



AGENDA
SPECIAL FINANCE AND AUDIT COMMITTEE MEETING

November 27, 2020

9:00 AM - 4:30 PM

SHAW AUDITORIUM, VANCOUVER ISLAND CONFERENCE CENTRE
80 COMMERCIAL STREET, NANAIMO, BC

Pages

1. CALL THE MEETING TO ORDER:

[Note: This meeting will be live streamed and video recorded for the public.]

2. INTRODUCTION OF LATE ITEMS:

3. ADOPTION OF AGENDA:

4. ADOPTION OF MINUTES:

5. PRESENTATIONS:

- a. Development Services 2021 Business Plan 9:00 a.m. - 10:00 a.m. 3 - 23**

To be introduced by Dale Lindsay, General Manager, Development Services.

- 1. Scheduled Recess 10:00 a.m. - 10:15 a.m.**

- b. Parks, Recreation and Culture 2021 Business Plan 10:15 a.m. - 12:30 p.m. 24 - 42**

To be introduced by Richard Harding, General Manager, Parks, Recreation and Culture.

- 1. Scheduled Recess 12:30 p.m. - 1:15 p.m.**

- c. Engineering and Public Works 2021 Business Plan 1:15 p.m. - 2:45 p.m. 43 - 65**

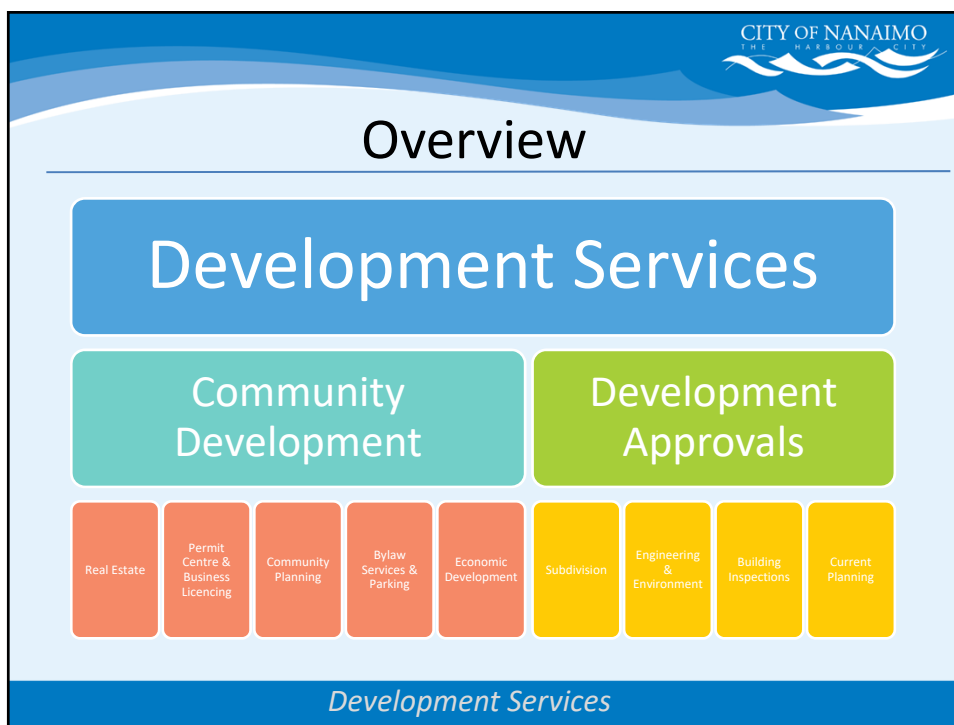
To be introduced by Bill Sims, General Manager, Public Works and Engineering.

