037	4,678,913	(817,837)	(1,220,916)	(122,671)	1,220,916	(1,807,478)	806,907	6.36	5,130,445	3,200,296	138,028	47,204	8,064,441
2038	8,064,441	(1,110,119)	(1,702,120)	(16,604)	1,702,120	(1,915,575)	806,945	6.53	5,269,593	3,337,414	237,901	49,227	11,688,983
2039	11,688,983	(615,559)	(969,374)	(16,604)	969,374	(2,035,747)	806,907	6.71	5,411,998	3,359,647	344,825	49,555	15,443,009
2040	15,443,009	(462,389)	(747,878)	(16,604)	747,878	(2,108,445)	806,945	6.89	5,558,782	3,433,732	455,569	50,648	19,382,958
2041	19,382,958	(400,854)	(665,902)	(14,035)	665,902	(22,358,273)	401,733	7.08	2,842,330	(19,529,978)	571,797	(424,777)	0
Total		(21,472,534)	(28,046,545)	(36,677,828)	28,046,545	(39,673,828)	14,730,349		81,775,681		(1,021,550)	(60,395)	

Water

Industrial/Office/Institutional Development Charge Calculation

Assumptions						
Total GFA Growth		79,831,360				
Inflation		2.71%				
Interest	Earned	Charged				
Opening Balance	1.90% - 2.95%	3.30% - 4.35%				
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%				
New Debt Term (Years)		20				
New Debt interest	Fr	om 3.30% to 4.35%				
Target Reserve Balance 2041 \$75,117,9						
Discount Rate Applied to Post 2041 Debt Pay	yments	2.95%				

Calculated Development Charge per sqft	\$2.86

	Development		Developr	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(15,813,185)	(1,398,745)	(1,398,745)	(11,787,853)	1,398,745	(23,079)	4,021,383	2.86	11,503,528	(307,404)	(521,835)	(5,072)	(16,647,496)
2023	(16,647,496)	(3,075,927)	(3,159,201)	(11,785,403)	3,159,201	(156,578)	4,021,383	2.94	11,814,962	(127,019)	(566,015)	(2,159)	(17,342,689)
2024	(17,342,689)	(5,405,372)	(5,702,012)	(11,782,971)	5,702,012	(435,461)	4,021,383	3.02	12,134,828	(83,604)	(598,323)	(1,442)	(18,026,059)
2025	(18,026,059)	(3,607,532)	(3,908,535)	(11,780,505)	3,908,535	(830,944)	4,021,383	3.10	12,463,353	(148,096)	(639,925)	(2,629)	(18,816,709)
2026	(18,816,709)	(2,483,761)	(2,763,853)	(11,820,069)	2,763,853	(1,104,624)	3,963,103	3.18	12,615,254	(309,439)	(677,402)	(5,570)	(19,809,120)
2027	(19,809,120)	(1,757,095)	(2,008,176)	(11,994,269)	2,008,176	(1,300,267)	3,827,293	3.27	12,512,776	(781,761)	(732,937)	(14,463)	(21,338,280)
2028	(21,338,280)	(2,535,285)	(2,976,010)	(12,057,730)	2,976,010	(1,471,438)	3,827,293	3.36	12,851,533	(677,635)	(800,186)	(12,706)	(22,828,806)
2029	(22,828,806)	(4,141,234)	(4,992,737)	(11,985,344)	4,992,737	(1,738,683)	3,827,293	3.45	13,199,462	(524,565)	(878,909)	(10,098)	(24,242,379)
2030	(24,242,379)	(5,762,875)	(7,135,911)	(11,223,143)	7,135,911	(2,172,627)	3,827,293	3.54	13,556,810	161,040	(993,938)	2,174	(25,073,102)
2031	(25,073,102)	(4,840,060)	(6,155,485)	(8,699,976)	6,155,485	(2,719,716)	4,037,794	3.64	14,689,643	3,269,950	(1,090,680)	48,232	(22,845,600)
2032	(22,845,600)	(4,616,512)	(6,030,131)	(6,453,847)	6,030,131	(3,209,211)	4,161,884	3.74	15,551,002	5,887,943	(993,784)	86,847	(17,864,593)
2033	(17,864,593)	(6,109,101)	(8,195,800)	(4,511,385)	8,195,800	(3,738,512)	4,161,884	3.84	15,972,013	7,722,115	(777,110)	113,901	(10,805,687)
2034	(10,805,687)	(6,350,979)	(8,750,966)	(3,532,965)	8,750,966	(4,405,962)	4,161,884	3.94	16,404,422	8,465,494	(470,047)	124,866	(2,685,374)
2035	(2,685,374)	(7,460,185)	(10,557,624)	(2,174,987)	10,557,624	(5,145,025)	4,161,884	4.05	16,848,537	9,528,525	(116,814)	140,546	6,866,884
2036	6,866,884	(6,248,106)	(9,081,682)	(1,305,284)	9,081,682	(5,957,161)	4,293,709	4.16	17,852,788	10,590,343	202,573	156,208	17,816,007
2037	17,816,007	(2,978,436)	(4,446,388)	(446,748)	4,446,388	(6,582,558)	4,334,163	4.27	18,508,872	11,479,566	525,572	169,324	29,990,469
2038	29,990,469	(4,042,884)	(6,198,858)	(60,469)	6,198,858	(6,976,228)	4,334,163	4.39	19,009,961	11,973,263	884,719	176,606	43,025,057
2039	43,025,057	(2,241,772)	(3,530,312)	(60,469)	3,530,312	(7,413,877)	4,334,163	4.50	19,524,616	12,050,269	1,269,239	177,741	56,522,307
2040	56,522,307	(1,683,951)	(2,723,657)	(60,469)	2,723,657	(7,678,633)	4,334,163	4.63	20,053,204	12,314,102	1,667,408	181,633	70,685,450
2041	70,685,450	(1,459,848)	(2,425,113)	(51,113)	2,425,113	(81,424,719)	2,157,860	4.75	10,254,231	(71,221,601)	2,085,221	(1,549,070)	0
Total		(78,199,660)	(102,141,198)	(133,575,001)	102,141,198	(144,485,304)	79,831,360		297,321,792		(3,223,171)	(225,131)	

Table 10-4

Water Hotel Development Charge Calculation

Assumptions						
Total GFA Growth		1,554,000				
Inflation		2.71%				
Interest	Earned	Charged				
Opening Balance	1.90% - 2.95%	3.30% - 4.35%				
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%				
New Debt Term (Years)	20					
New Debt interest	Fr	om 3.30% to 4.35%				
Target Reserve Balance 2041 \$467,8						
Discount Rate Applied to Post 2041 Debt Paym	ents	2.95%				

valoulated bevelopment onlarge per oqu	Calculated Development Charge per sqft	\$0.92
----------------------------------------	----------------------------------------	--------

	Development		Developr	ment Related Expe	enditures			Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(98,479)	(8,711)	(8,711)	(73,411)	8,711	(144)	72,000	0.92	66,072	(7,483)	(3,250)	(123)	(109,335)
2023	(109,335)	(19,156)	(19,674)	(73,395)	19,674	(975)	72,000	0.94	67,860	(6,510)	(3,717)	(111)	(119,673)
2024	(119,673)	(33,663)	(35,510)	(73,380)	35,510	(2,712)	72,000	0.97	69,698	(6,395)	(4,129)	(110)	(130,307)
2025	(130,307)	(22,466)	(24,341)	(73,365)	24,341	(5,175)	72,000	0.99	71,585	(6,955)	(4,626)	(123)	(142,012)
2026	(142,012)	(15,468)	(17,212)	(73,611)	17,212	(6,879)	74,000	1.02	75,565	(4,926)	(5,112)	(89)	(152,138)
2027	(152,138)	(10,943)	(12,506)	(74,696)	12,506	(8,098)	74,000	1.05	77,611	(5,183)	(5,629)	(96)	(163,047)
2028	(163,047)	(15,789)	(18,534)	(75,091)	18,534	(9,164)	74,000	1.08	79,712	(4,543)	(6,114)	(85)	(173,789)
2029	(173,789)	(25,790)	(31,093)	(74,641)	31,093	(10,828)	74,000	1.11	81,870	(3,599)	(6,691)	(69)	(184,148)
2030	(184,148)	(35,889)	(44,440)	(69,894)	44,440	(13,530)	74,000	1.14	84,086	662	(7,550)	9	(191,027)
2031	(191,027)	(30,142)	(38,334)	(54,180)	38,334	(16,937)	78,000	1.17	91,031	19,913	(8,310)	294	(179,130)
2032	(179,130)	(28,750)	(37,554)	(40,192)	37,554	(19,986)	84,000	1.20	100,687	40,509	(7,792)	598	(145,816)
2033	(145,816)	(38,045)	(51,041)	(28,095)	51,041	(23,282)	84,000	1.23	103,413	52,036	(6,343)	768	(99,356)
2034	(99,356)	(39,552)	(54,498)	(22,002)	54,498	(27,439)	84,000	1.26	106,213	56,772	(4,322)	837	(46,068)
2035	(46,068)	(46,459)	(65,749)	(13,545)	65,749	(32,041)	84,000	1.30	109,088	63,502	(2,004)	937	16,367
2036	16,367	(38,911)	(56,558)	(8,129)	56,558	(37,099)	86,000	1.33	114,709	69,481	483	1,025	87,356
2037	87,356	(18,549)	(27,691)	(2,782)	27,691	(40,994)	88,000	1.37	120,555	76,779	2,577	1,132	167,844
2038	167,844	(25,178)	(38,604)	(377)	38,604	(43,446)	88,000	1.41	123,819	79,997	4,951	1,180	253,972
2039	253,972	(13,961)	(21,986)	(377)	21,986	(46,171)	88,000	1.45	127,171	80,623	7,492	1,189	343,276
2040	343,276	(10,487)	(16,962)	(377)	16,962	(47,820)	88,000	1.48	130,614	82,417	10,127	1,216	437,036
2041	437,036	(9,091)	(15,103)	(318)	15,103	(507,107)	44,000	1.52	67,075	(440,351)	12,893	(9,578)	0
Total		(487,001)	(636,100)	(831,859)	636,100	(899,827)	1,554,000		1,868,433		(37,067)	(1,201)	

Wastewater

Residential Development Charge Calculation

Assumption	ons			
Gross Population Growth	476,277			
Inflation		2.71%		
Interest	Earned	Charged		
Opening Balance	1.90% - 2.95%	3.30% - 4.35%		
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%		
New Debt Term (Years)	20			
New Debt interest	From 3.30% to 4.35%			
Target Reserve Balance 2041	\$937,743,290			
Discount Rate Applied to Post 2041 Debt Paym	ents	2.95%		

Calculated Develop	ment Charge per Capita	\$5,529

	Development		Developr	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Rever	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(70,824,562)	(59,310,829)	(59,310,829)	(82,190,111)	59,310,829	(978,629)	20,326	5,529	112,391,142	29,222,402	(2,337,211)	277,613	(43,661,757)
2023	(43,661,757)	(71,563,886)	(73,501,329)	(82,190,111)	73,501,329	(5,611,570)	20,326	5,679	115,433,898	27,632,216	(1,484,500)	276,322	(17,237,718)
2024	(17,237,718)	(100,196,640)	(105,695,309)	(82,190,111)	105,695,309	(11,634,833)	20,326	5,833	118,559,031	24,734,086	(594,701)	253,524	7,155,191
2025	7,155,191	(118,603,708)	(128,499,695)	(82,190,111)	128,499,695	(19,960,577)	20,326	5,991	121,768,769	19,618,081	153,837	210,894	27,138,003
2026	27,138,003	(169,251,591)	(188,337,963)	(82,633,523)	188,337,963	(30,712,761)	21,883	6,153	134,645,590	21,299,305	597,036	234,292	49,268,637
2027	49,268,637	(186,249,710)	(212,863,888)	(83,823,892)	212,863,888	(45,450,898)	23,439	6,320	148,124,067	18,849,277	1,133,179	216,767	69,467,860
2028	69,467,860	(147,819,776)	(173,516,270)	(84,321,508)	173,516,270	(60,933,463)	23,439	6,491	152,134,218	6,879,247	1,632,495	80,831	78,060,432
2029	78,060,432	(103,680,382)	(124,998,709)	(82,727,663)	124,998,709	(73,317,678)	23,439	6,666	156,252,935	207,594	1,912,481	2,543	80,183,049
2030	80,183,049	(95,704,579)	(118,506,708)	(69,156,449)	118,506,708	(82,948,898)	23,439	6,847	160,483,158	8,377,811	2,164,942	113,100	90,838,903
2031	90,838,903	(64,758,533)	(82,358,512)	(57,993,493)	82,358,512	(91,602,371)	25,131	7,032	176,726,399	27,130,536	2,679,748	400,175	121,049,362
2032	121,049,362	(45,833,921)	(59,868,694)	(50,417,570)	59,868,694	(97,698,992)	26,823	7,223	193,731,520	45,614,957	3,570,956	672,821	170,908,096
2033	170,908,096	(54,988,492)	(73,771,032)	(40,774,644)	73,771,032	(102,788,752)	26,823	7,418	198,976,397	55,413,002	5,041,789	817,342	232,180,229
2034	232,180,229	(28,740,254)	(39,600,979)	(32,665,661)	39,600,979	(107,944,633)	26,823	7,619	204,363,269	63,752,975	6,849,317	940,356	303,722,876
2035	303,722,876	(53,570,338)	(75,812,530)	(22,117,766)	75,812,530	(111,898,916)	26,823	7,825	209,895,978	75,879,297	8,959,825	1,119,220	389,681,218
2036	389,681,218	(48,324,770)	(70,240,513)	(17,783,006)	70,240,513	(117,840,052)	26,761	8,037	215,080,176	79,457,118	11,495,596	1,171,992	481,805,924
2037	481,805,924	(25,598,180)	(38,214,506)	(13,702,843)	38,214,506	(122,760,249)	26,700	8,255	220,399,489	83,936,396	14,213,275	1,238,062	581,193,657
2038	581,193,657	(15,914,279)	(24,400,988)	(10,457,767)	24,400,988	(125,515,618)	26,700	8,478	226,366,346	90,392,961	17,145,213	1,333,296	690,065,127
2039	690,065,127	(16,842,649)	(26,523,578)	(10,457,767)	26,523,578	(127,513,002)	26,700	8,708	232,494,743	94,523,974	20,356,921	1,394,229	806,340,251
2040	806,340,251	(17,725,724)	(28,669,953)	(10,457,767)	28,669,953	(129,680,636)	26,700	8,943	238,789,054	98,650,651	23,787,037	1,455,097	930,233,036
2041	930,233,036	(16,537,087)	(27,471,557)	(17,239,274)	27,471,557	(1,042,676,489)	13,350	9,186	122,626,885	(937,288,878)	27,441,875	(20,386,033)	0
Total		(1,441,215,326)	(1,732,163,542)	(1,015,491,038)	1,732,163,542	(2,509,469,018)	476,277		3,459,243,065		144,719,108	(8,177,556)	

Table 10-6

Wastewater

Retail Development Charge Calculation

Assumptions							
Total GFA Growth	14,730,349						
Inflation		2.71%					
Interest	Earned	Charged					
Opening Balance	1.90% - 2.95%	3.30% - 4.35%					
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%					
New Debt Term (Years)	20						
New Debt interest	From 3.30% to 4.35%						
Target Reserve Balance 2041	\$52,232,567						
Discount Rate Applied to Post 2041 Debt Paym	ents 2.95%						

valodiatou Dorolophielit ellarge per eqit	Calculated Development Charge per sqft	\$9.96
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	Development		Developr	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve [─] Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(3,944,948)	(3,303,630)	(3,303,630)	(4,578,013)	3,303,630	(54,510)	736,966	9.96	7,341,894	2,709,372	(130,183)	25,739	(1,340,021)
2023	(1,340,021)	(3,986,129)	(4,094,045)	(4,578,013)	4,094,045	(312,566)	737,005	10.23	7,541,055	2,650,476	(45,561)	26,505	1,291,399
2024	1,291,399	(5,580,981)	(5,887,259)	(4,578,013)	5,887,259	(648,063)	736,966	10.51	7,744,808	2,518,732	26,474	25,817	3,862,422
2025	3,862,422	(6,606,260)	(7,157,470)	(4,578,013)	7,157,470	(1,111,810)	736,966	10.79	7,954,483	2,264,661	83,042	24,345	6,234,470
2026	6,234,470	(9,427,362)	(10,490,478)	(4,602,711)	10,490,478	(1,710,710)	725,783	11.09	8,045,856	1,732,436	137,158	19,057	8,123,121
2027	8,123,121	(10,374,162)	(11,856,579)	(4,669,015)	11,856,579	(2,531,628)	697,281	11.39	7,939,162	738,520	186,832	8,493	9,056,966
2028	9,056,966	(8,233,603)	(9,664,906)	(4,696,732)	9,664,906	(3,394,011)	697,242	11.69	8,153,648	62,905	212,839	739	9,333,449
2029	9,333,449	(5,775,027)	(6,962,464)	(4,607,954)	6,962,464	(4,083,815)	697,281	12.01	8,374,854	(316,916)	228,669	(6,101)	9,239,102
2030	9,239,102	(5,330,772)	(6,600,857)	(3,852,034)	6,600,857	(4,620,277)	697,242	12.34	8,601,111	128,800	249,456	1,739	9,619,096
2031	9,619,096	(3,607,069)	(4,587,393)	(3,230,254)	4,587,393	(5,102,278)	735,504	12.67	9,318,743	986,211	283,763	14,547	10,903,617
2032	10,903,617	(2,552,962)	(3,334,703)	(2,808,273)	3,334,703	(5,441,862)	775,604	13.01	10,092,834	1,842,700	321,657	27,180	13,095,153
2033	13,095,153	(3,062,875)	(4,109,067)	(2,271,159)	4,109,067	(5,725,363)	775,604	13.37	10,366,077	2,369,555	386,307	34,951	15,885,966
2034	15,885,966	(1,600,840)	(2,205,786)	(1,819,487)	2,205,786	(6,012,547)	775,604	13.73	10,646,717	2,814,683	468,636	41,517	19,210,802
2035	19,210,802	(2,983,883)	(4,222,779)	(1,231,966)	4,222,779	(6,232,801)	775,604	14.10	10,934,954	3,470,187	566,719	51,185	23,298,893
2036	23,298,893	(2,691,703)	(3,912,417)	(990,518)	3,912,417	(6,563,724)	800,261	14.48	11,588,045	4,033,803	687,317	59,499	28,079,511
2037	28,079,511	(1,425,826)	(2,128,559)	(763,252)	2,128,559	(6,837,781)	806,907	14.87	12,000,599	4,399,566	828,346	64,894	33,372,317
2038	33,372,317	(886,430)	(1,359,142)	(582,501)	1,359,142	(6,991,256)	806,945	15.27	12,326,078	4,752,322	984,483	70,097	39,179,219
2039	39,179,219	(938,140)	(1,477,371)	(582,501)	1,477,371	(7,102,510)	806,907	15.69	12,659,177	4,974,166	1,155,787	73,369	45,382,541
2040	45,382,541	(987,328)	(1,596,925)	(582,501)	1,596,925	(7,223,248)	806,945	16.11	13,002,519	5,196,770	1,338,785	76,652	51,994,748
2041	51,994,748	(921,120)	(1,530,174)	(960,232)	1,530,174	(58,077,376)	401,733	16.55	6,648,479	(52,389,130)	1,533,845	(1,139,464)	0
Total		(80,276,103)	(96,482,001)	(56,563,139)	96,482,001	(139,778,137)	14,730,349		191,281,094		9,504,371	(499,241)	

Wastewater

Industrial/Office/Institutional Development Charge Calculation

Assumptions							
Gross Population Growth		79,831,360					
Inflation		2.71%					
Interest	Earned	Charged					
Opening Balance	1.90% - 2.95%	3.30% - 4.35%					
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%					
New Debt Term (Years)	20						
New Debt interest	From 3.30% to 4.35%						
Target Reserve Balance 2041	\$190,222,964						
Discount Rate Applied to Post 2041 Debt Paym	ents 2.95%						

Calculated Development Charge per sqft	\$6.69	

	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(14,366,894)	(12,031,312)	(12,031,312)	(16,672,416)	12,031,312	(198,517)	4,021,383	6.69	26,920,809	10,049,876	(474,107)	95,474	(4,695,652)
2023	(4,695,652)	(14,516,867)	(14,909,881)	(16,672,416)	14,909,881	(1,138,317)	4,021,383	6.88	27,649,633	9,838,900	(159,652)	98,389	5,081,985
2024	5,081,985	(20,325,074)	(21,440,489)	(16,672,416)	21,440,489	(2,360,147)	4,021,383	7.06	28,398,190	9,365,626	104,181	95,998	14,647,789
2025	14,647,789	(24,058,982)	(26,066,401)	(16,672,416)	26,066,401	(4,049,040)	4,021,383	7.25	29,167,011	8,445,555	314,927	90,790	23,499,062
2026	23,499,062	(34,332,999)	(38,204,705)	(16,762,363)	38,204,705	(6,230,140)	3,963,103	7.45	29,522,493	6,529,989	516,979	71,830	30,617,860
2027	30,617,860	(37,781,099)	(43,179,834)	(17,003,832)	43,179,834	(9,219,799)	3,827,293	7.65	29,282,672	3,059,042	704,211	35,179	34,416,292
2028	34,416,292	(29,985,515)	(35,198,097)	(17,104,774)	35,198,097	(12,360,466)	3,827,293	7.86	30,075,439	610,199	808,783	7,170	35,842,444
2029	35,842,444	(21,031,757)	(25,356,220)	(16,781,460)	25,356,220	(14,872,627)	3,827,293	8.07	30,889,669	(764,417)	878,140	(14,715)	35,941,451
2030	35,941,451	(19,413,851)	(24,039,305)	(14,028,514)	24,039,305	(16,826,338)	3,827,293	8.29	31,725,943	871,091	970,419	11,760	37,794,722
2031	37,794,722	(13,136,388)	(16,706,577)	(11,764,087)	16,706,577	(18,581,711)	4,037,794	8.51	34,377,024	4,031,226	1,114,944	59,461	43,000,352
2032	43,000,352	(9,297,496)	(12,144,475)	(10,227,297)	12,144,475	(19,818,422)	4,161,884	8.74	36,392,795	6,347,076	1,268,510	93,619	50,709,558
2033	50,709,558	(11,154,517)	(14,964,591)	(8,271,212)	14,964,591	(20,850,889)	4,161,884	8.98	37,378,054	8,255,953	1,495,932	121,775	60,583,218
2034	60,583,218	(5,830,014)	(8,033,132)	(6,626,290)	8,033,132	(21,896,769)	4,161,884	9.22	38,389,987	9,866,928	1,787,205	145,537	72,382,888
2035	72,382,888	(10,866,842)	(15,378,712)	(4,486,630)	15,378,712	(22,698,902)	4,161,884	9.47	39,429,316	12,243,784	2,135,295	180,596	86,942,563
2036	86,942,563	(9,802,769)	(14,248,418)	(3,607,316)	14,248,418	(23,904,073)	4,293,709	9.73	41,779,486	14,268,097	2,564,806	210,454	103,985,920
2037	103,985,920	(5,192,638)	(7,751,883)	(2,779,647)	7,751,883	(24,902,144)	4,334,163	9.99	43,314,867	15,633,076	3,067,585	230,588	122,917,168
2038	122,917,168	(3,228,241)	(4,949,786)	(2,121,377)	4,949,786	(25,461,076)	4,334,163	10.26	44,487,527	16,905,074	3,626,056	249,350	143,697,648
2039	143,697,648	(3,416,563)	(5,380,357)	(2,121,377)	5,380,357	(25,866,249)	4,334,163	10.54	45,691,934	17,704,308	4,239,081	261,139	165,902,175
2040	165,902,175	(3,595,696)	(5,815,753)	(2,121,377)	5,815,753	(26,305,957)	4,334,163	10.83	46,928,948	18,501,613	4,894,114	272,899	189,570,800
2041	189,570,800	(3,354,579)	(5,572,656)	(3,497,019)	5,572,656	(211,508,857)	2,157,860	11.12	23,997,176	(191,008,700)	5,592,339	(4,154,439)	0
Total		(292,353,199)	(351,372,584)	(205,994,238)	351,372,584	(509,050,439)	79,831,360		695,798,972		35,449,747	(1,837,148)	

Table 10-8

Wastewater

Hotel Development Charge Calculation

Assumptions							
Total GFA Growth 1,554,0							
Inflation		2.71%					
Interest	Earned	Charged					
Opening Balance	1.90% - 2.95%	3.30% - 4.35%					
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%					
New Debt Term (Years)	20						
New Debt interest From 3.30% to 4.3							
Target Reserve Balance 2041		\$1,184,644					
Discount Rate Applied to Post 2041 Debt Payments 2.9							

	Calculated Development Charge per sqft	\$2.14
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	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(89,472)	(74,927)	(74,927)	(103,830)	74,927	(1,236)	72,000	2.14	154,181	49,115	(2,953)	467	(42,843)
2023	(42,843)	(90,406)	(92,854)	(103,830)	92,854	(7,089)	72,000	2.20	158,355	47,436	(1,457)	474	3,610
2024	3,610	(126,578)	(133,524)	(103,830)	133,524	(14,698)	72,000	2.26	162,642	44,114	74	452	48,251
2025	48,251	(149,831)	(162,333)	(103,830)	162,333	(25,216)	72,000	2.32	167,046	37,999	1,037	408	87,696
2026	87,696	(213,814)	(237,926)	(104,390)	237,926	(38,799)	74,000	2.38	176,334	33,144	1,929	365	123,134
2027	123,134	(235,288)	(268,909)	(105,894)	268,909	(57,418)	74,000	2.45	181,108	17,796	2,832	205	143,967
2028	143,967	(186,740)	(219,202)	(106,523)	219,202	(76,977)	74,000	2.51	186,011	2,511	3,383	30	149,891
2029	149,891	(130,979)	(157,910)	(104,509)	157,910	(92,622)	74,000	2.58	191,047	(6,084)	3,672	(117)	147,362
2030	147,362	(120,903)	(149,709)	(87,365)	149,709	(104,789)	74,000	2.65	196,219	4,065	3,979	55	155,461
2031	155,461	(81,809)	(104,043)	(73,263)	104,043	(115,721)	78,000	2.72	212,425	23,441	4,586	346	183,834
2032	183,834	(57,902)	(75,632)	(63,692)	75,632	(123,422)	84,000	2.80	234,958	47,844	5,423	706	237,807
2033	237,807	(69,467)	(93,194)	(51,510)	93,194	(129,852)	84,000	2.87	241,319	59,957	7,015	884	305,663
2034	305,663	(36,307)	(50,028)	(41,266)	50,028	(136,366)	84,000	2.95	247,853	70,221	9,017	1,036	385,937
2035	385,937	(67,675)	(95,773)	(27,941)	95,773	(141,361)	84,000	3.03	254,563	85,260	11,385	1,258	483,840
2036	483,840	(61,048)	(88,734)	(22,465)	88,734	(148,866)	86,000	3.11	267,679	96,348	14,273	1,421	595,882
2037	595,882	(32,338)	(48,276)	(17,311)	48,276	(155,082)	88,000	3.20	281,320	108,927	17,579	1,607	723,995
2038	723,995	(20,104)	(30,826)	(13,211)	30,826	(158,563)	88,000	3.28	288,936	117,162	21,358	1,728	864,243
2039	864,243	(21,277)	(33,507)	(13,211)	33,507	(161,086)	88,000	3.37	296,758	122,461	25,495	1,806	1,014,005
2040	1,014,005	(22,393)	(36,219)	(13,211)	36,219	(163,825)	88,000	3.46	304,793	127,757	29,913	1,884	1,173,560
2041	1,173,560	(20,891)	(34,705)	(21,778)	34,705	(1,317,205)	44,000	3.56	156,522	(1,182,461)	34,620	(25,719)	0
Total		(1,820,676)	(2,188,228)	(1,282,862)	2,188,228	(3,170,192)	1,554,000		4,360,068		193,163	(10,705)	

Roads Residential Development Charge Calculation

Assumptio	ons	
Gross Population Growth		476,277
Inflation		2.71%
Interest	Earned	Charged
Opening Balance	1.90% - 2.95%	3.30% - 4.35%
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%
New Debt Term (Years)		20
New Debt interest	Fr	om 3.30% to 4.35%
Target Reserve Balance 2041		\$2,590,492,489
Discount Rate Applied to Post 2041 Debt Paym	ents	2.95%

	Calculated Development Charge per Capita	\$6,758
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	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	407,327,188	(124,922,673)	(124,922,673)	(52,877,184)	124,922,673	(2,061,224)	20,326	6,758	137,360,011	82,421,604	7,739,217	783,005	498,271,014
2023	498,271,014	(136,994,066)	(140,702,895)	(52,877,184)	140,702,895	(11,579,457)	20,326	6,941	141,078,748	76,622,107	9,965,420	766,221	585,624,763
2024	585,624,763	(145,307,900)	(153,282,219)	(52,877,184)	153,282,219	(22,263,630)	20,326	7,129	144,898,161	69,757,347	12,005,308	715,013	668,102,430
2025	668,102,430	(145,144,882)	(157,255,396)	(52,877,184)	157,255,396	(33,821,355)	20,326	7,322	148,820,977	62,122,438	14,364,202	667,816	745,256,887
2026	745,256,887	(148,229,588)	(164,945,325)	(47,436,349)	164,945,325	(45,799,965)	21,883	7,520	164,558,518	71,322,204	16,395,652	784,544	833,759,287
2027	833,759,287	(135,868,519)	(155,283,470)	(38,902,839)	155,283,470	(58,131,424)	23,439	7,724	181,031,380	83,997,117	19,176,464	965,967	937,898,834
2028	937,898,834	(136,085,895)	(159,742,610)	(33,602,998)	159,742,610	(70,047,710)	23,439	7,933	185,932,428	82,281,719	22,040,623	966,810	1,043,187,986
2029	1,043,187,986	(105,017,048)	(126,610,215)	(32,548,634)	126,610,215	(81,670,897)	23,439	8,147	190,966,161	76,746,630	25,558,106	940,146	1,146,432,868
2030	1,146,432,868	(104,764,611)	(129,725,342)	(23,212,211)	129,725,342	(91,624,946)	23,439	8,368	196,136,172	81,299,015	30,953,687	1,097,537	1,259,783,107
2031	1,259,783,107	(208,387,282)	(265,022,475)	(12,354,800)	265,022,475	(104,900,979)	25,131	8,594	215,988,020	98,732,241	37,163,602	1,456,301	1,397,135,250
2032	1,397,135,250	(141,395,046)	(184,691,524)	(7,599,016)	184,691,524	(124,346,229)	26,823	8,827	236,771,006	104,825,761	41,215,490	1,546,180	1,544,722,681
2033	1,544,722,681	(127,092,601)	(170,503,900)	(6,813,919)	170,503,900	(138,806,454)	26,823	9,066	243,181,087	97,560,714	45,569,319	1,439,021	1,689,291,734
2034	1,689,291,734	(122,920,537)	(169,371,282)	(3,813,951)	169,371,282	(152,416,117)	26,823	9,312	249,764,709	93,534,641	49,834,106	1,379,636	1,834,040,117
2035	1,834,040,117	(113,987,039)	(161,314,006)	(1,914,613)	161,314,006	(165,784,598)	26,823	9,564	256,526,568	88,827,357	54,104,183	1,310,204	1,978,281,861
2036	1,978,281,861	(128,585,089)	(186,899,652)	(1,101,621)	186,899,652	(179,240,516)	26,761	9,823	262,862,489	82,520,352	58,359,315	1,217,175	2,120,378,703
2037	2,120,378,703	(148,136,511)	(221,147,111)	(793,321)	221,147,111	(194,930,777)	26,700	10,089	269,363,544	73,639,446	62,551,172	1,086,182	2,257,655,503
2038	2,257,655,503	(124,638,559)	(191,105,355)	(793,321)	191,105,355	(211,961,336)	26,700	10,362	276,656,000	63,901,344	66,600,837	942,545	2,389,100,229
2039	2,389,100,229	(163,784,619)	(257,925,825)	(793,321)	257,925,825	(228,696,367)	26,700	10,642	284,145,885	54,656,197	70,478,457	806,179	2,515,041,062
2040	2,515,041,062	(138,831,666)	(224,549,206)	(793,321)	224,549,206	(248,595,392)	26,700	10,930	291,838,543	42,449,830	74,193,711	626,135	2,632,310,739
2041	2,632,310,739	(123,436,639)	(205,054,052)	(670,572)	205,054,052	(2,801,476,043)	13,350	11,226	149,869,732	(2,652,276,883)	77,653,167	(57,687,022)	(0)
Total		(2,723,530,771)	(3,550,054,535)	(424,653,539)	3,550,054,535	(4,968,155,415)	476,277		4,227,750,136		795,922,037	(38,190,406)	

Roads Retail Development Charge Calculation

Assumptio	ons	
Total GFA Growth		14,730,349
Inflation		2.71%
Interest	Earned	Charged
Opening Balance	1.90% - 2.95%	3.30% - 4.35%
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%
New Debt Term (Years)		20
New Debt interest	Fr	om 3.30% to 4.35%
Target Reserve Balance 2041		\$309,408,130
Discount Rate Applied to Post 2041 Debt Payme	ents	2.95%

Calculated Development Charge per sqft \$27.21

	Development		Developr	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	32,242,148	(14,920,750)	(14,920,750)	(6,315,645)	14,920,750	(246,192)	736,966	27.21	20,053,206	13,491,369	612,601	128,168	46,474,286
2023	46,474,286	(16,362,556)	(16,805,538)	(6,315,645)	16,805,538	(1,383,049)	737,005	27.95	20,597,181	12,898,487	929,486	128,985	60,431,244
2024	60,431,244	(17,355,559)	(18,308,011)	(6,315,645)	18,308,011	(2,659,165)	736,966	28.70	21,153,701	12,178,891	1,238,840	124,834	73,973,809
2025	73,973,809	(17,336,088)	(18,782,567)	(6,315,645)	18,782,567	(4,039,619)	736,966	29.48	21,726,394	11,371,130	1,590,437	122,240	87,057,616
2026	87,057,616	(17,704,525)	(19,701,051)	(5,665,792)	19,701,051	(5,470,343)	725,783	30.28	21,975,966	10,839,831	1,915,268	119,238	99,931,952
2027	99,931,952	(16,228,121)	(18,547,040)	(4,646,551)	18,547,040	(6,943,211)	697,281	31.10	21,684,548	10,094,787	2,298,435	116,090	112,441,264
2028	112,441,264	(16,254,084)	(19,079,639)	(4,013,538)	19,079,639	(8,366,491)	697,242	31.94	22,270,382	9,890,354	2,642,370	116,212	125,090,199
2029	125,090,199	(12,543,224)	(15,122,310)	(3,887,605)	15,122,310	(9,754,763)	697,281	32.81	22,874,570	9,232,202	3,064,710	113,094	137,500,205
2030	137,500,205	(12,513,073)	(15,494,380)	(2,772,464)	15,494,380	(10,943,673)	697,242	33.69	23,492,554	9,776,417	3,712,506	131,982	151,121,109
2031	151,121,109	(24,889,753)	(31,654,254)	(1,475,656)	31,654,254	(12,529,361)	735,504	34.61	25,452,652	11,447,635	4,458,073	168,853	167,195,669
2032	167,195,669	(16,888,208)	(22,059,535)	(907,626)	22,059,535	(14,851,900)	775,604	35.54	27,566,958	11,807,432	4,932,272	174,160	184,109,534
2033	184,109,534	(15,179,926)	(20,364,967)	(813,854)	20,364,967	(16,579,027)	775,604	36.50	28,313,276	10,920,395	5,431,231	161,076	200,622,235
2034	200,622,235	(14,681,615)	(20,229,687)	(455,538)	20,229,687	(18,204,564)	775,604	37.49	29,079,798	10,419,697	5,918,356	153,691	217,113,979
2035	217,113,979	(13,614,599)	(19,267,327)	(228,681)	19,267,327	(19,801,294)	775,604	38.51	29,867,073	9,837,099	6,404,862	145,097	233,501,037
2036	233,501,037	(15,358,189)	(22,323,273)	(131,578)	22,323,273	(21,408,467)	800,261	39.55	31,650,887	10,110,842	6,888,281	149,135	250,649,295
2037	250,649,295	(17,693,408)	(26,413,786)	(94,754)	26,413,786	(23,282,510)	806,907	40.62	32,777,711	9,400,447	7,394,154	138,657	267,582,553
2038	267,582,553	(14,886,815)	(22,825,602)	(94,754)	22,825,602	(25,316,638)	806,945	41.72	33,666,706	8,255,314	7,893,685	121,766	283,853,318
2039	283,853,318	(19,562,416)	(30,806,631)	(94,754)	30,806,631	(27,315,468)	806,907	42.85	34,576,512	7,166,289	8,373,673	105,703	299,498,983
2040	299,498,983	(16,582,038)	(26,820,132)	(94,754)	26,820,132	(29,692,206)	806,945	44.01	35,514,293	5,727,334	8,835,220	84,478	314,146,015
2041	314,146,015	(14,743,258)	(24,491,633)	(80,093)	24,491,633	(334,607,981)	401,733	45.20	18,159,254	(316,528,820)	9,267,307	(6,884,502)	(0)
Total		(325,298,207)	(424,018,112)	(50,720,571)	424,018,112	(593,395,920)	14,730,349		522,453,622		93,801,766	(4,381,046)	

Roads

Industrial/Office/Institutional Development Charge Calculation

Gross Population Growth		79,831,360
Inflation		2.71%
Interest	Earned	Charged
Opening Balance	1.90% - 2.95%	3.30% - 4.35%
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%
New Debt Term (Years)		20
New Debt interest	Fr	om 3.30% to 4.35%
Target Reserve Balance 2041		\$554,028,943
Discount Rate Applied to Post 2041 Deb	t Payments	2.95%

Calculated Development Charge per sqft	\$8.62

	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	87,900,695	(26,717,227)	(26,717,227)	(11,308,850)	26,717,227	(440,834)	4,021,383	8.62	34,655,914	22,906,230	1,670,113	217,609	112,694,647
2023	112,694,647	(29,298,937)	(30,092,145)	(11,308,850)	30,092,145	(2,476,500)	4,021,383	8.85	35,594,150	21,808,801	2,253,893	218,088	136,975,429
2024	136,975,429	(31,077,018)	(32,782,487)	(11,308,850)	32,782,487	(4,761,525)	4,021,383	9.09	36,557,788	20,487,413	2,807,996	209,996	160,480,834
2025	160,480,834	(31,042,153)	(33,632,231)	(11,308,850)	33,632,231	(7,233,377)	4,021,383	9.34	37,547,514	19,005,287	3,450,338	204,307	183,140,766
2026	183,140,766	(31,701,880)	(35,276,877)	(10,145,218)	35,276,877	(9,795,244)	3,963,103	9.59	38,005,136	18,064,674	4,029,097	198,711	205,433,248
2027	205,433,248	(29,058,217)	(33,210,495)	(8,320,155)	33,210,495	(12,432,575)	3,827,293	9.85	37,696,407	16,943,677	4,724,965	194,852	227,296,743
2028	227,296,743	(29,104,707)	(34,164,171)	(7,186,677)	34,164,171	(14,981,112)	3,827,293	10.12	38,716,959	16,549,169	5,341,473	194,453	249,381,838
2029	249,381,838	(22,460,009)	(27,078,142)	(6,961,180)	27,078,142	(17,466,965)	3,827,293	10.39	39,765,140	15,336,995	6,109,855	187,878	271,016,566
2030	271,016,566	(22,406,020)	(27,744,375)	(4,964,398)	27,744,375	(19,595,838)	3,827,293	10.67	40,841,698	16,281,461	7,317,447	219,800	294,835,275
2031	294,835,275	(44,567,813)	(56,680,389)	(2,642,323)	56,680,389	(22,435,185)	4,037,794	10.96	44,254,509	19,177,002	8,697,641	282,861	322,992,778
2032	322,992,778	(30,240,176)	(39,499,999)	(1,625,203)	39,499,999	(26,593,943)	4,161,884	11.26	46,849,468	18,630,322	9,528,287	274,797	351,426,184
2033	351,426,184	(27,181,310)	(36,465,690)	(1,457,294)	36,465,690	(29,686,553)	4,161,884	11.56	48,117,819	16,973,973	10,367,072	250,366	379,017,595
2034	379,017,595	(26,289,030)	(36,223,457)	(815,690)	36,223,457	(32,597,253)	4,161,884	11.87	49,420,509	16,007,566	11,181,019	236,112	406,442,291
2035	406,442,291	(24,378,422)	(34,500,246)	(409,478)	34,500,246	(35,456,372)	4,161,884	12.20	50,758,466	14,892,616	11,990,048	219,666	433,544,621
2036	433,544,621	(27,500,509)	(39,972,251)	(235,604)	39,972,251	(38,334,191)	4,293,709	12.53	53,783,907	15,214,112	12,789,566	224,408	461,772,707
2037	461,772,707	(31,681,974)	(47,296,759)	(169,668)	47,296,759	(41,689,869)	4,334,163	12.87	55,760,446	13,900,909	13,622,295	205,038	489,500,950
2038	489,500,950	(26,656,464)	(40,871,725)	(169,668)	40,871,725	(45,332,197)	4,334,163	13.21	57,270,044	11,768,180	14,440,278	173,581	515,882,988
2039	515,882,988	(35,028,636)	(55,162,628)	(169,668)	55,162,628	(48,911,320)	4,334,163	13.57	58,820,511	9,739,523	15,218,548	143,658	540,984,717
2040	540,984,717	(29,691,945)	(48,024,366)	(169,668)	48,024,366	(53,167,127)	4,334,163	13.94	60,412,954	7,076,159	15,959,049	104,373	564,124,299
2041	564,124,299	(26,399,409)	(43,854,935)	(143,415)	43,854,935	(599,152,021)	2,157,860	14.32	30,892,240	(568,403,196)	16,641,667	(12,362,770)	(0)
Total		(582,481,856)	(759,250,594)	(90,820,704)	759,250,594	(1,062,540,001)	79,831,360		895,721,578		178,140,648	(8,402,215)	

