

2020 – 2024 Project Plan

The 2020 – 2024 Draft Financial Plan includes projects that are consistent with corporate objectives as outlined in the *2019 - 2022 Strategic Plan, planNanaimo, OCP* and master plans approved by Council such as the Transportation Master Plan. Detailed project information is provided within the following framework: Strategic, Equipment & Vehicle Program, Facilities Infrastructure and Amenities Program, Information Technology Infrastructure Program, Parking Infrastructure Program, Parks Infrastructure Program, Sanitary Sewer Infrastructure Program, Drainage Infrastructure Program, Transportation Infrastructure Program, and Water Infrastructure Program.

The majority of projects in the five-year plan focus on renewal of existing infrastructure to support effective and efficient delivery of current levels of service, and new/upgraded infrastructure required due to growth.

Project Plan:

The following pages provide a breakdown on the 2020 – 2024 Project Plan:

- Summary by plan – eg Asset Management Plan, Master Plans
- Summary by major category or program and funding
- Detail reports for each major category or program and type



2020 - 2024 Project Plan - Operating and Capital Funds

Summary by Plan

	2020	2021	2022	2023	2024	Total
Supporting Document						
Council's Strategic Plan						
Environment	50,000	-	-	-	-	50,000
Social Planning	2,500	2,500	2,500	2,500	2,500	12,500
Total	52,500	2,500	2,500	2,500	2,500	62,500
Strategic/Organization Plans/Studies:						
Core Review	75,000	-	-	-	-	75,000
Council Directives	578,624	294,500	294,500	194,500	194,500	1,556,624
Culture Plan for a Creative Nanaimo 2014-2020	50,000	50,000	50,000	50,000	50,000	250,000
GIS Technology Plan	45,000	45,000	45,000	45,000	45,000	225,000
Official Community Plan (OCP)	140,000	115,000	115,000	115,000	120,000	605,000
Sustainability Projects	42,075	-	-	-	-	42,075
Water Conservation Strategies (2014)	70,000	30,000	30,000	30,000	30,000	190,000
Total	1,000,699	534,500	534,500	434,500	439,500	2,943,699
Asset Management Plans:						
Asset Renewal Plan (ARP)	31,778,870	32,843,474	33,256,031	28,333,203	27,677,257	153,888,835
Beban Park Master Plan Update (2015)	-	82,580	121,500	78,060	-	282,140
Boxwood Connector Rd - Sanitary Sewer Study (2012)	69,000	-	350,000	-	-	419,000
Business Cases	430,000	1,123,188	470,000	500,000	-	2,523,188
Chase River Sanitary Sewer Master Plan (2014)	-	660,000	-	-	-	660,000
City Wide Sanitary Sewer Study (2014)	25,000	629,000	326,000	-	-	980,000
City Wide Sewer Plan (2014)	200,000	-	-	-	-	200,000
Dam Inundation Study	200,000	-	-	-	-	200,000
Dam Safety Regulations	25,000	23,000	15,000	15,000	15,000	93,000
Dam Safety Reviews	-	-	-	210,000	-	210,000
DCC Bylaw	8,046,025	8,935,000	15,403,200	11,020,116	9,061,376	52,465,717
Formal Annual Dam Inspections	66,650	68,200	69,750	25,300	72,850	302,750
Formal Annual Dam Review Report	100,000	100,000	100,000	5,000,000	-	5,300,000
Harewood Centennial Park Improvement Plan	203,815	-	-	-	-	203,815
Maffeo Sutton Park Master Plan Update	32,490	45,000	-	112,000	-	189,490
Millstone Sewer Trunk & Laterals Master Plan	22,000	665,000	221,000	77,000	-	985,000
Neck Point Park Master Plan Update	-	216,340	-	-	-	216,340
Partners in the Park Program	100,000	100,000	100,000	100,000	100,000	500,000
Property Management Strategy	600,000	600,000	600,000	600,000	600,000	3,000,000
Seventh St SubCatchment Area Sanitary Sewer Study (2011)	-	32,000	-	320,000	-	352,000
Trail Implementation Plan	305,025	179,680	200,000	201,850	200,000	1,086,555
Transportation Master Plan	5,650,000	10,273,400	1,968,400	7,770,400	1,023,600	26,685,800
Urban Forest Management Strategy	96,200	61,570	22,500	20,000	13,500	213,770
Water Audit Study (2013)	300,000	300,000	300,000	300,000	325,000	1,525,000
Waterfront Walkway Implementation Plan	600,000	8,900,000	11,850,000	3,775,000	5,100,000	30,225,000
Total	48,850,075	65,837,432	65,373,381	58,457,929	44,188,583	282,707,400
Total - Projects From Plans	49,903,274	66,374,432	65,910,381	58,894,929	44,630,583	285,713,599
Total - Other Projects	2,083,835	2,443,643	630,600	264,700	203,000	5,625,778
Total - All Projects	51,987,109	68,818,075	66,540,981	59,159,629	44,833,583	291,339,377