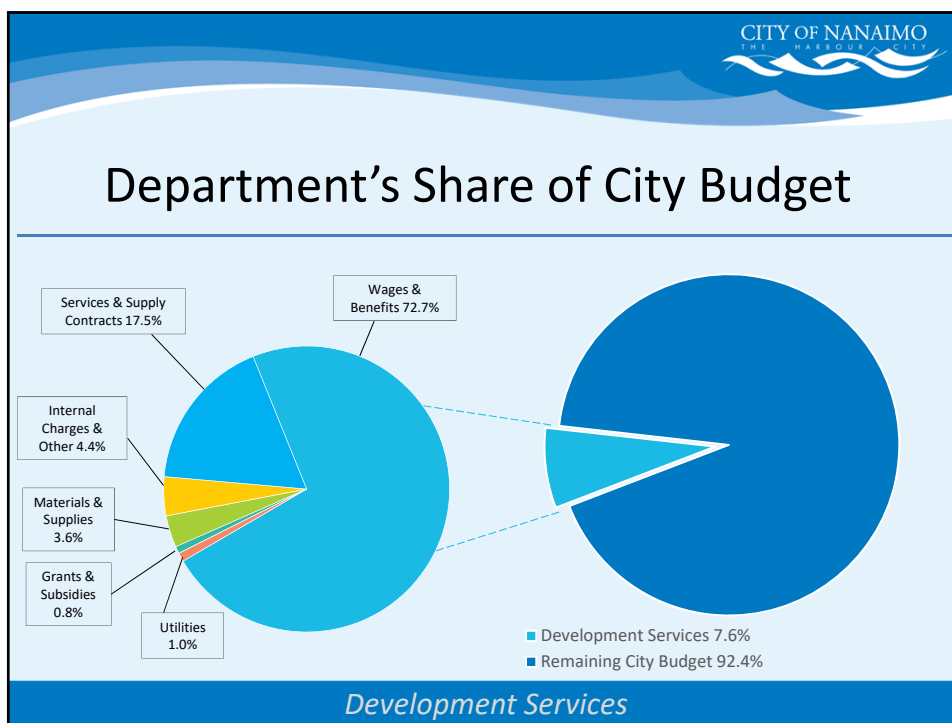
- 1. Scheduled Recess 2:45 p.m. - 3:00 p.m.**

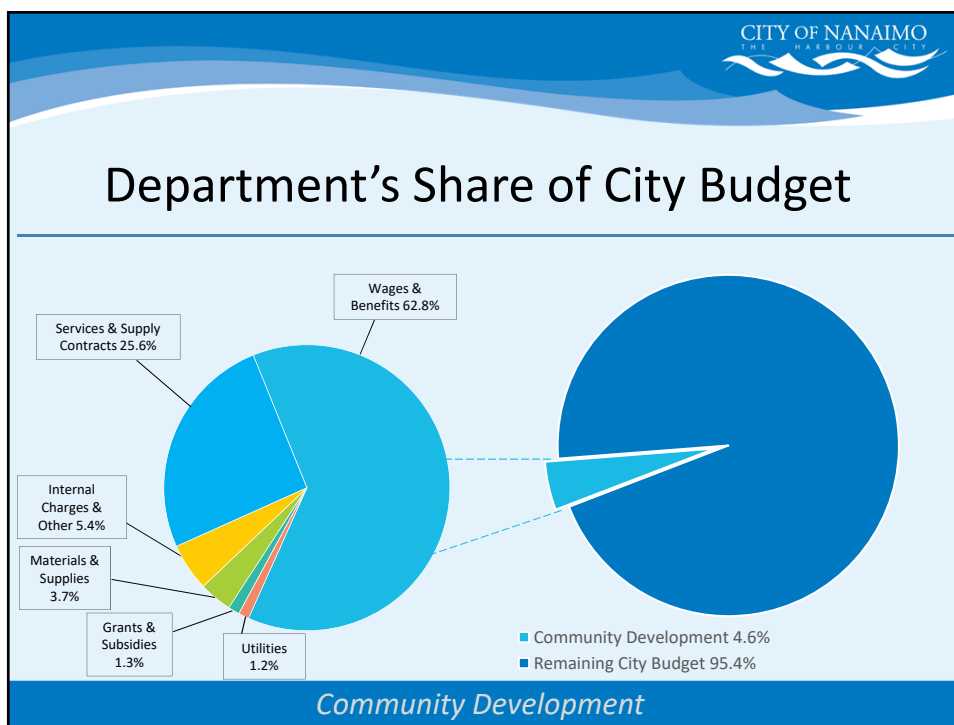
- d. Nanaimo Fire Rescue 2021 Business Plan 3:00 p.m. - 4:00 p.m. 66 - 72**

To be introduced by Karen Fry, Fire Chief.