Roads Hotel Development Charge Calculation

Assumptio	ons	
Total GFA Growth		1,554,000
Inflation		2.71%
Interest	Earned	Charged
Opening Balance	1.90% - 2.95%	3.30% - 4.35%
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%
New Debt Term (Years)		20
New Debt interest	Fr	om 3.30% to 4.35%
Target Reserve Balance 2041		\$5,738,788
Discount Rate Applied to Post 2041 Debt Paym	ents	2.95%

Calculated Development Charge per sqft \$4.50

	Development		Developr	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	1,036,631	(276,745)	(276,745)	(117,140)	276,745	(4,566)	72,000	4.50	324,353	202,647	19,696	1,925	1,260,899
2023	1,260,899	(303,487)	(311,703)	(117,140)	311,703	(25,652)	72,000	4.63	333,135	190,342	25,218	1,903	1,478,362
2024	1,478,362	(321,905)	(339,570)	(117,140)	339,570	(49,321)	72,000	4.75	342,153	175,692	30,306	1,801	1,686,161
2025	1,686,161	(321,543)	(348,372)	(117,140)	348,372	(74,925)	72,000	4.88	351,417	159,351	36,252	1,713	1,883,478
2026	1,883,478	(328,377)	(365,408)	(105,087)	365,408	(101,462)	74,000	5.01	370,956	164,407	41,437	1,808	2,091,130
2027	2,091,130	(300,993)	(344,004)	(86,183)	344,004	(128,780)	74,000	5.15	380,999	166,037	48,096	1,909	2,307,172
2028	2,307,172	(301,475)	(353,882)	(74,442)	353,882	(155,179)	74,000	5.29	391,314	161,694	54,219	1,900	2,524,984
2029	2,524,984	(232,647)	(280,483)	(72,106)	280,483	(180,928)	74,000	5.43	401,908	148,874	61,862	1,824	2,737,544
2030	2,737,544	(232,088)	(287,384)	(51,423)	287,384	(202,979)	74,000	5.58	412,789	158,387	73,914	2,138	2,971,983
2031	2,971,983	(461,646)	(587,111)	(27,370)	587,111	(232,390)	78,000	5.73	446,881	187,121	87,674	2,760	3,249,538
2032	3,249,538	(313,236)	(409,152)	(16,834)	409,152	(275,468)	84,000	5.88	494,286	201,984	95,861	2,979	3,550,362
2033	3,550,362	(281,552)	(377,722)	(15,095)	377,722	(307,502)	84,000	6.04	507,667	185,071	104,736	2,730	3,842,899
2034	3,842,899	(272,309)	(375,213)	(8,449)	375,213	(337,652)	84,000	6.21	521,411	175,311	113,366	2,586	4,134,161
2035	4,134,161	(252,519)	(357,363)	(4,241)	357,363	(367,267)	84,000	6.38	535,528	164,019	121,958	2,419	4,422,557
2036	4,422,557	(284,858)	(414,044)	(2,440)	414,044	(397,076)	86,000	6.55	563,122	163,605	130,465	2,413	4,719,040
2037	4,719,040	(328,171)	(489,913)	(1,757)	489,913	(431,835)	88,000	6.73	591,817	158,225	139,212	2,334	5,018,810
2038	5,018,810	(276,115)	(423,361)	(1,757)	423,361	(469,564)	88,000	6.91	607,840	136,519	148,055	2,014	5,305,397
2039	5,305,397	(362,836)	(571,390)	(1,757)	571,390	(506,637)	88,000	7.09	624,296	115,901	156,509	1,710	5,579,517
2040	5,579,517	(307,558)	(497,450)	(1,757)	497,450	(550,720)	88,000	7.29	641,197	88,720	164,596	1,309	5,834,141
2041	5,834,141	(273,453)	(454,262)	(1,486)	454,262	(6,206,186)	44,000	7.48	329,278	(5,878,393)	172,107	(127,855)	0
Total		(6,033,511)	(7,864,532)	(940,746)	7,864,532	(11,006,089)	1,554,000		9,172,347		1,825,538	(87,680)	

Transit Residential Development Charge Calculation

Assumptions										
Total GFA Growth		222,074								
Inflation		2.71%								
Interest	Earned	Charged								
Opening Balance	1.35% - 2.60%	2.75% - 4.00%								
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%								
New Debt Term (Years)	1									
New Debt interest	From 2.75% to 4.00									
Target Reserve Balance 2031 \$401,618										
Discount Rate Applied to Post 2031 Debt Paym	ents 2.60%									

Calculated Development Charge per Capita	\$2,002

	Development		Developn	nent Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	In Year Interest Revenue/(Expense)		
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	16,829,037	(15,655,055)	(15,655,055)	(198,012)	15,655,055	(215,257)	20,326	2,002	40,698,093	40,284,824	227,192	271,923	57,612,976
2023	57,612,976	(29,895,999)	(30,705,371)	(195,210)	30,705,371	(2,331,810)	20,326	2,056	41,799,909	39,272,890	864,195	294,547	98,044,606
2024	98,044,606	(16,806,561)	(17,728,884)	(86,548)	17,728,884	(5,888,255)	20,326	2,112	42,931,555	36,956,752	1,666,758	314,132	136,982,250
2025	136,982,250	(14,756,995)	(15,988,281)	(86,548)	15,988,281	(8,041,687)	20,326	2,169	44,093,837	35,965,603	2,465,680	323,690	175,737,223
2026	175,737,223	(11,467,969)	(12,761,203)	(86,548)	12,761,203	(9,961,688)	21,883	2,228	48,756,678	38,708,442	3,251,139	358,053	218,054,857
2027	218,054,857	(36,992,911)	(42,279,019)	(86,548)	42,279,019	(12,037,350)	23,439	2,288	53,637,386	41,513,489	4,252,070	404,757	264,225,172
2028	264,225,172	(46,327,257)	(54,380,631)	(86,548)	54,380,631	(17,496,019)	23,439	2,350	55,089,507	37,506,939	5,284,503	375,069	307,391,684
2029	307,391,684	(73,095,729)	(88,125,368)	(86,548)	88,125,368	(24,872,585)	23,439	2,414	56,580,940	31,621,807	6,455,225	332,029	345,800,746
2030	345,800,746	(75,285,196)	(93,222,298)	(86,548)	93,222,298	(36,082,958)	23,439	2,479	58,112,751	21,943,245	8,126,318	257,833	376,128,141
2031	376,128,141	(89,841,624)	(114,258,650)	(312,398)	114,258,650	(442,022,873)	25,131	2,546	63,994,611	(378,340,660)	9,779,332	(7,566,813)	0
Total		(410,125,295)	(485,104,758)	(1,311,454)	485,104,758	(558,950,483)	222,074		505,695,268		42,372,412	(4,634,780)	

Transit Retail Development Charge Calculation

Assumptions									
Total GFA Growth									
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)	10								
New Debt interest	From 2.75% to 4.00%								
Target Reserve Balance 2031	\$50,339,114								
Discount Rate Applied to Post 2031 Debt Payments 2.6									
5									

Calculated Development charge per squ	Calculated Development Charge per sqft	\$7.86
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	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Revenue/(Expense)		
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	1,372,822	(1,962,215)	(1,962,215)	(24,819)	1,962,215	(26,980)	736,966	7.86	5,790,103	5,738,304	18,533	38,734	7,168,393
2023	7,168,393	(3,747,185)	(3,848,632)	(24,468)	3,848,632	(292,271)	737,005	8.07	5,947,169	5,630,431	107,526	42,228	12,948,578
2024	12,948,578	(2,106,546)	(2,222,150)	(10,848)	2,222,150	(738,038)	736,966	8.29	6,107,857	5,358,971	220,126	45,551	18,573,226
2025	18,573,226	(1,849,652)	(2,003,982)	(10,848)	2,003,982	(1,007,951)	736,966	8.51	6,273,215	5,254,416	334,318	47,290	24,209,250
2026	24,209,250	(1,437,403)	(1,599,498)	(10,848)	1,599,498	(1,248,605)	725,783	8.74	6,345,275	5,085,823	447,871	47,044	29,789,988
2027	29,789,988	(4,636,717)	(5,299,281)	(10,848)	5,299,281	(1,508,770)	697,281	8.98	6,261,132	4,741,515	580,905	46,230	35,158,637
2028	35,158,637	(5,806,690)	(6,816,106)	(10,848)	6,816,106	(2,192,963)	697,242	9.22	6,430,284	4,226,473	703,173	42,265	40,130,548
2029	40,130,548	(9,161,869)	(11,045,694)	(10,848)	11,045,694	(3,117,547)	697,281	9.47	6,604,736	3,476,341	842,742	36,502	44,486,132
2030	44,486,132	(9,436,298)	(11,684,547)	(10,848)	11,684,547	(4,522,663)	697,242	9.73	6,783,171	2,249,660	1,045,424	26,434	47,807,650
2031	47,807,650	(11,260,811)	(14,321,257)	(39,155)	14,321,257	(55,398,839)	735,504	9.99	7,349,124	(48,088,871)	1,242,999	(961,777)	0
Total		(51,405,386)	(60,803,363)	(164,377)	60,803,363	(70,054,626)	7,198,237		63,892,067		5,543,616	(589,501)	

Assumptions										
Total GFA Growth 39,39										
Inflation	2.71									
Interest	Earned	Charged								
Opening Balance	1.35% - 2.60%	2.75% - 4.00%								
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%								
New Debt Term (Years)		10								
New Debt interest	Fr	om 2.75% to 4.00%								
Target Reserve Balance 2031		\$89,891,379								
Discount Rate Applied to Post 2031 Debt Paym	ents	2.60%								

Calculated Development Charge per sqft	\$2.54
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	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	Development Charge Reserve
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	
2022	3,539,317	(3,503,960)	(3,503,960)	(44,320)	3,503,960	(48,179)	4,021,383	2.54	10,200,887	10,108,388	47,781	68,232	13,763,717
2023	13,763,717	(6,691,410)	(6,872,565)	(43,692)	6,872,565	(521,912)	4,021,383	2.61	10,477,055	9,911,450	206,456	74,336	23,955,958
2024	23,955,958	(3,761,693)	(3,968,130)	(19,371)	3,968,130	(1,317,926)	4,021,383	2.68	10,760,699	9,423,401	407,251	80,099	33,866,710
2025	33,866,710	(3,302,954)	(3,578,543)	(19,371)	3,578,543	(1,799,914)	4,021,383	2.75	11,052,023	9,232,737	609,601	83,095	43,792,143
2026	43,792,143	(2,566,794)	(2,856,249)	(19,371)	2,856,249	(2,229,654)	3,963,103	2.82	11,186,722	8,937,697	810,155	82,674	53,622,668
2027	53,622,668	(8,279,861)	(9,463,013)	(19,371)	9,463,013	(2,694,235)	3,827,293	2.90	11,095,849	8,382,243	1,045,642	81,727	63,132,280
2028	63,132,280	(10,369,101)	(12,171,631)	(19,371)	12,171,631	(3,916,010)	3,827,293	2.98	11,396,246	7,460,865	1,262,646	74,609	71,930,398
2029	71,930,398	(16,360,499)	(19,724,476)	(19,371)	19,724,476	(5,567,054)	3,827,293	3.06	11,704,775	6,118,350	1,510,538	64,243	79,623,529
2030	79,623,529	(16,850,552)	(20,865,286)	(19,371)	20,865,286	(8,076,193)	3,827,293	3.14	12,021,658	3,926,094	1,871,153	46,132	85,466,908
2031	85,466,908	(20,108,614)	(25,573,703)	(69,920)	25,573,703	(98,925,945)	4,037,794	3.23	13,026,211	(85,969,654)	2,222,140	(1,719,393)	0
Total		(91,795,437)	(108,577,559)	(293,531)	108,577,559	(125,097,023)	39,395,602		112,922,124		9,993,362	(1,064,249)	

Assumptions									
736,00									
	2.71%								
Earned	Charged								
1.35% - 2.60%	2.75% - 4.00%								
0.68% - 1.30% 1.38% - 2.00									
	10								
Fr	om 2.75% to 4.00%								
	\$905,770								
ients	2.60%								
	Earned 1.35% - 2.60% 0.68% - 1.30%								

Calculated Development Charge per sqft \$1.3

	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft		Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	47,787	(35,307)	(35,307)	(447)	35,307	(485)	72,000	1.35	97,288	96,356	645	650	145,438
2023	145,438	(67,424)	(69,250)	(440)	69,250	(5,259)	72,000	1.39	99,922	94,223	2,182	707	242,550
2024	242,550	(37,904)	(39,984)	(195)	39,984	(13,280)	72,000	1.43	102,627	89,152	4,123	758	336,583
2025	336,583	(33,281)	(36,058)	(195)	36,058	(18,136)	72,000	1.46	105,406	87,074	6,058	784	430,500
2026	430,500	(25,864)	(28,780)	(195)	28,780	(22,467)	74,000	1.50	111,267	88,605	7,964	820	527,888
2027	527,888	(83,430)	(95,352)	(195)	95,352	(27,148)	74,000	1.54	114,279	86,936	10,294	848	625,966
2028	625,966	(104,482)	(122,645)	(195)	122,645	(39,459)	74,000	1.59	117,373	77,719	12,519	777	716,981
2029	716,981	(164,853)	(198,749)	(195)	198,749	(56,095)	74,000	1.63	120,550	64,260	15,057	675	796,973
2030	796,973	(169,791)	(210,244)	(195)	210,244	(81,378)	74,000	1.67	123,814	42,241	18,729	496	858,439
2031	858,439	(202,620)	(257,688)	(705)	257,688	(996,824)	78,000	1.72	134,040	(863,488)	22,319	(17,270)	0
Total		(924,956)	(1,094,057)	(2,958)	1,094,057	(1,260,531)	736,000		1,126,567		99,891	(10,756)	

Assumptions									
Total GFA Growth	222,07								
Inflation	2.71								
Interest	Earned	Charged							
Opening Balance	1.90% - 2.95%	3.30% - 4.35%							
In-year Transactions	0.95% - 1.48% 1.65% - 2.18								
New Debt Term (Years)		20							
New Debt interest	Fr	om 3.30% to 4.35%							
Target Reserve Balance 2031		\$72,191,651							
Discount Rate Applied to Post 2031 Debt Paym	ents	2.95%							

Calculated Development Charge per Capita	\$928

	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	10,147,010	(2,690,224)	(2,690,224)	(17,445,308)	2,690,224	(44,389)	20,326	928	18,861,953	1,372,255	192,793	13,036	11,725,095
2023	11,725,095	0	0	(17,445,308)	0	(197,854)	20,326	953	19,372,601	1,729,438	234,502	17,294	13,706,329
2024	13,706,329	0	0	(17,445,308)	0	(197,854)	20,326	979	19,897,074	2,253,911	280,980	23,103	16,264,323
2025	16,264,323	0	0	(17,445,308)	0	(197,854)	20,326	1,005	20,435,745	2,792,583	349,683	30,020	19,436,609
2026	19,436,609	0	0	(17,667,689)	0	(197,854)	21,883	1,033	22,596,787	4,731,244	427,605	52,044	24,647,502
2027	24,647,502	0	0	(17,934,005)	0	(197,854)	23,439	1,061	24,858,802	6,726,942	566,893	77,360	32,018,697
2028	32,018,697	0	0	(18,761,350)	0	(197,854)	23,439	1,089	25,531,802	6,572,598	752,439	77,228	39,420,962
2029	39,420,962	0	0	(18,702,368)	0	(197,854)	23,439	1,119	26,223,023	7,322,800	965,814	89,704	47,799,280
2030	47,799,280	0	0	(18,320,784)	0	(197,854)	23,439	1,149	26,932,956	8,414,318	1,290,581	113,593	57,617,773
2031	57,617,773	0	0	(85,708,450)	0	(2,005,320)	25,131	1,180	29,658,965	(58,054,805)	1,699,724	(1,262,692)	(0)
Total		(2,690,224)	(2,690,224)	(246,875,881)	2,690,224	(3,632,541)	222,074		234,369,708		6,761,014	(769,309)	

Assumptions								
Total GFA Growth	7,198,237							
Inflation		2.71%						
Interest	Earned	Charged						
Opening Balance	1.90% - 2.95%	3.30% - 4.35%						
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%						
New Debt Term (Years)		20						
New Debt interest	Fr	om 3.30% to 4.35%						
Target Reserve Balance 2031		\$9,048,551						
Discount Rate Applied to Post 2031 Debt P	ayments	2.95%						

Calculated Development Charge per sqft	\$3.66

	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	740,855	(337,195)	(337,195)	(2,186,607)	337,195	(5,564)	736,966	3.66	2,700,956	508,785	14,076	4,833	1,268,550
2023	1,268,550	0	0	(2,186,607)	0	(24,799)	737,005	3.76	2,774,224	562,817	25,371	5,628	1,862,367
2024	1,862,367	0	0	(2,186,607)	0	(24,799)	736,966	3.87	2,849,181	637,775	38,179	6,537	2,544,858
2025	2,544,858	0	0	(2,186,607)	0	(24,799)	736,966	3.97	2,926,317	714,911	54,714	7,685	3,322,168
2026	3,322,168	0	0	(2,214,480)	0	(24,799)	725,783	4.08	2,959,931	720,652	73,088	7,927	4,123,835
2027	4,123,835	0	0	(2,247,861)	0	(24,799)	697,281	4.19	2,920,681	648,021	94,848	7,452	4,874,156
2028	4,874,156	0	0	(2,351,560)	0	(24,799)	697,242	4.30	2,999,586	623,227	114,543	7,323	5,619,248
2029	5,619,248	0	0	(2,344,168)	0	(24,799)	697,281	4.42	3,080,964	711,997	137,672	8,722	6,477,639
2030	6,477,639	0	0	(2,296,340)	0	(24,799)	697,242	4.54	3,164,200	843,061	174,896	11,381	7,506,977
2031	7,506,977	0	0	(10,740,864)	0	(251,258)	735,504	4.66	3,428,204	(7,563,918)	221,456	(164,515)	(0)
Total		(337,195)	(337,195)	(30,941,701)	337,195	(455,215)	7,198,237		29,804,243		948,842	(97,025)	

Assumptions								
Total GFA Growth	39,395,602							
Inflation		2.71%						
Interest	Earned	Charged						
Opening Balance	1.90% - 2.95%	3.30% - 4.35%						
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%						
New Debt Term (Years)		20						
New Debt interest	Fr	From 3.30% to 4.35%						
Target Reserve Balance 2031		\$16,158,145						
Discount Rate Applied to Post 2031 Debt Pa	yments	2.95%						

Calculated Development Charge per sqft	\$1.18

	Development					Development	Anticipated	In Year	Interest Revenue/(Expense)				
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	1,901,421	(602,134)	(602,134)	(3,904,660)	602,134	(9,935)	4,021,383	1.18	4,750,447	835,852	36,127	7,941	2,781,341
2023	2,781,341	0	0	(3,904,660)	0	(44,284)	4,021,383	1.21	4,879,055	930,111	55,627	9,301	3,776,380
2024	3,776,380	0	0	(3,904,660)	0	(44,284)	4,021,383	1.25	5,011,145	1,062,201	77,416	10,888	4,926,885
2025	4,926,885	0	0	(3,904,660)	0	(44,284)	4,021,383	1.28	5,146,812	1,197,868	105,928	12,877	6,243,558
2026	6,243,558	0	0	(3,954,434)	0	(44,284)	3,963,103	1.31	5,209,540	1,210,822	137,358	13,319	7,605,057
2027	7,605,057	0	0	(4,014,041)	0	(44,284)	3,827,293	1.35	5,167,221	1,108,896	174,916	12,752	8,901,621
2028	8,901,621	0	0	(4,199,220)	0	(44,284)	3,827,293	1.39	5,307,113	1,063,609	209,188	12,497	10,186,916
2029	10,186,916	0	0	(4,186,018)	0	(44,284)	3,827,293	1.42	5,450,792	1,220,489	249,579	14,951	11,671,935
2030	11,671,935	0	0	(4,100,611)	0	(44,284)	3,827,293	1.46	5,598,361	1,453,465	315,142	19,622	13,460,165
2031	13,460,165	0	0	(19,179,773)	0	(448,658)	4,037,794	1.50	6,066,171	(13,562,261)	397,075	(294,979)	(0)
Total		(602,134)	(602,134)	(55,252,736)	602,134	(812,867)	39,395,602		52,586,657		1,758,357	(180,831)	

Assumptions								
Total GFA Growth	736,000							
Inflation		2.71%						
Interest	Earned	Charged						
Opening Balance	nce 1.90% - 2.95% 3.30% - 4.3							
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%						
New Debt Term (Years)	20							
New Debt interest	From 3.30% to 4.35%							
Target Reserve Balance 2031	\$162,814							
Discount Rate Applied to Post 2031 Debt Paym	ients 2.95%							

Calculated Development Charge per sqft	\$0.63

	Development				Development	Anticipated	In Year	Interest Revenue/(Expense)					
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	21,658	(6,067)	(6,067)	(39,344)	6,067	(100)	72,000	0.63	45,614	6,169	411	59	28,297
2023	28,297	0	0	(39,344)	0	(446)	72,000	0.65	46,849	7,058	566	71	35,991
2024	35,991	0	0	(39,344)	0	(446)	72,000	0.67	48,117	8,326	738	85	45,141
2025	45,141	0	0	(39,344)	0	(446)	72,000	0.69	49,420	9,629	971	104	55,844
2026	55,844	0	0	(39,846)	0	(446)	74,000	0.70	52,167	11,875	1,229	131	69,078
2027	69,078	0	0	(40,447)	0	(446)	74,000	0.72	53,580	12,687	1,589	146	83,500
2028	83,500	0	0	(42,312)	0	(446)	74,000	0.74	55,030	12,272	1,962	144	97,878
2029	97,878	0	0	(42,179)	0	(446)	74,000	0.76	56,520	13,894	2,398	170	114,340
2030	114,340	0	0	(41,319)	0	(446)	74,000	0.78	58,050	16,285	3,087	220	133,933
2031	133,933	0	0	(193,272)	0	(4,521)	78,000	0.81	62,845	(134,949)	3,951	(2,935)	0
Total		(6,067)	(6,067)	(556,753)	6,067	(8,191)	736,000		528,191		16,902	(1,806)	

Assumptions									
Total GFA Growth	476,277								
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	nce 1.90% - 2.95% 3.30% - 4.								
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%							
New Debt Term (Years)	20								
New Debt interest	From 3.30% to 4.35%								
Target Reserve Balance 2041	\$232,056,238								
Discount Rate Applied to Post 2041 Debt Paym	ents 2.95%								

Calculated Development Charge per Capita \$1,532

	Development			nditures		Annual Gross	Development	Anticipated	In Year	Interest Revenue/(Expense)			
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	0	(42,220,914)	(42,220,914)	0	42,220,914	(696,645)	20,326	1,532	31,132,039	30,435,394	0	289,136	30,724,531
2023	30,724,531	(22,388,381)	(22,994,500)	0	22,994,500	(3,496,067)	20,326	1,573	31,974,874	28,478,807	614,491	284,788	60,102,617
2024	60,102,617	(91,472,151)	(96,492,031)	0	96,492,031	(6,474,508)	20,326	1,616	32,840,528	26,366,020	1,232,104	270,252	87,970,992
2025	87,970,992	(110,112,569)	(119,300,077)	0	119,300,077	(14,110,609)	20,326	1,659	33,729,616	19,619,007	1,891,376	210,904	109,692,279
2026	109,692,279	(120,045,626)	(133,583,079)	0	133,583,079	(23,350,134)	21,883	1,704	37,296,461	13,946,326	2,413,230	153,410	126,205,245
2027	126,205,245	(99,026,201)	(113,176,564)	0	113,176,564	(33,104,162)	23,439	1,750	41,029,962	7,925,800	2,902,721	91,147	137,124,913
2028	137,124,913	(93,967,068)	(110,301,988)	0	110,301,988	(41,674,374)	23,439	1,798	42,140,763	466,389	3,222,435	5,480	140,819,217
2029	140,819,217	(46,368,383)	(55,902,456)	0	55,902,456	(49,093,371)	23,439	1,847	43,281,636	(5,811,735)	3,450,071	(111,876)	138,345,677
2030	138,345,677	(3,364,687)	(4,166,342)	0	4,166,342	(52,399,616)	23,439	1,897	44,453,396	(7,946,219)	3,735,333	(162,897)	133,971,894
2031	133,971,894	0	0	0	0	(52,640,869)	25,131	1,948	48,952,730	(3,688,139)	3,952,171	(80,217)	134,155,708
2032	134,155,708	0	0	0	0	(52,640,869)	26,823	2,001	53,663,102	1,022,233	3,957,593	15,078	139,150,612
2033	139,150,612	0	0	0	0	(52,640,869)	26,823	2,055	55,115,918	2,475,049	4,104,943	36,507	145,767,112
2034	145,767,112	0	0	0	0	(52,640,869)	26,823	2,110	56,608,067	3,967,198	4,300,130	58,516	154,092,956
2035	154,092,956	0	0	0	0	(52,640,869)	26,823	2,168	58,140,613	5,499,744	4,545,742	81,121	164,219,563
2036	164,219,563	0	0	0	0	(52,640,869)	26,761	2,226	59,576,621	6,935,752	4,844,477	102,302	176,102,094
2037	176,102,094	0	0	0	0	(52,640,869)	26,700	2,287	61,050,056	8,409,187	5,195,012	124,036	189,830,329
2038	189,830,329	0	0	0	0	(52,640,869)	26,700	2,348	62,702,860	10,061,990	5,599,995	148,414	205,640,728
2039	205,640,728	0	0	0	0	(52,640,869)	26,700	2,412	64,400,409	11,759,540	6,066,401	173,453	223,640,123
2040	223,640,123	0	0	0	0	(52,640,869)	26,700	2,477	66,143,916	13,503,047	6,597,384	199,170	243,939,723
2041	243,939,723	0	0	0	0	(279,757,324)	13,350	2,544	33,967,312	(245,790,012)	7,196,222	(5,345,933)	0
Total		(628,965,979)	(698,137,950)	0	698,137,950	(1,030,565,502)	476,277		958,200,880		75,821,831	(3,457,209)	

Assumptions									
Total GFA Growth	14,730,349								
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	1.90% - 2.95%	3.30% - 4.35%							
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%							
New Debt Term (Years)	20								
New Debt interest	From 3.30% to 4.35%								
Target Reserve Balance 2041	\$27,716,771								
Discount Rate Applied to Post 2041 Debt Paym	ients 2.95%								

	Calculated Development Charge per sqft	\$5.92
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	Development		Developr	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	0	(5,042,861)	(5,042,861)	0	5,042,861	(83,207)	736,966	5.92	4,361,990	4,278,783	0	40,648	4,319,431
2023	4,319,431	(2,674,066)	(2,746,460)	0	2,746,460	(417,570)	737,005	6.08	4,480,316	4,062,746	86,389	40,627	8,509,194
2024	8,509,194	(10,925,423)	(11,524,997)	0	11,524,997	(773,314)	736,966	6.24	4,601,371	3,828,056	174,438	39,238	12,550,926
2025	12,550,926	(13,151,833)	(14,249,188)	0	14,249,188	(1,685,370)	736,966	6.41	4,725,943	3,040,574	269,845	32,686	15,894,031
2026	15,894,031	(14,338,236)	(15,955,148)	0	15,955,148	(2,788,937)	725,783	6.59	4,780,231	1,991,293	349,669	21,904	18,256,897
2027	18,256,897	(11,827,678)	(13,517,796)	0	13,517,796	(3,953,957)	697,281	6.76	4,716,841	762,884	419,909	8,773	19,448,463
2028	19,448,463	(11,223,416)	(13,174,457)	0	13,174,457	(4,977,582)	697,242	6.95	4,844,272	(133,310)	457,039	(2,500)	19,769,692
2029	19,769,692	(5,538,234)	(6,676,983)	0	6,676,983	(5,863,707)	697,281	7.14	4,975,696	(888,011)	484,357	(17,094)	19,348,944
2030	19,348,944	(401,878)	(497,627)	0	497,627	(6,258,604)	697,242	7.33	5,110,120	(1,148,484)	522,421	(23,544)	18,699,338
2031	18,699,338	0	0	0	0	(6,287,419)	735,504	7.53	5,536,482	(750,937)	551,630	(16,333)	18,483,698
2032	18,483,698	0	0	0	0	(6,287,419)	775,604	7.73	5,996,388	(291,032)	545,269	(6,330)	18,731,606
2033	18,731,606	0	0	0	0	(6,287,419)	775,604	7.94	6,158,728	(128,692)	552,582	(2,799)	19,152,697
2034	19,152,697	0	0	0	0	(6,287,419)	775,604	8.16	6,325,462	38,043	565,005	561	19,756,306
2035	19,756,306	0	0	0	0	(6,287,419)	775,604	8.38	6,496,711	209,292	582,811	3,087	20,551,495
2036	20,551,495	0	0	0	0	(6,287,419)	800,261	8.60	6,884,728	597,308	606,269	8,810	21,763,883
2037	21,763,883	0	0	0	0	(6,287,419)	806,907	8.84	7,129,835	842,416	642,035	12,426	23,260,759
2038	23,260,759	0	0	0	0	(6,287,419)	806,945	9.08	7,323,210	1,035,791	686,192	15,278	24,998,020
2039	24,998,020	0	0	0	0	(6,287,419)	806,907	9.32	7,521,112	1,233,692	737,442	18,197	26,987,351
2040	26,987,351	0	0	0	0	(6,287,419)	806,945	9.57	7,725,099	1,437,680	796,127	21,206	29,242,363
2041	29,242,363	0	0	0	0	(33,414,183)	401,733	9.83	3,950,016	(29,464,167)	862,650	(640,846)	0
Total		(75,123,625)	(83,385,518)	0	83,385,518	(123,090,627)	14,730,349		113,644,551		9,892,079	(446,003)	

Assumptio	Assumptions								
Total GFA Growth		79,831,360							
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	1.90% - 2.95%	3.30% - 4.35%							
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%							
New Debt Term (Years)	20								
New Debt interest	From 3.30% to 4.35%								
Target Reserve Balance 2041	\$49,629,896								
Discount Rate Applied to Post 2041 Debt Paym	ients 2.95%								
Discount Rate Applied to Post 2041 Debt Paym	ents	2.95							

	Calculated Development Charge per sqft	\$1.96
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	Development		Develop	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	0	(9,029,792)	(9,029,792)	0	9,029,792	(148,992)	4,021,383	1.96	7,864,008	7,715,016	0	73,293	7,788,309
2023	7,788,309	(4,788,206)	(4,917,836)	0	4,917,836	(747,704)	4,021,383	2.01	8,076,909	7,329,205	155,766	73,292	15,346,572
2024	15,346,572	(19,563,160)	(20,636,762)	0	20,636,762	(1,384,704)	4,021,383	2.06	8,295,575	6,910,871	314,605	70,836	22,642,885
2025	22,642,885	(23,549,788)	(25,514,722)	0	25,514,722	(3,017,838)	4,021,383	2.12	8,520,160	5,502,323	486,822	59,150	28,691,179
2026	28,691,179	(25,674,173)	(28,569,429)	0	28,569,429	(4,993,896)	3,963,103	2.18	8,624,002	3,630,106	631,206	39,931	32,992,423
2027	32,992,423	(21,178,746)	(24,205,085)	0	24,205,085	(7,079,991)	3,827,293	2.23	8,553,947	1,473,956	758,826	16,950	35,242,155
2028	35,242,155	(20,096,748)	(23,590,300)	0	23,590,300	(8,912,903)	3,827,293	2.30	8,785,527	(127,376)	828,191	(2,388)	35,940,581
2029	35,940,581	(9,916,812)	(11,955,865)	0	11,955,865	(10,499,605)	3,827,293	2.36	9,023,377	(1,476,228)	880,544	(28,417)	35,316,479
2030	35,316,479	(719,606)	(891,056)	0	891,056	(11,206,712)	3,827,293	2.42	9,267,666	(1,939,046)	953,545	(39,750)	34,291,228
2031	34,291,228	0	0	0	0	(11,258,309)	4,037,794	2.49	10,042,090	(1,216,219)	1,011,591	(26,453)	34,060,147
2032	34,060,147	0	0	0	0	(11,258,309)	4,161,884	2.55	10,630,930	(627,379)	1,004,774	(13,646)	34,423,896
2033	34,423,896	0	0	0	0	(11,258,309)	4,161,884	2.62	10,918,740	(339,569)	1,015,505	(7,386)	35,092,447
2034	35,092,447	0	0	0	0	(11,258,309)	4,161,884	2.69	11,214,342	(43,967)	1,035,227	(956)	36,082,751
2035	36,082,751	0	0	0	0	(11,258,309)	4,161,884	2.77	11,517,947	259,638	1,064,441	3,830	37,410,659
2036	37,410,659	0	0	0	0	(11,258,309)	4,293,709	2.84	12,204,470	946,161	1,103,614	13,956	39,474,391
2037	39,474,391	0	0	0	0	(11,258,309)	4,334,163	2.92	12,652,980	1,394,671	1,164,495	20,571	42,054,128
2038	42,054,128	0	0	0	0	(11,258,309)	4,334,163	3.00	12,995,533	1,737,224	1,240,597	25,624	45,057,572
2039	45,057,572	0	0	0	0	(11,258,309)	4,334,163	3.08	13,347,360	2,089,051	1,329,198	30,814	48,506,635
2040	48,506,635	0	0	0	0	(11,258,309)	4,334,163	3.16	13,708,712	2,450,403	1,430,946	36,143	52,424,127
2041	52,424,127	0	0	0	0	(59,831,733)	2,157,860	3.25	7,009,967	(52,821,766)	1,546,512	(1,148,873)	0
Total		(134,517,030)	(149,310,848)	0	149,310,848	(220,407,169)	79,831,360		203,254,243		17,956,405	(803,479)	

Assumptions								
Total GFA Growth		1,554,000						
Inflation		2.71%						
Interest	Earned	Charged						
Opening Balance	1.90% - 2.95%	3.30% - 4.35%						
In-year Transactions	0.95% - 1.48%	1.65% - 2.18%						
New Debt Term (Years)	20							
New Debt interest	From 3.30% to 4.35%							
Target Reserve Balance 2041	\$514,080							
Discount Rate Applied to Post 2041 Debt Paym	2.95%							

Calculated Development Charge per sqft	\$1.04

	Development		Developr	ment Related Expe	enditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	0	(93,533)	(93,533)	0	93,533	(1,543)	72,000	1.04	74,906	73,363	0	697	74,060
2023	74,060	(49,598)	(50,940)	0	50,940	(7,745)	72,000	1.07	76,934	69,189	1,481	692	145,422
2024	145,422	(202,641)	(213,761)	0	213,761	(14,343)	72,000	1.10	79,017	64,674	2,981	663	213,740
2025	213,740	(243,935)	(264,289)	0	264,289	(31,260)	72,000	1.13	81,156	49,897	4,595	536	268,769
2026	268,769	(265,940)	(295,930)	0	295,930	(51,728)	74,000	1.16	85,669	33,941	5,913	373	308,996
2027	308,996	(219,375)	(250,723)	0	250,723	(73,337)	74,000	1.19	87,988	14,652	7,107	168	330,923
2028	330,923	(208,168)	(244,355)	0	244,355	(92,322)	74,000	1.22	90,370	(1,952)	7,777	(37)	336,711
2029	336,711	(102,721)	(123,842)	0	123,842	(108,758)	74,000	1.25	92,817	(15,941)	8,249	(307)	328,712
2030	328,712	(7,454)	(9,230)	0	9,230	(116,082)	74,000	1.29	95,330	(20,753)	8,875	(425)	316,409
2031	316,409	0	0	0	0	(116,617)	78,000	1.32	103,203	(13,414)	9,334	(292)	312,038
2032	312,038	0	0	0	0	(116,617)	84,000	1.36	114,151	(2,466)	9,205	(54)	318,723
2033	318,723	0	0	0	0	(116,617)	84,000	1.40	117,241	624	9,402	9	328,759
2034	328,759	0	0	0	0	(116,617)	84,000	1.43	120,415	3,798	9,698	56	342,311
2035	342,311	0	0	0	0	(116,617)	84,000	1.47	123,675	7,058	10,098	104	359,572
2036	359,572	0	0	0	0	(116,617)	86,000	1.51	130,048	13,431	10,607	198	383,808
2037	383,808	0	0	0	0	(116,617)	88,000	1.55	136,675	20,058	11,322	296	415,484
2038	415,484	0	0	0	0	(116,617)	88,000	1.60	140,375	23,758	12,257	350	451,849
2039	451,849	0	0	0	0	(116,617)	88,000	1.64	144,175	27,558	13,330	406	493,144
2040	493,144	0	0	0	0	(116,617)	88,000	1.68	148,078	31,462	14,548	464	539,617
2041	539,617	0	0	0	0	(619,754)	44,000	1.73	76,044	(543,710)	15,919	(11,826)	0
Total		(1,393,365)	(1,546,604)	0	1,546,604	(2,283,040)	1,554,000		2,118,266		172,700	(7,926)	

Assumptions								
	476,277							
	2.71%							
Earned	Charged							
1.35% - 2.60%	2.75% - 4.00%							
0.68% - 1.30%	1.38% - 2.00%							
10								
From 2.75% to 4.00%								
\$45,223,717								
nents 2.60%								
	1.35% - 2.60% 0.68% - 1.30% Fr							

Calculated Development Charge per Capita	\$284

	Development		Developr	nent Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Rever	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	9,008,312	(5,940,323)	(5,940,323)	(5,645,128)	5,940,323	(81,679)	20,326	284	5,767,646	40,838	121,612	276	9,171,038
2023	9,171,038	(2,421,241)	(2,486,791)	(5,645,128)	2,486,791	(751,923)	20,326	291	5,923,793	(473,259)	137,566	(6,862)	8,828,483
2024	8,828,483	(2,900,452)	(3,059,626)	(5,645,128)	3,059,626	(1,065,124)	20,326	299	6,084,167	(626,085)	150,084	(9,704)	8,342,778
2025	8,342,778	(5,042,925)	(5,463,694)	(5,645,128)	5,463,694	(1,480,032)	20,326	307	6,248,884	(876,277)	150,170	(14,020)	7,602,651
2026	7,602,651	(2,544,742)	(2,831,710)	(5,711,567)	2,831,710	(2,111,307)	21,883	316	6,909,691	(913,183)	140,649	(14,839)	6,815,278
2027	6,815,278	(1,958,928)	(2,238,850)	(5,982,584)	2,238,850	(2,452,253)	23,439	324	7,601,375	(833,462)	132,898	(13,960)	6,100,753
2028	6,100,753	(1,939,669)	(2,276,854)	(6,051,803)	2,276,854	(2,731,064)	23,439	333	7,807,166	(975,701)	122,015	(16,587)	5,230,480
2029	5,230,480	(4,072,511)	(4,909,884)	(5,874,322)	4,909,884	(3,061,266)	23,439	342	8,018,529	(917,059)	109,840	(16,049)	4,407,213
2030	4,407,213	(4,033,090)	(4,993,995)	(4,376,742)	4,993,995	(3,682,101)	23,439	351	8,235,614	176,771	103,569	2,077	4,689,630
2031	4,689,630	(2,173,373)	(2,764,049)	(3,405,489)	2,764,049	(4,274,736)	25,131	361	9,069,178	1,388,953	121,930	18,056	6,218,570
2032	6,218,570	(7,707,588)	(10,067,723)	(2,098,867)	10,067,723	(4,692,472)	26,823	371	9,941,841	3,150,502	161,683	40,957	9,571,711
2033	9,571,711	(7,837,477)	(10,514,542)	(1,995,605)	10,514,542	(5,318,170)	26,823	381	10,210,995	2,897,220	248,864	37,664	12,755,459
2034	12,755,459	(3,514,088)	(4,842,036)	(1,720,684)	4,842,036	(6,235,644)	26,823	391	10,487,437	2,531,109	331,642	32,904	15,651,114
2035	15,651,114	(1,928,111)	(2,728,655)	(1,629,816)	2,728,655	(6,397,450)	26,823	402	10,771,362	2,744,096	406,929	35,673	18,837,812
2036	18,837,812	(2,003,205)	(2,911,678)	(1,157,338)	2,911,678	(6,118,653)	26,761	412	11,037,403	3,761,412	489,783	48,898	23,137,905
2037	23,137,905	(2,359,565)	(3,522,500)	(378,772)	3,522,500	(6,162,137)	26,700	424	11,310,377	4,769,469	601,586	62,003	28,570,963
2038	28,570,963	(2,458,794)	(3,770,011)	0	3,770,011	(6,338,574)	26,700	435	11,616,582	5,278,008	742,845	68,614	34,660,430
2039	34,660,430	(7,760,438)	(12,221,034)	0	12,221,034	(6,659,332)	26,700	447	11,931,077	5,271,745	901,171	68,533	40,901,878
2040	40,901,878	(9,661,344)	(15,626,458)	0	15,626,458	(7,668,879)	26,700	459	12,254,086	4,585,207	1,063,449	59,608	46,610,142
2041	46,610,142	(2,375,998)	(3,947,029)	0	3,947,029	(53,177,239)	13,350	471	6,292,920	(46,884,319)	1,211,864	(937,686)	0
Total		(80,633,862)	(107,117,441)	(62,964,102)	107,117,441	(130,460,038)	476,277		177,520,124		7,450,150	(554,445)	