Note: A project may support more than one plan, classification is based on major plan supported.

2020- 2024 Project Plan - Operating and Capital Funds
Summary by Major Category and Funding

	2020	2021	2022	2023	2024	Total
PROJECTS						
Strategic	1,834,024	1,386,700	1,393,500	1,301,700	1,279,500	7,195,424
Equipment & Vehicle Program	4,763,796	2,637,241	2,865,616	2,638,453	1,816,899	14,722,005
Facilities Infrastructure & Amenities Program	6,965,125	12,564,875	6,593,353	2,144,885	3,412,765	31,681,003
Information Technology Infrastructure Program	700,764	930,331	1,635,787	2,734,195	92,076	6,093,153
Parking Infrastructure Program	769,000	806,888	955,925	1,300,000	1,273,550	5,105,363
Parks Infrastructure Program	3,985,375	10,181,130	12,663,250	5,518,730	7,001,260	39,349,745
Sanitary Sewer Infrastructure Program	7,411,625	9,225,450	6,421,700	6,459,300	6,995,807	36,513,882
Drainage Infrastructure Program	3,334,100	3,505,600	5,950,200	5,142,500	5,766,000	23,698,400
Transportation Infrastructure Program	10,979,250	18,545,400	16,463,400	15,494,700	5,813,476	67,296,226
Water Infrastructure Program	11,244,050	9,034,460	11,598,250	16,425,166	11,382,250	59,684,176
Total Projects	51,987,109	68,818,075	66,540,981	59,159,629	44,833,583	291,339,377
PROJECT TYPE						
Capital Project	42,861,184	63,143,849	60,653,596	53,268,798	38,864,503	258,791,930
Operating Project	9,125,925	5,674,226	5,887,385	5,890,831	5,969,080	32,547,447
	51,987,109	68,818,075	66,540,981	59,159,629	44,833,583	291,339,377
FUNDING SOURCES						
Drainage DCCs	330,720	340,710	2,103,548	1,823,100	740,800	5,338,878
Parks DCCs	54,549	75,719	-	-	-	130,268
Roads DCCs	458,800	3,403,280	3,461,900	1,628,297	389,227	9,341,504
Sewer DCCs	165,380	342,480	614,810	3,400,540	590,030	5,113,240
Water DCCs	1,647,870	399,430	2,890,580	1,070,152	1,678,579	7,686,611
Development Cost Charges (DCC) Reserves	2,657,319	4,561,619	9,070,838	7,922,089	3,398,636	27,610,501
911 Equipment Reserve	10,860	79,160	21,160	2,500	17,476	131,156
Community Works Reserve	4,977,295	10,216,000	2,995,000	5,685,000	6,100	23,879,395
Copier Reserve	32,500	10,000	19,600	13,600	20,000	95,700
Emission Reduction Reserve	75,000	-	-	-	-	75,000
Equipment Depreciation Reserve	3,850,290	1,198,000	1,943,000	1,932,890	1,252,000	10,176,180
Facility Development Reserve	1,711,885	2,216,765	1,312,280	759,605	1,582,590	7,583,125
General Parking Reserve	769,000	60,488	180,425	1,000,000	-	2,009,913
Housing Legacy Reserve	38,950	-	-	-	-	38,950
IT Reserve	505,764	847,531	592,000	691,601	38,100	2,674,996
Strategic Infrastructure Reserve	900,000	900,000	900,000	1,800,000	900,000	5,400,000
Sustainability Reserve	42,075	-	-	-	-	42,075
General Fund Asset Mgmt Reserve	6,995,790	6,408,221	10,518,349	8,541,439	7,797,299	40,261,098
Sewer Fund Asset Mgmt Reserve	1,955,080	1,621,420	1,571,390	431,710	3,056,320	8,635,920
Water Fund Asset Mgmt Reserve	3,161,630	1,773,570	2,057,420	2,118,564	1,529,521	10,640,705
General Reserves	1,468,044	23,300	173,340	219,430	-	1,884,114
Sewer Reserves	4,135,900	5,195,150	4,077,500	2,637,050	1,675,657	17,721,257
Water Reserves	6,606,750	7,711,960	7,162,450	13,425,350	8,330,150	43,236,660
Operating and Statutory Reserves	37,236,813	38,261,565	33,523,914	39,258,739	26,205,213	174,486,244
Government Grants	250,000	50,000	-	-	-	300,000
Grants/Private Contributions	204,000	9,000	593,000	9,000	9,000	824,000
Grants/Private Contributions	454,000	59,000	593,000	9,000	9,000	1,124,000
General Revenue	7,373,712	7,788,428	8,170,460	8,194,801	8,395,934	39,923,335
PILT's	100,000	100,000	771,000	100,000	100,000	1,171,000
Internal Borrowing	1,165,265	2,088,600	-	-	-	3,253,865
Borrowing	3,000,000	15,958,863	14,411,769	3,675,000	6,724,800	43,770,432
Total Funding	51,987,109	68,818,075	66,540,981	59,159,629	44,833,583	291,339,377