6. REPORTS:
7. OTHER BUSINESS:
8. ADJOURNMENT:







CITY OF NANAIMO
THE HARBOUR CITY


2020 Achievements

- COVID-19 response
- **REIMAGINE NANAIMO**
- Mid-Island Child Care Planning Collaborative study
- Health and Housing Action Plan
- Truth and Reconciliation Commission's Call to Action #57 and the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP)
- Animal Control Function service review
- 1 Port Drive development preparation
- Conference Centre Hotel construction
- Waterfront Walkway design
- Downtown core investment/revitalization
- Downtown disorder and security
- Economic Development Task Force, Strategy and Charter
- Home-Based Business Regulations
- Online Business Licence application process

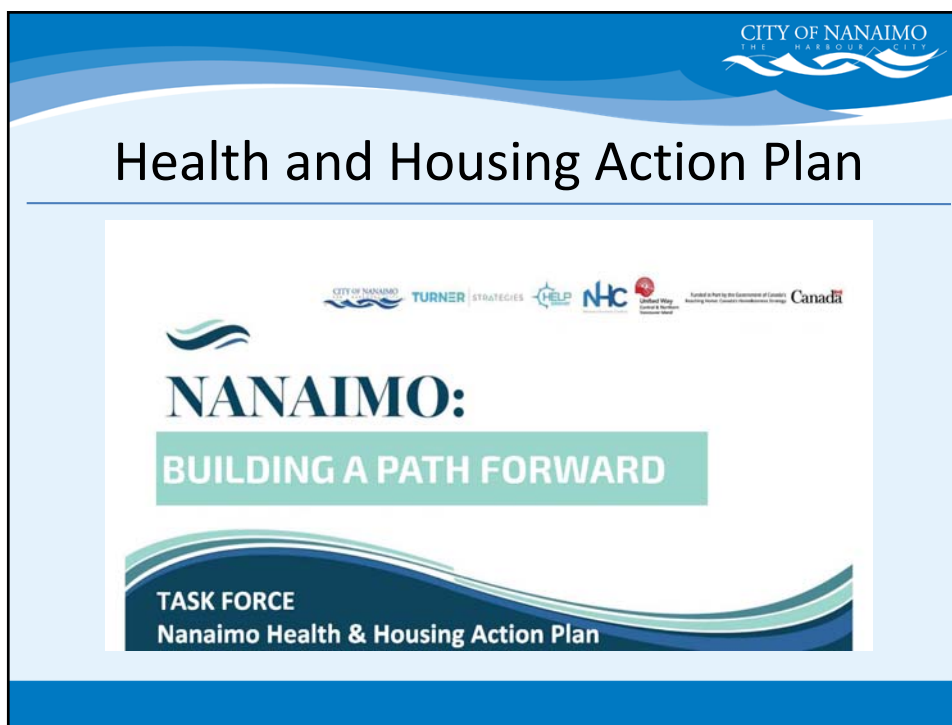
Community Development

CITY OF NANAIMO
THE HARBOUR CITY

COVID-19 Response

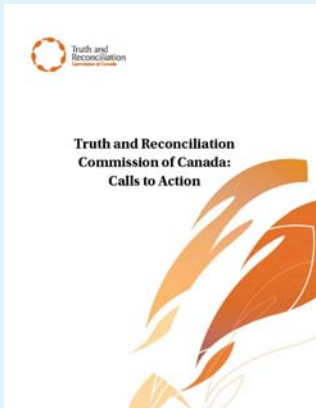


TEAMWORK



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THE HARBOR CITY


Truth and Reconciliation Commission's Call to Action #57 and the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP)



Truth and Reconciliation
Commission of Canada:
Calls to Action

CITY OF NANAIMO
THE HARBOR CITY


Animal Control Function Service Review



CITY OF NANAIMO
ANIMAL CONTROL
SERVICE REVIEW
REPORT

This Report has been prepared by Nelson Strategic Inc. for the City of Nanaimo. The document is prepared for discussion only, and for the sole use of the City. No representations of any kind are made by the report prior to any party with which the council does not have a contract.