Assumptions								
	14,730,349							
	2.71%							
Earned	Charged							
1.35% - 2.60%	2.75% - 4.00%							
0.68% - 1.30%	1.38% - 2.00%							
	10							
Fr	om 2.75% to 4.00%							
\$3,252,763								
nents 2.60%								
ents								
	Earned 1.35% - 2.60% 0.68% - 1.30% Fr							

	Calculated Development Charge per sqft	\$0.67
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	Development		Developr	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	440,370	(427,264)	(427,264)	(406,032)	427,264	(5,875)	736,966	0.67	496,925	85,018	5,945	574	531,908
2023	531,908	(174,150)	(178,865)	(406,032)	178,865	(54,083)	737,005	0.69	510,405	50,290	7,979	377	590,554
2024	590,554	(208,618)	(220,067)	(406,032)	220,067	(76,610)	736,966	0.71	524,196	41,554	10,039	353	642,500
2025	642,500	(362,718)	(392,982)	(406,032)	392,982	(106,453)	736,966	0.73	538,387	25,903	11,565	233	680,201
2026	680,201	(183,033)	(203,674)	(410,810)	203,674	(151,858)	725,783	0.75	544,572	(18,097)	12,584	(294)	674,394
2027	674,394	(140,898)	(161,032)	(430,304)	161,032	(176,381)	697,281	0.77	537,350	(69,334)	13,151	(1,161)	617,049
2028	617,049	(139,513)	(163,765)	(435,282)	163,765	(196,435)	697,242	0.79	551,867	(79,849)	12,341	(1,357)	548,184
2029	548,184	(292,920)	(353,148)	(422,517)	353,148	(220,185)	697,281	0.81	566,839	(75,862)	11,512	(1,328)	482,506
2030	482,506	(290,084)	(359,198)	(314,802)	359,198	(264,839)	697,242	0.83	582,153	2,513	11,339	30	496,387
2031	496,387	(156,322)	(198,807)	(244,943)	198,807	(307,465)	735,504	0.86	630,725	78,317	12,906	1,018	588,628
2032	588,628	(554,376)	(724,131)	(150,963)	724,131	(337,511)	775,604	0.88	683,118	194,644	15,304	2,530	801,107
2033	801,107	(563,719)	(756,269)	(143,536)	756,269	(382,515)	775,604	0.90	701,612	175,561	20,829	2,282	999,779
2034	999,779	(252,754)	(348,268)	(123,762)	348,268	(448,505)	775,604	0.93	720,607	148,340	25,994	1,928	1,176,042
2035	1,176,042	(138,681)	(196,261)	(117,226)	196,261	(460,143)	775,604	0.95	740,116	162,746	30,577	2,116	1,371,481
2036	1,371,481	(144,083)	(209,425)	(83,243)	209,425	(440,090)	800,261	0.98	784,319	260,986	35,659	3,393	1,671,519
2037	1,671,519	(169,714)	(253,359)	(27,244)	253,359	(443,218)	806,907	1.01	812,242	341,781	43,459	4,443	2,061,202
2038	2,061,202	(176,851)	(271,162)	0	271,162	(455,909)	806,945	1.03	834,272	378,364	53,591	4,919	2,498,076
2039	2,498,076	(558,178)	(879,010)	0	879,010	(478,979)	806,907	1.06	856,817	377,838	64,950	4,912	2,945,776
2040	2,945,776	(694,902)	(1,123,949)	0	1,123,949	(551,592)	806,945	1.09	880,056	328,464	76,590	4,270	3,355,100
2041	3,355,100	(170,896)	(283,894)	0	283,894	(3,824,828)	401,733	1.12	449,992	(3,374,836)	87,233	(67,497)	0
Total		(5,799,674)	(7,704,533)	(4,528,758)	7,704,533	(9,383,473)	14,730,349		12,946,572		563,547	(38,259)	

Assumptions								
Total GFA Growth		79,831,360						
Inflation		2.71%						
Interest	Earned	Charged						
Opening Balance	1.35% - 2.60%	2.75% - 4.00%						
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%						
New Debt Term (Years)	10							
New Debt interest	From 2.75% to 4.00%							
Target Reserve Balance 2041	\$11,847,276							
Discount Rate Applied to Post 2041 Debt Payn	ents 2.60%							

	Calculated Development Charge per sqft	\$0.44
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	Development		Develop	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Reve	nue/(Expense)	_
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	2,509,799	(1,556,189)	(1,556,189)	(1,478,857)	1,556,189	(21,398)	4,021,383	0.44	1,779,298	279,043	33,882	1,884	2,824,608
2023	2,824,608	(634,293)	(651,466)	(1,478,857)	651,466	(196,982)	4,021,383	0.45	1,827,468	151,630	42,369	1,137	3,019,745
2024	3,019,745	(759,833)	(801,531)	(1,478,857)	801,531	(279,031)	4,021,383	0.47	1,876,943	119,056	51,336	1,012	3,191,148
2025	3,191,148	(1,321,097)	(1,431,326)	(1,478,857)	1,431,326	(387,725)	4,021,383	0.48	1,927,758	61,177	57,441	551	3,310,316
2026	3,310,316	(666,647)	(741,824)	(1,496,262)	741,824	(553,100)	3,963,103	0.49	1,951,253	(98,109)	61,241	(1,594)	3,271,854
2027	3,271,854	(513,181)	(586,512)	(1,567,260)	586,512	(642,418)	3,827,293	0.51	1,935,402	(274,276)	63,801	(4,594)	3,056,785
2028	3,056,785	(508,136)	(596,468)	(1,585,393)	596,468	(715,458)	3,827,293	0.52	1,987,799	(313,052)	61,136	(5,322)	2,799,547
2029	2,799,547	(1,066,877)	(1,286,244)	(1,538,899)	1,286,244	(801,961)	3,827,293	0.53	2,041,615	(299,245)	58,790	(5,237)	2,553,855
2030	2,553,855	(1,056,550)	(1,308,279)	(1,146,577)	1,308,279	(964,602)	3,827,293	0.55	2,096,887	(14,291)	60,016	(268)	2,599,312
2031	2,599,312	(569,359)	(724,099)	(892,137)	724,099	(1,119,854)	4,037,794	0.56	2,272,107	260,115	67,582	3,381	2,930,390
2032	2,930,390	(2,019,160)	(2,637,446)	(549,841)	2,637,446	(1,229,289)	4,161,884	0.58	2,405,337	626,207	76,190	8,141	3,640,928
2033	3,640,928	(2,053,187)	(2,754,499)	(522,790)	2,754,499	(1,393,203)	4,161,884	0.59	2,470,456	554,464	94,664	7,208	4,297,264
2034	4,297,264	(920,587)	(1,268,470)	(450,768)	1,268,470	(1,633,554)	4,161,884	0.61	2,537,339	453,016	111,729	5,889	4,867,899
2035	4,867,899	(505,108)	(714,827)	(426,964)	714,827	(1,675,943)	4,161,884	0.63	2,606,032	503,126	126,565	6,541	5,504,130
2036	5,504,130	(524,781)	(762,774)	(303,188)	762,774	(1,602,906)	4,293,709	0.64	2,761,364	855,269	143,107	11,119	6,513,625
2037	6,513,625	(618,136)	(922,791)	(99,227)	922,791	(1,614,298)	4,334,163	0.66	2,862,843	1,149,318	169,354	14,941	7,847,239
2038	7,847,239	(644,131)	(987,631)	0	987,631	(1,660,519)	4,334,163	0.68	2,940,348	1,279,829	204,028	16,638	9,347,734
2039	9,347,734	(2,033,005)	(3,201,549)	0	3,201,549	(1,744,548)	4,334,163	0.70	3,019,952	1,275,404	243,041	16,580	10,882,760
2040	10,882,760	(2,530,986)	(4,093,670)	0	4,093,670	(2,009,019)	4,334,163	0.72	3,101,711	1,092,692	282,952	14,205	12,272,608
2041	12,272,608	(622,441)	(1,034,005)	0	1,034,005	(13,930,863)	2,157,860	0.74	1,586,064	(12,344,800)	319,088	(246,896)	0
Total		(21,123,686)	(28,061,600)	(16,494,732)	28,061,600	(34,176,670)	79,831,360		45,987,976		2,328,313	(154,685)	

Assumptions								
Total GFA Growth	1,554,000							
Inflation		2.71%						
Interest	Earned	Charged						
Opening Balance	1.35% - 2.60%	2.75% - 4.00%						
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%						
New Debt Term (Years)		10						
New Debt interest	From 2.75% to 4.00%							
Target Reserve Balance 2041	\$73,664							
Discount Rate Applied to Post 2041 Debt Payr	ients 2.60%							

	Calculated Development Charge per sqft	\$0.14
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	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	11,634	(9,676)	(9,676)	(9,195)	9,676	(133)	72,000	0.14	10,340	1,011	157	7	12,810
2023	12,810	(3,944)	(4,051)	(9,195)	4,051	(1,225)	72,000	0.15	10,620	200	192	1	13,203
2024	13,203	(4,725)	(4,984)	(9,195)	4,984	(1,735)	72,000	0.15	10,907	(23)	224	(0)	13,404
2025	13,404	(8,214)	(8,900)	(9,195)	8,900	(2,411)	72,000	0.16	11,202	(404)	241	(6)	13,235
2026	13,235	(4,145)	(4,613)	(9,304)	4,613	(3,439)	74,000	0.16	11,825	(917)	245	(15)	12,548
2027	12,548	(3,191)	(3,647)	(9,745)	3,647	(3,994)	74,000	0.16	12,146	(1,594)	245	(27)	11,172
2028	11,172	(3,160)	(3,709)	(9,858)	3,709	(4,449)	74,000	0.17	12,474	(1,832)	223	(31)	9,532
2029	9,532	(6,634)	(7,998)	(9,569)	7,998	(4,986)	74,000	0.17	12,812	(1,743)	200	(31)	7,959
2030	7,959	(6,569)	(8,135)	(7,129)	8,135	(5,998)	74,000	0.18	13,159	32	187	0	8,178
2031	8,178	(3,540)	(4,502)	(5,547)	4,502	(6,963)	78,000	0.18	14,246	1,735	213	23	10,149
2032	10,149	(12,555)	(16,399)	(3,419)	16,399	(7,644)	84,000	0.19	15,757	4,695	264	61	15,168
2033	15,168	(12,766)	(17,127)	(3,251)	17,127	(8,663)	84,000	0.19	16,183	4,270	394	56	19,888
2034	19,888	(5,724)	(7,887)	(2,803)	7,887	(10,157)	84,000	0.20	16,622	3,662	517	48	24,115
2035	24,115	(3,141)	(4,445)	(2,655)	4,445	(10,421)	84,000	0.20	17,072	3,996	627	52	28,790
2036	28,790	(3,263)	(4,743)	(1,885)	4,743	(9,967)	86,000	0.21	17,951	6,099	749	79	35,717
2037	35,717	(3,843)	(5,738)	(617)	5,738	(10,037)	88,000	0.21	18,866	8,212	929	107	44,964
2038	44,964	(4,005)	(6,141)	0	6,141	(10,325)	88,000	0.22	19,377	9,052	1,169	118	55,303
2039	55,303	(12,641)	(19,907)	0	19,907	(10,847)	88,000	0.23	19,901	9,054	1,438	118	65,912
2040	65,912	(15,737)	(25,454)	0	25,454	(12,492)	88,000	0.23	20,440	7,948	1,714	103	75,678
2041	75,678	(3,870)	(6,429)	0	6,429	(86,620)	44,000	0.24	10,497	(76,123)	1,968	(1,522)	0
Total		(131,343)	(174,482)	(102,561)	174,482	(212,505)	1,554,000		292,397		11,896	(860)	

Waste Diversion

	476.277					
	476,277					
2.71%						
d	Charged					
60%	2.75% - 4.00%					
30%	1.38% - 2.00%					
10						
From 2.75% to 4.00%						
\$8,824,838						
ents 2.60%						

Calculated Development Charge per Capita	\$96

	Development		Develop	ment Related Expe	enditures		Annual Gross	Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	1,025,099	(102,000)	(102,000)	0	102,000	(1,403)	20,326	96	1,941,612	1,940,210	13,839	13,096	2,992,244
2023	2,992,244	(102,000)	(104,761)	0	104,761	(13,811)	20,326	98	1,994,177	1,980,366	44,884	14,853	5,032,346
2024	5,032,346	(102,000)	(107,598)	0	107,598	(26,675)	20,326	101	2,048,165	2,021,490	85,550	17,183	7,156,569
2025	7,156,569	(1,535,600)	(1,663,727)	0	1,663,727	(64,812)	20,326	103	2,103,615	2,038,804	128,818	18,349	9,342,540
2026	9,342,540	(1,535,600)	(1,708,768)	0	1,708,768	(270,794)	21,883	106	2,326,068	2,055,274	172,837	19,011	11,589,663
2027	11,589,663	(12,835,280)	(14,669,379)	0	14,669,379	(699,617)	23,439	109	2,558,916	1,859,298	225,998	18,128	13,693,088
2028	13,693,088	(12,163,000)	(14,277,375)	0	14,277,375	(2,515,545)	23,439	112	2,628,193	112,648	273,862	1,126	14,080,724
2029	14,080,724	(102,000)	(122,973)	0	122,973	(4,049,484)	23,439	115	2,699,346	(1,350,138)	295,695	(23,627)	13,002,653
2030	13,002,653	(102,000)	(126,302)	0	126,302	(4,065,056)	23,439	118	2,772,425	(1,292,631)	305,562	(24,237)	11,991,348
2031	11,991,348	(102,000)	(129,721)	0	129,721	(4,081,241)	25,131	121	3,053,035	(1,028,206)	311,775	(20,564)	11,254,353
2032	11,254,353	(102,000)	(133,233)	0	133,233	(4,096,491)	26,823	125	3,346,807	(749,685)	292,613	(14,994)	10,782,288
2033	10,782,288	(102,000)	(136,840)	0	136,840	(4,101,187)	26,823	128	3,437,415	(663,772)	280,339	(13,275)	10,385,580
2034	10,385,580	(102,000)	(140,545)	0	140,545	(4,105,890)	26,823	132	3,530,476	(575,414)	270,025	(11,508)	10,068,682
2035	10,068,682	(13,097,716)	(18,535,836)	0	18,535,836	(4,453,626)	26,823	135	3,626,056	(827,570)	261,786	(16,551)	9,486,347
2036	9,486,347	0	0	0	0	(6,246,453)	26,761	139	3,715,615	(2,530,837)	246,645	(50,617)	7,151,538
2037	7,151,538	0	0	0	0	(5,817,629)	26,700	143	3,807,509	(2,010,120)	185,940	(40,202)	5,287,155
2038	5,287,155	0	0	0	0	(4,001,701)	26,700	146	3,910,589	(91,112)	137,466	(1,822)	5,331,687
2039	5,331,687	0	0	0	0	(2,467,763)	26,700	150	4,016,461	1,548,698	138,624	20,133	7,039,142
2040	7,039,142	0	0	0	0	(2,452,190)	26,700	155	4,125,198	1,673,007	183,018	21,749	8,916,916
2041	8,916,916	0	0	0	0	(11,087,808)	13,350	159	2,118,439	(8,969,369)	231,840	(179,387)	0
Total		(42,085,196)	(51,959,060)	0	51,959,060	(64,619,176)	476,277		59,760,118		4,087,116	(253,157)	

Public Works

Assumptio	Assumptions									
Total GFA Growth	476,277									
Inflation		2.71%								
Interest	Earned	Charged								
Opening Balance	1.35% - 2.60%	2.75% - 4.00%								
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%								
New Debt Term (Years)	10									
New Debt interest	From 2.75% to 4.00%									
Target Reserve Balance 2041	\$28,048,714									
Discount Rate Applied to Post 2041 Debt Paym	ents 2.60%									

	Calculated Development Charge per Capita	\$154
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	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	18,539,440	(3,567,213)	(3,567,213)	(78,446)	3,567,213	(49,049)	20,326	154	3,126,740	2,999,245	250,282	20,245	21,809,212
2023	21,809,212	(10,797,732)	(11,090,058)	(78,446)	11,090,058	(590,689)	20,326	158	3,211,390	2,542,255	327,138	19,067	24,697,673
2024	24,697,673	(10,229,464)	(10,790,845)	(78,446)	10,790,845	(1,943,201)	20,326	162	3,298,331	1,276,685	419,860	10,852	26,405,070
2025	26,405,070	(1,639,608)	(1,776,412)	(78,446)	1,776,412	(3,126,626)	20,326	167	3,387,627	182,555	475,291	1,643	27,064,559
2026	27,064,559	(4,176,332)	(4,647,294)	(78,446)	4,647,294	(3,392,431)	21,883	171	3,745,862	274,986	500,694	2,544	27,842,783
2027	27,842,783	(6,423,420)	(7,341,295)	(78,446)	7,341,295	(4,013,400)	23,439	176	4,120,836	28,989	542,934	283	28,414,989
2028	28,414,989	(703,650)	(825,970)	(78,446)	825,970	(4,814,757)	23,439	181	4,232,399	(660,804)	568,300	(11,234)	28,311,252
2029	28,311,252	(3,440,069)	(4,147,402)	(75,231)	4,147,402	(4,975,952)	23,439	185	4,346,982	(704,202)	594,536	(12,324)	28,189,263
2030	28,189,263	(4,835,591)	(5,987,696)	(49,350)	5,987,696	(5,533,549)	23,439	190	4,464,667	(1,118,231)	662,448	(20,967)	27,712,513
2031	27,712,513	(5,135,722)	(6,531,501)	(44,818)	6,531,501	(6,308,455)	25,131	196	4,916,557	(1,436,716)	720,525	(28,734)	26,967,587
2032	26,967,587	(905,695)	(1,183,027)	0	1,183,027	(6,987,389)	26,823	201	5,389,642	(1,597,747)	701,157	(31,955)	26,039,043
2033	26,039,043	(9,854,710)	(13,220,805)	0	13,220,805	(6,837,738)	26,823	206	5,535,556	(1,302,182)	677,015	(26,044)	25,387,832
2034	25,387,832	(722,151)	(995,046)	0	995,046	(6,930,790)	26,823	212	5,685,419	(1,245,371)	660,084	(24,907)	24,777,637
2035	24,777,637	(4,420,341)	(6,255,649)	0	6,255,649	(5,979,778)	26,823	218	5,839,340	(140,438)	644,219	(2,809)	25,278,609
2036	25,278,609	(4,097,304)	(5,955,470)	0	5,955,470	(6,507,660)	26,761	224	5,983,565	(524,095)	657,244	(10,482)	25,401,276
2037	25,401,276	(206,172)	(307,786)	0	307,786	(6,535,053)	26,700	230	6,131,549	(403,504)	660,433	(8,070)	25,650,135
2038	25,650,135	(173,868)	(266,588)	0	266,588	(5,772,219)	26,700	236	6,297,548	525,329	666,904	6,829	26,849,197
2039	26,849,197	(173,868)	(273,805)	0	273,805	(5,645,247)	26,700	242	6,468,041	822,795	698,079	10,696	28,380,767
2040	28,380,767	(10,007,712)	(16,186,681)	0	16,186,681	(5,440,910)	26,700	249	6,643,150	1,202,240	737,900	15,629	30,336,537
2041	30,336,537	(489,270)	(812,780)	0	812,780	(33,926,487)	13,350	256	3,411,500	(30,514,987)	788,750	(610,300)	(0)
Total		(81,999,891)	(102,163,322)	(718,519)	102,163,322	(125,311,380)	476,277		96,236,702		11,953,794	(700,037)	

Table 10-31

Public Works

Assumptions									
Total GFA Growth		14,730,349							
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)	10								
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2041		\$3,350,135							
Discount Rate Applied to Post 2041 Debt Paym	ients 2.60%								

	Calculated Development Charge per sqft	\$0.69
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	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	784,667	(426,068)	(426,068)	(9,370)	426,068	(5,858)	736,966	0.69	506,256	491,028	10,593	3,314	1,289,602
2023	1,289,602	(1,289,680)	(1,324,595)	(9,370)	1,324,595	(70,552)	737,005	0.71	519,989	440,067	19,344	3,301	1,752,314
2024	1,752,314	(1,221,806)	(1,288,857)	(9,370)	1,288,857	(232,096)	736,966	0.72	534,038	292,573	29,789	2,487	2,077,163
2025	2,077,163	(195,835)	(212,174)	(9,370)	212,174	(373,444)	736,966	0.74	548,496	165,683	37,389	1,491	2,281,726
2026	2,281,726	(498,821)	(555,072)	(9,370)	555,072	(405,192)	725,783	0.76	554,797	140,236	42,212	1,297	2,465,471
2027	2,465,471	(767,213)	(876,843)	(9,370)	876,843	(479,360)	697,281	0.79	547,440	58,710	48,077	572	2,572,830
2028	2,572,830	(84,044)	(98,654)	(9,370)	98,654	(575,074)	697,242	0.81	562,230	(22,214)	51,457	(378)	2,601,695
2029	2,601,695	(410,882)	(495,365)	(8,986)	495,365	(594,327)	697,281	0.83	577,483	(25,830)	54,636	(452)	2,630,049
2030	2,630,049	(577,562)	(715,170)	(5,894)	715,170	(660,926)	697,242	0.85	593,084	(73,737)	61,806	(1,383)	2,616,736
2031	2,616,736	(613,410)	(780,122)	(5,353)	780,122	(753,481)	735,504	0.87	642,568	(116,266)	68,035	(2,325)	2,566,179
2032	2,566,179	(108,176)	(141,301)	0	141,301	(834,573)	775,604	0.90	695,945	(138,628)	66,721	(2,773)	2,491,499
2033	2,491,499	(1,177,045)	(1,579,091)	0	1,579,091	(816,699)	775,604	0.92	714,786	(101,912)	64,779	(2,038)	2,452,328
2034	2,452,328	(86,254)	(118,848)	0	118,848	(827,813)	775,604	0.95	734,138	(93,675)	63,761	(1,874)	2,420,539
2035	2,420,539	(527,965)	(747,174)	0	747,174	(714,224)	775,604	0.97	754,013	39,789	62,934	517	2,523,779
2036	2,523,779	(489,381)	(711,321)	0	711,321	(777,274)	800,261	1.00	799,046	21,772	65,618	283	2,611,453
2037	2,611,453	(24,625)	(36,762)	0	36,762	(780,546)	806,907	1.03	827,494	46,948	67,898	610	2,726,908
2038	2,726,908	(20,767)	(31,841)	0	31,841	(689,433)	806,945	1.05	849,937	160,504	70,900	2,087	2,960,398
2039	2,960,398	(20,767)	(32,703)	0	32,703	(674,268)	806,907	1.08	872,905	198,638	76,970	2,582	3,238,589
2040	3,238,589	(1,195,320)	(1,933,335)	0	1,933,335	(649,862)	806,945	1.11	896,580	246,719	84,203	3,207	3,572,718
2041	3,572,718	(58,438)	(97,078)	0	97,078	(4,052,176)	401,733	1.14	458,442	(3,593,734)	92,891	(71,875)	(0)
Total		(9,794,058)	(12,202,376)	(85,820)	12,202,376	(14,967,177)	14,730,349		13,189,666		1,140,012	(61,347)	

Public Works

Assumptions									
Total GFA Growth		79,831,360							
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)	10								
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2041		\$5,998,782							
Discount Rate Applied to Post 2041 Debt Paym	ients 2.60%								

Calculated Development Charge per sqft	\$0.18

	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	5,520,606	(762,920)	(762,920)	(16,777)	762,920	(10,490)	4,021,383	0.18	716,806	689,539	74,528	4,654	6,289,328
2023	6,289,328	(2,309,312)	(2,371,832)	(16,777)	2,371,832	(126,331)	4,021,383	0.18	736,212	593,105	94,340	4,448	6,981,221
2024	6,981,221	(2,187,777)	(2,307,839)	(16,777)	2,307,839	(415,593)	4,021,383	0.19	756,144	323,774	118,681	2,752	7,426,428
2025	7,426,428	(350,663)	(379,922)	(16,777)	379,922	(668,692)	4,021,383	0.19	776,615	91,146	133,676	820	7,652,069
2026	7,652,069	(893,193)	(993,917)	(16,777)	993,917	(725,540)	3,963,103	0.20	786,080	43,763	141,563	405	7,837,801
2027	7,837,801	(1,373,778)	(1,570,084)	(16,777)	1,570,084	(858,346)	3,827,293	0.20	779,694	(95,429)	152,837	(1,598)	7,893,610
2028	7,893,610	(150,490)	(176,650)	(16,777)	176,650	(1,029,733)	3,827,293	0.21	800,803	(245,707)	157,872	(4,177)	7,801,599
2029	7,801,599	(735,728)	(887,005)	(16,090)	887,005	(1,064,208)	3,827,293	0.21	822,483	(257,814)	163,834	(4,512)	7,703,106
2030	7,703,106	(1,034,188)	(1,280,589)	(10,554)	1,280,589	(1,183,461)	3,827,293	0.22	844,750	(349,265)	181,023	(6,549)	7,528,316
2031	7,528,316	(1,098,377)	(1,396,893)	(9,585)	1,396,893	(1,349,190)	4,037,794	0.23	915,339	(443,436)	195,736	(8,869)	7,271,747
2032	7,271,747	(193,701)	(253,014)	0	253,014	(1,494,394)	4,161,884	0.23	969,012	(525,382)	189,065	(10,508)	6,924,923
2033	6,924,923	(2,107,628)	(2,827,535)	0	2,827,535	(1,462,388)	4,161,884	0.24	995,246	(467,142)	180,048	(9,343)	6,628,486
2034	6,628,486	(154,446)	(212,811)	0	212,811	(1,482,289)	4,161,884	0.25	1,022,190	(460,099)	172,341	(9,202)	6,331,526
2035	6,331,526	(945,379)	(1,337,896)	0	1,337,896	(1,278,896)	4,161,884	0.25	1,049,864	(229,032)	164,620	(4,581)	6,262,534
2036	6,262,534	(876,291)	(1,273,697)	0	1,273,697	(1,391,794)	4,293,709	0.26	1,112,441	(279,353)	162,826	(5,587)	6,140,419
2037	6,140,419	(44,094)	(65,826)	0	65,826	(1,397,653)	4,334,163	0.27	1,153,322	(244,330)	159,651	(4,887)	6,050,853
2038	6,050,853	(37,185)	(57,015)	0	57,015	(1,234,505)	4,334,163	0.27	1,184,546	(49,959)	157,322	(999)	6,157,217
2039	6,157,217	(37,185)	(58,559)	0	58,559	(1,207,350)	4,334,163	0.28	1,216,615	9,266	160,088	120	6,326,691
2040	6,326,691	(2,140,351)	(3,461,847)	0	3,461,847	(1,163,648)	4,334,163	0.29	1,249,553	85,905	164,494	1,117	6,578,206
2041	6,578,206	(104,640)	(173,829)	0	173,829	(7,255,862)	2,157,860	0.30	638,960	(6,616,902)	171,033	(132,338)	(0)
Total		(17,537,327)	(21,849,682)	(153,670)	21,849,682	(26,800,360)	79,831,360		18,526,678		3,095,578	(188,832)	

Public Works

Assumptions									
Total GFA Growth 1,554									
Inflation 2									
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)	10								
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2041		\$62,137							
Discount Rate Applied to Post 2041 Debt Payr	ients 2.60%								
		1							

Calculated Development Charge per sqft	\$0.11

	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	36,095	(7,903)	(7,903)	(174)	7,903	(109)	72,000	0.11	7,744	7,462	487	50	44,095
2023	44,095	(23,921)	(24,568)	(174)	24,568	(1,309)	72,000	0.11	7,954	6,471	661	49	51,276
2024	51,276	(22,662)	(23,905)	(174)	23,905	(4,305)	72,000	0.11	8,169	3,691	872	31	55,870
2025	55,870	(3,632)	(3,935)	(174)	3,935	(6,927)	72,000	0.12	8,390	1,290	1,006	12	58,177
2026	58,177	(9,252)	(10,295)	(174)	10,295	(7,515)	74,000	0.12	8,857	1,168	1,076	11	60,432
2027	60,432	(14,230)	(16,263)	(174)	16,263	(8,891)	74,000	0.12	9,097	32	1,178	0	61,643
2028	61,643	(1,559)	(1,830)	(174)	1,830	(10,666)	74,000	0.13	9,343	(1,497)	1,233	(25)	61,353
2029	61,353	(7,621)	(9,188)	(167)	9,188	(11,023)	74,000	0.13	9,596	(1,594)	1,288	(28)	61,019
2030	61,019	(10,712)	(13,265)	(109)	13,265	(12,259)	74,000	0.13	9,856	(2,512)	1,434	(47)	59,894
2031	59,894	(11,377)	(14,469)	(99)	14,469	(13,975)	78,000	0.14	10,670	(3,405)	1,557	(68)	57,978
2032	57,978	(2,006)	(2,621)	0	2,621	(15,479)	84,000	0.14	11,801	(3,678)	1,507	(74)	55,734
2033	55,734	(21,831)	(29,288)	0	29,288	(15,148)	84,000	0.14	12,121	(3,027)	1,449	(61)	54,096
2034	54,096	(1,600)	(2,204)	0	2,204	(15,354)	84,000	0.15	12,449	(2,905)	1,406	(58)	52,539
2035	52,539	(9,793)	(13,858)	0	13,858	(13,247)	84,000	0.15	12,786	(461)	1,366	(9)	53,435
2036	53,435	(9,077)	(13,193)	0	13,193	(14,417)	86,000	0.16	13,445	(972)	1,389	(19)	53,833
2037	53,833	(457)	(682)	0	682	(14,477)	88,000	0.16	14,130	(347)	1,400	(7)	54,879
2038	54,879	(385)	(591)	0	591	(12,787)	88,000	0.16	14,513	1,725	1,427	22	58,053
2039	58,053	(385)	(607)	0	607	(12,506)	88,000	0.17	14,906	2,399	1,509	31	61,993
2040	61,993	(22,170)	(35,859)	0	35,859	(12,053)	88,000	0.17	15,309	3,256	1,612	42	66,903
2041	66,903	(1,084)	(1,801)	0	1,801	(75,158)	44,000	0.18	7,862	(67,297)	1,739	(1,346)	(0)
Total		(181,657)	(226,325)	(1,592)	226,325	(277,606)	1,554,000		218,997		25,599	(1,493)	

Housing Services

Assumptions									
Total GFA Growth	476,277								
Inflation	2.71%								
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)		10							
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2041	\$47,606,450								
Discount Rate Applied to Post 2041 Debt Paym	ients 2.60%								

Calculated Development Charge per Capita \$417	Calculated Development Charge per Capita	\$417
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	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	8,855,193	(21,157,877)	(21,157,877)	(713,348)	21,157,877	(290,921)	20,326	417	8,473,784	7,469,515	119,545	50,419	16,494,673
2023	16,494,673	(16,794,093)	(17,248,758)	(713,348)	17,248,758	(2,799,831)	20,326	428	8,703,194	5,190,015	247,420	38,925	21,971,033
2024	21,971,033	(13,599,670)	(14,346,003)	(713,348)	14,346,003	(4,865,661)	20,326	440	8,938,814	3,359,806	373,508	28,558	25,732,905
2025	25,732,905	(15,319,500)	(16,597,720)	(713,348)	16,597,720	(6,666,756)	20,326	452	9,180,814	1,800,711	463,192	16,206	28,013,015
2026	28,013,015	(9,317,000)	(10,367,671)	(735,481)	10,367,671	(8,613,144)	21,883	464	10,151,668	803,043	518,241	7,428	29,341,727
2027	29,341,727	(8,116,500)	(9,276,308)	(944,436)	9,276,308	(9,879,520)	23,439	476	11,167,884	343,928	572,164	3,353	30,261,172
2028	30,261,172	(13,090,000)	(15,365,522)	(944,436)	15,365,522	(11,135,569)	23,439	489	11,470,232	(609,773)	605,223	(10,366)	30,246,257
2029	30,246,257	(11,803,750)	(14,230,788)	(944,436)	14,230,788	(13,033,139)	23,439	503	11,780,764	(2,196,810)	635,171	(38,444)	28,646,174
2030	28,646,174	(7,516,250)	(9,307,037)	(914,310)	9,307,037	(14,735,675)	23,439	516	12,099,704	(3,550,282)	673,185	(66,568)	25,702,509
2031	25,702,509	(7,173,250)	(9,122,785)	(545,426)	9,122,785	(15,919,568)	25,131	530	13,324,371	(3,140,623)	668,265	(62,812)	23,167,339
2032	23,167,339	(5,303,900)	(6,928,004)	(545,426)	6,928,004	(16,750,961)	26,823	545	14,606,480	(2,689,907)	602,351	(53,798)	21,025,984
2033	21,025,984	(3,160,150)	(4,239,569)	(545,426)	4,239,569	(15,073,923)	26,823	559	15,001,920	(617,429)	546,676	(12,349)	20,942,883
2034	20,942,883	(6,487,250)	(8,938,733)	(545,426)	8,938,733	(13,644,041)	26,823	574	15,408,066	1,218,599	544,515	15,842	22,721,838
2035	22,721,838	(8,288,000)	(11,729,145)	(545,426)	11,729,145	(13,041,436)	26,823	590	15,825,207	2,238,345	590,768	29,098	25,580,050
2036	25,580,050	(10,620,400)	(15,436,853)	(450,705)	15,436,853	(12,668,595)	26,761	606	16,216,072	3,096,772	665,081	40,258	29,382,161
2037	29,382,161	(10,620,400)	(15,854,773)	0	15,854,773	(13,383,946)	26,700	622	16,617,124	3,233,179	763,936	42,031	33,421,307
2038	33,421,307	(7,293,300)	(11,182,644)	0	11,182,644	(14,061,247)	26,700	639	17,066,998	3,005,751	868,954	39,075	37,335,087
2039	37,335,087	(5,492,550)	(8,649,594)	0	8,649,594	(13,542,548)	26,700	657	17,529,052	3,986,504	970,712	51,825	42,344,127
2040	42,344,127	(56,000)	(90,576)	0	90,576	(12,774,551)	26,700	674	18,003,614	5,229,064	1,100,947	67,978	48,742,116
2041	48,742,116	(28,000)	(46,514)	0	46,514	(58,274,346)	13,350	693	9,245,512	(49,028,834)	1,267,295	(980,577)	0
Total		(181,237,840)	(220,116,873)	(10,514,323)	220,116,873	(271,155,377)	476,277		260,811,273		12,797,150	(793,917)	

Assumptions									
Total GFA Growth		476,277							
Inflation	2.71								
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)		10							
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2041	\$10,309,310								
Discount Rate Applied to Post 2041 Debt Paym	ients	2.60%							

Calculated Development Charge per Capita	\$46

	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	4,735,689	(1,550,584)	(1,550,584)	0	1,550,584	(21,321)	20,326	46	939,621	918,300	63,932	6,199	5,724,119
2023	5,724,119	(1,062,387)	(1,091,149)	0	1,091,149	(202,682)	20,326	47	965,059	762,377	85,862	5,718	6,578,076
2024	6,578,076	(1,069,266)	(1,127,946)	0	1,127,946	(336,782)	20,326	49	991,186	654,404	111,827	5,562	7,349,870
2025	7,349,870	(1,076,296)	(1,166,099)	0	1,166,099	(476,170)	20,326	50	1,018,020	541,851	132,298	4,877	8,028,895
2026	8,028,895	(1,601,500)	(1,782,100)	0	1,782,100	(630,039)	21,883	51	1,125,674	495,635	148,535	4,585	8,677,650
2027	8,677,650	(1,739,876)	(1,988,495)	0	1,988,495	(854,316)	23,439	53	1,238,358	384,042	169,214	3,744	9,234,650
2028	9,234,650	(1,541,465)	(1,809,429)	0	1,809,429	(1,098,331)	23,439	54	1,271,884	173,552	184,693	1,736	9,594,631
2029	9,594,631	(1,549,131)	(1,867,657)	0	1,867,657	(1,325,145)	23,439	56	1,306,317	(18,827)	201,487	(329)	9,776,962
2030	9,776,962	(711,806)	(881,397)	0	881,397	(1,542,211)	23,439	57	1,341,683	(200,527)	229,759	(3,760)	9,802,433
2031	9,802,433	(719,811)	(915,440)	0	915,440	(1,655,358)	25,131	59	1,477,481	(177,877)	254,863	(3,558)	9,875,862
2032	9,875,862	(859,025)	(1,122,067)	0	1,122,067	(1,755,195)	26,823	60	1,619,649	(135,546)	256,772	(2,711)	9,994,377
2033	9,994,377	(736,349)	(987,866)	0	987,866	(1,714,589)	26,823	62	1,663,497	(51,092)	259,854	(1,022)	10,202,118
2034	10,202,118	(1,590,050)	(2,190,917)	0	2,190,917	(1,730,834)	26,823	64	1,708,533	(22,301)	265,255	(446)	10,444,626
2035	10,444,626	(1,598,778)	(2,262,585)	0	2,262,585	(1,872,955)	26,823	65	1,754,788	(118,167)	271,560	(2,363)	10,595,656
2036	10,595,656	(1,607,698)	(2,336,805)	0	2,336,805	(2,009,807)	26,761	67	1,798,129	(211,678)	275,487	(4,234)	10,655,232
2037	10,655,232	(1,747,848)	(2,609,292)	0	2,609,292	(2,089,705)	26,700	69	1,842,600	(247,105)	277,036	(4,942)	10,680,221
2038	10,680,221	(780,969)	(1,197,442)	0	1,197,442	(2,151,011)	26,700	71	1,892,485	(258,526)	277,686	(5,171)	10,694,210
2039	10,694,210	(790,488)	(1,244,849)	0	1,244,849	(2,078,220)	26,700	73	1,943,720	(134,501)	278,049	(2,690)	10,835,069
2040	10,835,069	(800,214)	(1,294,283)	0	1,294,283	(2,021,278)	26,700	75	1,996,342	(24,937)	281,712	(499)	11,091,346
2041	11,091,346	(810,154)	(1,345,835)	0	1,345,835	(12,181,783)	13,350	77	1,025,194	(11,156,589)	288,375	(223,132)	0
Total		(23,943,695)	(30,772,237)	0	30,772,237	(37,747,729)	476,277		28,920,219		4,314,256	(222,436)	

Assumptions									
Total GFA Growth 14,730									
Inflation		2.71%							
Interest	Earned Charge								
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30% 1.38% - 2.00								
New Debt Term (Years)		10							
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2041		\$741,508							
Discount Rate Applied to Post 2041 Debt Paym	nents	2.60%							

Calculated Development Charge per sqft	\$0.13

	Development		Develop	ment Related Expe	enditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	6,009	(111,527)	(111,527)	0	111,527	(1,534)	736,966	0.13	95,214	93,680	81	632	100,403
2023	100,403	(76,413)	(78,482)	0	78,482	(14,578)	737,005	0.13	97,797	83,219	1,506	624	185,752
2024	185,752	(76,908)	(81,129)	0	81,129	(24,223)	736,966	0.14	100,439	76,216	3,158	648	265,773
2025	265,773	(77,414)	(83,873)	0	83,873	(34,249)	736,966	0.14	103,158	68,909	4,784	620	340,086
2026	340,086	(115,190)	(128,179)	0	128,179	(45,316)	725,783	0.14	104,343	59,027	6,292	546	405,951
2027	405,951	(125,142)	(143,025)	0	143,025	(61,448)	697,281	0.15	102,960	41,512	7,916	405	455,784
2028	455,784	(110,871)	(130,145)	0	130,145	(78,999)	697,242	0.15	105,741	26,742	9,116	267	491,909
2029	491,909	(111,423)	(134,333)	0	134,333	(95,312)	697,281	0.16	108,610	13,297	10,330	140	515,676
2030	515,676	(51,197)	(63,395)	0	63,395	(110,925)	697,242	0.16	111,544	619	12,118	7	528,421
2031	528,421	(51,773)	(65,844)	0	65,844	(119,063)	735,504	0.16	120,851	1,787	13,739	23	543,970
2032	543,970	(61,786)	(80,706)	0	80,706	(126,244)	775,604	0.17	130,890	4,645	14,143	60	562,819
2033	562,819	(52,963)	(71,053)	0	71,053	(123,324)	775,604	0.17	134,433	11,110	14,633	144	588,707
2034	588,707	(114,366)	(157,584)	0	157,584	(124,492)	775,604	0.18	138,073	13,581	15,306	177	617,770
2035	617,770	(114,994)	(162,739)	0	162,739	(134,714)	775,604	0.18	141,811	7,096	16,062	92	641,021
2036	641,021	(115,635)	(168,077)	0	168,077	(144,557)	800,261	0.19	150,280	5,723	16,667	74	663,485
2037	663,485	(125,716)	(187,676)	0	187,676	(150,304)	806,907	0.19	155,631	5,326	17,251	69	686,131
2038	686,131	(56,172)	(86,127)	0	86,127	(154,714)	806,945	0.20	159,852	5,138	17,839	67	709,175
2039	709,175	(56,857)	(89,537)	0	89,537	(149,478)	806,907	0.20	164,171	14,693	18,439	191	742,498
2040	742,498	(57,556)	(93,093)	0	93,093	(145,383)	806,945	0.21	168,624	23,241	19,305	302	785,346
2041	785,346	(58,271)	(96,801)	0	96,801	(876,187)	401,733	0.21	86,221	(789,966)	20,419	(15,799)	0
Total		(1,722,175)	(2,213,325)	0	2,213,325	(2,715,044)	14,730,349		2,480,641		239,104	(10,709)	