2020 - 2024 Project Plan - Operating and Capital Funds

2020 Operating and Capital Projects

PROJECTS	AMOUNT	PROJECT HIGHLIGHTS
Strategic	1,834,024	Projects and programs that address specific initiatives, issues or goals.
Equipment & Vehicle Program	4,763,796	The City utilizes a wide range of vehicles and equipment to deliver services. The majority of planned purchases in 2020 are for the renewal of existing assets. Major 2020 purchases include: - 2 Fire Engines - 3 Dump Trucks - Backhoe
Facilities Infrastructure & Amenities Program	6,965,125	The City currently owns and operates over 100 facilities which support delivery of a wide range of services. Major projects in 2020 include: - Civic Facilities Condition Assessment Program - Facilities and Parks Amenities Condition Assessment Program - Replace chiller unit in Port Theatre - Beban Social Centre repair and repaint exterior metal cladding, add ductless split heat pumps for two rooms - Phase 2 of Nanaimo Aquatic Centre roof replacement - Continuation of multi-year project to replace Fire Station #1
Information Technology Infrastructure Program	700,764	The City's technology equipment, maintains systems access for network and business applications. Major projects in 2020 include: - Traffic Signal Management System - Infrastructure improvements to enhance performance capacity
Parking Infrastructure Program	769,000	The City currently owns and operates three multi-level parkades and five parking lots. Major projects in 2020 include: - Bastion Street Parkade renewal of traffic membranes
Parks Infrastructure Program	3,985,375	Parks infrastructure includes destination parks, neighborhood parks, spray parks, sports field, playgrounds, tennis/sport course and trails. Major projects in 2020 include: - Serausmen Stadium installation of LED outfield lights - Waterfront Walkway phased implementation - Trailway Development, construction of boardwalk along south side of Cottle Lake - Phase 2 of Harewood Centennial Youth Park - Beach Access Upgrades, replacement of Seabold Beach access stairs - Gallows Point Dock, demolition and construction of new dock
Sanitary Sewer Infrastructure Program	7,411,625	The sanitary sewer infrastructure program includes renewal projects for infrastructure at end of life and new/upgrade projects to address current and future capacity issues. Major projects in 2020 include: - Sanitary Sewer Condition Assessment Program - Comox Area Sanitary Project - DCC SS 19 Millstone Trunk South: upsize main between Nanaimo Parkway and Pryde Ave to address existing capacity shortfalls and to service future growth - Strongitharme Easement 1628RW: replacement of sanitary sewer main Strongitharme to 2550 Departure Bay