NELSON
Nelson Strategic Inc.
2480 Westwood Drive, Kelowna, BC, V1Y 8K1
nelsonstrategic.ca
June 2020



**NANAIMO
ANIMAL
CONTROL**

1 Port Drive – Development Preparation

Complete:

- Geotechnical Study

In Progress:

- Environmental Investigation
- Servicing Study
- Confirm Front Street Bus Exchange Area
- Rezone Property

Not Started:

- Subdivide Property




Conference Centre Hotel Construction



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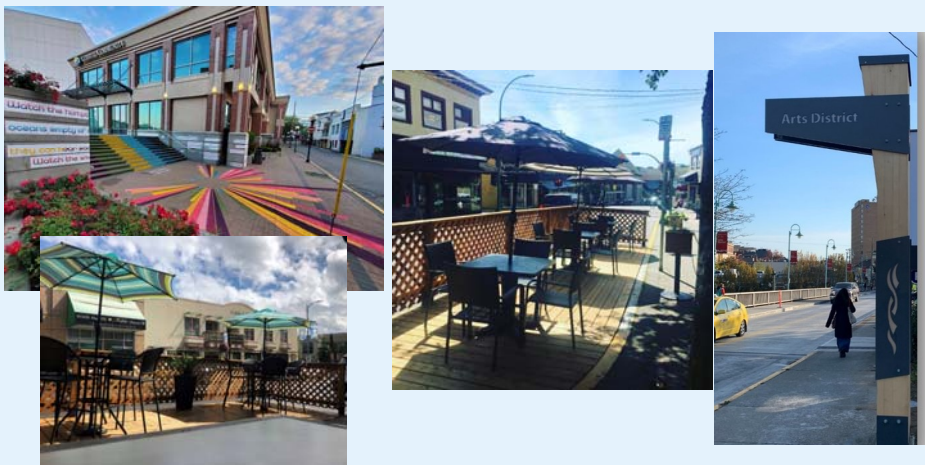
Waterfront Walkway Design



The left image shows a curved path along a beach with trees and a view of the water. The right image shows a straight path with a grassy median and people walking.

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THE HARBOUR CITY

Downtown Core



The top left image shows a building with a colorful mural. The bottom left image shows an outdoor seating area with umbrellas. The right image shows a street view with a sign for the Arts District.

Downtown Disorder and Security



Economic Development Task Force



ECONOMIC DEVELOPMENT STRATEGY

City of Nanaimo

Nanaimo Prosperity Agency
July 25, 2002

CORPORATION CHARTER

NAME:	Nanaimo Prosperity Agency Inc.
PURPOSE:	The Nanaimo Prosperity Agency is the economic development corporation through which business, government, First Nation, and community partners collaborate to build Nanaimo's economy, and increase the level of shared prosperity enjoyed by those who live here.
MANDATE:	The Nanaimo Prosperity Agency has the following responsibilities: <ul style="list-style-type: none"> to implement, maintain, and update as required the Nanaimo Economic Development Strategy; to develop and directly undertake initiatives aimed at attracting business, investment, talent, and investment to the community; to coordinate the sector specific and other economic development activities undertaken by a range of stakeholder organizations; to develop and directly undertake initiatives aimed at retaining and expanding existing businesses.
LEGAL STRUCTURE:	The Nanaimo Prosperity Agency is a City of Nanaimo local government corporation, created pursuant to section 335 of the Community Charter. The Agency is incorporated under the British Columbia Business Corporations Act, and is registered as a non-profit corporation under the Income Tax Act of Canada, through from paying income taxes.
SHAREHOLDERS:	The Nanaimo Prosperity Agency is jointly owned by the City of Nanaimo and the other governments and organizations, including (in alphabetical order): <ul style="list-style-type: none"> Nanaimo Chapter of Commerce Nanaimo Airport Commission Nanaimo Port Authority Squamish First Nation Vancouver Island University