Assumptions									
Total GFA Growth									
Inflation	2.719								
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)		10							
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2041	\$2,700,734								
Discount Rate Applied to Post 2041 Debt Paym	ents	2.60%							

Calculated Development Charge per sqft	\$0.09

	Development		Developr	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Reve	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(4,799)	(406,207)	(406,207)	0	406,207	(5,585)	4,021,383	0.09	350,494	344,908	(132)	2,328	342,305
2023	342,305	(278,314)	(285,849)	0	285,849	(53,097)	4,021,383	0.09	359,982	306,886	5,135	2,302	656,627
2024	656,627	(280,116)	(295,488)	0	295,488	(88,227)	4,021,383	0.09	369,728	281,501	11,163	2,393	951,684
2025	951,684	(281,958)	(305,483)	0	305,483	(124,742)	4,021,383	0.09	379,738	254,996	17,130	2,295	1,226,105
2026	1,226,105	(419,546)	(466,858)	0	466,858	(165,052)	3,963,103	0.10	384,366	219,315	22,683	2,029	1,470,131
2027	1,470,131	(455,796)	(520,927)	0	520,927	(223,805)	3,827,293	0.10	381,244	157,438	28,668	1,535	1,657,772
2028	1,657,772	(403,818)	(474,017)	0	474,017	(287,730)	3,827,293	0.10	391,565	103,835	33,155	1,038	1,795,801
2029	1,795,801	(405,826)	(489,271)	0	489,271	(347,149)	3,827,293	0.11	402,166	55,017	37,712	578	1,889,107
2030	1,889,107	(186,472)	(230,900)	0	230,900	(404,014)	3,827,293	0.11	413,054	9,040	44,394	106	1,942,648
2031	1,942,648	(188,569)	(239,818)	0	239,818	(433,655)	4,037,794	0.11	447,569	13,915	50,509	181	2,007,252
2032	2,007,252	(225,039)	(293,948)	0	293,948	(459,809)	4,161,884	0.11	473,813	14,004	52,189	182	2,073,627
2033	2,073,627	(192,902)	(258,792)	0	258,792	(449,172)	4,161,884	0.12	486,641	37,469	53,914	487	2,165,498
2034	2,165,498	(416,546)	(573,956)	0	573,956	(453,427)	4,161,884	0.12	499,816	46,389	56,303	603	2,268,793
2035	2,268,793	(418,833)	(592,730)	0	592,730	(490,659)	4,161,884	0.12	513,347	22,689	58,989	295	2,350,765
2036	2,350,765	(421,169)	(612,174)	0	612,174	(526,510)	4,293,709	0.13	543,945	17,435	61,120	227	2,429,546
2037	2,429,546	(457,884)	(683,557)	0	683,557	(547,441)	4,334,163	0.13	563,935	16,494	63,168	214	2,509,423
2038	2,509,423	(204,591)	(313,694)	0	313,694	(563,501)	4,334,163	0.13	579,202	15,701	65,245	204	2,590,573
2039	2,590,573	(207,084)	(326,114)	0	326,114	(544,432)	4,334,163	0.14	594,883	50,451	67,355	656	2,709,035
2040	2,709,035	(209,632)	(339,064)	0	339,064	(529,515)	4,334,163	0.14	610,988	81,473	70,435	1,059	2,862,002
2041	2,862,002	(212,236)	(352,569)	0	352,569	(3,191,267)	2,157,860	0.14	312,430	(2,878,837)	74,412	(57,577)	0
Total		(6,272,540)	(8,061,416)	0	8,061,416	(9,888,788)	79,831,360		9,058,907		873,546	(38,865)	

Total GFA Growth 1,554							
2.71							
Earned Char							
1.35% - 2.60%	2.75% - 4.00%						
0.68% - 1.30%	1.38% - 2.00%						
	10						
Fre	om 2.75% to 4.00%						
	\$16,793						
Discount Rate Applied to Post 2041 Debt Payments 2.6							
	1.35% - 2.60% 0.68% - 1.30% Fre						

Calculated Development Charge per sqft	\$0.03

	Development		Develop	ment Related Expe	enditures			Development	Anticipated In Year	In Year	Interest Reve	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	0	(2,526)	(2,526)	0	2,526	(35)	72,000	0.03	2,001	1,966	0	13	1,980
2023	1,980	(1,731)	(1,777)	0	1,777	(330)	72,000	0.03	2,055	1,725	30	13	3,747
2024	3,747	(1,742)	(1,837)	0	1,837	(549)	72,000	0.03	2,111	1,562	64	13	5,387
2025	5,387	(1,753)	(1,899)	0	1,899	(776)	72,000	0.03	2,168	1,392	97	13	6,889
2026	6,889	(2,609)	(2,903)	0	2,903	(1,026)	74,000	0.03	2,289	1,262	127	12	8,290
2027	8,290	(2,834)	(3,239)	0	3,239	(1,392)	74,000	0.03	2,351	959	162	9	9,420
2028	9,420	(2,511)	(2,947)	0	2,947	(1,789)	74,000	0.03	2,414	625	188	6	10,240
2029	10,240	(2,523)	(3,042)	0	3,042	(2,159)	74,000	0.03	2,480	321	215	3	10,779
2030	10,779	(1,159)	(1,436)	0	1,436	(2,512)	74,000	0.03	2,547	35	253	0	11,067
2031	11,067	(1,172)	(1,491)	0	1,491	(2,696)	78,000	0.04	2,757	61	288	1	11,416
2032	11,416	(1,399)	(1,828)	0	1,828	(2,859)	84,000	0.04	3,049	190	297	2	11,906
2033	11,906	(1,199)	(1,609)	0	1,609	(2,793)	84,000	0.04	3,132	339	310	4	12,559
2034	12,559	(2,590)	(3,569)	0	3,569	(2,819)	84,000	0.04	3,217	397	327	5	13,288
2035	13,288	(2,604)	(3,685)	0	3,685	(3,051)	84,000	0.04	3,304	253	346	3	13,890
2036	13,890	(2,619)	(3,806)	0	3,806	(3,274)	86,000	0.04	3,474	200	361	3	14,454
2037	14,454	(2,847)	(4,250)	0	4,250	(3,404)	88,000	0.04	3,651	247	376	3	15,081
2038	15,081	(1,272)	(1,950)	0	1,950	(3,504)	88,000	0.04	3,750	246	392	3	15,722
2039	15,722	(1,288)	(2,028)	0	2,028	(3,385)	88,000	0.04	3,852	466	409	6	16,603
2040	16,603	(1,303)	(2,108)	0	2,108	(3,292)	88,000	0.04	3,956	663	432	9	17,707
2041	17,707	(1,320)	(2,192)	0	2,192	(19,843)	44,000	0.05	2,031	(17,811)	460	(356)	(0)
Total		(39,002)	(50,125)	0	50,125	(61,487)	1,554,000		56,588		5,132	(233)	

Assumptions									
Total GFA Growth	476,277								
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)	10								
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2041	\$0								
Discount Rate Applied to Post 2041 Debt Paym	ents 1.90%								

Calculated Development Charge per Capita \$17

	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Reve	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(4,213,118)	(57,660)	(57,660)	(443,717)	57,660	(793)	20,326	17	344,807	(99,703)	(115,861)	(1,371)	(4,430,053)
2023	(4,430,053)	0	0	(443,717)	0	(6,949)	20,326	17	354,142	(96,524)	(128,472)	(1,400)	(4,656,448)
2024	(4,656,448)	0	0	(443,717)	0	(6,949)	20,326	18	363,729	(86,936)	(144,350)	(1,348)	(4,889,081)
2025	(4,889,081)	0	0	(443,717)	0	(6,949)	20,326	18	373,576	(77,089)	(156,451)	(1,233)	(5,123,854)
2026	(5,123,854)	0	0	(443,717)	0	(6,949)	21,883	19	413,081	(37,584)	(166,525)	(611)	(5,328,574)
2027	(5,328,574)	0	0	(443,717)	0	(6,949)	23,439	19	454,432	3,767	(178,507)	37	(5,503,277)
2028	(5,503,277)	0	0	(443,717)	0	(6,949)	23,439	20	466,735	16,070	(187,111)	161	(5,674,158)
2029	(5,674,158)	0	0	(394,696)	0	(6,949)	23,439	20	479,371	77,726	(198,596)	816	(5,794,211)
2030	(5,794,211)	0	0	0	0	(6,949)	23,439	21	492,349	485,400	(217,283)	5,703	(5,520,391)
2031	(5,520,391)	0	0	0	0	(6,949)	25,131	22	542,182	535,233	(220,816)	6,958	(5,199,015)
2032	(5,199,015)	0	0	0	0	(6,156)	26,823	22	594,352	588,196	(207,961)	7,647	(4,811,133)
2033	(4,811,133)	0	0	0	0	0	26,823	23	610,443	610,443	(192,445)	7,936	(4,385,199)
2034	(4,385,199)	0	0	0	0	0	26,823	23	626,969	626,969	(175,408)	8,151	(3,925,487)
2035	(3,925,487)	0	0	0	0	0	26,823	24	643,943	643,943	(157,019)	8,371	(3,430,192)
2036	(3,430,192)	0	0	0	0	0	26,761	25	659,848	659,848	(137,208)	8,578	(2,898,974)
2037	(2,898,974)	0	0	0	0	0	26,700	25	676,167	676,167	(115,959)	8,790	(2,329,976)
2038	(2,329,976)	0	0	0	0	0	26,700	26	694,473	694,473	(93,199)	9,028	(1,719,674)
2039	(1,719,674)	0	0	0	0	0	26,700	27	713,274	713,274	(68,787)	9,273	(1,065,914)
2040	(1,065,914)	0	0	0	0	0	26,700	27	732,585	732,585	(42,637)	9,524	(366,442)
2041	(366,442)	0	0	0	0	0	13,350	28	376,209	376,209	(14,658)	4,891	0
Total		(57,660)	(57,660)	(3,500,712)	57,660	(69,486)	476,277		10,612,667		(2,919,251)	89,900	

Assump	otions						
Total GFA Growth		14,730,349					
Inflation		2.71%					
Interest	Earned	Charged					
Opening Balance	1.35% - 2.60% 2.75% - 4.00						
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%					
New Debt Term (Years)		10					
New Debt interest	Fr	om 2.75% to 4.00%					
Target Reserve Balance 2041		\$0					
Discount Rate Applied to Post 2041 Debt Pay	/ments	ents 1.90%					

	Calculated Development Charge per sqft	\$0.04
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	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Rever	nue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(303,033)	(4,147)	(4,147)	(31,915)	4,147	(57)	736,966	0.04	28,992	(2,980)	(8,333)	(41)	(314,387)
2023	(314,387)	0	0	(31,915)	0	(500)	737,005	0.04	29,778	(2,636)	(9,117)	(38)	(326,179)
2024	(326,179)	0	0	(31,915)	0	(500)	736,966	0.04	30,583	(1,832)	(10,112)	(28)	(338,151)
2025	(338,151)	0	0	(31,915)	0	(500)	736,966	0.04	31,411	(1,004)	(10,821)	(16)	(349,991)
2026	(349,991)	0	0	(31,915)	0	(500)	725,783	0.04	31,772	(643)	(11,375)	(10)	(362,019)
2027	(362,019)	0	0	(31,915)	0	(500)	697,281	0.04	31,350	(1,064)	(12,128)	(18)	(375,229)
2028	(375,229)	0	0	(31,915)	0	(500)	697,242	0.05	32,197	(217)	(12,758)	(4)	(388,208)
2029	(388,208)	0	0	(28,389)	0	(500)	697,281	0.05	33,071	4,182	(13,587)	44	(397,569)
2030	(397,569)	0	0	0	0	(500)	697,242	0.05	33,964	33,464	(14,909)	393	(378,620)
2031	(378,620)	0	0	0	0	(500)	735,504	0.05	36,798	36,298	(15,145)	472	(356,995)
2032	(356,995)	0	0	0	0	(443)	775,604	0.05	39,855	39,412	(14,280)	512	(331,351)
2033	(331,351)	0	0	0	0	0	775,604	0.05	40,934	40,934	(13,254)	532	(303,139)
2034	(303,139)	0	0	0	0	0	775,604	0.05	42,042	42,042	(12,126)	547	(272,676)
2035	(272,676)	0	0	0	0	0	775,604	0.06	43,180	43,180	(10,907)	561	(239,841)
2036	(239,841)	0	0	0	0	0	800,261	0.06	45,759	45,759	(9,594)	595	(203,081)
2037	(203,081)	0	0	0	0	0	806,907	0.06	47,388	47,388	(8,123)	616	(163,200)
2038	(163,200)	0	0	0	0	0	806,945	0.06	48,673	48,673	(6,528)	633	(120,422)
2039	(120,422)	0	0	0	0	0	806,907	0.06	49,989	49,989	(4,817)	650	(74,600)
2040	(74,600)	0	0	0	0	0	806,945	0.06	51,345	51,345	(2,984)	667	(25,572)
2041	(25,572)	0	0	0	0	0	401,733	0.07	26,254	26,254	(1,023)	341	0
Total		(4,147)	(4,147)	(251,792)	4,147	(4,998)	14,730,349		755,334		(201,919)	6,408	

Total GFA Growth 75								
Inflation	flation 2.1							
Interest	Earned	Charged						
Opening Balance	1.35% - 2.60%	2.75% - 4.00%						
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%						
New Debt Term (Years)		10						
New Debt interest	Fr	om 2.75% to 4.00%						
Target Reserve Balance 2041		\$0						
Discount Rate Applied to Post 2041 Deb	t Payments	ents 1.90%						

Calculated Development Charge per sqft	\$0.03	

	Development	Development Related Expenditures			Development	Anticipated	In Year	Interest Revenue/(Expense)					
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(1,103,712)	(15,105)	(15,105)	(116,241)	15,105	(208)	4,021,383	0.03	106,269	(10,179)	(30,352)	(140)	(1,144,384)
2023	(1,144,384)	0	0	(116,241)	0	(1,820)	4,021,383	0.03	109,146	(8,915)	(33,187)	(129)	(1,186,615)
2024	(1,186,615)	0	0	(116,241)	0	(1,820)	4,021,383	0.03	112,101	(5,960)	(36,785)	(92)	(1,229,453)
2025	(1,229,453)	0	0	(116,241)	0	(1,820)	4,021,383	0.03	115,136	(2,925)	(39,342)	(47)	(1,271,768)
2026	(1,271,768)	0	0	(116,241)	0	(1,820)	3,963,103	0.03	116,539	(1,522)	(41,332)	(25)	(1,314,647)
2027	(1,314,647)	0	0	(116,241)	0	(1,820)	3,827,293	0.03	115,592	(2,469)	(44,041)	(41)	(1,361,198)
2028	(1,361,198)	0	0	(116,241)	0	(1,820)	3,827,293	0.03	118,722	661	(46,281)	7	(1,406,811)
2029	(1,406,811)	0	0	(103,399)	0	(1,820)	3,827,293	0.03	121,936	16,717	(49,238)	176	(1,439,157)
2030	(1,439,157)	0	0	0	0	(1,820)	3,827,293	0.03	125,237	123,417	(53,968)	1,450	(1,368,259)
2031	(1,368,259)	0	0	0	0	(1,820)	4,037,794	0.03	135,702	133,882	(54,730)	1,740	(1,287,367)
2032	(1,287,367)	0	0	0	0	(1,613)	4,161,884	0.03	143,659	142,047	(51,495)	1,847	(1,194,969)
2033	(1,194,969)	0	0	0	0	0	4,161,884	0.04	147,548	147,548	(47,799)	1,918	(1,093,301)
2034	(1,093,301)	0	0	0	0	0	4,161,884	0.04	151,543	151,543	(43,732)	1,970	(983,520)
2035	(983,520)	0	0	0	0	0	4,161,884	0.04	155,646	155,646	(39,341)	2,023	(865,192)
2036	(865,192)	0	0	0	0	0	4,293,709	0.04	164,923	164,923	(34,608)	2,144	(732,732)
2037	(732,732)	0	0	0	0	0	4,334,163	0.04	170,984	170,984	(29,309)	2,223	(588,835)
2038	(588,835)	0	0	0	0	0	4,334,163	0.04	175,613	175,613	(23,553)	2,283	(434,493)
2039	(434,493)	0	0	0	0	0	4,334,163	0.04	180,367	180,367	(17,380)	2,345	(269,161)
2040	(269,161)	0	0	0	0	0	4,334,163	0.04	185,250	185,250	(10,766)	2,408	(92,269)
2041	(92,269)	0	0	0	0	0	2,157,860	0.04	94,728	94,728	(3,691)	1,231	0
Total		(15,105)	(15,105)	(917,083)	15,105	(18,203)	79,831,360		2,746,639		(730,931)	23,291	

Assumpti	ons					
Total GFA Growth		1,554,000				
Inflation		2.71%				
Interest	Earned	Charged				
Opening Balance	1.35% - 2.60%	2.75% - 4.00%				
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%				
New Debt Term (Years)	10					
New Debt interest From 2.759						
Target Reserve Balance 2041	\$0					
Discount Rate Applied to Post 2041 Debt Payn	ents 2.60%					

	Calculated Development Charge per sqft	\$0.01
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	Development		Developr	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(6,863)	(94)	(94)	(723)	94	(1)	72,000	0.01	609	(115)	(189)	(2)	(7,168)
2023	(7,168)	0	0	(723)	0	(11)	72,000	0.01	626	(108)	(208)	(2)	(7,486)
2024	(7,486)	0	0	(723)	0	(11)	72,000	0.01	643	(91)	(232)	(1)	(7,811)
2025	(7,811)	0	0	(723)	0	(11)	72,000	0.01	660	(74)	(250)	(1)	(8,136)
2026	(8,136)	0	0	(723)	0	(11)	74,000	0.01	697	(37)	(264)	(1)	(8,438)
2027	(8,438)	0	0	(723)	0	(11)	74,000	0.01	716	(18)	(283)	(0)	(8,739)
2028	(8,739)	0	0	(723)	0	(11)	74,000	0.01	735	1	(297)	0	(9,036)
2029	(9,036)	0	0	(643)	0	(11)	74,000	0.01	755	101	(316)	1	(9,250)
2030	(9,250)	0	0	0	0	(11)	74,000	0.01	775	764	(347)	9	(8,824)
2031	(8,824)	0	0	0	0	(11)	78,000	0.01	839	828	(353)	11	(8,338)
2032	(8,338)	0	0	0	0	(10)	84,000	0.01	928	918	(334)	12	(7,742)
2033	(7,742)	0	0	0	0	0	84,000	0.01	954	954	(310)	12	(7,085)
2034	(7,085)	0	0	0	0	0	84,000	0.01	979	979	(283)	13	(6,377)
2035	(6,377)	0	0	0	0	0	84,000	0.01	1,006	1,006	(255)	13	(5,613)
2036	(5,613)	0	0	0	0	0	86,000	0.01	1,058	1,058	(225)	14	(4,766)
2037	(4,766)	0	0	0	0	0	88,000	0.01	1,112	1,112	(191)	14	(3,830)
2038	(3,830)	0	0	0	0	0	88,000	0.01	1,142	1,142	(153)	15	(2,827)
2039	(2,827)	0	0	0	0	0	88,000	0.01	1,173	1,173	(113)	15	(1,752)
2040	(1,752)	0	0	0	0	0	88,000	0.01	1,204	1,204	(70)	16	(602)
2041	(602)	0	0	0	0	0	44,000	0.01	618	618	(24)	8	(0)
Total		(94)	(94)	(5,702)	94	(113)	1,554,000		17,228		(4,696)	146	

Assumptions									
Total GFA Growth		222,074							
Inflation	2.7								
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)		10							
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2031		\$15,661,813							
Discount Rate Applied to Post 2031 Debt Paym	ents	2.60%							

Calculated Development Charge per Capita	\$201

	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Population Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	Reserve In-Year Charge R	Development Charge Reserve
2022	(1,083,628)	(8,191,735)	(8,191,735)	(1,046,493)	8,191,735	(112,636)	20,326	201	4,085,468	2,926,339	(29,800)	19,753	1,832,663
2023	1,832,663	(6,097,095)	(6,262,161)	(1,046,493)	6,262,161	(1,077,983)	20,326	206	4,196,074	2,071,598	27,490	15,537	3,947,288
2024	3,947,288	(7,792,917)	(8,220,582)	(1,046,493)	8,220,582	(1,874,672)	20,326	212	4,309,674	1,388,508	67,104	11,802	5,414,702
2025	5,414,702	(1,566,323)	(1,697,013)	(1,046,493)	1,697,013	(2,781,719)	20,326	218	4,426,349	598,137	97,465	5,383	6,115,688
2026	6,115,688	(484,482)	(539,117)	(1,050,738)	539,117	(2,972,260)	21,883	224	4,894,428	871,430	113,140	8,061	7,108,319
2027	7,108,319	(254,413)	(290,768)	(1,093,839)	290,768	(3,034,902)	23,439	230	5,384,376	1,255,635	138,612	12,242	8,514,808
2028	8,514,808	(348,056)	(408,561)	(1,128,341)	408,561	(3,073,031)	23,439	236	5,530,147	1,328,775	170,296	13,288	10,027,167
2029	10,027,167	(1,731,875)	(2,087,975)	(1,128,341)	2,087,975	(3,153,404)	23,439	242	5,679,864	1,398,119	210,571	14,680	11,650,537
2030	11,650,537	(1,201,792)	(1,488,126)	(1,104,964)	1,488,126	(3,405,502)	23,439	249	5,833,635	1,323,168	273,788	15,547	13,263,040
2031	13,263,040	(1,274,816)	(1,621,284)	(4,524,850)	1,621,284	(15,240,292)	25,131	256	6,424,084	(13,341,058)	344,839	(266,821)	0
Total		(28,943,504)	(30,807,322)	(14,217,048)	30,807,322	(36,726,400)	222,074		50,764,100		1,413,505	(150,527)	

Assumptions									
Total GFA Growth 7,198									
	2.71%								
Earned	Charged								
1.35% - 2.60%	2.75% - 4.00%								
0.68% - 1.30% 1.38% - 2.00%									
	10								
Fr	om 2.75% to 4.00%								
	\$393,534								
Discount Rate Applied to Post 2031 Debt Payments 2.6									
	Earned 1.35% - 2.60% 0.68% - 1.30%								

Calculated Development Charge per sqft	\$0.16

	Development		Develop	ment Related Expe	nditures			Development Anticipated		In Year	Interest Reven	ue/(Expense)	
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(27,228)	(205,834)	(205,834)	(26,295)	205,834	(2,830)	736,966	0.16	115,055	85,930	(749)	580	58,532
2023	58,532	(153,202)	(157,349)	(26,295)	157,349	(27,086)	737,005	0.16	118,176	64,794	878	486	124,691
2024	124,691	(195,813)	(206,559)	(26,295)	206,559	(47,105)	736,966	0.16	121,369	47,969	2,120	408	175,187
2025	175,187	(39,357)	(42,641)	(26,295)	42,641	(69,896)	736,966	0.17	124,655	28,463	3,153	256	207,060
2026	207,060	(12,174)	(13,546)	(26,402)	13,546	(74,684)	725,783	0.17	126,087	25,001	3,831	231	236,123
2027	236,123	(6,393)	(7,306)	(27,485)	7,306	(76,258)	697,281	0.18	124,415	20,672	4,604	202	261,601
2028	261,601	(8,746)	(10,266)	(28,352)	10,266	(77,216)	697,242	0.18	127,776	22,208	5,232	222	289,263
2029	289,263	(43,517)	(52,465)	(28,352)	52,465	(79,236)	697,281	0.19	131,243	23,655	6,075	248	319,241
2030	319,241	(30,197)	(37,392)	(27,764)	37,392	(85,570)	697,242	0.19	134,788	21,454	7,502	252	348,449
2031	348,449	(32,032)	(40,738)	(113,665)	40,738	(382,869)	735,504	0.20	146,034	(350,499)	9,060	(7,010)	0
Total		(727,264)	(774,096)	(357,201)	774,096	(922,750)	7,198,237		1,269,598		41,706	(4,125)	

Assumptions								
Total GFA Growth	Total GFA Growth 39,395							
Inflation	2.71							
Interest	Earned	Charged						
Opening Balance	1.35% - 2.60%	2.75% - 4.00%						
In-year Transactions	0.68% - 1.30% 1.38% - 2.00							
New Debt Term (Years)		10						
New Debt interest	Fr	om 2.75% to 4.00%						
Target Reserve Balance 2031		\$1,432,438						
Discount Rate Applied to Post 2031 Debt Payments 2.								

Calculated Development Charge per sqft	\$0.10

	Development		Develop	ment Related Expe	nditures			Development	Anticipated	In Year	Interest Revenue/(Expense)		
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(99,109)	(749,220)	(749,220)	(95,713)	749,220	(10,302)	4,021,383	0.10	417,522	311,507	(2,726)	2,103	211,775
2023	211,775	(557,643)	(572,740)	(95,713)	572,740	(98,593)	4,021,383	0.11	428,826	234,520	3,177	1,759	451,231
2024	451,231	(712,744)	(751,859)	(95,713)	751,859	(171,459)	4,021,383	0.11	440,435	173,264	7,671	1,473	633,638
2025	633,638	(143,257)	(155,210)	(95,713)	155,210	(254,417)	4,021,383	0.11	452,359	102,229	11,405	920	748,193
2026	748,193	(44,311)	(49,308)	(96,101)	49,308	(271,844)	3,963,103	0.12	457,872	89,927	13,842	832	852,793
2027	852,793	(23,269)	(26,594)	(100,043)	26,594	(277,574)	3,827,293	0.12	454,153	76,536	16,629	746	946,704
2028	946,704	(31,833)	(37,367)	(103,199)	37,367	(281,061)	3,827,293	0.12	466,448	82,188	18,934	822	1,048,649
2029	1,048,649	(158,398)	(190,967)	(103,199)	190,967	(288,412)	3,827,293	0.13	479,076	87,466	22,022	918	1,159,054
2030	1,159,054	(109,917)	(136,105)	(101,061)	136,105	(311,469)	3,827,293	0.13	492,046	79,517	27,238	934	1,266,743
2031	1,266,743	(116,595)	(148,283)	(413,735)	148,283	(1,393,622)	4,037,794	0.13	533,162	(1,274,194)	32,935	(25,484)	0
Total		(2,647,188)	(2,817,654)	(1,300,188)	2,817,654	(3,358,753)	39,395,602		4,621,900		151,127	(14,977)	

Assumptions									
Total GFA Growth 736,									
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30% 1.38% - 2.								
New Debt Term (Years)		10							
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2031	\$8,647								
Discount Rate Applied to Post 2031 Debt Paym	2.60%								

Calculated Development Charge per sqft	\$0.03

	Development		Developn	nent Related Expe	nditures			Development	Anticipated	In Year	Interest Rever		
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	ge (Inflated) Development	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	(598)	(4,523)	(4,523)	(578)	4,523	(62)	72,000	0.03	2,414	1,774	(16)	12	1,171
2023	1,171	(3,366)	(3,457)	(578)	3,457	(595)	72,000	0.03	2,479	1,306	18	10	2,504
2024	2,504	(4,303)	(4,539)	(578)	4,539	(1,035)	72,000	0.04	2,546	933	43	8	3,488
2025	3,488	(865)	(937)	(578)	937	(1,536)	72,000	0.04	2,615	501	63	5	4,057
2026	4,057	(267)	(298)	(580)	298	(1,641)	74,000	0.04	2,760	539	75	5	4,676
2027	4,676	(140)	(161)	(604)	161	(1,676)	74,000	0.04	2,835	556	91	5	5,328
2028	5,328	(192)	(226)	(623)	226	(1,697)	74,000	0.04	2,912	592	107	6	6,033
2029	6,033	(956)	(1,153)	(623)	1,153	(1,741)	74,000	0.04	2,991	627	127	7	6,793
2030	6,793	(664)	(822)	(610)	822	(1,880)	74,000	0.04	3,072	581	160	7	7,541
2031	7,541	(704)	(895)	(2,498)	895	(8,413)	78,000	0.04	3,325	(7,586)	196	(152)	0
Total		(15,980)	(17,009)	(7,849)	17,009	(20,276)	736,000		27,949		862	(88)	

Assumptions								
Total GFA Growth		222,074						
Inflation		2.71%						
Interest	Earned	Charged						
Opening Balance	1.35% - 2.60%	2.75% - 4.00%						
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%						
New Debt Term (Years)		10						
New Debt interest	Fr	om 2.75% to 4.00%						
Target Reserve Balance 2031	\$22,505,223							
Discount Rate Applied to Post 2031 Debt Paym	ients 2.60%							

Calculated Development Charge per Capita \$10	Calculated Development Charge per Capita	\$102
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	Development		Develop	ment Related Expe	nditures		Annual Gross	Development	Anticipated	In Year	Interest Revenue/(Expense)		
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Growth	Charge (Inflated) per Capita	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	11,943,883	(3,093,462)	(3,093,462)	0	3,093,462	(42,535)	20,326	102	2,071,645	2,029,110	161,242	13,696	14,147,932
2023	14,147,932	(3,093,462)	(3,177,211)	0	3,177,211	(418,861)	20,326	105	2,127,731	1,708,870	212,219	12,817	16,081,837
2024	16,081,837	(3,093,462)	(3,263,227)	0	3,263,227	(809,006)	20,326	108	2,185,335	1,376,328	273,391	11,699	17,743,256
2025	17,743,256	(3,093,462)	(3,351,572)	0	3,351,572	(1,211,913)	20,326	110	2,244,498	1,032,585	319,379	9,293	19,104,513
2026	19,104,513	(3,093,462)	(3,442,309)	0	3,442,309	(1,626,864)	21,883	113	2,481,850	854,986	353,433	7,909	20,320,840
2027	20,320,840	(3,093,462)	(3,535,503)	0	3,535,503	(2,054,961)	23,439	116	2,730,291	675,330	396,256	6,584	21,399,012
2028	21,399,012	(3,093,462)	(3,631,219)	0	3,631,219	(2,495,855)	23,439	120	2,804,208	308,353	427,980	3,084	22,138,428
2029	22,138,428	(3,093,462)	(3,729,527)	0	3,729,527	(2,950,707)	23,439	123	2,880,126	(70,581)	464,907	(1,235)	22,531,519
2030	22,531,519	(3,093,462)	(3,830,496)	0	3,830,496	(3,422,987)	23,439	126	2,958,100	(464,887)	529,491	(8,717)	22,587,406
2031	22,587,406	(3,093,462)	(3,934,199)	0	3,934,199	(25,977,776)	25,131	130	3,257,502	(22,720,273)	587,273	(454,405)	(0)
Total		(30,934,620)	(34,988,725)	0	34,988,725	(41,011,464)	222,074		25,741,286		3,725,572	(399,276)	

Assumptions								
Total GFA Growth 7,198,23								
Inflation		2.71%						
Interest	Earned Charged							
Opening Balance	1.35% - 2.60% 2.75% - 4.00							
In-year Transactions	0.68% - 1.30% 1.38% - 2.009							
New Debt Term (Years)		10						
New Debt interest	Fr	om 2.75% to 4.00%						
Target Reserve Balance 2031		\$139,934						
Discount Rate Applied to Post 2031 Debt Pay	ients 2.60%							

Calculated Development Charge per sqft \$0.02	Calculated Development Charge per sqft	\$0.02
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	Development		Develop	ment Related Expe	enditures			Development	Anticipated	In Year	Interest Revenue/(Expense)		
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	72,303	(19,235)	(19,235)	0	19,235	(264)	736,966	0.02	14,633	14,369	976	97	87,745
2023	87,745	(19,235)	(19,755)	0	19,755	(2,604)	737,005	0.02	15,030	12,426	1,316	93	101,581
2024	101,581	(19,235)	(20,290)	0	20,290	(5,030)	736,966	0.02	15,437	10,406	1,727	88	113,802
2025	113,802	(19,235)	(20,840)	0	20,840	(7,535)	736,966	0.02	15,854	8,319	2,048	75	124,244
2026	124,244	(19,235)	(21,404)	0	21,404	(10,116)	725,783	0.02	16,037	5,921	2,299	55	132,519
2027	132,519	(19,235)	(21,983)	0	21,983	(12,777)	697,281	0.02	15,824	3,046	2,584	30	138,179
2028	138,179	(19,235)	(22,578)	0	22,578	(15,519)	697,242	0.02	16,251	733	2,764	7	141,682
2029	141,682	(19,235)	(23,190)	0	23,190	(18,347)	697,281	0.02	16,692	(1,655)	2,975	(29)	142,974
2030	142,974	(19,235)	(23,817)	0	23,817	(21,284)	697,242	0.02	17,143	(4,140)	3,360	(78)	142,116
2031	142,116	(19,235)	(24,462)	0	24,462	(161,526)	735,504	0.03	18,574	(142,952)	3,695	(2,859)	(0)
Total		(192,346)	(217,554)	0	217,554	(255,003)	7,198,237		161,476		23,744	(2,520)	

Assumptions								
Total GFA Growth 39,395,60								
Inflation		2.71%						
Interest	Earned Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%						
In-year Transactions	0.68% - 1.30% 1.38% - 2.00%							
New Debt Term (Years)		10						
New Debt interest	Fr	om 2.75% to 4.00%						
Target Reserve Balance 2031		\$509,670						
Discount Rate Applied to Post 2031 Debt Paym	ients 2.60%							

Calculated Development Charge per sqft	\$0.01

	Development	Development Related Expenditures							Anticipated	In Year	Interest Revenue/(Expense)		
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	455,348	(70,057)	(70,057)	0	70,057	(963)	4,021,383	0.01	34,266	33,302	6,147	225	495,022
2023	495,022	(70,057)	(71,953)	0	71,953	(9,486)	4,021,383	0.01	35,193	25,708	7,425	193	528,348
2024	528,348	(70,057)	(73,901)	0	73,901	(18,321)	4,021,383	0.01	36,146	17,825	8,982	152	555,306
2025	555,306	(70,057)	(75,902)	0	75,902	(27,446)	4,021,383	0.01	37,125	9,679	9,996	87	575,068
2026	575,068	(70,057)	(77,957)	0	77,957	(36,843)	3,963,103	0.01	37,577	734	10,639	7	586,447
2027	586,447	(70,057)	(80,068)	0	80,068	(46,538)	3,827,293	0.01	37,272	(9,266)	11,436	(155)	588,462
2028	588,462	(70,057)	(82,235)	0	82,235	(56,523)	3,827,293	0.01	38,281	(18,242)	11,769	(310)	581,679
2029	581,679	(70,057)	(84,462)	0	84,462	(66,824)	3,827,293	0.01	39,317	(27,506)	12,215	(481)	565,906
2030	565,906	(70,057)	(86,748)	0	86,748	(77,519)	3,827,293	0.01	40,382	(37,138)	13,299	(696)	541,371
2031	541,371	(70,057)	(89,097)	0	89,097	(588,312)	4,037,794	0.01	43,756	(544,555)	14,076	(10,891)	0
Total		(700,568)	(792,380)	0	792,380	(928,776)	39,395,602		379,315		105,983	(11,871)	

Assumptions									
Total GFA Growth 736,0									
Inflation		2.71%							
Interest	Earned	Charged							
Opening Balance	1.35% - 2.60%	2.75% - 4.00%							
In-year Transactions	0.68% - 1.30%	1.38% - 2.00%							
New Debt Term (Years)		10							
New Debt interest	Fr	om 2.75% to 4.00%							
Target Reserve Balance 2031		\$3,169							
Discount Rate Applied to Post 2031 Debt Pay	ments	ients 2.60%							
1									

Calculated Development Charge per sqft	\$0.01

	Development							Development	Anticipated	In Year	Interest Revenue/(Expense)		
Year	Charge Reserve Fund Opening Balance	Nominal	Inflated	Existing Debt Payments	Debt Proceeds	Additional Debt Payments	Annual GFA Growth (sqft)	Charge (Inflated) per sqft	Development Charge Revenues	Transactions Surplus/ (Deficit)	Opening Reserve Balances	In-Year	Development Charge Reserve
2022	1,040	(436)	(436)	0	436	(6)	72,000	0.01	373	367	14	2	1,424
2023	1,424	(436)	(447)	0	447	(59)	72,000	0.01	383	324	21	2	1,771
2024	1,771	(436)	(460)	0	460	(114)	72,000	0.01	393	279	30	2	2,083
2025	2,083	(436)	(472)	0	472	(171)	72,000	0.01	404	233	37	2	2,355
2026	2,355	(436)	(485)	0	485	(229)	74,000	0.01	426	197	44	2	2,598
2027	2,598	(436)	(498)	0	498	(289)	74,000	0.01	438	148	51	1	2,798
2028	2,798	(436)	(511)	0	511	(351)	74,000	0.01	450	98	56	1	2,953
2029	2,953	(436)	(525)	0	525	(415)	74,000	0.01	462	46	62	0	3,062
2030	3,062	(436)	(539)	0	539	(482)	74,000	0.01	474	(8)	72	(0)	3,126
2031	3,126	(436)	(554)	0	554	(3,658)	78,000	0.01	513	(3,145)	81	(63)	(0)
Total		(4,356)	(4,927)	0	4,927	(5,775)	736,000		4,315		468	(49)	

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11 CURRENT DC BYLAW AND POLICIES

11.1 Overview

Development charges are fees levied on new residential and non-residential development in York Region, unless specifically exempted by the Act, section 110 of the Municipal Act, or the Region's Development Charges Bylaw. They are paid, normally as part of the building or occupancy permit issuance or occupancy approval and/or the subdivision/severance agreement process.

York Region's current Region-wide bylaw <u>2017-35</u> (as amended by bylaw <u>2018-42</u>) came into effect on June 17, 2017 and will expire on June 16, 2022.

The monies collected under the development charge bylaw are maintained in separate reserve funds for each of the services involved. Each development charge payment received is allocated to those reserve funds in accordance with the development charge rate for each service, as statutorily required and the monies collected are expended for the purposes for which the development charge was calculated.

Money borrowed from a reserve fund is returned with interest, at a rate not less than the prescribed minimum rate.

11.2 Schedule of Charges

Table 11-1 shows the development charges currently in effect, inclusive of indexing, as well as a breakdown of the charges by service.

TABLE 11-1

DEVELOPMENT CHARGES (AS OF DECEMBER 3, 2021)

	RESIDENTIAL			NON-RESIDENTIAL			
	Single		Apartments		Per Square Foot of GFA		
	and Semi- Detached	Multiple Unit Dwellings	Large Apartment >=700 sq. ft.	Small Apartment < 700 sq. ft.	Industrial / Office / Institutional	Retail	Hotel
Hard Services							
Water	\$10,578	\$8,516	\$6,188	\$4,521	\$3.96	\$6.39	\$1.12
Wastewater *	\$21,746	\$17,506	\$12,722	\$9,295	\$8.10	\$12.30	\$2.29
Roads	\$26,654	\$21,454	\$15,593	\$11,391	\$9.74	\$33.15	\$6.60
Subtotal - Hard	\$58,978	\$47,476	\$34,503	\$25,207	\$21.80	\$51.84	\$10.01
General Services							
Transit	\$1,509	\$1,214	\$883	\$645	\$0.62	\$2.10	\$0.48
Subway	\$2,921	\$2,350	\$1,709	\$1,248	\$1.05	\$3.59	\$0.70
Waste Diversion	\$47	\$39	\$29	\$20	\$0.03	\$0.03	\$0.03
Police	\$1,042	\$839	\$608	\$445	\$0.57	\$0.70	\$0.14
Paramedic Services	\$456	\$367	\$267	\$195	\$0.08	\$0.08	\$0.02
Public Health	\$134	\$107	\$78	\$59	\$0.01	\$0.01	\$0.00
Senior Services	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0.00
Social Housing	\$242	\$194	\$141	\$103	\$0.00	\$0.00	\$0.00
Growth Studies	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0.00
Public Works	\$234	\$190	\$136	\$100	\$0.13	\$0.12	\$0.05
Court Services	\$45	\$38	\$28	\$20	\$0.02	\$0.03	\$0.01
Subtotal - General	\$6,630	\$5,338	\$3,879	\$2,835	\$2.51	\$6.66	\$1.43
Total	\$65,608	\$52,814	\$38,382	\$28,042	\$24.31	\$58.50	\$11.44

* Nobleton wastewater charge applies instead of York Region's wastewater charge in the Village of Nobleton Does not include GO Transit development charges

11.3 Services Covered

The following table details the services covered under the 2017 Bylaw:

TABLE 11-2

SERVICES COVERED UNDER THE 2017 BYLAW

Service ¹	Service components
Roads	Growth structures (grade separations), new interchanges, midblock crossings, growth new infrastructure (missing links), growth widening to 4 and to 6 lanes, road improvements to support transit, environmental assessment, design, survey and property acquisition for future capital projects, Transportation Demand Management and Active Transportation programs and initiatives
Water	Planning and studies, storage, pumping, wells and water treatment, watermains and cost-shared projects (with Toronto and Peel)
Wastewater	Planning and studies, pumping, treatment, conveyance and cost- shared projects (with Peel)
Waste Diversion	Facilities, equipment and growth studies to expand on diversion capacity
Toronto-York Spadina Subway Extension	Land, stations, platforms, enclosures, subway infrastructure, vehicles, rights of way, system tracks, tunnel and single system, crossovers, and subway commuter facilities
Transit	Fleet expansion (YRT/Viva/Mobility Plus), transit garages, bus terminals and stops, electric bus infrastructure and charging stations, expansion of the automated fare collection system, bus rapid transit infrastructure and curbside service
Police	Facilities, vehicles and equipment, including communication, business intelligence and radio equipment
Paramedic services	Facilities and vehicles, including new stations and ambulances
Public Health	Facilities
Social Housing	Facilities
Senior Services-Capital Component	Facilities
Public Works	Facilities, vehicles and equipment to support Roads traffic operations
Growth Studies	Growth studies of a corporate nature to facilitate the implementation of the Region's capital program, such as Development Charges Background Studies, Municipal Comprehensive Review and Official Plan updates

 1 Financing costs associated with all services were included (where applicable).

11.4 Timing of Development Charge Calculation and Payment

Bill 108 amended the Act, permitting eligible development to freeze their development charges rates at site plan or zoning bylaw amendment application.