2020 - 2024 Project Plan - Operating and Capital Funds

2020 Operating and Capital Projects Continued

PROJECTS	AMOUNT	PROJECT HIGHLIGHTS
Drainage Infrastructure Program	3,334,100	<p>The drainage infrastructure program includes renewal projects for infrastructure at end of life and new/upgrade projects to address current and future capacity issues.</p> <p>Major projects in 2020 include:</p> <ul style="list-style-type: none"> - Casper Way RHB & Utility Project: replace and upgrade existing ditch and driveway culverts on Casper - Metral Corridor & Utility Upgrade: replace existing system of drainage ditches and culvert crossings on Metral with a piped system to support construction of a new sidewalk - Stewart St Utilities Upgrade: replace and re-route drainage main on Stewart St between 1000 Stewart and outfall - White St Area RHB and Utilities Project: replace drainage main on White St between Pryde and Millstone
Transportation Infrastructure Program	10,979,250	<p>The City's Transportation Master Plan (2014) provides direction on expansion/upgrades to the City's transportation infrastructure. Transportation infrastructure includes roadways, sidewalks, bicycle lanes, bridge structures, street lights, roundabouts and traffic signals.</p> <p>Major projects in 2020 include:</p> <ul style="list-style-type: none"> - Phase 1 of Metral Corridor and Utility Upgrade: between Mostar Road and Turner Road with a link to E&N Trail. Includes road rehab, cycling lanes, sidewalks and streetlights. - Cycling Amenities: <ul style="list-style-type: none"> Off Bowen (Caspers Way to Hansen Rd), Comox Rd (Pine St to Wallace St), Boxwood Rd (Dufferin Cres to Meredith St) - Road rehabilitation including Bowen Road: Island Hwy to Labieux, Laguna Way: Toms Turnabout Esmt to 5004 Laguna and 5004 Laguna to Malaspina - Phase 3 of LED Street Light Conversion, supported by business case - Downtown Street Lighting Replacement: complete remaining globe street lights
Water Infrastructure Program	11,244,050	<p>The water infrastructure program includes renewal projects for infrastructure at end of life and new/upgrade projects to increase capacity and provide redundancy within the system. The long-term water supply plan models future demand due to growth, and provides guidance for capital investment needed to maintain an adequate water supply for the City.</p> <p>Major projects in 2020 include:</p> <ul style="list-style-type: none"> - Phase 1 of Metral Corridor & Utility Upgrade: replace water distribution main on Metral between Doreen to Island Hwy, on Tulip Place between Metral to end and Fernandez Place from Metral to end - DCC WS42 Towers Reservoir: demolish existing reservoir and replace with larger reservoir to provide adequate peak hour balancing storage and fire flow - DCC W55 Bowen: replace and upsize water distribution main on Bowen Rd and Kenworth Rd to address growth and provide minimum operating pressures and fire flows - Laguna Area Water Project: replace 3 PRVs and replace water distribution main on Laguna Ave between Tom's Turnabout Easement to 5004 Laguna, between 5004 Laguna to Malaspina and Lost Lake to 4345 Laguna.
Total	51,987,109	

**2020 - 2024 Project Plan - Operating and Capital Funds
Strategic Projects**

	2020	2021	2022	2023	2024	Total
Project Costs:						
Strategic Plans:						
Community Action Sustainability Plan Update	75,000	-	-	-	-	75,000
Council Strategic Plan	-	-	-	20,000	-	20,000
Economic Development Strategy	100,000	-	-	-	-	100,000
Parks and Recreation Master Plan Update	75,000	-	-	-	-	75,000
Social Procurement Strategy	10,000	-	-	-	-	10,000
Council Committees:						
Design Advisory Panel	2,500	2,500	2,500	2,500	2,500	12,500
Environment Committee	10,000	10,000	10,000	10,000	10,000	50,000
Finance & Audit	8,000	8,000	8,000	8,000	8,000	40,000
Health and Housing Task Force	2,500	2,500	2,500	2,500	2,500	12,500
Nanaimo Youth Advisory Council	3,000	3,000	3,000	3,000	3,000	15,000
Water Supply Advisory	1,500	1,500	1,500	1,500	1,500	7,500
Audits:						
COR External Audit	-	-	14,000	-	-	14,000
Financial/Performance Audits	50,000	50,000	50,000	50,000	50,000	250,000
IT Tech: Network Security Audit	-	20,700	-	20,700	-	41,400
Culture & Heritage Initiatives:						
Downtown Façade Grants	20,000	20,000	20,000	20,000	20,000	100,000
Public Art	50,000	50,000	50,000	50,000	50,000	250,000
Environmental Projects:						
Invasive Plant Management Program	20,000	20,000	20,000	20,000	20,000	100,000
Natural Park Areas Assessment Program	25,000	30,000	22,500	20,000	13,500	111,000
Seasonal Air Quality Assessment	-	-	-	-	5,000	5,000
Official Community Plan:						
Official Community Plan (OCP) Update	100,000	-	-	-	-	100,000
Planning Studies	-	75,000	75,000	75,000	75,000	300,000
Property Management Strategy:						
Property Acquisitions - General	600,000	600,000	600,000	600,000	600,000	3,000,000
Social Planning Initiatives:						
Day-Time Drop In Centre	100,000	100,000	100,000	-	-	300,000
Housing Legacy Reserve	165,000	165,000	165,000	165,000	165,000	825,000
Shower Program	38,950	-	-	-	-	38,950
Urban Clean Up	45,000	-	-	-	-	45,000
Water Strategies:						
Appliance Rebate Program	10,000	-	-	-	-	10,000
Toilet Rebate Program	30,000	-	-	-	-	30,000
Water Conservation Strategy	30,000	30,000	30,000	30,000	30,000	150,000
Subtotal	1,571,450	1,188,200	1,174,000	1,098,200	1,056,000	6,087,850