Development charges are ordinarily payable in full upon issuance of a building permit with respect to development, with the following exceptions:

- Eligible rental (that is not non-profit), institutional and non-profit development can phase in their development charges payments beginning at occupancy permit, or first occupancy, and for a period of between 5 and 20 years.
- In the case of development in a residential plan of subdivision, charges for the hard service component (water, wastewater and roads) must be paid at the time of Regional subdivision agreement signing. In accordance with the bylaw, payment must be made by certified cheque. If under extraordinary circumstances, the Regional Treasurer of York Region can determine that other forms of payment are appropriate, provided that it is in a format acceptable to the Treasurer of York Region.

The policy regarding full registration and phased payment of development charges in conjunction with build-out of residential subdivisions will be continued with the enactment of a revised development charges bylaw.

In the case of a non-residential building that includes both retail and non-retail uses, the determination of which non-residential charge is to apply to the floor area is based on the principal use of the building. The principal use is that which has the greater gross floor area. If no single use has 55 per cent or greater of the total gross floor area, then the development charge payable on the total gross floor area shall be the average of the two non-residential charges payable. Residential uses in mixed use buildings are charged according to the type and number of residential units and non-residential uses are charged in accordance with the type and quantity of gross floor area.

11.5 Indexing

The Development Charge rates are indexed for inflation on July 1 each year in accordance with the Statistics Canada Quarterly, Non-Residential Building Construction Price Index-Toronto (Table 18-10-0135-01).

11.6 Interest Policy – Under Section 26.1 and 26.2 of the Act

The Region's <u>DC Interest Policy</u> applies to the charging of interest, as permitted under sections 26.1 and 26.2 of the Act to developments that freeze development charges at site plan or zoning bylaw amendment application (Section 26.2 of the Act) or those developments who phase in their development charge payments (under Section 26.1 of the Act).

An interest rate of 5% will be charged, which will be compounded annually and accrues from the date of the eligible application until the date the total accrued amount is fully paid.

11.7 Redevelopment Credits

The 2017 Bylaw provides for a development charge reduction for certain qualified residential and non-residential redevelopment projects . If redevelopment occurs within 48 months of a building's demolition or conversion, a credit towards the development charges payable may be offered. The credit is intended to encourage timely redevelopment after demolition.

For residential developments, or in the case of the residential uses in a mixed-use building or structure, the credit amount is calculated by multiplying the applicable development charge by the number of dwelling units, according to type, that have been or will be demolished or converted to another principal use.

For non-residential uses or non-residential uses in a mixed-use building or structure, the credit amount is calculated by multiplying the applicable development charges by the gross floor area that has been or will be demolished or converted to another principal use.

The amount of credit given will not exceed the total amount of the development charges otherwise payable with respect to the redevelopment.

For the purposes of the above, the onus is on the applicant to produce evidence to the satisfaction of York Region to establish the following:

- The number of dwelling units that have been or will be demolished or converted to another principal use; or
- The non-residential gross floor area that has been or will be demolished or converted to another principal use

For buildings deemed to be derelict by the relevant area municipal Council, the credit is extended for an additional 72 months in a declining scale. The table below details the calculation of credits provided to derelict buildings.

TABLE 11-3

CALCULATION OF CREDITS FOR DERELICT BUILDINGS

Number of months from date of demolition permit to date of building permit issuance	Credit provided (%) ¹
Up to and including 48 months	100
Greater than 48 months up to and including 72 months	75
Greater than 72 months up to and including 96 months	50
Greater than 96months up to and including 120 months	25
Greater than 120 months	0

¹ Credits are calculated as a percentage of the prevailing development charge rates for the class of non-residential development or type of dwelling demolished.

11.8 Exemptions

11.8.1 Exemptions from the payment of development charges

The 2017 Bylaw includes a number of statutory and non-statutory exemptions.

Subject to restriction under the Regulations, the 2017 Bylaw, by way of the Act, provided residential development charges exemptions for additional dwelling units in existing residential buildings. Changes to the Act, through Bills 108 and 197 provide for expanded and additional residential exemptions, which will be discussed in Chapter 13 of this Background Study.

The Region also currently offers conditional development charges exemptions (full or partial) for affordable rental housing under the <u>Municipal Housing Facilities bylaw</u>.

Finally, the Region provides development charges deferrals/exemptions, for housing built by Habitat for Humanity. These deferrals/exemptions are dependent on matching from local municipalities.

The table below provides a list of statutory and non-statutory non-residential exemptions.

Type of Use	Statutory	Non-Statutory
Institutional	onal • Public Schools • Municipal buildings	 Addition or expansion that is less than 50% of the original gross floor area
		• Public Hospitals receiving aid under the <i>Public Hospital Act</i>
		 Non-residential farm buildings
		 Accessory structures that are less than 100m² of gross floor area
		• Lands, buildings or structures used for cemeteries or burial grounds exempt from taxation under the Assessment Act
		 Buildings owned by a non-profit corporation with purposes of a charitable nature and provide a facility for community use, where an area municipality agrees to a similar exemption

TABLE 11-4

NON-RESIDENTIAL DEVELOPMENT CHARGE EXEMPTIONS: STATUTORY AND NON-STATUTORY

Type of Use	Statutory	Non-Statutory
		• Development of a place of worship for gross floor area up to a maximum of 5,000 square feet, or gross floor area that relates to the portion of the structure used principally for worship, whichever is greater
		 Land owned or leased to a university , receiving funding from the government for the purposes of post-secondary education
		• Land owned by and used for the purposes of a private school that qualify as exempt from taxation under the Assessment Act, and where an area municipality agrees to a similar exemption
Office		 Addition or expansion that is less than 50 per cent of the original gross floor area
		 Accessory structures that are less than 100m² of gross floor area
Industrial	 Addition or expansion if it is less than 50% of the original gross floor area 	 Accessory structures that are less than 100m² of gross floor area
Retail		 Accessory structures that are less than 100m² of gross floor area

11.8.2 Construction types exempt from development charges

The following construction types are exempt from Regional development charges:

- Accessory buildings associated with residential development (e.g., garages, garden sheds, gazebos, swimming pool enclosures, etc.)
- Additions and alterations to existing dwellings including fireplaces, stoves, decks, porches, sunrooms, etc.
- Temporary buildings (e.g., special occasion buildings, tents, temporary sales offices)
- Repairs to restore existing buildings that do not require rezoning or variance
- Designated structures: retaining walls, exterior storage tanks, pedestrian bridges, dish antennae, crane runways and solar collectors
- Interior alteration to non-residential buildings which do not change the use of the building, including: the finishing or refinishing of non-residential floor areas (note: the construction of a mezzanine would not constitute "interior alteration" in this context and may be subject to development charges)
- Buildings which do not require a permit

11.9 Deferral options

Subject to the terms and conditions of the applicable policies, the Region offers a number of development charges deferral options which are detailed below.

11.9.1 Retail Buildings

A retail development has the option of securing development charge payment obligations through the provision of a Letter of Credit at the point at which development charges would otherwise be payable. The posted Letter of Credit shall be drawn upon in equal annual amounts over a threeyear period, beginning with the first anniversary of building permit issuance.

11.9.2 High-Rise Residential Buildings

This deferral is dependent upon the developer of the high-rise residential building providing a Letter of Credit at the time of building permit issuance to secure the payment of Regional development charges. The Letter of Credit shall be drawn upon at the earlier of, 18 months after building permit issuance, or registration of the condominium¹.

11.9.3 Office Buildings

This deferral is dependent upon the developer of the office building providing a Letter of Credit at the time of building permit issuance to secure the payment of Regional development charges. The Letter of Credit shall be drawn upon 18 months after building permit issuance or occupancy permit/first occupancy (see policy for further details)3.

11.9.4 Purpose-Built Rental Buildings

For the purposes of this deferral, the development may be registered as a condominium, but it must be entirely operated as a rental property for a period of not less than 20 years. In order to be eligible, the development must be a minimum of four (4) storeys that are above grade (note that this requirement is addressed in Chapter 13 to the Background Study). This deferral is for 36 months after building permit issuance or occupancy permit/first occupancy (see policy for further details).

11.9.5 Large Office Buildings

Developers of large office buildings which are a minimum of 75,000 square feet and on the Regional Centres and Corridors or specific Local Centres may defer payment of Regional development charges subject to terms and conditions in the policy. The duration of the development charges deferral will vary based on the eligible gross floor area of the building. This deferral is for 5-20 years after building permit issuance or occupancy permit/first occupancy (see policy for further details).

11.9.6 Affordable, Purpose-Built Rental Buildings

For the purposes of this deferral, the development may be registered as a condominium, but it must be entirely operated as a rental property for a period of not less than 20 years. This deferral is for 5-20 years, after building permit issuance or occupancy permit/first occupancy, and will vary based on the location, total number of units and number of units that are two or more bedrooms (see policy for further details).

11.9.7 Open Air Motor Vehicle Storage Structures

Developers of open-air motor vehicle storage structures may defer payment of Regional development charges, beginning on the day of building permit issuance and continuing until the structure becomes enclosed (as defined in this policy).

11.9.8 Positive Business Expansion

Adopted by Regional Council on January 15, 1998, Bylaw No. A-243-98-5, the Chief Administrative Officer and Regional Treasurer will be authorized to negotiate deferred nonresidential development charge agreements with non-residential development proponents, as long as the Local Municipality has agreed to a similar deferral.

Deferrals, in these instances should lead to:

- Increased long term non-residential assessment
- Job creation for Regional residents
- Economic activity (including construction, business spin-offs, etc.)

In instances where a deferral agreement has been executed under this Bylaw, the Chief Administrative Office and Regional Treasurer shall submit a report to Council immediately following the negotiation and execution of any agreement, setting out the terms of the agreement.

11.10 Transitional collection policies

11.10.1 Vacant lots of record

If the subject lot/subdivision was created prior to the imposition of a York Region's lot levy/development charge (i.e. March 1979 for residential development; March 1988 for nonresidential development), there will be no requirement to pay the current prevailing development charge prior to building permit issuance if the lot has remained vacant and has not required any planning approvals in the interim period.

11.10.2 Subdivisions/lots registered and/or created prior to November 23, 1991, which require additional development approvals under authority of the Act

If a Regional lot levy/development charge has been previously paid in its entirety to the Region as a condition of subdivision (subdivision agreement) or land development (severance) approval, and there have been no amendments to the subject lot in the interim period, there will be no further requirement to pay the current Regional development charge ("top-up") at the time of building permit issuance.

If a development proponent has provided other monetary contributions or undertaken capital works in lieu of previous levy/development charge payments, there will be a credit granted against the payment of current Regional development charges, in accordance with the Act.

11.10.3 Residential subdivisions registered after November 23, 1991

If a development proponent has paid for the applicable roads, water and sanitary sewer components of the Regional development charge, subject to a subdivision or development charge agreement entered into with the Region, the general administration component of the Regional development charge should be collected by the Area Municipality, at the prevailing rate prior to building permit issuance.

All unregistered plans of subdivision will be required to enter into a development charge agreement with York Region that will impose the current prevailing road, water and sewer service component of the Regional development charge as indicated by a schedule to the Bylaw prior to execution of the agreement. The proponent shall pay the general administration component of the Regional development charge, and balance of the Regional development charges outstanding, at the prevailing rate to the Area Municipality prior to building permit issuance.

11.10.4 Non-Residential subdivisions registered after November 23, 1991

If a non-residential subdivision is created by plan of subdivision after November 23, 1991, then the applicable Regional development charge for the roads, water, sanitary sewer and general administration components of the charge shall apply at the prevailing rate, prior to building permit issuance.

11.10.5 Development lots created by severance after November 23, 1991

Lots created by severance after November 23, 1991 will be required to pay the current prevailing Regional development charge prior to building permit issuance.

11.11 Other policy detail

11.11.1 Collection responsibility policy

The Treasurer of the York Region shall collect development charges as follows:

- In the case of a residential subdivision, collection will occur upon the owner entering into the development charge agreement respecting such plan of subdivision for the applicable roads, water and sewer components of the development charge at the prevailing rate as determined by the designated schedule to the Development Charge Bylaw
- In cases where a special agreement has been entered into between York Region and the owner providing for either provision of services in lieu of payment and/or providing for a payment at a time other than building permit issuance or subdivision agreement execution

Where York Region has collected a development charge in a format acceptable to the Treasurer of York Region, the Treasurer of York Region will notify the Treasurer of the Local Municipality in which the lands are located that the charge has been collected.

The Treasurer of the Local Municipality, where development is located and is subject to development charges, shall collect such Regional charges at the prevailing rate when due, as follows:

- In the case of residential subdivisions, collection will occur at building permit issuance stage for the general services component of Regional development charges, unless notified otherwise by York Region;
- In the case of non-residential subdivisions, collection will occur at building permit issuance for all services, unless notified by York Region that it has entered into an agreement concerning payment with a particular landowner;
- In the case of non-subdivision developments, collection will occur at building permit issuance for all services, unless notified by York Region that it has entered into an agreement concerning payment with a particular landowner;
- The Treasurer of the Local Municipality shall collect the charge imposed by the upper tier municipality when due and shall remit the amount of the charges collected to the Treasurer of York Region, on or before the 25th day of the month following the month in which the charge is received by the Local Municipality.

11.11.2 Full registration/phased development charges payment – residential subdivisions

York Region's Solicitor is authorized to prepare agreements pursuant to the Act for the purposes of allowing subdivision registration/phased payment of development charges if the following conditions are met:

- The Regional Corporation is in receipt of a written request from a sub-divider to enter into such an agreement;
 - a) The draft approved plan of subdivision is a minimum of approximately 100 units
 - b) The phases contemplated shall be a minimum of approximately 50 units
- The full development charge payment for the initial phase is made at the time of the execution of the agreement;
- The registration/phased development charge method of payment proposal be coordinated with and incorporated into the Local Municipality and Regional subdivision agreements;
- The payment of development charges for a subsequent phase must be coordinated with the provisions of the subdivision securities related to Local Municipal services for a subsequent phase; and
- For all subsequent phases of the development as specified in the agreement, the full Regional development charge shall be paid directly to the Region prior to any building permit issuance in that phase.

(Adopted by Regional Council June 22, 1995 and amended January 15, 1998)

11.11.3 Issuance of any building permits prior to registration

If an Local Municipality issues building permits for any reason prior to execution of York Region's

development charge agreement and/or registration of the subdivision (e.g. model homes), the Local Municipality is responsible for collecting the entire Regional development charge at the time of building permit issuance, and so advising York Region's Finance Department.

11.11.4 Land severances on or after November 23, 1991

Land severances approved on or after November 23, 1991 will not have a condition attached with respect to the payment of York Region's development charges. Any resulting new lots will be subject to York Region's development charges, at the prevailing rate, prior to building permit issuance.

11.11.5 Part lot control exemption approved by York Region after November 23, 1991

Any additional residential units created in a Registered Plan of Subdivision by Part Lot Control Exemption, where the exemption has received York Region's approval, will be subject to York Region's development charges. The applicant will be required to enter into an agreement with York Region pursuant to the Act, with respect to payment of the appropriate development charges at time of execution of the agreement, and the Local Municipality will be forwarded a copy of the Agreement to ensure the appropriate general services component is collected at building permit issuance.

11.12 Alternative collection policies (old s.13, s.14 -DC Act, 1990 credits)

11.12.1 Development charge credit area - Kleinburg

Specific lots in the Kleinburg area within the City of Vaughan, as identified in Schedules "C" and "D", be incorporated as a water and/or wastewater development charge credit area with respect to payments previously made for growth-related water and sewage infrastructure.

11.12.2 Contingent development charges

Specific contingent growth-related capital costs may be incorporated into the calculation of a particular component of York Region's development charges rate. A schedule of pending rate increases, that become effective thirty days after the date of occurrence of a specific event, or events, is shows in Schedule G to the 2022 Bylaw.

11.12.3 Reserve funds

Development charges shall be deposited in a specific reserve fund established for each individual Regional (and local boards) service, in accordance with the Act.

- The Treasurer shall prepare and present to Council an annual statement of the development charge reserve fund in accordance with the Act, including, for the preceding year
- Statements of the opening and closing balances of the reserve funds and of the transactions relating to the funds

- Statements identifying all assets whose capital costs were funded under a development charge bylaw during the year, and for each asset mentioned previously, the manner in which any capital cost not funded under the Bylaw was or will be funded
- A statement as to compliance with subsection 59.1 (1) of the Act (prohibition against additional levies)
- Any other information that is prescribed

11.12.4 Complaints

Under section 20 of the Act, any person required to pay a development charge, or the person's agent, may complain to the council of the municipality imposing the development charge that,

- The amount of the development charge was incorrectly determined;
- Whether a credit is available to be used against the development charge, or the amount of the credit or the service with respect to which the credit was given, was incorrectly determined; or
- There was an error in the application of the Development Charge Bylaw.

York Region has established a detailed Development Charge Complaint procedure under authority of the Act.

11.13 Development charges credit policy

A developer may undertake or finance York Region's capital works prior to the planned York Region's capital program in consideration for development charge credits and potential recovery of non-growth costs, providing the following:

- For purposes of quantifying the costs of works eligible for development charge credits, York Region will establish a scale of project(s) to allow for unit prices for smaller sized projects—projects that have an estimated cost lower than \$1 million—undertaken by developers, to be differentiated from large sized projects—projects that have an estimated cost greater than \$1 million
- York Region shall endeavour to assist developers by liaising with utilities when possible where projects require utility relocation
- Non-growth recovery Developers are not eligible to recover non-growth costs
- For capital works not included in the ten-year forecast, York Region will continue to require the developer to make a non-refundable contribution to the non-growth costs of projects in order to expedite the works' construction/reconstruction timing
- Application for development charge credits will only be considered if the works are included in the Regional DC Bylaw. The eligible credit shall be limited to the value of the works in the DC Bylaw
- To be considered for advancement, generally the service-specific development charges, and in all cases the total development charges generated by the development associated with the capital works must be at least twice the value of the works for which the credit/reimbursement is being requested

- Development charge credits will not be offered unless the previous year's DC collections exceed the estimated current year DC-related debt servicing obligations (principal and interest) by at least the amount of the DC credit requested, both in total and for the specific service as determined by the Commissioner of Finance
- Advancement of the project cannot result in a negative impact to the Region's Annual Repayment Limit, as determined by the Commissioner of Finance
- The developer will be required to fund 100% of the cost of the capital works, and recover eligible growth-related costs, discounted for financing costs based on the project's timing in the Capital Plan as determined by the Commissioner of Finance. Non-growth costs will not be eligible for recovery
- Development charge credits will be issued up to a maximum 50% of the servicespecific DCs payable upon each subdivision registration or building permit issuance, as applicable, until the total eligible growth-related costs are recovered
- The Region will pay for intersection and minor road improvements that are recommended in a development-related traffic study approved by the Region and are constructed in their ultimate location
- Reimbursement will be provided from the Roads DC reserve in the year the works are completed, provided sufficient funds are available in the Regional annual budget
- For roads (intersections and minor road improvements) reimbursement requests, the Commissioner of Transportation Services shall be authorized to approve the eligible cost of the works

The Region's <u>Development Charge Credit Policy</u> was first adopted by Regional Council on May 9, 1996 and May 23, 1996, with subsequent revisions adopted by Council on June 25, 1998 and November 21, 2013.

Under the previous policy (1998), in circumstances where a landowner has paid for services that were intended to be funded by development charges, that landowner receives a credit against development charges that were otherwise payable, in the full amount of the development charge payable for the particular service involved. This created financing difficulty in that it confines the use of such development charges to the particular work involved and thereby reduces the development charge funds available for system-wide costs, such as major trunk sewers, treatment plants and pumping stations. In 2013, revisions to the development charge credit policy were made in order to address this issue and are outlined below:

- The developer shall forward a written request to Regional Council to consider a development charge credit matter, prior to construction of the works. There are no retroactive development charge credit provisions for works previously constructed by a developer without Regional Council approval.
- The costs for the works to be considered for development charge credit must be included in York Region's Development Charge Bylaw.
- Regional Council shall authorize and agree to a fixed development charge credit amount prior to allowing the construction of the works to be carried out. This is particularly important when the developer is constructing the works and the contract award process may not be as public as York Region's tendering process. Any amount agreed to for credit will be compared against awarded York Region's contracts in

order to verify pricing accuracy. The developer will be required to provide York Region with a tender form in York Region's format for comparison with recent York Region tenders.

- For Regional water and wastewater infrastructure, York Region will determine responsibility for the design, tendering and construction with the developer responsible for the front-end financing.
- In instances where York Region agrees to permit a landowner to construct and frontend finance a work that is within the development charge program, the development charge credit shall be paid as follows:
 - a) Where the cost of the work is less than the development charges payable for the service involved, by the build-out of the landowner's development, a DC credit will be issued at subdivision registration. This credit is for the units involved in each subdivision, and will amount to the average cost of the work per unit. The average cost per unit is calculated as the cost of the infrastructure project involved, divided by the number of single detached equivalent units within the landowner's total development, and shall not exceed the prevailing rate for the service component. The landowner will continue to receive such credits until reimbursed for the cost of the infrastructure project, without interest or indexing.
 - b) Where the cost of the work exceeds the development charge payable for the service involved, by build-out of the landowner's development, the development charge credit will amount to 50% of the development charge payable for the service involved. The remaining development charge credits will be paid beginning in the year that the project was originally scheduled to commence on an equal basis over the remaining term of the Bylaw i.e. 2017 to 2031. This payment will be based on a long-term credit payment arrangement, as approved by Regional Council, the timing of which recognizes the need to provide for the financing requirements of broader system-wide costs for the service involved and may include indexing provision.
- The credit will be restricted to the service component of the Regional development charge that the developer is required to pay at the registration/subdivision agreement stage (i.e. roads credits restricted to road development charge component that the developer is required to pay at registration).
- Any development charge credit request that exceeds the development charges payable by the subdivider for a particular service (i.e. roads, water or sewer) will be subject to a negotiated long-term credit arrangement as approved by Regional Council and shall include a provision to consider the system-wide costs for the service component.
- The developer shall, where warranted, be required to make a contribution toward the non-growth component costs based on the fact that the works are being constructed in advance of the Regional capital program (to minimize impacts on existing residents), particularly if the Regional Corporation is not in a position to adjust budgets, to provide for the non-growth portion of the project in a budget year.

- a) Where the capital works are included in the ten-year capital program forecast and the works are advanced for construction to the current budget year, York Region shall reimburse the developer for an amount equivalent to the present value of York Region funding the non-growth portion ahead of the planned program expenditure. The present value will be calculated based on the subject works, and will be based on an interest rate reflecting an average of long term investment and debenture rates available to the Regional Corporation, adjusted to reflect future capital cost indexing.
- b) In situations where York Region cannot adjust its capital budget to fund the Regional share of the growth and non-growth costs in a budget year, the development charge credit request may be denied and/or the developer requested to make a larger non-recoverable contribution. In addition, York Region may enter into a deferred repayment of the growth and non-growth components until a time consistent with the planned capital program, subject to approval by Council.
- c) Where the capital works are not included in York Region's ten-year capital program forecast, the developer will be required to make a non-recoverable contribution for the full value of the non-growth costs.
- The credit for services constructed will be included in the York Region's subdivision agreement.
- The developer shall secure the total costs of the works by a Letter of Credit, in a format satisfactory to York Region's Treasurer. The Letter of Credit will also secure payment of the development charge component under consideration for credit. The Letter of Credit will be held until such time as the capital works are constructed to the satisfaction of the Regional Corporation.
- The Letter of Credit will be released in the following manner:
 - a) Where York Region has constructed the capital works the Letter of Credit shall be released in accordance with the holdback release provisions in the terms of the construction contract entered into by the Regional Corporation; or
 - b) Where the developer has constructed the capital works, a 10% holdback of the value of the works shall be retained by York Region for a one-year maintenance/warranty period after satisfactory construction of the works.
- A cost-recovery fee applicable to each credit request will be charged for engineering, legal and finance department costs incurred related to preparation and administration of the development charge credit agreement. The fee will be structured in the following manner when the developer constructs the capital works, the credit arrangement is incorporated in the subdivision agreement and the credits achieved upon satisfactory construction of the works:
 - a) A minimum fee of \$1,000 shall be required to review a development charge credit request.
 - b) A fee equivalent to 1.0% of the value of the works shall be applicable for all capital works under \$1 million.

- c) A fee up to 1.0% of the value of the works shall be applicable for all capital works greater than \$1 million.
- d) In instances where York Region's fees to prepare and administer the agreement are beyond the cost recovery provisions outlined above, such fees shall be separately quantified and invoiced to the developer.
- Where York Region constructs the capital works and the credit arrangement is to be administered in lieu of payment of development charges at the time of subdivision(s) registration, an administration fee up to 1.0% of the value of the works shall be required, in addition to the fees outlined above.

Note: Where York Region enters into an agreement to advance the construction timing of capital works in lieu of payment of development charges at the time of subdivision(s) registration, the above mentioned fee shall be based on the awarded price of the works. If the total project cost exceeds the awarded price by 20%, York Region's Treasurer may apply an additional administration fee to cover the cost associated with administering the agreement.

11.14 Development charges roadworks credits

11.14.1 General conditions

In general, York Region will consider development charge credits for road-related works constructed to the ultimate location, as outlined in a <u>Guideline for applicants</u>. The ultimate location is defined by the next planned upgrade for a road section as detailed in the background report for the Development Charge Bylaw. The credit will be based on the capital cost of the works with each credit application being reviewed individually. The credit will be defined by that portion of materials placed in their ultimate location that can be reused by York Region. Development charge credits will be considered for the following:

- Construction of intersection improvements
- Construction of complete road sections
- Utility relocations (York Region's share of the cost)
- Contract design and inspection costs where the developer submits the contract drawings, design files and specification documents in the York Region approved format and the work is constructed in the ultimate location

In calculating the credit, staff will determine the work and materials that do not require further reconstruction by York Region in the development of the ultimate configuration. Development Charge credits will not apply to the following:

- Land purchases
- Overall project management, co-ordination or administration
- Construction contingencies
- Road improvements required for the exclusive use of a private entrance including new signals or signal alterations, turning lanes, etc.
- Construction of that portion of a local road within the York Region's Right of Way

• Removals, unless the new works are constructed to the ultimate location

To obtain credits, the developer must submit a list in York Region's tender format of detailed items which are to be considered as recoverable, including percentages recoverable from York Region. These prices will be compared to recent unit prices for York Region's contract prices. York Region will establish a scale of project(s) to allow for unit prices for smaller sized projects undertaken by developers to be differentiated from larger sized projects.

Other costs may be recommended to be eligible by the Commissioner of Transportation Services, when such services are deemed to be in the interest of York Region subject to approval by Regional Council.

11.14.2 Non-growth recovery

For capital works included in the 10-year forecast, York Region will endeavour to recognize intersection improvements (and scheduling) as part of the capital forecast, and consider their improvement prior to the ultimate reconstruction of a road. The discount rate used by York Region to account for the differential in non-growth expenditure timing will be adjusted to reflect future capital cost indexing.

For capital works not included in the 10-year forecast, York Region will continue to require the developer to make a non-refundable contribution to the non-growth costs of projects in order to expedite the works' construction timing. In order to recover a portion of the non-growth costs, Regional Council is required to endorse the projects for construction in York Region's ten-year capital program.

Note: York Region shall endeavour to assist developers by liaising with utilities when possible where projects require utility relocation.

A cost-recovery fee applicable to each credit request will be charged for preparation and administration of the development charge credit will be structured in the following manner where the developer constructs the capital works and the credit arrangement is incorporated in the subdivision agreement and the credits achieved upon satisfactory construction of the works:

- A minimum fee of \$1,000 shall be required to review a DC credit request
- A fee equivalent to 1.0% of the value of the works shall be applicable for all capital works under \$1 million
- A fee up to 1.0% of the value of the works shall be applicable for all capital works greater than \$1 million

12 DC BYLAW AND POLICIES: AREAS OF REVIEW

The following sections outline the development charges policies and bylaw considerations that will be part of the 2022 Bylaw:

- Areas of the Bylaw and policies that have been reviewed but remain unchanged
- Areas of the Bylaw and policies that have been reviewed and updated
- Policies that have been amended

12.1 Areas of the Bylaw and Policies reviewed but unchanged

The following are areas of the Bylaw and associated policies that were reviewed but remain unchanged.

12.1.1 Region-wide versus area-specific development charges

Under section 10 of the Act, before passing a development charges bylaw, Council must consider the use of area-specific development charges. Area-specific development charges are most appropriately applied to clearly defined localized area(s) where the growth-related infrastructure provides a clear benefit to the anticipated development.

Area-specific development charges are also most often used to recover costs for hard infrastructure or engineering projects such as water towers, water mains, sewer pumping stations, sewer mains and sometimes roads and related infrastructure.

Historically, the Region has levied a uniform, Region-wide charges for its services, with the exception of the water resource recovery facility located in the Village of Nobleton.

Ontario municipalities do not typically levy area-specific development charges for "soft" services or protection services such as police, social housing, paramedic stations or others. These types of services are typically planned for and delivered on a municipality-wide basis and therefore a uniform approach would be the most appropriate.

In February 2022, Council endorsed in principal, the use of a uniform Region-wide development charges rate structure to recover the growth-related costs for all services contained in the 2022 Development Charges Background Study and Bylaw, including the Yonge North Subway Extension. Key reasons for continuing with a Region-wide, uniform approach for all services were:

- Majority of the Region's services provide a Region-wide benefit, whereas area-specific development charges are usually more suitable for new, or currently unfunded, standalone water/wastewater systems where the benefitting area is clearly defined
- Regional services are managed as a network and the level of service is relatively consistent across the Region
- Aligns with the use of uniform Region-wide property taxes to fund the non-DC share of costs
- Data and robust methodologies are available to establish the nexus between the infrastructure and growth

• Deviation from a uniform, Region-wide approach may set a precedent

The Region retained Hemson Consulting to conduct a detailed analysis of uniform regionwide rate structure and two area specific alternatives for the Yonge North Subway Extension. This analysis can be found in Appendix B of this background study.

12.1.2 Threshold to delineate large and small apartments

As part of the 2017 Bylaw update, Council revised the threshold to delineate large and small apartments, from 650 sq. ft. to 700 sq. ft. Staff committed to reviewing this threshold as part of the work on the next DC bylaw.

An analysis using 2016 Census and size data of close to 37,000 apartments confirmed that a 700-square-foot threshold continues to be appropriate to delineate large and small apartments in York Region for the purposes of the 2022 Bylaw. In November 2021, Council approved maintaining this delineation point for the 2022 Bylaw.

12.2 Areas of the Bylaw and policies that have been reviewed and updated

The following are areas of the Bylaw and associated policies that were reviewed and updated.

12.2.1 Treatment of Stacked Townhouses

The Region's 2017 Bylaw has four categories of residential charges: single and semi-detached dwellings, multiple-unit dwellings, large apartments, equal to or greater than 700 sq.ft., and small apartment less than 700 sq.ft.. Stacked townhouses were charged a multiple unit dwelling rate.

The differences in the rates are based on the average anticipated occupancy levels, or persons per unit, for each residential category. The 2022 Bylaw and Background Study uses Statistics Canada data to forecast persons per unit in each type of dwelling to determine the residential development charges rates. Statistics Canada definition of apartments includes stacked townhouses, therefore treating stacked townhouses as apartments aligns with this.

Further, a review of over 1,500 stacked townhouses built in the Region since 2016 showed that they are more comparable to large apartments in features and size than to conventional townhouses. The average household occupancy, or persons per unit, in a typical stacked townhouse is also found to more closely resemble a large apartment.

In November 2021, Regional Council approved treating stacked townhouses as apartments in the 2022 Bylaw.

12.2.2 Treatment of residential dwellings less than 700 sq. ft. ("Tiny homes")

"Tiny homes" are small, self-contained residential units built for year-round use with a living area that includes a kitchen, dining, bathroom and sleeping area. Under the 2017 Bylaw, a detached tiny home would have been assessed at a single-detached dwelling rate. However, based on observed sizes across Ontario, these homes appear to be closer to, if not smaller than, small apartments.

Through Council approval in November 2021, any residential dwelling in York Region less than 700 sq. ft. will be charged the small apartment rate in the 2022 Bylaw.

12.2.3 Statutory DC Exemptions – Residential and Non-Residential

Through changes to the Act and accompanying regulations, additional exemptions for both residential and non-residential developments have been provided.

Subject to <u>restrictions</u>, the Act now not only provides development charges exemptions for additional dwellings in, or ancillary to, existing residential buildings, but also for additional dwellings in, or ancillary to, new residential buildings.

The Regulations also provide that common areas in existing rental buildings can be converted into residential units and be exempt. This conversion exemption is limited to additional units equivalent to the greater of 1 and 1% of existing units.

Finally, through Bill 213, development on land owned or leased to a university, receiving funding from the government for the purposes of post-secondary education, is exempt from development charges.

The 2022 Bylaw will reflect these exemptions.

12.2.4 Timing of payment – phased development charges payments

The 2022 Bylaw will also be updated to incorporate changes to the Act which provide that rental housing, that is not non-profit, institutional development and non-profit housing can phase in their development charges payments.

Development charges for rental housing, that is not non-profit, and institutional developments will be paid, beginning at occupancy, in equal annual instalments over five years. Development charges for non-profit housing are to be paid, beginning at occupancy, over 20 years.

12.2.5 Definition of 'general services'

The definition of general services has been expanded to include the YNSE. In addition, the following general services' names have been changed:

- Social Housing to Housing Services
- Senior Services Capital Component to Long-Term Care/Seniors Services
- Paramedic Services to Ambulance Services

12.3 Areas of the Bylaw and Policies that have been amended

The following summarizes changes to development charges policies approved by Council through the 2022 Bylaw update process.

12.3.1 Development charges policies amended

On November 25, 2021, Regional Council approved changes to a series of development charges policies, summarized in the Table 12-1 below.

TABLE 12-1 SUMMARY OF COUNCIL-APPROVED DEVELOPMENT CHARGES POLICY CHANGES

Deferral Policy	Key Changes
Purpose-Built Rental	Removal of four-storey requirement; to align with current legislation and other Regional development charges deferral policies and to provide clarification
Office Buildings Open Air Motor Vehicle Storage Structures	To align with current legislation and other Regional development charges deferral policies and to provide clarification
Interest Policy	Provision of up to a 14-day grace period (contingent of local municipal matching)

13 ASSET MANAGEMENT PLAN

13.1 Background

Under the Act, municipalities proposing to enact a Development Charges Bylaw are required to submit an Asset Management Plan (AMP) as part of the Development Charges Background Study.

The asset management plan shall:

- 1. Deal with all assets whose capital costs are proposed to be funded under the DC by-law
- 2. Demonstrate that all the assets mentioned in item 1). are financially sustainable over their full lifecycle

This chapter has been prepared based on the *Development Charges Act, 1997* and Ontario Regulation 82/98 and includes the analysis pertaining to assets that are proposed to be funded, in whole or in part, by development charges.

Asset management at the Region has been evolving and speaks to all assets including growth, renewal and operating needs as required by O.Reg. 588/17.

The Region has an Asset Management Framework to streamline asset management activities across all infrastructure service areas. The framework incorporates leading industry asset management knowledge and provides templates for service areas to follow in advancing their asset management programming.

Key areas of the framework include:

- 1. Standardized State of Infrastructure Report for annual updates related to condition, capacity, and reliability
- 2. Risk Assessment System for understanding asset condition risks across the portfolio
- 3. Level of Service Framework to adhere to regulatory requirements
- 4. Climate Change Workbook to incorporate climate change impacts into infrastructure decision making
- 5. 100-year lifecycle costs to understand long-term costs of each service area portfolio, and to act as a mechanism for reserve fund planning for the Region's asset portfolio as a whole

To provide a full view of the asset management needs for all assets funded under the Region's DC Bylaw, the full range of services is included in this analysis (Section 13.3.1 – Table 13-2):

- Water
- Wastewater
- Roads
- Transit

- Toronto-York Spadina Subway Extension
- Yonge North Subway Extension
- Police
- Waste Diversion
- Ambulance Services
- Long-Term Care/ Seniors Services
- Public Health
- Housing Services
- Court Services

13.1.1 Growth to 2041

The 2022 Development Charges Background Study uses a population and employment forecast to 2041 as the basis for determining growth-related infrastructure needs, as detailed in Chapter 2.

13.1.2 Development Charges Act, 1997 Requirements

The Development Charges Act, 1997 requires an analysis be prepared, as shown in Figure 13-1, to support the proposed infrastructure in a development charges bylaw. Additionally, a summary of the current state of infrastructure, planned level of service and potential asset management strategies must be prepared for proposed development-charge-funded transit infrastructure.

FIGURE 13-1

ASSET MANAGEMENT PLAN REQUIREMENTS



13.2 Potential Asset Management Strategies

In general, growth assets included in this asset management plan have yet to undergo environmental assessments and detailed design. This section identifies potential asset management strategies that may apply and will be considered in future lifecycle planning. Transitspecific asset management strategies are discussed in Section 13.5 of this asset management plan.

13.2.1 Asset Condition Monitoring

Annual tracking, monitoring, and reporting of asset condition by department, and an assessment of reserves for asset management are undertaken as part of the annual performance metric reporting on the percentage of Regional assets with a condition rating of fair or better.

In 2020, the overall percentage of core assets, defined by O.Reg 588/17 as water, wastewater and roads, was reported at 86% being in fair or better condition, with roads service assets accounting for approximately 10.5% of assets in poor or very poor condition. Water and wastewater service assets in similar poor and very poor condition accounted for 3.5% of the total asset base. All assets identified in the poor and very poor categories have planned rehabilitation and replacement activities in place.

The Region has set up an Asset Management Framework to streamline asset management activities across the organization; this includes ensuring a climate change lens is incorporated into infrastructure decision making.

Condition monitoring and assessments will support the refinement of asset management decision making from methods such as age-based planning to risk / condition / performance-based planning, which may allow for the greatest service life to be realized, reducing lifecycle costs.

13.2.2 Asset Lifecycle Rehabilitation and Replacement Analysis

To realize designed service life, asset rehabilitation may be required for some assets. In most cases, lifecycle cost projections have included rehabilitation needs typical for each asset type; however, as more information is known about an asset, this broad projection can be tailored to consider specific factors affecting each asset. For example, changing regulations or construction quality may apply to specific assets, differently impacting the lifecycle cost.

For major assets where rehabilitation or replacement is expected in the next 10 years, detailed condition assessments and monitoring is undertaken to verify asset deterioration and program short-term budget priorities as part of the annual budget process.

13.3 Estimated Lifecycle Costs

13.3.1 Lifecycle Cost Projection Methodology

Asset lifecycles have been projected based on two methods depending on whether sufficient condition information is available. Typically, meaningful condition assessment information is not available until determinate signs of deterioration are observable. Thetwo methods are summarized in Table 13.1 below.

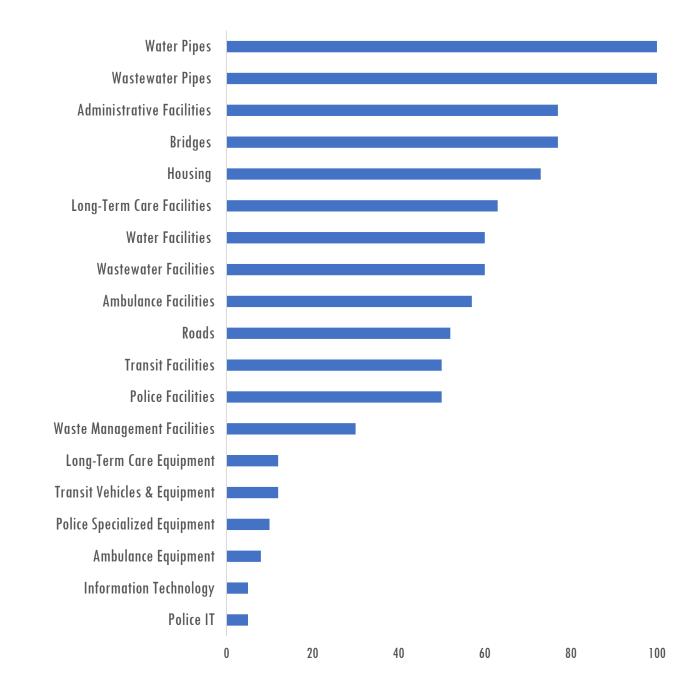
TABLE 13-1

LIFECYCLE COST PROJECTION METHODOLOGY

Assets	Projection Method
Newly constructed assets and assets planned but not yet designed or constructed	Method A Expected Service Life for Asset-Type Estimated Replacement Cost
Existing assets with condition assessment information	Method B Detailed Condition Assessment and Deterioration Projection results

Lifecycle costs for the majority of assets included in this plan have been projected based on Method A in Table 13-1, which assumes that assets will be replaced at the end of expected service life. Expected service life for the asset types included in this plan is presented in Figure 13-2.

FIGURE 13-2 EXPECTED SERVICE LIFE



13.3.2 Lifecycle Cost Summary

This section summarizes the long-term investment needs to sustain the DC-funded infrastructure required to enable growth to 2041. Table 13-2 summarizes the total lifecycle costs over a 100-year period. Detailed discussion regarding lifecycle costs of transit assets can be found in Section 13.5.1 of this asset management plan.

TABLE 13-2LIFECYCLE COST SUMMARY OF DC-FUNDED SERVICES

DC-funded Services	Gross Project Costs (Emplacement)* \$M	100-Year Lifecycle Needs (Excluding Emplacement) \$M	
Rate-Funded:			
Water	676	793	
Wastewater	2,389	3,144	
Sub-Total: Rate	3,065	3,938	
Tax Levy-Funded:			
Roads**	8,369	9,938	
Transit**	1,297	1,745	
TYSSE***	7	0	
YNSE***	1,120	-	
Police	369	3,999	
Waste Diversion	130	406	
Public Works	279	708	
Ambulance Services	41	146	
Public Health	32	64	
Housing Services	909	1,817	
Long-term Care/ Senior Services	3	5	
Court Services	0	0	
Sub-Total: Tax Levy	12,555	18,827	
GRAND TOTAL	15,620	22,765	
Contingencies			
Roads	1,607	1,828	

* For this table, Gross Project Costs exclude items without associated life-cycle costs, like DC credits, environmental assessments, and growth studies.

** The 2022 Background Study reflects \$2.9 billion in Bus Rapid Transit (BRT) costs, which are included in Roads and Transit services. This analysis assumes that the Region is not responsible for the lifecycle costs of BRTs, consistent with the Region's existing BRT network.

*** TYSSE lifecycle costs are funded by the City of Toronto. YNSE lifecycle costs will be determined once ownership and operational agreements are negotiated.

13.4 Transit Infrastructure

13.4.1 Requirements under the Act and the Ontario Regulation 82/98

Section 8(3) of the Ontario Regulation 82/98 under the Act states that if a council of a municipality proposes to impose a development charge in respect of transit services, the asset management plan referred to in clause 10(2) (c.2) of the Act shall include the following in respect of those services:

- A section setting out the state of local infrastructure
- A section that sets out the proposed level of service
- An asset management strategy that:
 - sets out planned actions that will enable the assets to provide the proposed level of service in a sustainable way, while managing risks, at the lowest life cycle cost
 - is based on an assessment of potential options to achieve the proposed level of service, which assessment compares: life cycle costs, all other relevant direct and indirect costs and benefits, risks associated with potential options
 - provides a summary of (in relation to achieving the proposed level of service) noninfrastructure solutions, maintenance activities, renewal and rehabilitation activities, replacement activities, disposal activities, and expansion activities
 - discusses procurement measures that are intended to achieve the proposed level of service
 - includes an overview of the risks associated with the strategy and any actions that will be taken in response to those risks
- A financial strategy

This section addresses the first three requirements. The financial strategy can be found in Section 13.6 of this chapter.

13.4.2 State of Infrastructure

13.4.2.1 Asset Type and Historical Cost

York Region currently owns approximately \$749 million worth of transit infrastructure, including bus fleet vehicles, garages, transit terminals and loops, transit stops, equipment and technology.

Asset Type	2019 Inventory	2019 Historical Cost (\$M)
Bus Fleet Vehicles	590	355
Garages, transit terminals and loops	20	254
Transit stops	5,000+	
Equipment and Technology	Various	140
TOTAL		749

TABLE 13-3

TRANSIT ASSET TYPE AND HISTORICAL COST

(Source: 2019 Transportation State of Infrastructure Report Card)

Note: Only Transit Fleet (Conventional, Bus Rapid Transit (Viva buses), and Mobility on Request) and Facilities (Garages, Terminals, Transit loops, and Transit Stops) have been included in the current Transit AMP.

13.4.3 Growth Planning Proposed Level of Service

The Act requires that a planned level of service be defined if development charges are levied for Transit infrastructure. For the purpose of the development charges background study, the planned level of service for transit is defined in the Region's 10-year capital plan. Through approval of the annual budget, which includes a 10-year capital plan, Council indicated that it intends to ensure that an increase in need for transit service will meet the transit network as per the latest <u>Transportation Master Plan</u>, <u>York Region Transit</u> <u>Strategic Plan and Service</u> <u>Guidelines</u>. Service Guidelines define how new services are designed, and how existing transit routes are evaluated for service adjustments. They are applied in tandem with route performance measures.

Development of Transit levels of service starts with the objectives for Transportation Services identified in York Region's Vision and 2019 to 2023 Strategic Plan. Levels of service at the customer, technical and operational levels were developed based on these directions, focusing on safety, reliability, and efficiency.

Tables 13-4 and 13-5 provide the levels of service as indicated in the Transit Asset Management Plan.

Service	Performance Metric	l (Lowest)	2	3	4	5 (Highest)
Fleet Reliability	Distance betweenfailures (km)	<10,000	10,000- 12,000	>12,000- 14,000	>14,000- 16,000	>16,000
Capacity	Demand to capacity ratio by route	<50%	50-59%	60-69%	70-90%	>90%
Operating Efficiencies (Net Cost per Passenger)	Vehicle and overhead cost perpassenger (as multiples of theaverage fare)	>5x	>4x - <=5x	>3x - <=4x	>2x - <=3x	<=2x
Operating Reliabilities (On-time Performance)	Early/late trip starts	<91%	91-<92%	92-<93%	93-<94%	>=94%
Fleet Cleanliness	Cleanliness score based on sample inspected	<93%	93- <95%	95- <97%	97-<99%	>=99%

TABLE 13-4 FLEET LEVELS OF SERVICE CATEGORIES

The Region evaluates asset performance by looking beyond the physical infrastructure condition and incorporating other factors impacting service quality and satisfaction. Levels of service are defined by current and future Regional needs, and can be defined at three levels: corporate, customer, and technical and operational.Indicators have been established to support assessment and reporting. These levels of service have been measured at the technical and operational level and linked to the Region's Strategic Plan Objectives and Transportation Services Mission.

TABLE 13-5

FACILITIES LEVELS OF SERVICE CATEGORIES

Service	Performance Metric	l (Lowest)	2	3	4	5 (Highest)
Condition	Assessment results for Garages	Architectural components are well maintained/ functional and all other components are either Poor or higher	Architectural components are well maintained/ functional and all other components are either Fair or higher except one component in Poor condition	Architectural components are well maintained/ functional and all other components are either Fair or higher	Architectural components are well maintained/ functional and all other components are either Good or Very Good except one component in Fair condition	Architectural components are well maintained/ functional and all other components are either Good or Very Good
Capacity	Capacity as a percentage of fleet size ratio for each garage	>85%	70% - 85%	60% - <70%	50% - <60%	<50%
Service Coverage	Location	<50%	50-69%	70-84%	85-89%	>=90%

(Based on 2019 Data)

Note that the level of service in this asset management plan refers to the metric that is used to identify infrastructure needs due to population and employment growth. This metric also underpins the Region's growth-related capital program, which is designed to meet these targets. This level-of-service metric is not the same as metrics used to determine long-term lifecycle needs.

Growth planning level of service for transit infrastructure is planned using average annual increase in ridership. This data is based on projections from the Regional transportation demand forecasting tool Activity Based Model (ABM) and the network of transportation improvements identified in the Transportation Master Plan updates, in terms of modal splits and forecast trips in the peak hour and peak direction. Network improvements as identified in theTransportation Master Plan and the Council-endorsed capital plan are used to update the Transit AMP.

13.4.4 Current Level of Performance Relative to the Targets

The Transit AMP defines the following levels of service categories (Table 13-6 and Table 13-7) and the level of services.

TABLE 13-6

FLEET LEVELS OF SERVICE CATEGORIES

Service Category	Metric	Level of Service Summary (Grade 5 = Highest)
Fleet Reliability	Distance between failures	Grade 5 - Average for conventional and Viva bus routes was greater than 16,000 km
Capacity	Demand to capacityratio	Number of Services by Grade:Grade 5 – 24 routes Grade 4 – 17 routes Grade 3 – 11 routes Grade 2 – 5 routes Grade 1 – 21 routes
Operating Efficiencies (Net Cost per Passenger)	Vehicle and overheadcost per passenger	Number of Services by Grade: Grade 5 – 64 routes Grade 4 – 9 routes Grade 3 – 5 routes Grade 2 – 1 route Grade 1 – 5 routes
Operating Reliabilities (On- time Performance)	Early/late trip starttime	Grade 5 – The percentage of on-time trip starts forconventional and Viva bus routes was greater than94%
Cleanliness	Vehicle condition (vandalism/	Grade 5 – Viva and Mobility Plus buses achieved acleanliness score above 99%
	paint)	Grade 4 – Conventional buses achieved a 97% score

TABLE 13-7 FACILITIES LEVELS OF SERVICE CATEGORIES

Service Category	Performance Metric	Level of Service Summary (Grade 5 = Best)
Facility Condition	Condition inspectionfor garages	Grade 5 and 4 – The majority of inspected garages had all or most components in Goodcondition
		Grade 3 – One inspected garage had morethan one component in Fair condition
Garage Capacity	Fleet size as a percentage of garage capacity	Grade 1 and 3 – In 2019, two of the transitgarages had a capacity to fleet ratio of 95% orhigher, while one garage was at 65%
Service Coverage	Location of transitstops relative to population	Grade 5 – 93.7% of urban residents are within 500m of a transit stop

(Based on 2019 Data)

13.5 Transit Asset Management Strategy

13.5.1 Estimated Useful Life

Table 13-8 shows the average useful life for Transit assets. Mobility on Request vehicles vary by type with Eldorado vehicles having a useful life of 12 years and other vehicles estimated to have a useful life of seven years.

TABLE 13-8

USEFUL LIFE ESTIMATES

Asset Type	Useful Life (years)
Bus fleet (60' and 30')	12
Bus fleet (40')	18
Garages, terminals, and transit loops	50
Transit stops (shelters and platforms)	15
Equipment and Technology	5-15

(Source: Transportation Services Department)

13.5.2 Fleet Age

Figure 13-3 provides the age profile for the York Region Transit conventional fleet. The Region owns and operates conventional buses, Viva buses and the Mobility-on-Request program. Table 13-9 shows the replacement cost profile by age of asset and type of fleet.

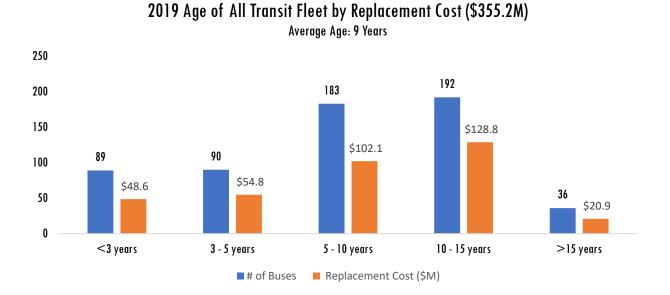
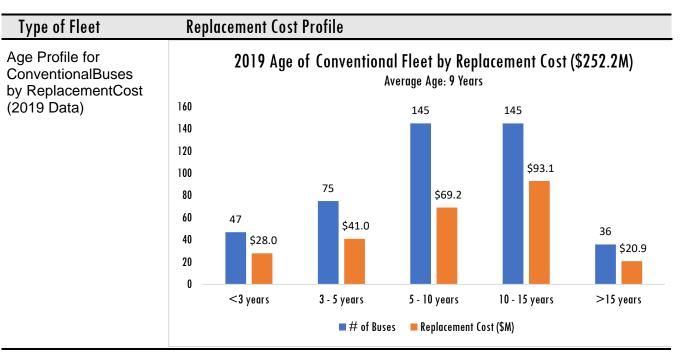


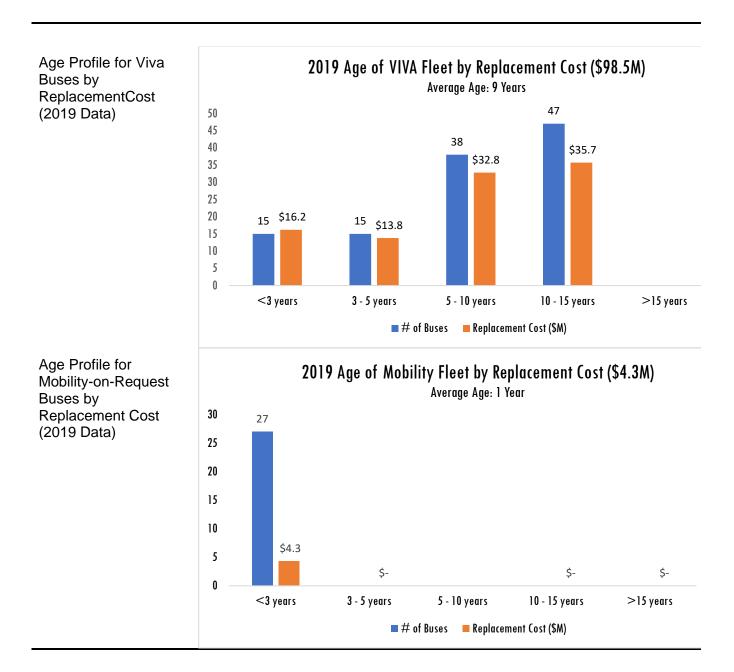
FIGURE 13-3

AGE PROFILE FOR ALL TRANSIT BUSES BY REPLACEMENT COST (2019 DATA)

TABLE 13-9



REPLACEMENT COST PROFILE BY TYPE OF FLEET



13.5.3 Fleet remedial schedule and costs

Table 13-10 provides the planned fleet remedial schedule.

TABLE 13-10

FLEET CAPITAL REFRESH, REHABILITATION, AND REPLACEMENT SCHEDULE

Vehicle Type	30 ft. (years)	40 ft. (years)	60 ft. (years)	Mobility Plus (years)
Total Life	12	18	12	7 - 12
Capital Refresh	None	None	6	None
Mid-Life (Rehabilitation)	None	10	None	None

(Source: Transit AMP)

Table 13-11 shows the estimated cost of remedial activities for Transit fleet.

TABLE 13-11 COST ASSOCIATED WITH REMEDIAL ACTION

	Cost, \$000s
	\$70
	\$210
Conventional	\$600
Viva	\$700 - \$1,200
Mobility Plus	\$260
	Viva

(Source: Transit AMP)

13.5.4 Average Sustainment Requirements

Figures 13-4 and 13-5 provide the estimated Transit average annual sustainment needs (excluding maintenance) for fleet and facilities for 2022 to 2041 as (\$37.5M + \$7.8M) = \$45.3M.

FIGURE 13-4

ANTICIPATED FLEET SUSTAINMENT NEEDS

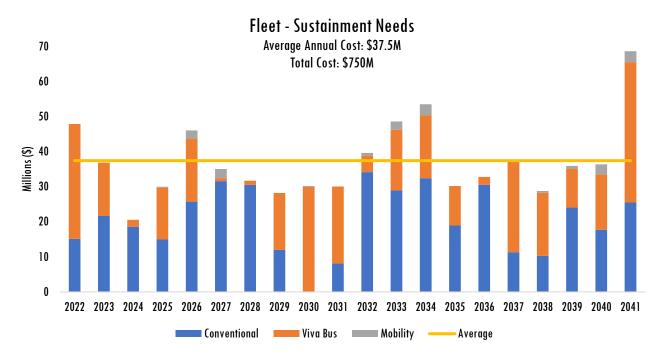
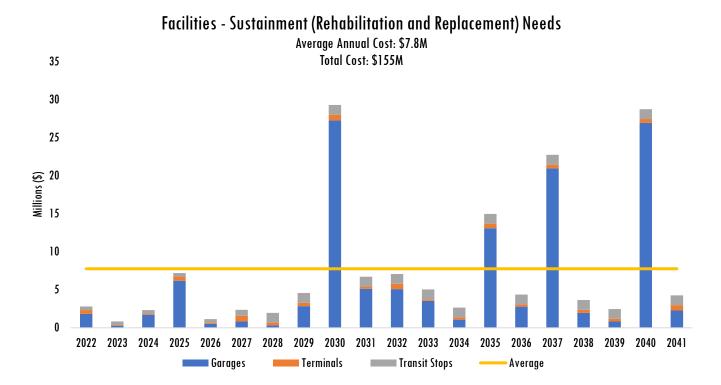


FIGURE 13-5 ANTICIPATED FACILITIES SUSTAINMENT NEEDS



Based on the Transit Business Plan, Transportation Master Plan and Transit AMP, the average annual growth needs for fleet and facilities for 2022to 2041 is (\$12.2M + \$10.6M) = \$22.8M as indicated in Figures 13-6 and 13-7, below.

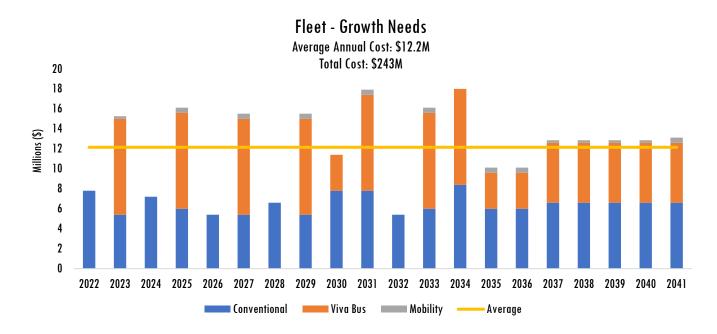
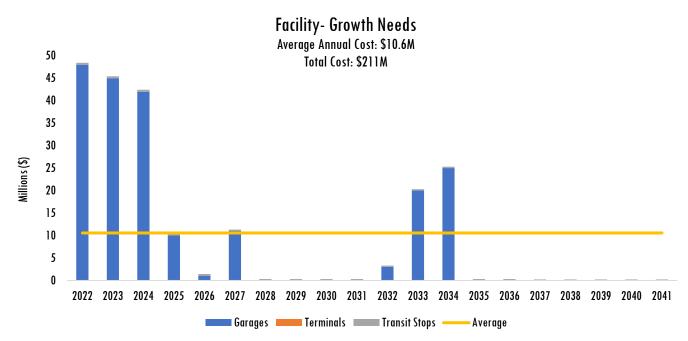


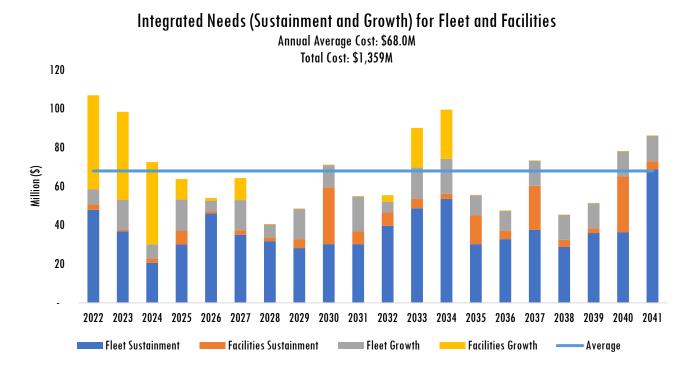
FIGURE 13-6 ANTICIPATED FLEET GROWTH NEED

FIGURE 13-7

ANTICIPATED FACILITIES GROWTH NEEDS



Based on the Transit Business Plan, Transportation Master Plan, and Transit AMP, average annual sustainment and growth needs for fleet andfacilities for 2022 to 2041 is \$68.0M as indicated in Figure 13-8 below.



INTEGRATED NEEDS FOR FLEET AND FACILITIES

FIGURE 13-8

13.5.5 Transit Asset Management Overview

For transit vehicles, maintenance is managed through third party maintenance contracts. These performance-based contracts help incentivize the contractors to maintain appropriate levels of service. The service contract defines criteria in which the thirdparty has to follow outlined preventative maintenance, routine maintenance, and proactive maintenance requirements. These allow the Region to better benchmark andevaluate its current state.

Rehabilitation, defined as remedial actions that increase the life of the asset, is generally considered a capital expenditure. Remedial actions can increase the asset life by increasing its useful life as a whole or by installing new components to stretch out the useful life of the asset.

The purpose of replacement is to acquire an asset to substitute a current asset because the asset is at its end of life. This may slightly increase capacity and condition because of technological improvement reasons. However, the main purpose is to replace the asset due to age.

For transit fleet, the capital budget also includes capital refresh as part of sustainment in addition to rehabilitation and replacement. Although capital refresh may not extend the life of the asset beyond its design life it is part of capital expenses.

Regional Council has endorsed a Transit Bus Fleet Electrification plan, including transition of the Region's bus fleet to clean electric bus technology by the Region's target of 2051. The endorsed plan is a phased approach to electrification with a mix of electric and diesel buses being purchased between 2021 and 2029, transitioning to exclusive purchase of electric buses by 2030.

For transit fleet, York Region proactively performs midlife overhauls. Buses purchasedby York Region Transit have a design life of 12 years as specified by the original equipment manufacturer. The midlife overhaul extends the life of a normal vehicle from 12 to 18 years, as required by Regional Council. Additionally, a major overhaul of the mechanical systems is conducted, including engine, transmission, radiator, charge air cooler and drive axle assessment, brake relining, suspension replacement, and auxiliary heater and air conditioning refresh.

For more details, please refer to the Transportation Asset Management Plan.

13.6 Financial Strategy

A detailed analysis was undertaken to evaluate the financial sustainability of the full life cycle costs of assets that are proposed to be funded under the development charges by-law, per Subsection 10(3) of the Act.

Financial sustainability is defined, based on the Region's Fiscal Strategy, as:

- 1. Balancing the current and long-term needs of the Region by:
 - Managing the capital plan, which sets priorities among infrastructure projects
 - Reducing reliance on debt
 - Saving for the future by building up reserves
- 2. Generating stable and adequate financing to maintain Regional infrastructure and operational capacity to provide core services
 - Stable and adequate financing will rely on revenue sources available or confirmed at the time, without relying on additional support from higher levels of government
- 3. Aiming for equitable outcomes by ensuring benefiting users pay for the services they are provided (e.g., growth pays for growth; the principle of inter-generational equity)

To fully assess the financial impact of the projects in the Region's proposed2022 Development Charges Bylaw, it is necessary to consider all of thefinancial requirements that the Region will likely face in the future.

The financial analysis incorporates the full operating and capital requirements related to both existing and future assets, as well as service areas without capital plans (e.g., Office of the Regional Chair). Consistent with the Region's Fiscal Strategy, the analysis assumes that capital reserves will be built up adequately to avoid the use of future userrate or tax levy debt for any foreseen asset lifecycle needs, including growth related capital. It also takes inter-generational equity into account by attempting to spread the cost of capital equitably across the tax/user rate base over time.

Asset management and lifecycle assumptions were derived from service area asset management plans. To facilitate analysis of assets yet to be emplaced, life-cycle costs have been estimated based on the estimated useful life provided by the Region's tangible capital asset guideline. It is acknowledged that these assets might be further componentized into smaller asset elements as they come on-line but since they are similar to assets currently in use, the estimated useful life is deemed to be a reasonable proxy.

Water and wastewater infrastructure lifecycle costs are funded through water and wastewater rates while all other infrastructure is funded primarily through the tax levy. As such, the Region's analysis looks at services funded through water and wastewateruser rates separately from all tax-supported services.

13.6.1 Rate Funded (Water and Wastewater)

In September 2021, Regional Council approved six years of water and wastewater rate increases with the goal of achieving and maintaining full cost recovery. Water and wastewater rate-setting is guided by goals and principles that recognize the importance of both operational excellence and long-term financial sustainability.

For financial sustainability, the goal is to set prices that cover the full cost of providing services, a goal to which York Region has been committed for more than a decade. Full costs include both day-to-day operating expenses and contributions to reserves to cover current and future rehabilitation and replacement costs.

The approved rate increases ensure that asset management activities can be afforded when they are required to minimize lifecycle costs and that there will be adequate reserve balances to avoid any future user rate debt. A description of the work that supported Council's 2021 rate approval can be found in the <u>Water and Wastewater Financial Sustainability Plan</u>.

Tables 13-12 and 13-13 summarize the capital funding and additional (incremental) operating expenses and revenue for the growth-related infrastructure identified in the 2022 DC Background Study. Operating expenditures include provisions for the emplacement of infrastructure and contributions to the replacement of new and existingassets to reflect their impact on billings.

TABLE 13-12

CAPITAL FUNDING SOURCES FOR RATE SUPPORTED GROWTH PROJECTS 2022-2041: COST OF EMPLACEMENT

Funding Sources (\$000s)	Total	2022-2026	2027-2031	2032-2036	2037-2041
User Rate Funding (Reserves)	40,439	56	3,785	29,851	6,747
Development Charges	2,742,253	647,820	796,715	651,939	645,779
Other Funding	282,761	122,737	74,258	30,773	54,993
Total	3,065,453	770,613	874,758	712,563	707,519

For this table, Gross Project Costs exclude items without associated life-cycle costs, like DC credits, environmental assessments, and growth studies.

TABLE 13-13

INCREMENTAL GROWTH-RELATED OPERATING EXPENSES AND REVENUES 2022- 2041: RATE FUNDED

Operating Impact of Growth (\$000s)	Total	2022-2026	2027-2031	2031-2036	2037-2041
Salaries and Benefits	37,009	9,081	7,688	9,039	11,201
Purchased Services	51,261	7,960	9,754	14,149	19,397
Asset Management Contributions	104,095	18,649	22,241	28,872	34,333
Growth-Related Financing Costs	(5,265)	20,508	20,356	(60,662)	14,534
Other Expenses*	12,140	3,070	3,221	1,987	3,862
Gross Expenditures	199,240	59,268	63,260	(6,614)	83,326
User Rates	(191,840)	(30,640)	(38,761)	(53,635)	(68,804)
Fees and Charges	(1,232)	(252)	(287)	(332)	(362)
DC Recovery	5,265	(20,508)	(20,356)	60,662	(14,534)
Total Revenue	(187,807)	(51,401)	(59,403)	6,696	(83,699)
Potential Billing Revenue Requirements	11,433	7,867	3,857	81	(373)

*Other Expenses include General Expenses; Professional Contracted Services; Occupancy & R&MCosts; Minor Capital; and Allocations and Capital Recoveries

Overall, the additional costs for water and wastewater services due to growth are paid for through revenues generated by growth. Over the period from 2022 to 2041, it is anticipated that growth will increase expenditures by \$199 million and increase revenue by \$188 million, resulting in a net impact of \$11 million on the existing user base over 20 years. The water and wastewater projects in the DC Background Study are similar to those that informed the <u>Water and Wastewater</u> <u>Financial Sustainability Plan</u>. The operating projections are based on the anticipated revenues generated by the rates approved by Council, and are deemed to be financially sustainable.

13.6.2 Tax-Levy Funded

A similar methodology (as used in the water and wastewater analysis) was also applied to services funded by property taxes.

Tables 13-14 and 13-15 summarize the capital funding and additional (incremental) operating revenues and expenses related to growth projects on the main list of the 2022 DC Background Study. Similar to the user rate analysis, the incremental operating requirements calculated here include operating costs resulting from the emplacement of infrastructure and contributions to the replacement of new and existing assets.

TABLE 13-14

CAPITAL FUNDING SOURCES FOR TAX-LEVY-SUPPORTED GROWTH PROJECTS ON THE MAIN LIST OF THE 2022 DC BACKGROUND STUDY 2022-2041: COST OF EMPLACEMENT

Funding Sources (\$000s)	Total	2022-2026	2027-2031	2032-2036	2037-2041
Tax Levy Funding (Reserves)	3,468,908	814,178	1,021,226	789,810	843,695
Development Charges	6,458,795	1,536,076	2,084,536	1,350,270	1,487,913
Other Funding	2,627,615	468,006	1,025,589	538,735	595,285
Total	12,555,318	2,818,260	4,131,350	2,678,816	2,926,893

TABLE 13-15

CAPITAL FUNDING SOURCES FOR TAX-LEVY-SUPPORTED GROWTH PROJECTS ON THE CONTINGENCIES LIST OF THE 2022 DC BACKGROUND STUDY 2022-2041: COST OF EMPLACEMENT

Funding Sources (\$000s)	Total	2022-2026	2027-2031	2032-2036	2037-2041
Tax Levy Funding (Reserves)	44,092	-	-	20,852	23,240
Development Charges	753,764	-	-	356,471	397,293
Other Funding	809,460	-	-	382,811	426,649
Total	1,607,316	-	-	760,134	847,182

As shown in Table 13-16, the incremental increase in operating expenditures created by growth total nearly \$1.2 billion over the 20-year projection period, with operating revenue expected to rise by \$387 million. Forecasted assessment growth revenue of \$392 million is projected to offset more than half of the resulting net expenditure increase on taxpayers. As a result, about \$395 million of the increase is forecast to be recovered from the tax base over the 20-year forecast period. This funding requirement is considered financially sustainable as it is expected that it can be reasonably absorbed by the tax base over the forecast period.

TABLE 13-16

Total over period (\$000s)	Total	2022-2026	2027-2031	2032-2036	2037-2041
Salaries and Benefits	495,136	79,837	104,801	138,069	172,430
Program Specific Expenses	190,181	30,925	42,426	56,310	60,520
Asset management contributions	260,330	47,983	55,002	74,042	83,303
Growth-related capital reserve contributions	33,620	13,881	11,846	5,075	2,818
Other costs**	195,769	33,044	41,835	56,351	64,539
Gross Expenditures	1,175,037	205,669	255,911	329,847	383,610
Grants and Subsidies	(282,368)	(50,999)	(64,462)	(79,272)	(87,635)
User fees	(61,922)	(6,696)	(11,521)	(18,224)	(25,480)
Other Revenues***	(43,089)	(8,515)	(10,696)	(11,912)	(11,966)
Total Revenue	(387,379)	(66,211)	(86,680)	(109,409)	(125,080)
Net Expenditure Before Assessment Growth	787,657	139,459	169,231	220,438	258,529
Assessment Growth Revenue	(392,200)	(89,900)	(101,000)	(104,500)	(96,800)
Potential Net Expenditure after Assessment Growth Revenue	395,457	45,559	68,231	115,938	161,729

INCREMENTAL GROWTH-RELATED OPERATING REVENUES AND EXPENSES FOR THE MAIN LIST OF THE 2022 DC BACKGROUND STUDY 2022-2041: TAX LEVY FUNDED*

* Excludes the impact of growth on development charges and the debt-related payments they fund. The net impact of these two items on net expenditures is expected to be zero.

**Other Expenses include General Expenses, Chair & Council Expenses, Minor Capital, Professional Contracted Services, Occupancy and R&M costs, Contribution to non-capital reserves, Insurance, Departmental Recoveries.

***Other Revenues include Contributions from reserves, Fine Revenue, Fees and Charges, and Third-Party Recoveries.

The results of this analysis reflect the best information available at this time and are based on a number of critical assumptions, which carry an inherent degree of uncertainty. Among these include assumptions around ongoing costs for projects like the YNSE, where project details have not been finalized. However, detailed analysis will continue through the annual budget process to confirm required levels of spending, mitigate tax rate impacts and employ other funding mechanisms, where possible, consistent with the Region's Fiscal Strategy. For example, revising service levels, asset management, and/or financing strategies could contribute to alleviating the funding need.

13.7 Transit Services

The Act supported by O.Reg. 82/98 prescribes specific requirements for Transit services. One of the requirements is a detailed financial strategy that:

- Shows the yearly expenditure forecasts that would achieve the proposed level of service, categorized by,
 - A. Non-infrastructure solutions
 - B. Maintenance activities
 - C. Renewal and rehabilitation activities
 - D. Replacement activities
 - E. Disposal activities
 - F. Expansion activities
- Provides actual expenditures in respect of the categories set out above from the previous two years, if available, for comparison purposes,
- Gives a breakdown of yearly revenues by source,
- Discusses key assumptions and alternative scenarios where appropriate, and
- Identifies any funding shortfall relative to financial requirements that cannot be eliminated by revising service levels, asset management or financing strategies, and discusses the impact of the shortfall and how the impact will be managed.

Tables 13-17 and 13-18 summarize the capital funding and additional (incremental) operating revenues and expenses specifically related to growth in Transit services.

TABLE 13-17

CAPITAL FUNDING SOURCES FOR GROWTH-RELATED TRANSIT PROJECTS* 2022-2041 COST OF EMPLACEMENT

Funding Sources (\$000s)	Total	2022-2026	2027-2031	2032-2036	2037-2041
Tax Levy Funding (Reserves)	141,479	17,032	124,447	-	-
Development Charges	560,214	67,441	492,773	-	-
Other Funding	595,440	71,681	523,758	-	-
Total	1,297,133	156,153	1,140,979	-	-

*Growth Related Transit Projects includes Bus Rapid Transit projects that fall in the Transit service area.

TABLE 13-18

INCREMENTAL GROWTH-RELATED OPERATING REVENUES AND EXPENSES 2022-2041: TRANSIT SERVICES*

Total over period (\$000s)	Total	2022-2026	2027-2031	2032-2036	2037-2041		
	Maintenance	/ Non-Infrastrue	cture Solutions				
Salaries and Benefits	11,700	2,317	2,581	3,273	3,529		
Program Specific Expenses	58,969	12,338	13,230	16,345	17,057		
Other Expenses**	44,761	8,855	9,867	12,586	13,453		
Renewal/ Rehabilitation & Replacement/ Disposal Activities							
Asset Management Contributions	73,318	13,514	15,491	20,853	23,461		
	E	xpansion Activi	ities				
Growth-Related Capital Reserve Contributions	11,555	4,771	4,072	1,744	969		
Gross Expenditures	200,304	41,794	45,239	54,801	58,468		
User Rates	(67,720)	(12,508)	(11,517)	(18,220)	(25,475)		
Other Revenues***	(5,092)	(2,274)	(1,032)	(990)	(796)		
Total Revenue	(72,812)	(14,782)	(12,549)	(19,209)	(26,271)		

* Excludes the impact of growth on development charges and the debt-related payments they fund. The net impact of these two items on net expenditures is expected to be zero.

** Other Expenses include General Expenses, Minor Capital, Professional Contracted Services, Occupancy and R&M costs, Contribution to non-capital reserves, Insurance, Departmental Recoveries

*** Other Revenues include contributions from reserves, fees and charges, and third-party recoveries

As shown in Table 13-18, growth in Transit services is projected to increase expenses by about \$200 million by the end of 2041, while user rates (transit fares) and other revenue sources would increase by \$73 million. The remainder would need to be collected through other sources, like property taxes. As noted in the aggregate financial analysis discussed in Section 13.6.2, this funding requirement is considered financially sustainable as it is expected that it can be absorbed by the tax base over the forecast period through tax levy increases.

Alternatively, revising service levels, asset management, and/or financing strategies could contribute to alleviating the funding need. These alternatives will be examined indetail through the annual budget process.

13.8 Conclusion

York Region has provided the required information specific to asset management to meet the requirements as outlined in the Act supported by O.Reg. 82/98.

York Region has undertaken asset management planning analysis to ensure that assets required to enable growth to 2041 are financially sustainable as demonstrated in section 13.6 Financial Strategy.

Appendix A: Interjurisdictional Scan

INTERJURISDICTIONAL SCAN OF DEVELOPMENT CHARGES RATES

This Appendix is split into two parts:

This first part provides an interjurisdictional scan of development charges rates in neighboring municipalities (as of February 2, 2022). It compares, across municipalities:

- Residential development charges rates (single detached, rows/multiples, large apartments and small apartments)
- Non-residential development charges rates (retail, office and industrial)

York Region rates are as proposed under the 2022 Development Charges Bylaw.

Figure A-1 provides a comparison of **total** development charges rates for all Greater Toronto Area municipalities per single detached dwelling as of February 2, 2022

Figure A-2 provides a comparison of **total** development charges rates for all Greater Toronto Area municipalities per rows/multiples as of February 2, 2022.

Figure A-3 provides a comparison of **total** development charges rates for all Greater Toronto Area municipalities per large apartments as of February 2, 2022.

Figure A-4 provides a comparison of **total** development charges rates for all Greater Toronto Area municipalities per small apartments as of February 2, 2022.

Figure A-5 provides a comparison of **total** development charges rates for all Greater Toronto Area municipalities per square foot for retail developments as of February 2, 2022.

Figure A-6 provides a comparison of **total** development charges rates for all Greater Toronto Area municipalities per square foot for industrial developments as of February 2, 2022.

Figure A-7 provides a comparison of **total** development charges rates for all Greater Toronto Area municipalities per square foot for office developments as of February 2, 2022.

This second part provides an interjurisdictional scan of development charges rates in Barrie and Simcoe County (as of February 2, 2022). It compares, across municipalities:

- Residential development charges rates (single detached, rows/multiples, large apartments and small apartments)
- Non-residential development charges rates (retail, office and industrial)

York Region rates are as proposed under the 2022 Development Charges Bylaw.

Figure A-8 provides a comparison of **total** development charges rates for Barrie and all Simcoe County municipalities per single detached dwelling as of February 2, 2022.

Figure A-9 provides a comparison of **total** development charges rates for Barrie and all Simcoe County municipalities per rows/multiples as of February 2, 2022.

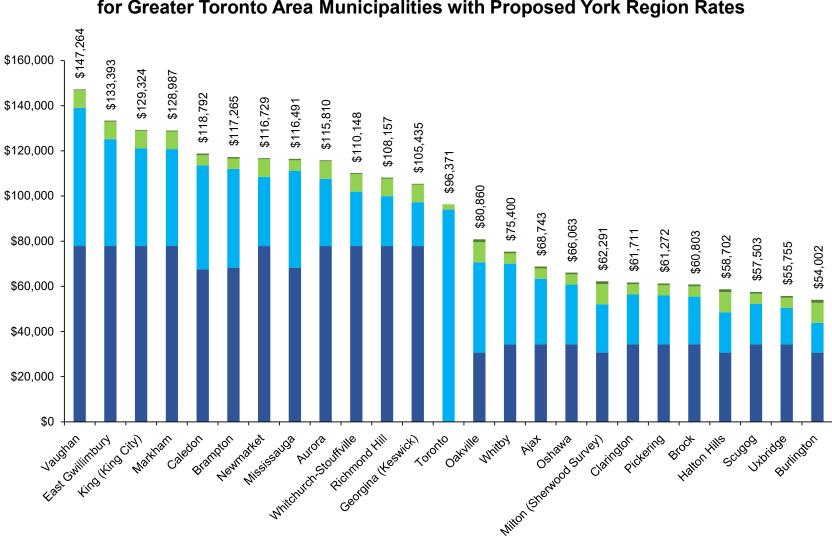
Figure A-10 provides a comparison of **total** development charges rates for Barrie and all Simcoe County municipalities per large apartments as of February 2, 2022.

Figure A-11 provides a comparison of **total** development charges rates for Barrie and all Simcoe County per small apartments as of February 2, 2022.

Figure A-12 provides a comparison of **total** development charges rates for Barrie and all Simcoe County municipalities per square foot for retail developments as of February 2, 2022.