**2020 - 2024 Project Plan - Operating and Capital Funds
Strategic Projects Continued**

	2020	2021	2022	2023	2024	Total
Project Costs:						
Other:						
Active Transportation Education & Marketing	25,000	30,000	35,000	35,000	35,000	160,000
Association of Vancouver Island Coastal Communities (AVICC)	15,174	-	-	-	-	15,174
City Orthophotos	75,000	50,000	75,000	50,000	75,000	325,000
Cross Connection Control Grant	100,000	100,000	100,000	100,000	100,000	500,000
Immigrant Welcome Reception	4,500	4,500	4,500	4,500	4,500	22,500
Public Works Days	28,900	-	-	-	-	28,900
Safety Initiatives	9,000	9,000	-	9,000	9,000	36,000
Sustainable Parking Grant	5,000	5,000	5,000	5,000	-	20,000
Subtotal	262,574	198,500	219,500	203,500	223,500	1,107,574
Grand Total	1,834,024	1,386,700	1,393,500	1,301,700	1,279,500	7,195,424

**2020 - 2024 Project Plan - Operating and Capital Funds
Equipment & Vehicle Program**

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Fleet:						
City Fleet	1,528,000	1,155,000	1,252,000	677,000	1,200,500	5,812,500
Fire Fleet	2,205,460	-	566,500	1,059,390	30,000	3,861,350
Ice Resurfacers	-	-	-	185,000	-	185,000
Equipment:						
Furniture and Equipment	408,706	374,718	610,016	303,708	202,329	1,899,477
Gym Equipment	-	52,020	-	54,125	-	106,145
Maintenance Equipment	265,530	257,170	152,150	120,050	131,800	926,700
Misc - Fire Equipment	109,680	140,980	100,470	87,520	123,770	562,420
Misc - Fleet Shop Equipment	48,330	35,500	61,000	4,000	14,000	162,830
Misc - Survey Equipment	10,000	10,000	10,000	10,000	10,000	50,000
Park Amenities	18,000	18,360	18,730	19,110	19,500	93,700
SNIC Equipment	89,500	-	-	50,000	85,000	224,500
VICC Kitchen Equipment	19,200	23,300	94,750	68,550	-	205,800
Total	4,702,406	2,067,048	2,865,616	2,638,453	1,816,899	14,090,422
New/Upgrades:						
Fleet:						
Sanitation Fleet	-	458,863	-	-	-	458,863
Equipment:						
Furniture and Equipment	42,840	74,250	-	-	-	117,090
Maintenance Equipment	-	27,100	-	-	-	27,100
Misc - Fire Equipment	18,550	9,980	-	-	-	28,530
Total	61,390	570,193	-	-	-	631,583