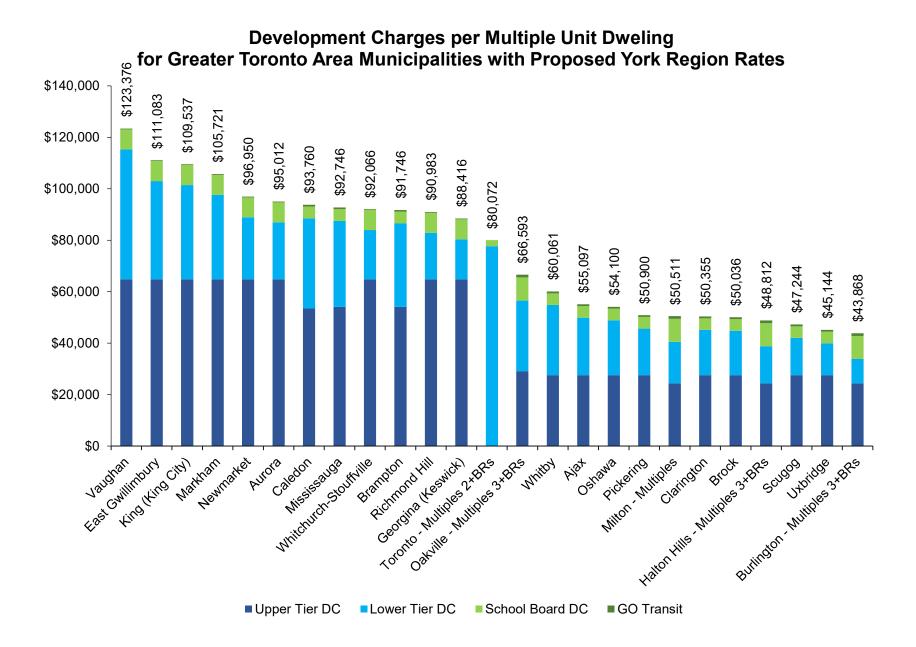
Figure A-13 provides a comparison of **total** development charges rates for Barrie and all Simcoe County per square foot for industrial developments as of February 2, 2022.

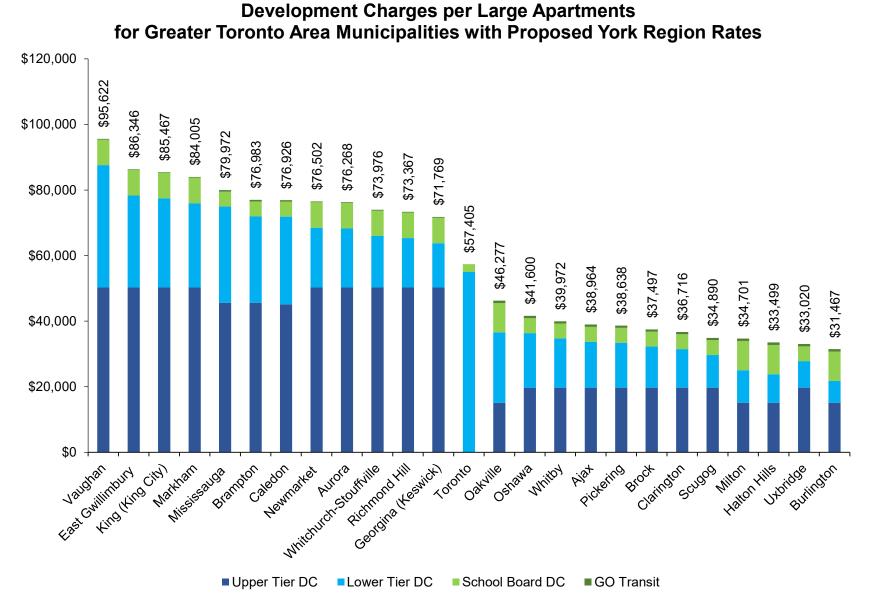
Figure A-14 provides a comparison of **total** development charges rates for Barrie and all Simcoe County municipalities per square foot for office developments as of February 2, 2022.

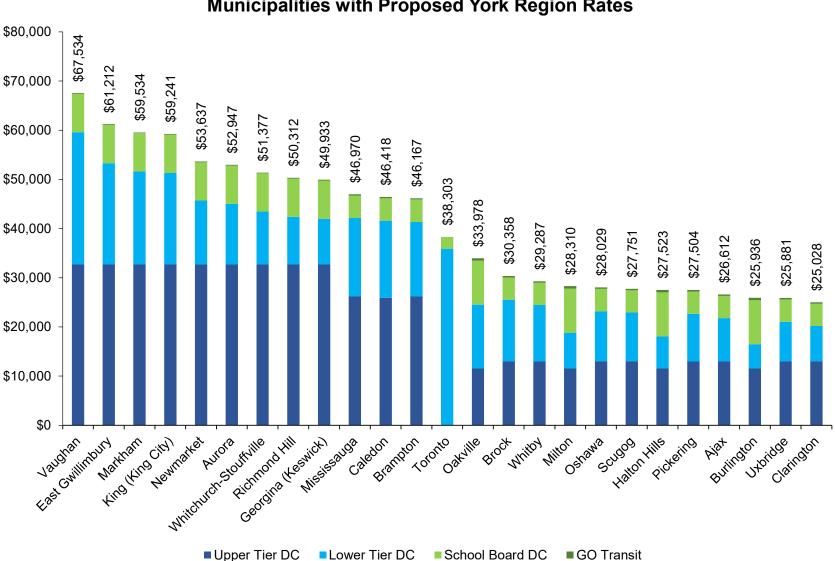


Development Charges per Single or Semi-Detached Dwelling for Greater Toronto Area Municipalities with Proposed York Region Rates

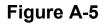
■ Upper Tier DC ■ Lower Tier DC ■ School Board DC ■ GO Transit



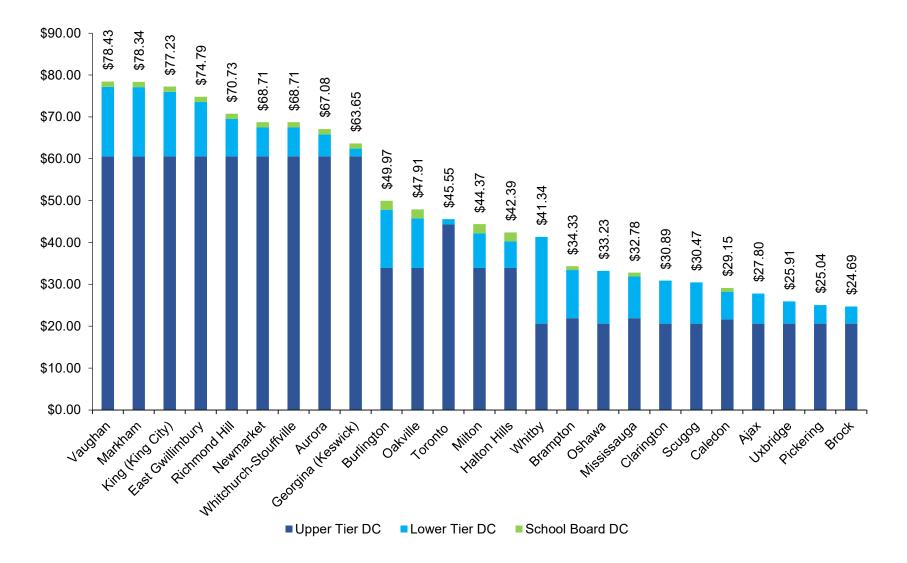


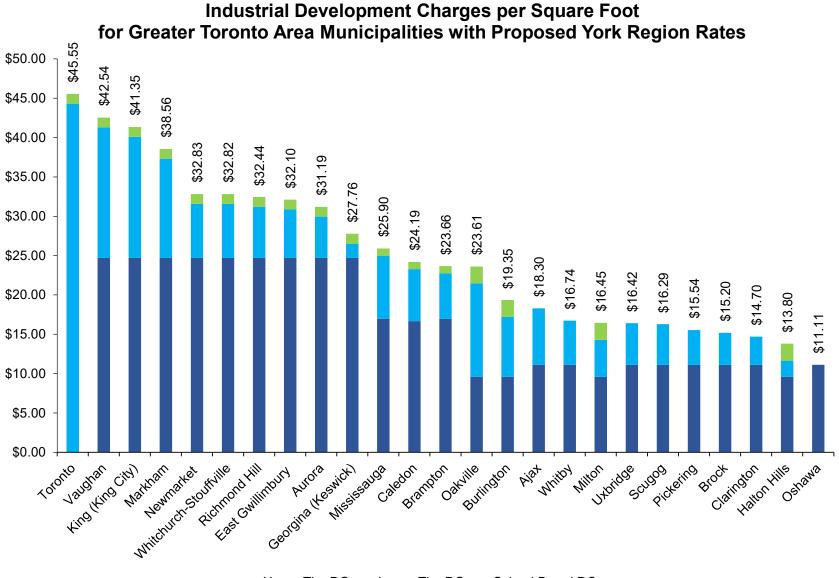


Development Charges per Small Apartments For Greater Toronto Area Municipalities with Proposed York Region Rates

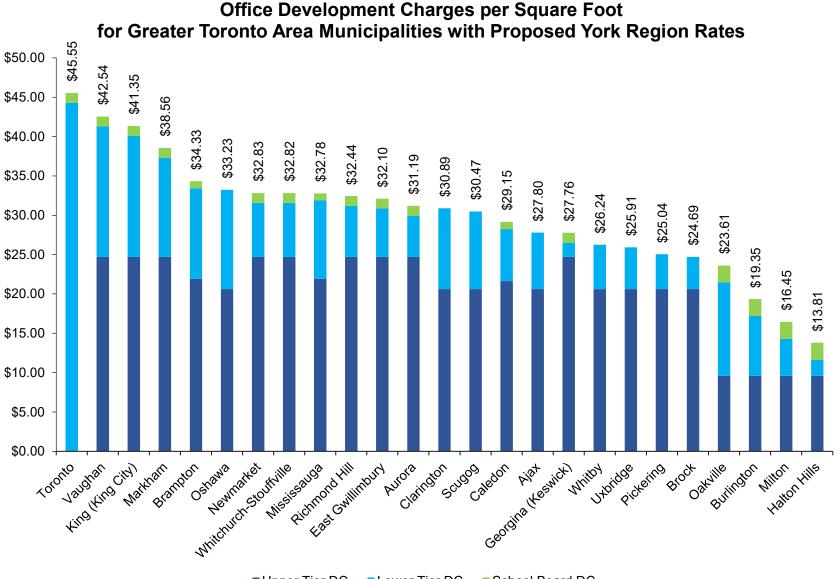


Retail Development Charges per Square Foot for Greater Toronto Area Municipalities with Proposed York Region Rates

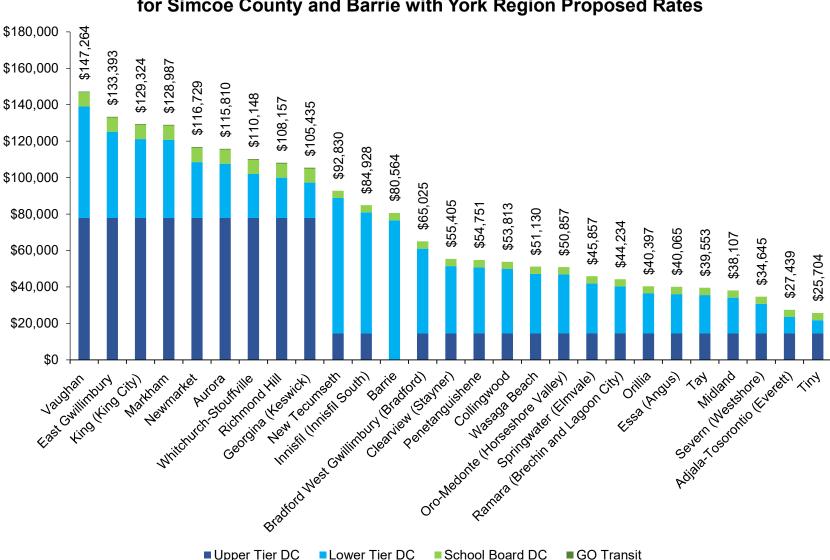




Upper Tier DC Lower Tier DC School Board DC



Upper Tier DC Lower Tier DC School Board DC



Development Charges per Single and Semi-Detached Dwelling for Simcoe County and Barrie with York Region Proposed Rates

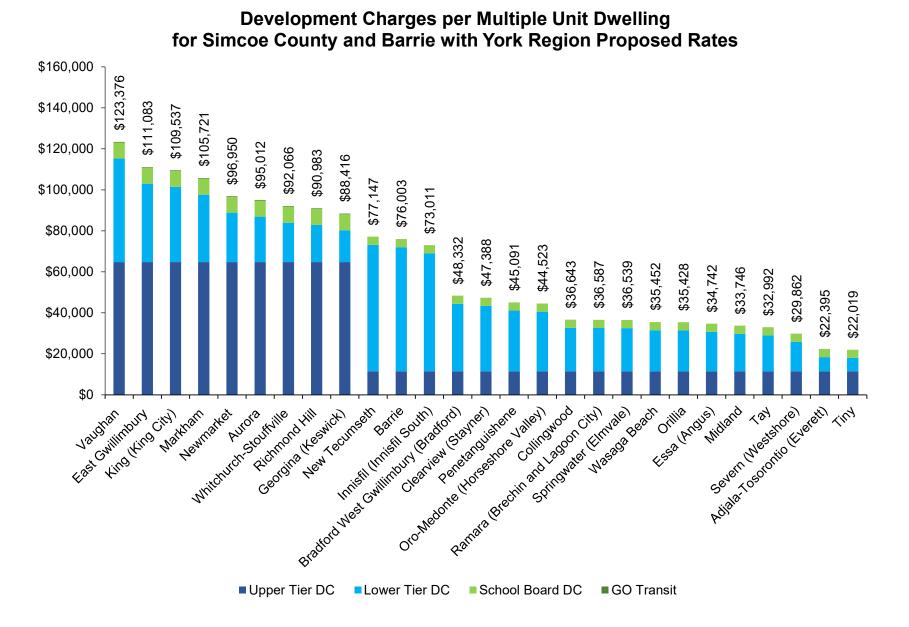
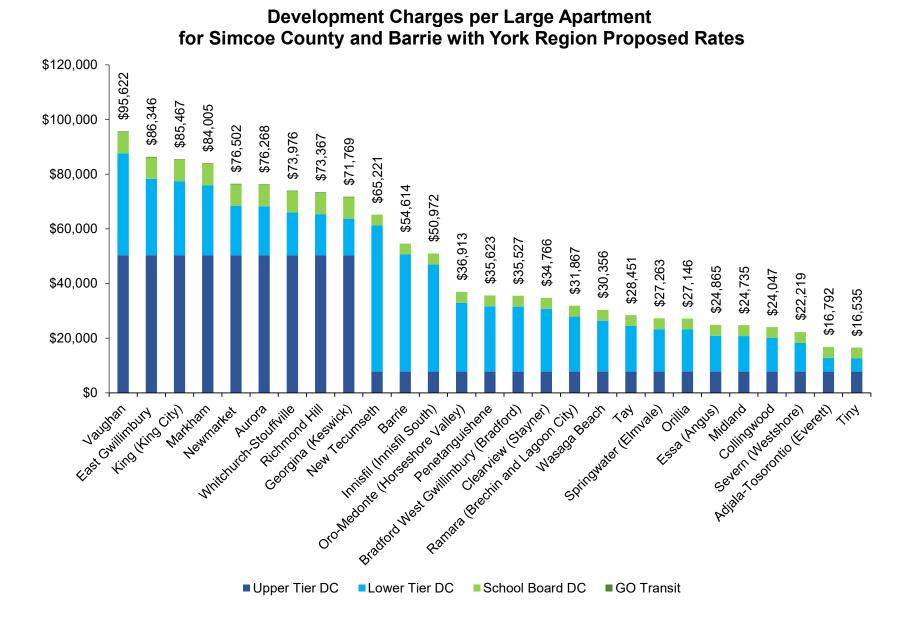
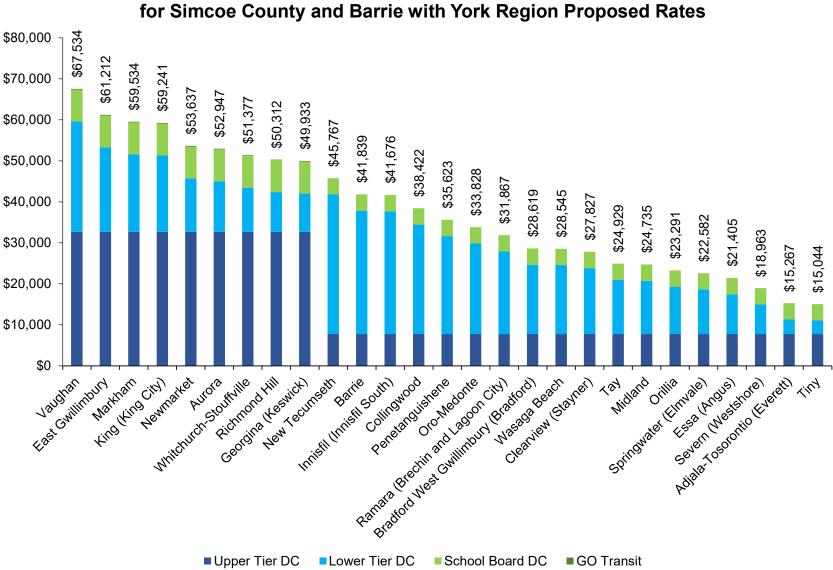
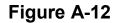


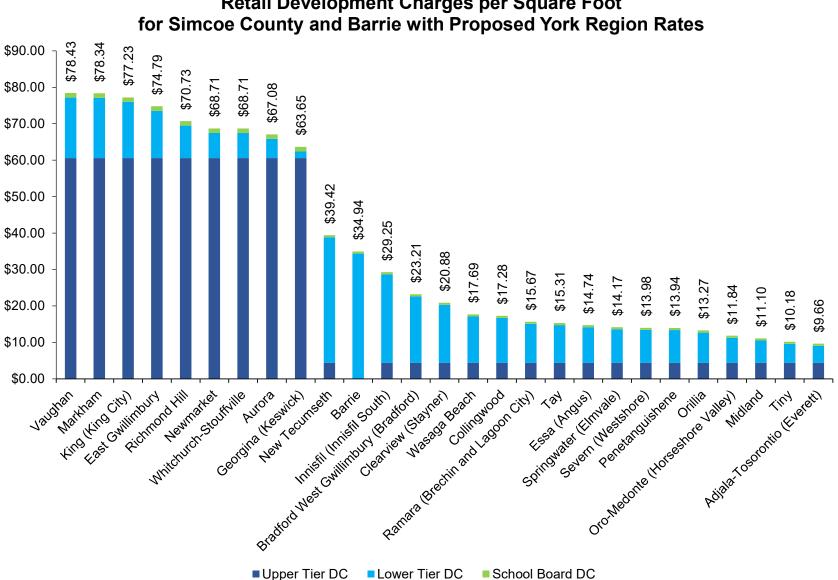
Figure A-9

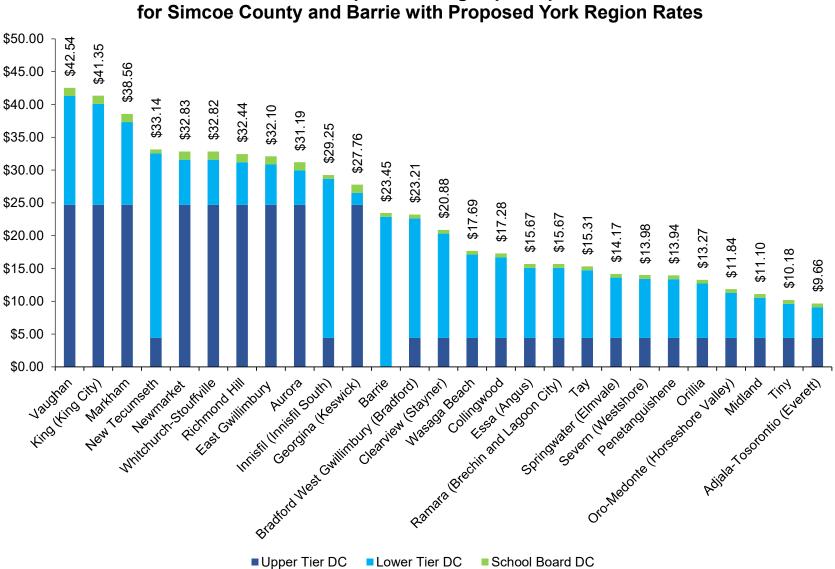




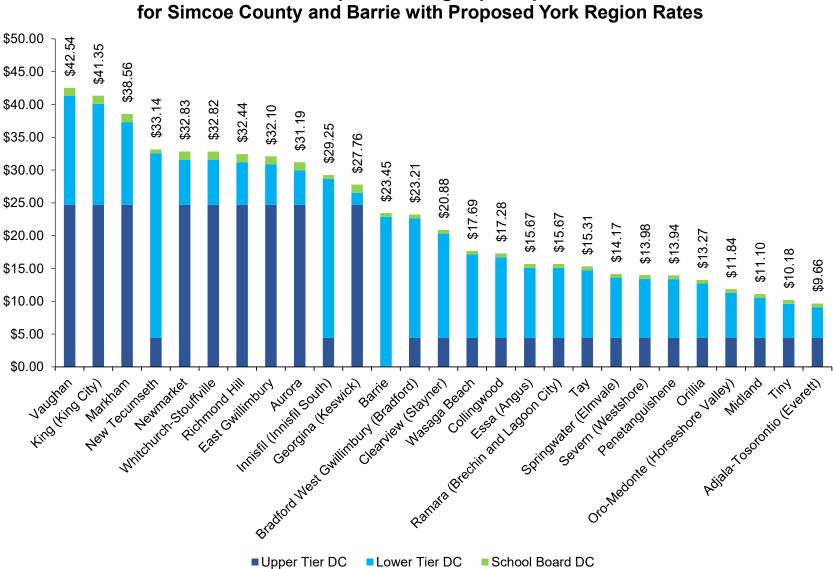












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Appendix B: YNSE Area-specific development charges options

YNSE RATE STRUCTURE CONSIDERATIONS

The following section explores options for recovering YNSE costs both on a uniform regionwide basis and on an area-specific development charge (ASDC) basis. This analysis makes up part of the consideration of the use of area rating in the Region.

Three options were considered in the recovery of growth related YNSE capital costs. The first of which is a uniform region-wide approach similar to all other services in the DC Bylaw, with the exception for wastewater, specifically the standalone wastewater system in Nobleton. The next two options deal with various levels of area-specific recoveries:

- 1. Uniform region-wide Rate
- 2. Municipalities currently serviced by the rapid transit or VIVA BRT network (Aurora, Markham, Newmarket, Richmond Hill and Vaughan) would pay for a greater share of the cost.
- 3. An area-specific rate for five Major Transit Station Areas (MTSAs) in addition to a Region-wide rate.

As noted in Chapter 8, and in all options considered below, the YNSE total project cost is estimated at \$5.6 billion. The Region's share of the YNSE is estimated at \$1.12 billion, matching a 75% share of the total municipal contribution. This share is expressed as the principal cost of the subway line in this background study. Details on the BTE share can be found in subsection 8.4 of Chapter 8.

A summary of rates per Single Detached Unit (SDU) for the Council approved, uniform Region-wide rate structure, and ASDC approaches reviewed is presented in Table 1 below.

SC	ENARIO	RATE	REGION- WIDE	BRT SERVICED	NON-BRT	MTSAS
1.	Uniform	\$/SDU	\$5,837			
		% of Uniform	100%			
2.	BRT Serviced	\$/SDU		\$6,972	\$1012	
		% of Uniform		19%	-83%	
3.	MTSA	\$/SDU	\$5,439			\$11,274
		% of Uniform	-7%			186%

Table 1Summary of Residential Rates

Table 2 below includes the calculated non-residential rates for each scenario.



SC	ENARIO	RATE	REGION-WIDE	BRT SERVICED	NON-BRT	MTSAS
1.	Uniform	Retail	\$5.92			
		101*	\$1.96			
		Hotel	\$1.04			
2.	BRT Serviced	Retail		\$5.83	\$0.85	
		101*		\$1.67	\$0.24	
		Hotel		\$1.03	\$0.15	
3.	MTSA	Retail	\$5.52			\$11.44
		101*	\$1.58			\$3.28
		Hotel	\$0.97			\$2.02

Table 2 Summary of Non-Residential Rates

* Industrial/Office/Institutional

a) Development Forecast

The Council endorsed uniform region-wide rate structure as well as the other area-specific options are based on the development forecast for the Region aligned with the forecast used for other services. Details on the development forecast can be found in Chapter 2. Area-specific forecasts are detailed in the individual option sections below.

1. UNIFORM REGION-WIDE APPROACH

A uniform region-wide approach for collecting DCs with respect to costs associated with the YNSE is in-line with past practices for high order transit, namely TYSSE, and other DC eligible services. This approach is also supported by an overall approach to transportation planning as a network including all travel modes. Robust data is available to support this approach including transportation mode shares. The benefits of using a Region-wide approach is that it recognizes the Region-wide benefit of the works such as lower road congestion, reduced emissions, and resulting health benefits. It's also of note that it is the most common approach for recovering transit DC capital costs among Ontario municipalities. With this approach, the YNSE-related rate for a single-family detached home would be \$5,837.

Further details on the calculation of the Region-wide approach can be found in Chapter 8.



2. MUNICIPALITIES CURRENTLY SERVICED BY RAPID TRANSIT

This option takes into consideration the relationship between existing rapid transit network and the future YNSE. Five municipalities have a BRT (VIVA) line through them: Aurora, Newmarket, Markham, Richmond Hill and Vaughan.

The residential share of growth to occur within the municipalities serviced by rapid transit over the 2022 to 2041 period is 80% with the remainder to occur in municipalities without rapid transit. This is used to develop the area-specific population forecast for the 2022 to 2041 forecast period.

Table 3

Shares of Residential Growth in Municipalities with and without Rapid Transit

AREA	TOTAL AT 2021	TOTAL AT 2041	SHARE OF GROWTH
With Rapid Transit	1,063,164	1,445,011	80%
Without Rapid Transit	164,536	259,689	20%
Total	1,227,700	1,704,700	100%

Residential and non-residential growth within municipalities that are serviced by rapid transit and those not serviced is presented in Table 4 below.

Table 4Residential and Non-Residential Shares of Growth(2022-2041)

AREA	GROSS POPULATION	SHARE OF GROWTH	NON- RESIDENTIAL*	SHARE OF GROWTH	TOTAL (POP. & EMP.)				
With Rapid Transit	382,177	74%	133,542	26%	515,719				
Without Rapid Transit	91,400	78%	26,260	22%	117,660				
Total	476,277		159,802		633,379				

Notes:

1. Numbers may not sum due to rounding.

2. *Employment requiring new space.



The shares of cost attributed to municipalities with rapid transit is based on growth in trips generated in each municipality. The municipalities with rapid transit of Aurora, Newmarket, Markham, Richmond Hill and Vaughan make up 97% of the growth in trips over the 2021 to 2041 period with the remaining 3% in Georgina, East Gwillimbury, King and Whitchurch-Stouffville.

Of the total DC-eligible cost of \$840.0 million, \$812.2 is attributed to growth within municipalities with rapid transit and the remaining \$27.8 million to municipalities without rapid transit based on the growth in trips noted above. Of the share attributed to development in municipalities with rapid transit, the costs are split \$601.5 million residential and \$210.7 million non-residential development in municipalities without rapid transit total \$21.7 million and \$6.0 million is attributed to non-residential development also based on the shares in Table 4.

The anticipated ASDC for YNSE-related costs for municipalities with rapid transit would be \$1,830 per capita or \$6,972 per single detached home. The remaining four municipalities of Georgina, East Gwillimbury, King and Whitchurch-Stouffville would have a charge of \$266 per capita or \$1,012 per single detached home.

When comparing Option 2 to the uniform region-wide rate, the five rapid transit serviced municipalities would have an 19% higher rate, or \$1,136 per SDU, while the development in the other four municipalities would be subject to a substantially lower rate, by 83% or \$4,824 per SDU. The lower YNSE DC rates in municipalities not serviced by rapid transit, under Option 2, are not reflective of the direct and indirect benefits that development in these areas will receive from the subway extension.

Generally, the non-residential rate for this option is closely aligned as under Option 1. Details on non-residential allocation methodology can be found in Chapter 6. Calculated non-residential rates for this option are as follows:

Summary of Non-Residential Rates (Rapid Transit Serviced and Not Serviced							
RATE		BRT SERVICED	NON-BRT				
Retail (excl. Hotel)		\$5.83	\$0.85				
Industrial/Office/Ins	stitutional	\$1.67	\$0.24				
Hotel		\$1.03	\$0.15				

Та	ble	5
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3. OPTION 3 - BASE RATE WITH MTSA "SURCHARGE"

The last option considered is a blended approach of both a Region-wide charge and an additional ASDC in the five MTSAs located along the YNSE Richmond Hill Centre, Langstaff-Longbridge, Royal Orchard MTSA, Clark Avenue and Steeles.

i. Development Forecast

Residential share of development costs in the MTSA is based on the Region-wide scenario of 75% residential and 5.39% Retail (excluding Hotel), 19.61% IOI (Industrial, Office and Institutional) and 0.12% Hotel.

ii. Shares of Population in MTSAs

Based on the development forecast data, it is estimated that 6.8% of the Region-wide gross population growth over the YNSE DC planning horizon, 2022-2041, will be within the MTSAs identified above. The option is premised upon the higher projected draw on service and benefits enjoyed by development in the MTSA and therefore, arguably, should pay a higher share of the development-related costs of the YNSE.

For the purpose of this analysis the following assumption has been applied: development in the MTSA zones will be allocated an incremental benefit based on the share of population growth of 6.8% to occur in the MTSA zones. The residential share of the YNSE development-related costs is approximately \$630.0 million and under this option \$586.2 million (93%) is recovered on a region-wide uniform basis (including development in the MTSA zones) and the remaining \$42.8 million (7%) is recovered as an incremental ASDC on development in the MTSAs.

In addition to the shares of population growth in the MTSAs, ridership data suggests that trip origins in the MTSAs are approximately two times higher than the region-wide ridership. By 2041, the MTSA average trips per capita increase to 0.0777 while the Region-wide average increases to 0.0402. It is therefore appropriate that the MTSA total charge is approximately double that which is applied region-wide.

iii. Shares of Employment in MTSA Approach

Of the total DC-eligible YNSE cost, \$211.0 million is related to non-residential development in the Region which is further broken down with \$73.6 million is related to Retail (excluding Hotel), \$136.0 million related to IOI, and \$1.4 million related to Hotel.



Region-wide non-residential development shares for YNSE were used for the purposes of determining MTSA rates. The share of non-residential growth forecasted to occur within the MTSAs is 6.8%. The costs are allocated based on trip generated by each sector which forms the basis of the cost attributed to non-residential development \$5.0 million – Retail (excluding Hotel), \$9.2 million – IOI, and \$93,100 – Hotel) and region-wide (\$68.6 million - Retail (excluding Hotel), \$126.78 million – IOI, and \$1.3 million – Hotel).

The table below summarizes the non-residential rates under Option 3.

Summary of Non-Residential Rates (MTSA and Region-Wide)						
RATE	REGION-WIDE	MTSAS				
Retail (excl. Hotel)	\$5.52	\$11.44				
Industrial/Office/Institutional	\$1.58	\$3.28				
Hotel	\$0.97	\$2.02				

Table 6

iv. Uplift in Land Value Analysis

In 2020, York Region retained Conference Board of Canada to examine the economic impact of the Yonge North Subway Extension. Included in this work is an analysis of potential land value uplift in areas proximate to the subway. The surcharge detailed above for the MTSA development is equivalent to capturing 5% of the uplift in land value.

This illustrates that the population approach in the section above does not result in the calculated MTSA ASDCs creating a significant financial impact on development as the approach captures just 5% of the land value uplift.

v. Comparison with Region-Wide Rates

Based on the approach described above, a base YNSE DC of \$5,443 per SDU would apply. This base DC rate would be applied against all development in the region, including in the MTSAs. The incremental benefit to the MTSAs of is valued at \$42.8 million which results in an YNSE ASDC rate of \$5,841 per SDU. For greater clarity, development in the YNSE MTSAs would be subject to a total YNSE DC of \$11,284 per SDU, made up of the \$5,443 region-wide charge plus the \$5,841 ASDC.

Under Option 3, the development in the five MTSAs would have experience significantly higher, approximately \$5,438 per SDU or 186%, YNSE DC rates while the development in the other four municipalities would be subject to a lower, \$397 per SDU or 7%, YNSE DC rates when compared to the calculated uniform region-wide YNSE DC rates noted in Table 1.



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Appendix C: Draft 2022 Development Charges Bylaw

THE REGIONAL MUNICIPALITY OF YORK

BYLAW NO. 2022-

A bylaw to impose development charges against lands to pay for increased capital costs required because of increased needs for services arising from development within The Regional Municipality of York.

WHEREAS Section 2 of the *Development Charges Act*, S.O. 1997, ch. 27 (the "Act") authorizes the Council of the Regional Corporation to enact a bylaw to impose development charges against land to pay for increased capital costs required because of increased needs for services arising from development;

AND WHEREAS a background study dated March 3, 2022 required by Section 10 of the Act was presented to Regional Council along with a draft of this bylaw as then proposed on March 3, 2022 and was completed within a one-year period prior to the enactment of this bylaw;

AND WHEREAS Regional Council directed that the background study and draft proposed bylaw be made available to the public and such documents were made available to the public 60 days prior to the passage of the bylaw and at least two weeks prior to the public meeting required pursuant to Section 12 of the Act;

AND WHEREAS the development charge background study includes an asset management plan that deals with all assets whose capital costs are intended to be funded under the development charges bylaw and that such assets are considered to be financially sustainable over their full life-cycle pursuant to Subsection 10(3) of the Act;

AND WHEREAS notice of the public meeting was provided in accordance with the requirements of Section 12 of the Act and in accordance with the Regulations under the Act, and such public meeting was held on ****, 2022;

AND WHEREAS any person who attended the public meeting was afforded an opportunity to make representations and the public generally were afforded an opportunity to make written submissions relating to the proposed bylaw;

AND WHEREAS Regional Council resolved on ****, 2022 that it is the intention of Regional Council to ensure that the increase in need for services identified in connection with the enactment of the bylaw will be met;

AND WHEREAS Regional Council resolved on ****, 2022 that no further public meeting be required and that this bylaw be brought forward for enactment;

NOW THEREFORE, the Council of The Regional Municipality of York hereby enacts as follows:

DEFINITIONS

1.0 In this bylaw,

"accessory use" means that the building or structure is naturally and normally incidental to or subordinate in purpose or both, and exclusively devoted to a principal use, building or structure;

"Act" means the Development Charges Act, 1997, S.O. 1997, c. 27;

"agricultural use" means lands, buildings or structures, excluding any portion thereof used as a dwelling unit, used or designed or intended for use for the purpose of a *bona fide* farming operation including, but not limited to, animal husbandry, dairying, livestock, fallow, field crops, removal of sod, forestry, fruit farming, horticulture, market gardening, pasturage, poultry keeping, equestrian facilities and any other activities customarily carried on in the field of agriculture;

"apartment building" means a residential building or the residential portion of a mixed-use building, other than a townhouse, consisting of more than 3 dwelling units, which dwelling units have a common entrance to grade;

"area municipality" means a city, town or township in the Region;

"banquet hall" means a building or part of a building used primarily for the purpose of catering to banquets, weddings, receptions or similar social functions for which food and beverages are served;

"building permit" means a permit issued under the *Building Code Act, 1992,* which permits the construction of a building or structure or, which permits the construction of the foundation of a building or structure;

"community use" means a facility traditionally provided by a municipality which serves a municipal purpose and shall include a community centre, library/research facility, recreation facility and a shelter;

"convention centre" means a building with a gross floor area greater than 40,000 square feet which is designed and used primarily to accommodate the following:

- (i) the assembly of large gatherings of persons for trade, business or educational purposes, or any combination thereof;
- (ii) the display of products or services;
- (iii) accessory uses may include administrative offices, display areas, show-rooms, training facilities and banquet facilities, but does not include a banquet hall;

"development" includes redevelopment;

"development charges" means charges imposed pursuant to this bylaw adjusted in accordance with Section 5;

"duplex" means a building comprising, by horizontal division, two dwelling units, each of which has a separate entrance to grade;

"dwelling unit" means a room or suite of rooms used, or designed or intended for use by one person or persons living together, in which culinary and sanitary facilities are provided for the exclusive use of such person or persons;

"funeral home" means a building with facilities for the preparation of dead persons for burial or cremation, for the viewing of the body and for funeral services;

"future development" means a block identified within a plan of subdivision which requires a subsequent planning approval, in addition to a building permit, which planning approval shall include a site plan approval or the approval of a plan of condominium;

"general services" means services in regard to transit, Toronto-York subway extension, Yonge North subway extension, police, ambulance services, public health, long-term care/seniors services, public works, growth studies, housing services, court services and waste diversion;

"gross floor area" means, in the case of a non-residential building or structure or the non-residential portion of a mixed-use building or structure, the aggregate of the areas of each floor, whether above or below grade, measured between the exterior faces of the exterior walls of the building or structure or from the centre line of a common wall separating a non-residential and a residential use, excluding, in the case of a building or structure containing an atrium, the sum of the areas of the atrium at the level of each floor surrounding the atrium above the floor level of the atrium, and excluding the sum of the areas of each floor used, or designed or intended for use for the parking of motor vehicles unless the building or structure, or any part thereof, is a retail motor vehicle establishment or a standalone motor vehicle storage facility or a commercial public parking structure, and, for the purposes of this definition, notwithstanding any other section of this bylaw, the nonresidential portion of a mixed-use building is deemed to include one-half of any area common to the residential and non-residential portions of such mixed-use building or structure, and gross floor area shall not include the surface area of swimming pools or the playing surfaces of indoor sport fields including but not limited to hockey arenas, and basketball courts;

"group home" means a residential building or the residential portion of a mixeduse building containing a single housekeeping unit supervised on a 24 hour a day basis on site by agency staff on a shift rotation basis, funded wholly or in part by any government and licensed, approved or supervised by the Province of Ontario under any general or special act, for the accommodation of not less than 3 and not more than 8 residents, exclusive of staff; "hard services" means water services, wastewater services and road services;

"heritage property" means a building or structure which, in the opinion of the local architectural conservation advisory committee is of historic or architectural value or interest, or which has been so designated under the Ontario Heritage Act;

"hotel" means a commercial establishment offering lodging to travelers which shall be assessed at a per square foot/per square metre charge and may include, without limitation, other uses such as restaurants, meeting rooms and stores, that are available to guests and/or to the general public. If the combined gross floor area of other such uses are greater than thirty three percent of the combined gross floor area of the lodging quarters, each non-lodging use in the structure will be assessed at the rate applicable to such other uses;

"high rise residential" means an apartment building that is 4 or more storeys above grade, consisting of four or more dwelling units and shall not include a townhouse or a stacked townhouse, the latter of which is less than four dwelling units and four storeys above-grade;

"industrial" means lands, buildings or structures used or designed or intended for use for manufacturing, processing, fabricating or assembly of raw goods, warehousing or bulk storage of goods, and includes office uses and the sale of commodities to the general public where such uses are accessory to an industrial use, but does not include the sale of commodities to the general public through a warehouse club;

"institutional" means lands, buildings or structures used or designed or intended for use by an organized body, society or religious group for promoting a public or non-profit purpose and shall include, but without limiting the generality of the foregoing, places of worship, medical clinics and special care facilities;

"industrial/office/institutional" means lands, buildings or structures used or designed or intended for use for any of an industrial use, office use or institutional use and shall include a convention centre and any other non-residential use which is not a retail use;

"large apartment" means a dwelling unit in an apartment building, plex or stacked townhouse that is 700 square feet or larger in size;

"live-work unit" means a unit intended for both residential and non-residential uses concurrently;

"local board" means a local board as defined in the Act;

"mixed-use" means land, buildings or structures used, or designed or intended for use, for a combination of non-residential and residential uses;

"mobile home" means any dwelling that is designed to be made mobile, and constructed or manufactured to provide a permanent residence for one or more persons, but does not include a travel trailer or tent trailer;

"multiple unit dwellings" includes townhouses, back-to-back townhouses, mobile homes, group homes and all other residential uses that are not included in the definition of "apartment building", "small apartment", "large apartment", "single detached dwelling" or "semi-detached dwelling";

"non-profit" means a corporation without share capital that has objects of a charitable nature;

"non-residential use" means lands, buildings or structures or portions thereof used, or designed or intended for use for other than residential use;

"office" means lands, buildings or structures used or designed or intended for use for the practice of a profession, the carrying on of a business or occupation or the conduct of a non-profit organization and shall include but not be limited to the office of a physician, lawyer, dentist, architect, engineer, accountant, real estate or insurance agency, veterinarian, surveyor, appraiser, financial institution, contractor, builder, land developer;

"place of worship" means a building or structure that is used primarily for worship;

"*plex*" means a duplex, a semi-detached duplex, a triplex or a semi-detached triplex;

"*private school*" means an educational institution operated on a non-profit basis, excluding any dormitory or residence accessory to such private school, that is used primarily for the instruction of students in courses of study approved or authorized by the Minister of Education and Training;

"Region" means The Regional Municipality of York;

"Regional Council" means the Council of The Regional Municipality of York;

"*region-wide charges*" means the development charges imposed with respect to the following services:

- (i) roads;
- (ii) transit;
- (iii) Toronto-York subway extension;
- (iv) Yonge North subway extension;
- (v) police;
- (vi) ambulanceservices;
- (vii) public health;
- (viii) long-term care/seniors services;
- (ix) public works;
- (x) growth studies;
- (xi) housing services;
- (xii) court services; and
- (xiii) waste diversion.