**2020 - 2024 Project Plan - Operating and Capital Funds
Facilities Infrastructure & Amenities Program**

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Condition Assessment/Pre-Design/Studies	425,000	325,000	275,000	275,000	300,000	1,600,000
Civic Properties:						
City Hall	37,480	-	-	-	98,110	135,590
Community Services Building	-	39,960	-	-	-	39,960
Service and Resource Centre (SARC)	36,200	-	10,200	-	30,000	76,400
Bylaw Facilities:						
Animal Shelter	-	-	-	34,100	-	34,100
Culture & Heritage Facilities:						
150 Commercial Street	28,000	-	22,500	-	-	50,500
Port Theatre	286,500	126,530	5,500	801,360	20,170	1,240,060
The Bastion	-	24,630	-	-	15,000	39,630
Public Safety:						
Fire Station #1	3,000,000	6,700,000	3,740,269	-	-	13,440,269
Fire Station #2	-	-	44,094	-	51,220	95,314
Fire Station #3	-	-	58,510	-	43,010	101,520
Fire Station #4	31,120	-	-	-	78,170	109,290
Police Annex	53,550	66,870	-	36,130	-	156,550
Police Operations Building	103,110	70,000	242,810	70,000	79,780	565,700
Parks and Recreation Facilities:						
Beacon House	68,650	-	-	-	-	68,650
Beban Complex	310,160	3,023,940	283,490	-	210,940	3,828,530
Beban House	96,130	-	-	-	-	96,130
Beban Pool	153,760	278,480	146,410	50,300	152,240	781,190
Beban Social Centre	244,550	173,705	146,500	117,290	-	682,045
Bowen Park Complex	69,460	6,775	-	200,050	19,500	295,785
Centennial Building	-	30,420	-	-	-	30,420
Chase River Activity Centre	44,960	-	-	-	-	44,960
Cliff McNabb Arena	13,920	-	60,535	48,710	1,293,980	1,417,145
Frank Crane Arena	131,565	-	-	-	210,000	341,565
Kin Hut	36,600	-	-	-	10,320	46,920
Kin Pool	-	21,400	-	34,890	7,350	63,640
Nanaimo Aquatic Centre	1,418,545	564,040	737,330	30,000	71,160	2,821,075
Subtotal	6,589,260	11,451,750	5,773,148	1,697,830	2,690,950	28,202,938
New/Upgrades:						
Civic Facilities:						
Cross Connection Program	84,175	-	-	-	-	84,175
Parks and Recreation Facilities:						
Nanaimo Aquatic Centre	12,550	-	-	-	-	12,550
Subtotal	96,725	-	-	-	-	96,725

**2020 - 2024 Project Plan - Operating and Capital Funds
Facilities Infrastructure & Amenities Program Continued**

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Parks and Recreation Facilities Continued:						
Nanaimo Ice Centre	11,610	317,925	53,020	171,360	59,760	613,675
Oliver Woods Community Centre	90,100	5,200	-	152,895	37,150	285,345
Public Works Yard						
Public Works Yard	117,430	95,000	176,485	102,800	609,905	1,101,620
Vancouver Island Conference Centre						
VICC	-	-	165,700	-	-	165,700
Water Facilities						
Pump Stations	-	25,000	-	-	-	25,000
Water Treatment Plant	-	20,000	15,000	20,000	15,000	70,000
Subtotal	219,140	463,125	410,205	447,055	721,815	2,261,340
Total	6,808,400	11,914,875	6,183,353	2,144,885	3,412,765	30,464,278
New/Upgrades:						
Public Works Yard						
Public Works Yard	-	-	60,000	-	-	60,000
Water Facilities						
Water Treatment Plant	60,000	650,000	350,000	-	-	1,060,000
Subtotal	60,000	650,000	410,000	-	-	1,120,000
Total	156,725	650,000	410,000	-	-	1,216,725
Grand Total	6,965,125	12,564,875	6,593,353	2,144,885	3,412,765	31,681,003

**2020 - 2024 Project Plan - Operating and Capital Funds
Information Technology Infrastructure Program**

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Business Applications	67,350	-	-	-	8,976	76,326
Business Applications - ERP	-	-	1,220,197	1,867,414	-	3,087,611
Computing Infrastructure	174,954	228,831	370,590	821,781	38,100	1,634,256
Total	242,304	228,831	1,590,787	2,689,195	47,076	4,798,193
New/Upgrades:						
Business Applications	213,760	-	-	-	-	213,760
Business Applications - ECM	-	656,500	-	-	-	656,500
Business Applications - GIS	45,000	45,000	45,000	45,000	45,000	225,000
Computing Infrastructure	199,700	-	-	-	-	199,700
Total	458,460	701,500	45,000	45,000	45,000	1,294,960
Plans/Studies:						
Studies	-	-	-	-	-	-
Total	-	-	-	-	-	-
Grand Total	700,764	930,331	1,635,787	2,734,195	92,076	6,093,153