"Regulation" means O. Reg. 82/98 under the Act;

"residential use" means lands, buildings or structures used, or designed or intended for use as a residence for one or more individuals, and shall include, but is not limited to, a single detached dwelling, a semi-detached dwelling, a townhouse, a stacked townhouse, a plex, an apartment building, a group home, a mobile home and a residential dwelling unit accessory to a non-residential use but shall not include a lodging house licensed by a municipality;

"residential in-fill use" means ground related residential use, such as a single detached-dwelling, semi-detached dwelling, townhouse or stacked townhouse, comprising three lots or less;

"retail" means lands, buildings or structures used or designed or intended for use for the sale or rental or offer for sale or rental of goods or services to the general public for consumption or use and shall include, but not be limited to, a banquet hall, a funeral home, but shall exclude office;

"retail motor vehicle establishment" means a building or structure used or designed or intended to be used for the sale, rental or servicing of motor vehicles, or any other function associated with the sale, rental or servicing of motor vehicles including but not limited to detailing, leasing and brokerage of motor vehicles, and short or long-term storage of customer motor vehicles. For a retail motor vehicle establishment, gross floor area includes the sum of the areas of each floor used or designed or intended for use for the parking or storage of motor vehicles, including customer and employee motor vehicles. An exemption may be granted to exclude the sum of the areas for customer and employee motor vehicles on terms and conditions to the satisfaction of the Region; **"self storage building"** means a building or part of a building consisting of individual storage units, which are accessible by the users, that are used to provide storage space to the public;

"semi-detached duplex" means one of a pair of attached duplexes, each duplex divided vertically from the other by a party wall;

"semi-detached dwelling" means a building divided vertically into and comprising 2 dwelling units;

"semi-detached triplex" means one of a pair of triplexes divided vertically one from the other by a party wall;

"serviced" for the purposes of section 3 means the particular service is connected to or available to be connected to the lands, buildings or structures, or, as a result of the development, will be connected to or will be available to be connected to the lands, buildings or structures;

"services" means services designated in section 2.1 of this bylaw;

"shelter" means a building in which supervised short-term emergency shelter and associated support services are provided to individuals who are fleeing situations of physical, financial, emotional or psychological abuse;

"single detached dwelling" and "single detached" means a residential building consisting of one dwelling unit that is not attached to another structure above grade. For greater certainty, a residential building consisting of one dwelling unit that is attached to another structure by footings only shall be considered a single family dwelling for purposes of this bylaw;

"small apartment" means a dwelling unit in an apartment building, a plex or a stacked townhouse that is less than 700 square feet in size;

"special care facilities" means lands, buildings or structures used or designed or intended for use for the purpose of providing residential accommodation, supervision, nursing care or medical treatment, which do not comprise dwelling units, that are licensed, approved or supervised under any special or general Act;

"stacked townhouse" means a building, other than a plex, townhouse or apartment building, containing at least 3 dwelling units, each dwelling unit being separated from the other vertically and/or horizontally and each dwelling unit having an entrance to grade shared with no more than 3 other units; "standalone motor vehicle storage facility" means a building or structure used or designed or intended for use for the storage or warehousing of motor vehicles that is separate from a retail motor vehicle establishment. For a standalone motor vehicle storage facility, gross floor area includes the sum of the areas of each floor used or designed or intended for use for the parking or storage of motor vehicles, including customer and employee motor vehicles. An exemption may be granted to exclude the sum of the areas for customer and employee motor vehicles on terms and conditions to the satisfaction of the Region;

"townhouse" means a building, other than a plex, stacked townhouse or apartment building, containing at least 3 dwelling units, each dwelling unit separated vertically from the other by a party wall and each dwelling unit having a separate entrance to grade;

"triplex" means a building comprising 3 dwelling units, each of which has a separate entrance to grade;

"uniform charges" means the development charges imposed with respect to the following services:

- (i) water; and
- (ii) wastewater.

"university" has the same meaning as defined in Section 171.1 of the *Education Act*,

2.0 DESIGNATION OF SERVICES

- **2.1** The categories of services for which development charges are imposed under this bylaw are as follows:
 - (a) water;
 - (b) wastewater;
 - (c) roads;
 - (d) transit;
 - (e) Toronto-York subway extension;
 - (f) Yonge North subway extension
 - (g) police;
 - (h) ambulance services;
 - (i) public health;
 - (j) long-term care/seniors services;
 - (k) public works;
 - (I) growth studies;
 - (m) housing services;
 - (n) court services; and
 - (o) waste diversion.
- **2.2** The components of the services designated in subsection 2.1 are described on Schedule A.

3.0 APPLICATION OF BYLAW RULES

- **3.1** Development charges shall be payable in the amounts set out in subsections 3.6, 3.9, 3.10 and 3.11 of this bylaw where:
 - (a) the lands are located in the area described in subsection 3.2; and
 - (b) the development of the lands requires any of the approvals set out in subsection 3.4(a).
- **3.1.1** Development charges shall be calculated in accordance with this bylaw, the background study and all policies contained within the background study dated March 3, 2022, save and except for the development charge credit policy described in section 13.3 of the background study.

Area to Which bylaw Applies

3.2 Subject to subsection 3.3, this bylaw applies to all lands in the geographic area of the Region.

- **3.3** This bylaw shall not apply to lands that are owned by and used for the purposes of:
 - (a) the Region or a local board thereof;
 - (b) a board as defined in section 1(1) of the *EducationAct*;
 - (c) an area municipality or a local board thereof.

Approvals for Development

- **3.4** (a) Development charges shall be imposed on all lands, buildings or structures that are developed for residential or non-residential uses if the development requires,
 - (i) the passing of a zoning bylaw or of an amendment to a zoning bylaw under section 34 of the *Planning Act* or any successor thereto;
 - (ii) the approval of a minor variance under section 45 of the *Planning Act* or any successor thereto;
 - (iii) a conveyance of land to which a bylaw passed under subsection 50(7) of the *Planning Act* or any successor thereto applies;
 - (iv) the approval of a plan of subdivision under section 51 of the *Planning Act* or any successor thereto;
 - (v) a consent under section 53 of the *Planning Act* or any successor thereto;
 - (vi) the approval of a description under the *Condominium Act*, *1998*, or any successor thereto; or
 - (vii) the issuing of a permit under the *Building Code Act*, *1992*, or any successor thereto, in relation to a building or structure.
 - (b) No more than one development charge for each service designated in subsection 2.1 shall be imposed upon any lands, buildings or structures to which this bylaw applies even though two or more of the actions described in subsection 3.4(a) are required before the lands, buildings or structures can be developed.

- (c) Despite subsection 3.4(b) and despite any other section of this bylaw, if two or more of the actions described in subsection 3.4(a) occur at different times, additional development charges shall be imposed if the subsequent action has the effect of increasing the need for services.
- (d) Subsection 3.4(a) shall not apply in respect of an action mentioned in subsection 3.4 (a) (i) to (vii), if the only effect of the action is to:
 - (i) permit the enlargement of an existing dwelling unit; or
 - permit the creation of additional dwelling units as prescribed, subject to the prescribed restrictions, in prescribed classes of existing residential buildings or prescribed structures ancillary to existing residential buildings.
- (e) The creation of a second dwelling unit in prescribed classes of proposed new residential buildings, including structures ancillary to dwellings, is, subject to the prescribed restrictions, exempt from development charges.
- (f) For greater clarity, prescribed under sections 3.4(d) and 3.4 (e) of this bylaw shall be the same as is prescribed in the Regulation.

Exemptions

- **3.5.1** Notwithstanding the provisions of this bylaw, but subject to subsection 3.5.2, development charges shall not be imposed or may be deferred, on terms and conditions, satisfactory to the Region, with respect to:
 - (a) the relocation of a heritage house;
 - (b) a building or structure used for a community use owned by a non-profit corporation;
 - (c) land owned by and used for the purposes of a private school that is exempt from taxation under the *Assessment Act* or any successor thereto;
 - (d) lands, buildings or structures used or to be used for the purposes of a cemetery or burial ground exempt from taxation under the *Assessment Act* or any successor thereto;
 - (e) non-residential uses permitted pursuant to section 39 of the *Planning Act* or any successor thereto;
 - (f) agricultural uses;

- (g) development creating or adding an accessory use or structure not exceeding 100 square metres of gross floor area save and except for any live work units with a retail component; for such units development charges will be payable pursuant to subsection 3.10 on the retail component;
- (h) a public hospital receiving aid under the *Public Hospitals Act* or any successor thereto;
- lands vested in or leased to a university that receives regular and ongoing operating funds from the government for the purposes of post-secondary education, if the development in respect of which the development charges would otherwise be payable is intended to be occupied and used by the university.
- **3.5.2** The provisions of subsection 3.5.1 shall only apply to exempt or defer, as the case may be, a development described in paragraph (a), (b) or (c) thereof from the payment of development charges if the area municipality in which the development is to be located exempts or defers development charges, as the case may be, with respect to the development in question.

Amount of Charge Residential

- **3.6** The development charges described in Schedule B to this bylaw shall be imposed on residential uses of lands, buildings or structures, including a dwelling unit accessory to a non-residential use and, in the case of a mixed-use building or structure, on the residential uses in the mixed-use building or structure, according to the type of residential unit, and calculated as follows:
 - (a) Region-wide Charges
 - (i) a development charge with respect to each of the general services according to the type of residential use;
 - (ii) a development charge with respect to road services according to the type of residentialuse;
 - (b) <u>Uniform Charges</u>
 - where the lands, buildings or structures are serviced by regional water services, the development charge with respect to water services according to the type of residential use;
 - (ii) where the lands, buildings or structures are serviced by regional wastewater services, the development charge with respect to wastewater services according to the type of residential use;

- (c) For determining development charges under this bylaw, any residential dwelling that is less than 700 square feet of total gross floor area shall be deemed a small apartment and pay the corresponding development charge set out in Schedule B.
- **3.7** Despite subsection 3.6(b),
 - (a) a development charge with respect to regional water services shall not be imposed against the lands shown on Schedule C;
 - (b) a development charge with respect to regional wastewater services shall not be imposed against the lands shown on Schedule D;
 - (c) A development charge with respect to regional wastewater services shall not be imposed against the lands shown on Schedule E.

Contingent Development Charges

3.8 Thirty days after the happening of an event described in Column 3 of Schedule G, the residential development charge under subsection 3.6 which corresponds to the service described in Column 2 of Schedule G shall be increased by the amounts shown in Columns 4, 5, 6 and 7 of Schedule G according to the type of residential unit.

Non-Residential

Industrial/Office/Institutional Uses

- **3.9** The development charges described in Schedule F to this bylaw shall be imposed on industrial/office/institutional uses of lands, buildings or structures, and, in the case of a mixed-use building or structure, on the industrial/office/institutional uses in the mixed-use building or structure, and calculated as follows:
 - (a) <u>Region-wideCharges</u>
 - (i) a development charge with respect to each of the general services according to the gross floor area of the industrial/office/institutional use;
 - (ii) a development charge with respect to road services according to the gross floor area of the industrial/office/institutional use;
 - (b) Uniform Charges
 - where the lands, buildings or structures are serviced by regional water services, the development charge with respect to water services according to the gross floor area of the industrial/office/institutionaluse;
 - (ii) where the lands, buildings or structures are serviced by regional wastewater services, the development charge with respect to wastewater services according to the gross floor area of the industrial/office/institutionaluse.
- 3.9.1 Despite subsection 3.9(b)(ii), a development charge with respect to regional wastewater services shall not be imposed against the lands shown on Schedule E.

Retail Uses

- **3.10** The development charges described in Schedule F to this bylaw shall be imposed on retail uses of lands, buildings or structures, and, in the case of a mixed-use building or structure, on the retail uses in the mixed-use building or structure, and calculated as follows:
 - (a) <u>Region-wideCharges</u>
 - (i) a development charge with respect to each of the general services according to the gross floor area of the retail use;

- (ii) a development charge with respect to road services according to the gross floor area of the retailuse;
- (b) <u>Uniform Charges</u>
 - where the lands, buildings or structures are serviced by regional water services, the development charge with respect to water services according to the gross floor area of the retail use;
 - (ii) where the lands, buildings or structures are serviced by wastewater services, the development charge with respect to wastewater services according to the gross floor area of the retail use.
- 3.10.1 Despite subsection 3.10(b)(ii) a development charge with respect to regional wastewater services shall not be imposed against the lands shown on Schedule E.

Hotel Uses

- **3.11** The development charges described in Schedule F to this bylaw shall be imposed on hotel uses of lands, buildings or structures and calculated as follows:
 - (a) <u>Region-wideCharges</u>
 - (i) a development charge with respect to each of the general services according to the gross floor area of the hotel use;
 - (ii) a development charge with respect to road services according to the gross floor area of the hotel use;
 - (b) Uniform Charges
 - (i) where the lands, buildings or structures are serviced by regional water services, the development charge with respect to water services according to the gross floor area of the hotel use;
 - (ii) where the lands, buildings or structures are serviced by wastewater services, the development charge with respect to wastewater services according to the gross floor area of the hotel use.
- **3.11.1** Despite subsection 3.11(b)(ii) a development charge with respect to regional wastewater services shall not be imposed against the lands shown on Schedule E.

Multiple Industrial/Office/Institutional and Retail Uses

- **3.12** In the case of lands, buildings or structures used or designed or intended for use for both industrial/office/institutional uses and retail uses, the development charges otherwise applicable to such development under both subsections 3.9 and 3.10 shall be determined on the following basis:
 - (a) as between the industrial/office/institutional uses and the retail uses, the principal use of the development shall be that use which has the greater gross floor area, such principal use being the use of 55% or greater of the total gross floor area. If no single use has 55% or greater of the total gross floor area, then the development charge payable on the total gross floor area shall be the average of the two non-residential charges payable;
 - (b) the development charges under either subsection 3.9 or 3.10 applicable to such principal use as determined under paragraph (a), provided that there is a principal use determined under paragraph (a), shall be applied to the total non-residential gross floor area of the development;
 - (c) Notwithstanding this Section 3.12, if any building or structure designed or intended for use for both industrial/office/institutional uses and retail uses, and, where such building or structure contains multiple individually owned units, each unit's payable development charges will be assessed individually based on the predominant use of that unit.
 - (d) Subsections 3.12(a) and 3.12(b) do not apply to a retail motor vehicle establishment or a standalone motor vehicle storage facility. Where a retail motor vehicle establishment is one of multiple industrial/office/institutional uses and retail uses in a building or structure, the development charge payable shall be the retail charge. For a retail motor vehicle establishment, where the sum of the areas used, or designed or intended for use for the parking or storage of motor vehicles, excluding the sum of the areas for customer and employee motor vehicles, as determined by the Region, is more than two times greater than the remaining area, the retail rate shall be applied to two times the difference between the gross floor area of the area used for parking or storage, and any gross floor area above that shall be levied the industrial/office/institutional rate.

Contingent Development Charges

3.13 Thirty days after the happening of an event described in Column 3 of Schedule G, the non-residential development charge under subsections 3.9, 3.10 and 3.11 which corresponds to the service described in Column 2 of Schedule G shall be increased by the amounts shown in Columns 8, 9, and 10 of Schedule G according to the type of non-residential development.

Place of Worship

3.14 Despite subsection 3.9, development charges shall not be imposed in respect of the gross floor area of a place of worship to a maximum of 5,000 square feet (or 464.5 square metres) or in respect of that portion of the gross floor area of a place of worship which is used as an area for worship, whichever is greater.

Reduction of Development Charges Where Redevelopment

- **3.15** Where, as a result of the redevelopment of land, a building or structure existing on the land within 48 months prior to the date of payment of development charges in regard to such redevelopment was, or is to be demolished, in whole or in part, or converted from one principal use to another, in order to facilitate the redevelopment, the development charges otherwise payable with respect to such redevelopment shall be reduced by the following amounts:
 - (a) in the case of a residential building or structure, or in the case of a mixeduse building or structure, the residential uses in the mixed-use building or structure, an amount calculated by multiplying the applicable development charge under subsection 3.6 of this bylaw by the number, according to type, of dwelling units that have been or will be demolished or converted to another principal use; and
 - (b) in the case of a non-residential building or structure or, in the case of mixed-use building or structure, the non-residential uses in the mixed- use building or structure, an amount calculated by multiplying the applicable development charges under subsection 3.9, 3.10 3.11 or 3.12 of this bylaw by the gross floor area that has been or will be demolished or converted to another principal use. Development charges shall not be reduced under this subsection for a non-residential building or structure or, in the case of mixed-use building or structure, the non-residential uses in the mixed- use building or structure, being demolished or converted for which development charges were not imposed, or which was not subject to development charges after November 23, 1991;

provided that such amounts shall not exceed, in total, the amount of the development charges otherwise payable with respect to the redevelopment. The 48 month time frame shall be calculated from the date of the issuance of the demolition permit.

- **3.15.1** For the purposes of subsection 3.15, the onus is on the applicant to produce evidence to the satisfaction of the Region, acting reasonably, to establish the following:
 - (a) the number of dwelling units that have been or will be demolished or converted to another principal use; or
 - (b) the non-residential gross floor area that has been or will be demolished or converted to another principal use; and

- (c) in the case of a demolition, that the dwelling units and/or non-residential gross floor area were demolished within 48 months prior to the date of the payment of development charges in regard to the redevelopment.
- **3.15.2** Any building or structure, that is determined to be derelict or the equivalent of derelict prior to issuance of a demolition permit by the municipal council of the area municipality in which the building or structure is located, shall be eligible for development charge credits in accordance with section 3.15.3.
- **3.15.3** Any building or structure deemed derelict, or the equivalent of derelict in accordance with subsection 3.15.2 shall be eligible for development charge credits if a building permit is issued for a building or structure on the lands previously occupied by the deemed derelict building or structure within 120 months or less of the issuance of demolition permit for the deemed derelict building or structure. The development charge credit shall be calculated in accordance with the time requirements between demolition permit issuance and building permit issuance as set out in Schedule H. The amount of development charges payable for any development to which subsections 3.15.2 and 3.15.3 apply, shall be calculated in accordance with subsections 3.15 and 3.15.1.

Reduction of Development Charges Where Gross Floor Area is Increased

- **3.16** Despite any other provisions of this bylaw, if a development includes the expansion of the gross floor area of an industrial, office or institutional building, the amount of the development charge that is payable in respect of the expansion shall be calculated as follows:
 - (a) If the gross floor area is expanded by fifty percent of the original gross floor area of the existing development, or less, the amount of the development charge in respect of the expansion is zero;
 - (b) If the gross floor area is expanded by more than fifty percent of the original gross floor area of the existing development the amount of the development charge in respect of the expansion is the amount of the development charge that would otherwise be payable multiplied by the fraction determined as follows:
 - determine the area by which the expansion exceeds fifty percent of the original gross floor area of the existing development before any expansion; and
 - divide the amount under paragraph (b)(i) by the amount of the expansion of the original gross floor area of the existing development.

When amount of development charge is determined

3.17 Where clause (1)(a) or (1)(b) of Section 26.2 of the Act applies to a development for the purposes of determining the amount of the development charge, the development charge payable under this bylaw shall be determined in accordance with section 26.2 and such development charge shall be subject to interest in accordance with Region's Interest Policy, as may be amended by Regional Council.

Time of Payment of Development Charges

- **3.18** Development charges imposed under this section are payable on the date on which a building permit is issued with respect to each dwelling unit, building or structure.
- **3.18.1** If a use or development of land, buildings or structures does not require the issuance of a building permit but requires one or more of the actions listed in subsection 3.4(a)(i) to (vi) inclusive, a development charge shall be payable and shall be calculated and collected on the earliest of any of the actions listed in section 3.4(a)(i) to (vi) being required.
- **3.19** Despite subsection 3.18, development charges with respect to hard services imposed under subsection 3.6 with respect to an approval of a residential plan of subdivision under section 51 of the *Planning Act*, are payable immediately upon the owner entering into the Regional development charge agreement respecting such plan of subdivision, on the basis of the following, unless such a plan of subdivision includes blocks intended for future development, in which case development charges payable for such blocks shall be determined at building permit issuance:
 - (a) the proposed number and type of dwelling units in the final plan of subdivision; and
 - (b) with respect to blocks in the plan of subdivision intended for future development, development charges for such blocks shall be payable at building permit issuance.
- **3.20** For the purposes of paragraph (b) of subsection 3.19, where the use or uses to which a block in a plan of subdivision may be put pursuant to a zoning bylaw passed under section 34 of the *Planning Act*, are affected by the use of a holding symbol in the zoning bylaw as authorized by section 36 of the *Planning Act*, the development charges for such blocks shall be payable at building permitissuance.

- **3.21** For the purposes of subsections 3.19 and 3.20, and despite any other provision to this bylaw, where a subdivision agreement identifies the number and type of dwelling units proposed for the residential plan of subdivision, the number and type of dwelling units so identified shall be used to calculate the development charges payable under subsection 3.18.
- **3.22** Notwithstanding subsection 3.18 of this bylaw, where section 26.1 of the Act applies in respect of any part of a development, the development charges imposed under this bylaw, in respect that part of the development to which section 26.1 of the Act applies only, shall be payable in annual installments in accordance with the requirements of subsection 26.1(3) of the Act, and shall be subject to interest in accordance with Region's Interest Policy, as may be amended by Regional Council.
- **3.23** Despite subsections 3.19 and 3.20, Regional Council, from time to time, and at any time, may authorize agreements providing for all or any part of a development charge to be paid before or after it would otherwise be payable.
 - If, at the time of issuance of a building permit or permits in regard to a lot (a) or block on a plan of subdivision for which payments have been made pursuant to section 3.19, the type of dwelling unit for which building permits are being issued is different from that used for the calculation and payment under section 3.19, and there has been no change in the zoning affecting such lot or block, and the development charges for the type of dwelling unit for which building permits are being issued were greater at the time that payments were made pursuant to section 3.19 than for the type of dwelling unit used to calculate the payment under section 3.19, an additional payment to the Region is required, which payment, in regard to such different unit types, shall be the difference between the development charges in respect to the type of dwelling unit for which building permits are being issued, calculated as at the date of issuance of the building permit or permits, and the development charges previously collected in regard thereto, adjusted in accordance with section 5.1 of this bylaw.
 - (b) If, at the time of issuance of a building permit or permits in regard to a lot or block on a plan of subdivision for which payments have been made pursuant to section 3.19, the total number of dwelling units of a particular type for which building permits have been or are being issued is greater, on a cumulative basis, than that used for the calculation and payment under section 3.18, and there has been no change in the zoning affecting such lot or block, an additional payment to the Region is required, which payment shall be calculated on the basis of the number of additional dwelling units at the rate prevailing as at the date of issuance of the building permit or permits for such dwellingunits.

- (C) If, at the time of issuance of a building permit or permits in regard to a lot or block on a plan of subdivision for which payments have been made pursuant to section 3.19, the type of dwelling unit for which building permits are being issued is different than that used for the calculation and payment under section 3.19, and there has been no change in the zoning affecting such lot or block, and the development charges for the type of dwelling unit for which building permits are being issued were less at the time that payments were made pursuant to section 3.19 than for the type of dwelling unit used to calculate the payment under section 3.19, a refund in regard to such different unit types shall be paid by the Region, which refund shall be the difference between the development charges previously collected, adjusted in accordance with section 5.1 of this bylaw to the date of issuance of the building permit or permits, and the development charges in respect to the type of dwelling unit for which building permits are being issued, calculated as at the date of issuance of the building permit or permits.
- (d) If, at the time of issuance of a building permit or permits in regard to a lot or block on a plan of subdivision for which payments have been made pursuant to section 3.19, the total number of dwelling units of a particular type for which building permits have been or are being issued is less, on a cumulative basis, than that used for the calculation and payment under section 3.19, and there has been no change in the zoning affecting such lot or block, a refund shall be paid by the Region, which refund shall be calculated on the basis of the number of fewer dwelling units at the rate prevailing as at the date of issuance of the building permit orpermits.
- **3.24** Despite subsections 3.23(c) and (d), a refund shall not exceed the amount of the development charges paid under subsection 3.19

4.0 PAYMENT BY SERVICES

4.1 Despite the payments required under subsections 3.18 and 3.19, Regional Council may, by agreement, and in accordance with approved policies, give a credit towards a development charge in exchange for work that relates to a service for which a development charge is imposed under this bylaw.

5.0 INDEXING

5.1 Development charges pursuant to this bylaw shall be adjusted annually, without amendment to this bylaw, commencing on July 1st 2023 and each anniversary of that date thereafter, in accordance with the Statistics Canada Quarterly Construction Price Statistics.

6.0 SCHEDULES

6.1 The following schedules to this bylaw form an integral part thereof:

Schedule A -	Components of Services Designated in subsection 2.1
Schedule B -	Residential Development Charges
Schedule C -	Lands Exempt from Residential Development Charge in Regard to Regional Water Supply Service
Schedule D -	Lands Exempt from Residential Development Charge in Regard to Regional Wastewater Services (Kleinburg Community)
Schedule E -	Lands exempt from Residential and Non-Residential Development Charges in regard to Regional Wastewater Services (Village of Nobleton)
Schedule F -	Non-Residential Development Charges
Schedule G -	Contingent Residential and Non-Residential Development Charges
Schedule H -	Calculation of Development Charge Credits provided to Derelict

7.0 DATE BYLAW IN FORCE

7.1 This bylaw shall come into force on the 17th day of June,2022.

8.0 DATE BYLAW EXPIRES

8.1 This bylaw will expire on the 16th day of June, 2027, unless it is repealed at an earlier date.

9.0 REPEAL

9.1 Bylaw No. 2017-35, as amended is hereby repealed as of the 17th day of June, 2022.

ENACTED AND PASSED this ** day of **, 2022

Christopher Raynor

Wayne Emmerson

Regional Clerk

Regional Chair

Authorized by Clause *, Report * of the Committee of the Whole, adopted by Regional Council at its meeting on May **, 2022.

SCHEDULE "A" COMPONENTS OF DESIGNATED SERVICES

Services	Service Components
Water	Water Supply
	Water Pumping
	Water Storage
	Water Linear
	Water Cost Shared Works
	Planning and Studies
Wastewater	Wastewater Treatment
	Wastewater Pumping
	Wastewater Linear
	Wastewater Cost Shared Works
	Planning and Studies
Roads	Growth Structures (Grade Separations)
	New Interchanges
	Midblock Crossings
	Growth New Infrastructure (Missing Links)
	Growth Widen to 4 lands
	Growth Widen to 6 lands
	Road Improvements to Support Transit
	Reconstruction
	Environmental Assessment, Design, Survey, and Property Acquisition for Future Capital Projects
	Intersection and Miscellaneous Capital
	Transportation Demand Management
	Active Transportation Programs and Initiatives
	Growth Planning

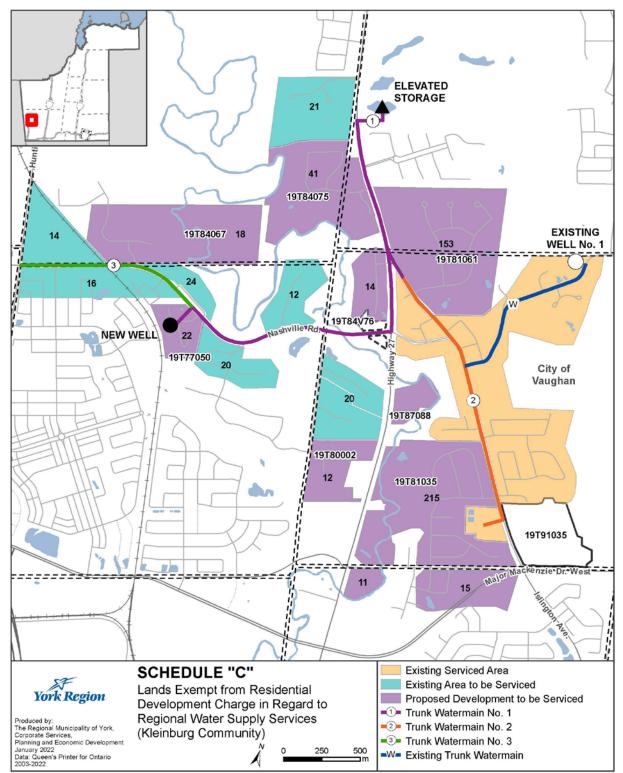
Transit	Facilities
	Vehicles
	Technology
	Bus Rapid Transit Infrastructure
Toronto-York Spadina Subway Extension	Toronto-York Spadina Subway Extension
Yonge North Subway Extension	Yonge North Subway Extension
Police	Facilities
	• Land
	Vehicles
	Equipment
Ambulance Services	Facilities
	• Land
	Vehicles
Public Health	Provision for public health facilities
	Provision for public health vehicles
Waste Diversion	Facilities
	Growth Studies
Public Works	Facilities
	Vehicles
Housing Services	Facilities
Court Services	Facilities
Growth Studies	Growth-related studies
Long-Term Care/Seniors Services	Facilities

Schedule "B" Residential Development Charges (\$ per unit)

June 17 2	2022 to June 1	6 2027		
Service	Single and Semi- detached Dwelling	Multiple Unit Dwelling	Large Apartment (>=700 sqft)	Small Apartment (<700 sqft)
Hard Services				
Water	9,041	7,522	5,838	3,797
Wastewater	21,065	17,527	13,601	8,846
Roads	25,748	21,423	16,625	10,813
Subtotal Hard Services	55,855	46,472	36,064	23,456
General Services				
Transit	7,628	6,346	4,925	3,203
Toronto-York Spadina Subway Extension	3,536	2,942	2,283	1,485
Yonge North Subway Extension	5,837	4,856	3,769	2,451
Public Works	587	488	379	246
Waste Diversion	366	304	236	154
Police	1,082	900	699	454
Housing Services	1,589	1,322	1,026	667
Public Health	389	323	251	163
Ambulance Services	766	637	494	322
Growth Studies	175	146		74
Long Term Care/Seniors Services	0	0	0	0
Court Services	65	54	42	27
Subtotal General Services	22,018	18,319	14,216	9,246
Total	77,873	64,792	50,280	32,702

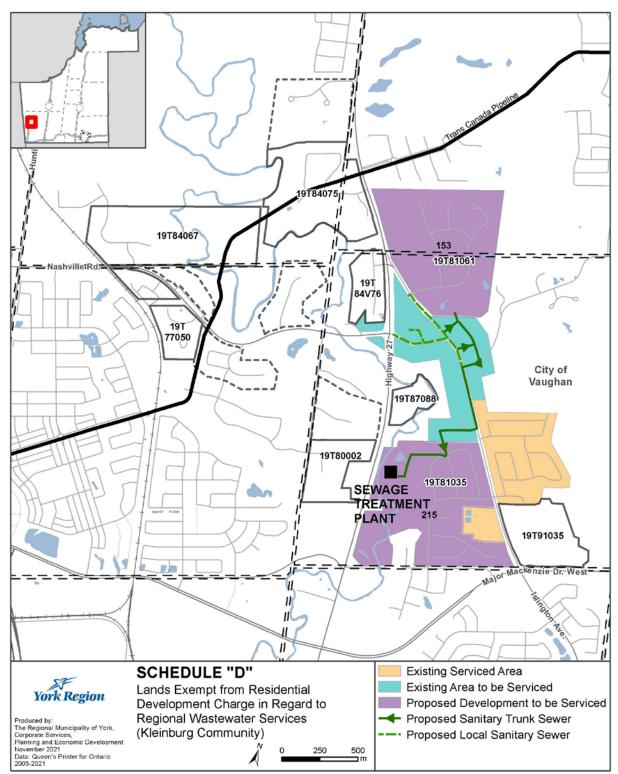
*Village of Nobleton is excluded in this table and is subject to a separate charge for Wastewater Treatment services

SCHEDULE "C" LANDS EXEMPT FROM RESIDENTIAL DEVELOPMENT CHARGE IN REGARD TO REGIONAL WATER SUPPLY SERVICES



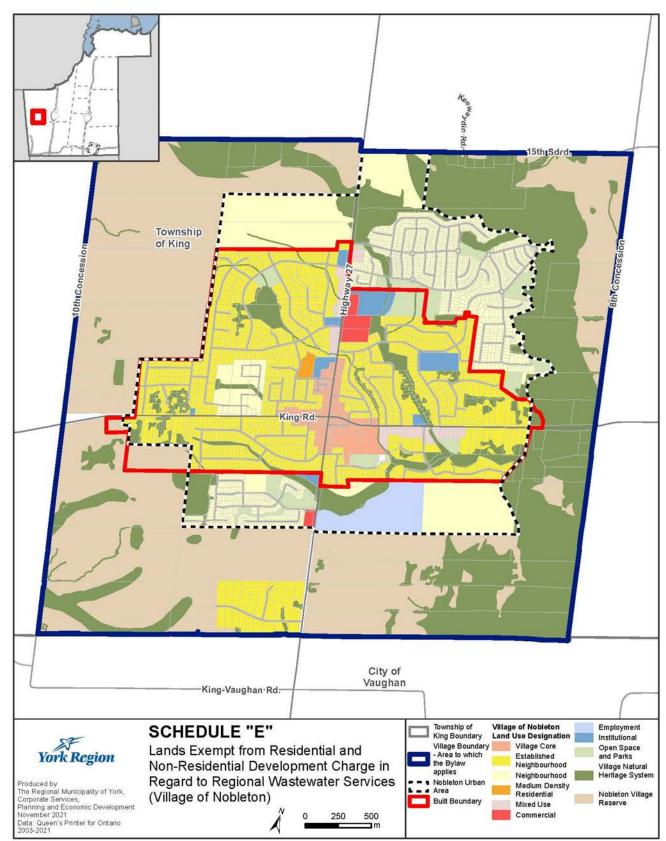
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SCHEDULE "D" LANDS EXEMPT FROM RESIDENTIAL DEVELOPMENT CHARGE IN REGARD TO REGIONAL WASTEWATER SERVICES (KLEINBURG COMMUNITY)



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SCHEDULE "E" LANDS EXEMPT FROM RESIDENTIAL AND NON-RESIDENTIAL DEVELOPMENT CHARGES IN REGARD TO REGIONAL WASTEWATER SERVI CES (VILLAGE of NOBLETON)



Cite of a model (Development data of a spin Project 2021 0102), based and Development here (By avd. Michael, 291 0021 mod.)

June 17 2022 to June 16 2027							
		(\$ per sqft)			(\$ per sqm)		
Service	Industrial/ Retail Office/ Hotel Institutional			Retail	Industrial/ Office/ Institutional	Hotel	
Hard Services							
Water	4.26	2.86	0.92	45.85	30.78	9.90	
Wastewater	9.96	6.69	2.14	107.21	72.01	23.03	
Roads	27.21	8.62	4.50	292.89	92.78	48.44	
Subtotal Hard Services	41.43	18.17	7.56	445.95	195.58	81.38	
General Services							
Transit	7.86	2.54	1.35	84.60	27.34	14.53	
Toronto-York Spadina Subway Extension	3.66	1.18	0.63	39.40	12.70	6.78	
Yonge North Subway Extension	5.92	1.96	1.04	63.72	21.10	11.19	
Public Works	0.69	0.18	0.11	7.43	1.94	1.18	
Waste Diversion	0.00	0.00	0.00	0.00	0.00	0.00	
Police	0.67	0.44	0.14	7.21	4.74	1.51	
Housing Services	0.00	0.00	0.00	0.00	0.00	0.00	
Public Health	0.02	0.01	0.01	0.22	0.11	0.11	
Ambulance Services	0.16	0.10	0.03	1.72	1.08	0.32	
Growth Studies	0.13	0.09	0.03	1.40	0.97	0.32	
Long Term Care/Seniors Services	0.00	0.00	0.00	0.00	0.00	0.00	
Court Services	0.04	0.03	0.01	0.43	0.32	0.11	
Subtotal General Services	19.15	6.53	3.35	206.13	70.29	36.06	
Total	60.58	24.70	10.91	652.08	265.87	117.43	

Schedule "F" NON-RESIDENTIAL DEVELOPMENT CHARGES

*Village of Nobleton is excluded in this table and is subject to a separate charge for Wastewater Treatment Services.

SCHEDULE "G" CONTINGENT RESIDENTIAL AND NON-RESIDENTIAL DEVELOPMENT CHARGES

			Res		relopment Cha er Unit)	arges	Non-r	esidential Develo Charges (\$ per sqft)	opment
Project Number	Project Description	Scheduled Increase	Single and Semi- detached	Multiple Unit Dwelling	Large Apartment (>=700 sqft)	Small Apartment (<700 sqft)	Retail	Industrial/ Office/ Institutional	Hotel
1	Highway 404 Interchange at 19th Avenue	The local municipality transfers responsibility of 19th Avenue between Leslie Street and Woodbine Avenue to York Region and York Region adopts an Official Plan Amendment and/or amends the Regional Roads Consolidation Bylaw as required.	415	345	268	174	0.42	0.14	0.07
2	Midblock Crossing - Highway 400 north of Rutherford Road	Approval of a local official plan amendment, secondary plan, or development area plan for the redevelopment of, or portion of, the Canada's Wonderland property, or identification of any other transportation analysis, as deemed warranted by the Region of York, identifying the need for the crossing.	171	142	110	72	0.17	0.06	0.03
3	Midblock Crossing - Highway 400 south of Highway 7 (Regional	City of Vaughan's commitment to construct the crossing and inclusion in the capital program.	406	338	262	171	0.41	0.14	0.07 284

			Res		relopment Cha er Unit)	arges	Non-r	esidential Devel Charges (\$ per sqft)	opment
Project Number	Project Description	Scheduled Increase	Single and Semi- detached	Multiple Unit Dwelling	Large Apartment (>=700 sqft)	Small Apartment (<700 sqft)	Retail	Industrial/ Office/ Institutional	Hotel
	Share)								
4	Langstaff Road - Jane Street to Keele Street	 A two-part trigger as follows: Approval of an Environmental Assessment Regional Council funding commitment to implement the project 	2,020	1,680	1,304	848	2.05	0.68	0.36
5	Elgin Mills Road - Woodbine Avenue to Warden Avenue	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	107	89	69	45	0.11	0.04	0.02
6	Elgin Mills Road - Warden Avenue to Kennedy Road	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	107	89	69	45	0.11	0.04	0.02

			Res		relopment Cha er Unit)	arges	Non-r	esidential Devel Charges (\$ per sqft)	opment
Project Number	Project Description	Scheduled Increase	Single and Semi- detached	Multiple Unit Dwelling	Large Apartment (>=700 sqft)	Small Apartment (<700 sqft)	Retail	Industrial/ Office/ Institutional	Hotel
7	Elgin Mills Road - Kennedy Road to McCowan Road	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	196	163	126	82	0.20	0.07	0.03
8	Elgin Mills Road - McCowan Road to Highway 48	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	109	91	70	46	0.11	0.04	0.02
9	Kirby Road - Weston Road to Jane Street	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	402	334	259	169	0.41	0.13	0.07

			Res		relopment Cha er Unit)	arges	Non-r	esidential Devel Charges (\$ per sqft)	opment
Project Number	Project Description	Scheduled Increase	Single and Semi- detached	Multiple Unit Dwelling	Large Apartment (>=700 sqft)	Small Apartment (<700 sqft)	Retail	Industrial/ Office/ Institutional	Hotel
10	Kirby Road - Jane Street to Keele Street	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	110	92	71	46	0.11	0.04	0.02
11	Kirby Road - Keele Street to Dufferin Street	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	99	83	64	42	0.10	0.03	0.02
12	19th Avenue - Leslie Street to Woodbine Avenue	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	388	323	250	163	0.39	0.13	0.07

			Res		velopment Cha er Unit)	arges	Non-r	esidential Devel Charges (\$ per sqft)	opment
Project Number	Project Description	Scheduled Increase	Single and Semi- detached	Multiple Unit Dwelling	Large Apartment (>=700 sqft)	Small Apartment (<700 sqft)	Retail	Industrial/ Office/ Institutional	Hotel
13	19th Avenue - Woodbine Avenue to Warden Avenue	The local municipality transfers jurisdiction of this section of road to York Region and York Region adopts an Official Plan Amendment and/or amends the regional Roads Consolidation Bylaw as required.	82	68	53	34	0.08	0.03	0.01
14	Langstaff Road - Weston Road to Jane Street	Commitment by the York Region to construct the road link of Langstaff Road between Jane Street to Keele Street.	236	197	153	99	0.24	0.08	0.04
15	Langstaff Road - Keele Street to Dufferin Street	Commitment by the York Region to construct the road link of Langstaff Road between Jane Street to Keele Street.	174	145	113	73	0.18	0.06	0.03
16	Steeles Avenue - Jane Street to Kennedy Road (YR Share)	A two-part trigger as follows: - York Region executes an agreement with the City of Toronto to cost share works on Steeles Avenue west of Kennedy Road - Commitment by senior levels of government to partner with the Region of York and the City of Toronto to construct rapid transit on Steeles Avenue	437	364	282	184	0.44	0.15	0.08

SCHEDULE "H"

CALCULATION OF DEVELOPMENT CHARGE CREDITS PROVIDED TO DERELICT BUILDINGS

Number of Months From Date of Demolition Permit to Date of Building Permit Issuance	Credit Provided (%) ¹
Up to and including 48 months	100
Greater than 48 months up to and including 72 months	75
Greater than 72 months up to and including 96 months	50
Greater than 96 months up to and including 120 months	25
Greater than 120 months	0

¹ Credits are calculated as a percentage of the prevailing development charge rates for the class of non-residential development or type of dwelling demolished.

For more information on this report, please contact Edward Hankins, Director, Treasury Office, and Deputy Treasurer, at 1-877-464-9675 ext.71644.

Accessible formats or communication supports are available upon request.