**2020 - 2024 Project Plan - Operating and Capital Funds
Parking Infrastructure Program**

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Bastion St Parkade	713,700	18,800	-	-	-	732,500
Harbourfront Parkade	13,200	746,400	839,325	-	1,273,550	2,872,475
Port of Nanaimo Centre Parkade	12,100	-	-	1,300,000	-	1,312,100
Misc Projects						-
Total	739,000	765,200	839,325	1,300,000	1,273,550	4,917,075
New/Upgrades:						
Harbourfront Parkade	-	-	96,600	-	-	96,600
Parking Equipment	-	34,500	-	-	-	34,500
Parking Signage	-	7,188	-	-	-	7,188
Total	-	41,688	96,600	-	-	138,288
Plans/Studies:						
Studies	30,000	-	20,000	-	-	50,000
Total	30,000	-	20,000	-	-	50,000
Grand Total	769,000	806,888	955,925	1,300,000	1,273,550	5,105,363

**2020 - 2024 Project Plan - Operating and Capital Funds
Parks Infrastructure Program**

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Beach Access	214,750	25,000	25,000	25,000	25,000	314,750
Boat Ramps/Docks	774,970	-	-	-	-	774,970
Condition Assessment/Pre Design	100,000	100,000	100,000	100,000	125,000	525,000
Misc Projects	339,820	-	-	-	-	339,820
Parks & Playground	301,010	221,570	205,000	721,600	120,000	1,569,180
Pickleball Courts	-	-	-	29,140	-	29,140
Railing Replacement Program	-	202,010	-	136,780	-	338,790
Recreational Dams	74,450	73,600	66,750	180,300	69,050	464,150
Sports Fields/Field Houses	65,875	6,600	80,000	36,300	1,202,760	1,391,535
Tennis Court Improvements	27,460	-	-	22,700	59,450	109,610
Trail Development and Rehab	142,370	179,680	-	-	-	322,050
Total	2,040,705	808,460	476,750	1,251,820	1,601,260	6,178,995
New/Upgrades:						
Misc Projects	56,280	28,750	-	-	-	85,030
Multi Use Court	8,000	-	-	-	-	8,000
Parks & Playgrounds	182,190	443,920	136,500	259,500	100,000	1,122,110
Sports Fields/Field Houses	731,730	-	-	-	-	731,730
Trail Development	801,905	8,900,000	12,050,000	3,976,850	5,300,000	31,028,755
Youth Courts/Parks	164,565	-	-	30,560	-	195,125
Total	1,944,670	9,372,670	12,186,500	4,266,910	5,400,000	33,170,750
Plans/Studies:						
	-	-	-	-	-	-
Total	-	-	-	-	-	-
Grand Total	3,985,375	10,181,130	12,663,250	5,518,730	7,001,260	39,349,745

2020 - 2024 Project Plan - Operating and Capital Funds
Sanitary Sewer Infrastructure Program

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Condition Assessment Program	510,000	485,000	510,000	485,000	510,000	2,500,000
Mains	4,268,600	2,619,450	3,785,700	1,836,300	2,014,407	14,524,457
Total	4,778,600	3,104,450	4,295,700	2,321,300	2,524,407	17,024,457
New/Upgrades:						
Mains	2,453,025	5,821,000	1,876,000	3,813,000	4,146,400	18,109,425
Total	2,453,025	5,821,000	1,876,000	3,813,000	4,146,400	18,109,425
Plans/Studies:						
Master Plans	30,000	150,000	150,000	225,000	225,000	780,000
Misc Projects	-	50,000	-	-	-	50,000
Studies	150,000	100,000	100,000	100,000	100,000	550,000
Total	180,000	300,000	250,000	325,000	325,000	1,380,000
Grand Total	7,411,625	9,225,450	6,421,700	6,459,300	6,995,807	36,513,882

2020 - 2024 Project Plan - Operating and Capital Funds
Drainage Infrastructure Program

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Condition Assessment Program	160,000	210,000	260,000	310,000	310,000	1,250,000
Mains	1,761,100	1,459,600	2,413,000	971,000	4,136,000	10,740,700
Total	1,921,100	1,669,600	2,673,000	1,281,000	4,446,000	11,990,700
New/Upgrades:						
Mains	1,313,000	1,836,000	3,177,200	3,861,500	1,220,000	11,407,700
Total	1,313,000	1,836,000	3,177,200	3,861,500	1,220,000	11,407,700
Plans/Studies:						
Master Plans	100,000	-	100,000	-	100,000	300,000
Total	100,000	-	100,000	-	100,000	300,000
Grand Total	3,334,100	3,505,600	5,950,200	5,142,500	5,766,000	23,698,400

2020 - 2024 Project Plan - Operating and Capital Funds
Transportation Infrastructure Program

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Bridges	100,000	-	-	-	-	100,000
Condition Assessment Program	310,000	-	-	200,000	-	510,000
Corridor Improvements	-	-	2,300,000	-	-	2,300,000
Misc Projects	325,000	350,000	350,000	350,000	350,000	1,725,000
Railway Crossings	25,000	25,000	25,000	25,000	25,000	125,000
Road Rehabilitation	3,013,750	2,395,000	3,170,000	3,034,000	3,535,000	15,147,750
Sidewalk Maintenance Program	50,000	-	50,000	-	50,000	150,000
Street Lights	494,000	50,000	50,000	50,000	50,000	694,000
Traffic Signals	-	50,000	-	500,000	-	550,000
Transit Amenities	75,000	-	-	-	-	75,000
Transportation Improvements	150,000	1,100,000	1,050,000	600,000	100,000	3,000,000
Total	4,542,750	3,970,000	6,995,000	4,759,000	4,110,000	24,376,750
New/Upgrades:						
Cycling Amenities	2,338,000	8,597,000	275,000	742,800	405,850	12,358,650
Misc Projects	50,000	100,000	100,000	100,000	100,000	450,000
Pedestrian Amenities	1,796,000	1,608,400	1,568,400	1,147,900	476,275	6,596,975
Pedestrian/Cycling Amenities	-	-	-	-	88,000	88,000
Street Lights	641,500	425,000	450,000	500,000	15,000	2,031,500
Transit Amenities	66,000	85,000	50,000	900,000	193,351	1,294,351
Transportation Improvements	850,000	3,600,000	6,935,000	7,100,000	75,000	18,560,000
Total	5,741,500	14,415,400	9,378,400	10,490,700	1,353,476	41,379,476
Plans/Studies:						
Master Plans	175,000	-	-	-	250,000	425,000
Planning	115,000	125,000	40,000	45,000	50,000	375,000
Studies	280,000	-	15,000	165,000	15,000	475,000
Surveys	125,000	35,000	35,000	35,000	35,000	265,000
Total	695,000	160,000	90,000	245,000	350,000	1,540,000
Grand Total	10,979,250	18,545,400	16,463,400	15,494,700	5,813,476	67,296,226

2020 - 2024 Project Plan - Operating and Capital Funds
Water Infrastructure Program

	2020	2021	2022	2023	2024	Total
Project Costs:						
Renewal Projects and Programs:						
Condition Assessment Program	30,000	75,000	100,000	125,000	100,000	430,000
Distribution Mains	5,265,850	6,639,860	4,844,250	6,790,350	6,686,350	30,226,660
Misc Projects	30,000	30,000	30,000	30,000	30,000	150,000
Pump Station/PRV Program	315,000	1,060,000	391,000	470,000	20,000	2,256,000
Supply Mains	210,000	-	1,000,000	1,000,000	1,000,000	3,210,000
Water Meter Replacement	300,000	300,000	300,000	300,000	300,000	1,500,000
Water Supply Dams	117,200	117,600	118,000	5,070,000	18,800	5,441,600
Total	6,268,050	8,222,460	6,783,250	13,785,350	8,155,150	43,214,260
New/Upgrades:						
Distribution Mains	1,148,000	692,000	1,625,000	2,069,816	1,972,100	7,506,916
Reservoirs	3,258,000	-	-	-	-	3,258,000
Supply Mains	-	-	50,000	450,000	1,130,000	1,630,000
Water Supply Dams	-	-	3,000,000	-	-	3,000,000
Total	4,406,000	692,000	4,675,000	2,519,816	3,102,100	15,394,916
Plans/Studies:						
Master Plans	250,000	-	-	-	-	250,000
Misc Projects	-	-	20,000	-	-	20,000
Studies	320,000	120,000	120,000	120,000	125,000	805,000
Total	570,000	120,000	140,000	120,000	125,000	1,075,000
Grand Total	11,244,050	9,034,460	11,598,250	16,425,166	11,382,250	59,684,176