NANAIMO PROSPERITY AGENCY
CORPORATION CHARTER

JULY 25, 2002
PAGE 1



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THE HARBOR CITY

2021 Opportunities

- Health and Housing Action Plan
- **REIMAGINE NANAIMO**
- Hospital Area Parking Plan
- Implementation of Animal Control Bylaw
- Bylaw Services Response to Social Disorder
- Real estate opportunities
- Waterfront Walkway expansion project
- Economic Development delivery launch
- Downtown Nanaimo Revitalization
- Business licensing and Permit Centre online platform

Our City, Our Voices.

Community Development



2021 Key Initiatives

<ul style="list-style-type: none"> • Revitalization of 1 Port Drive • 100 Gordon Street Hotel • Departure Bay Waterfront Walkway • Downtown initiatives • Property Management Strategy • Implement the Economic Development Strategy • Establish the External Economic Development Agency • REIMAGINE Nanaimo – Phase 2 • Implement Health and Housing Action Plan 	<ul style="list-style-type: none"> • Create external agency to deliver Social Planning • Implement Affordable Housing Strategy • Childcare Assessment with RDN • Bylaw Support for Downtown Parking and Events • Clean Team Support • Parking Permit Process • Animal Control Bylaw Update • Business Licensing for Short-Term Rentals
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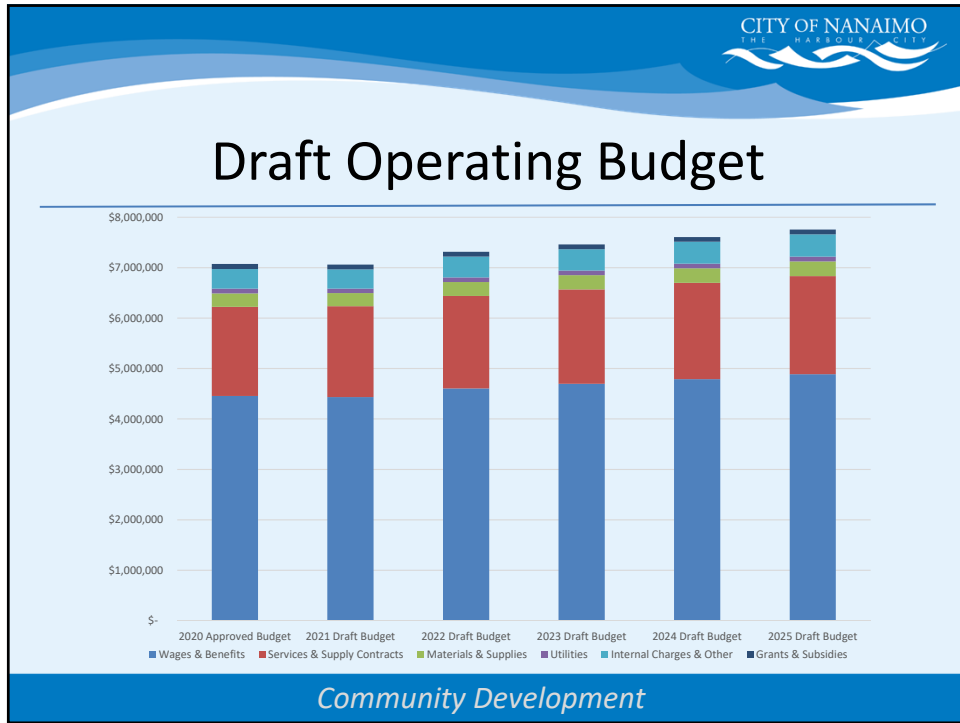
Community Development

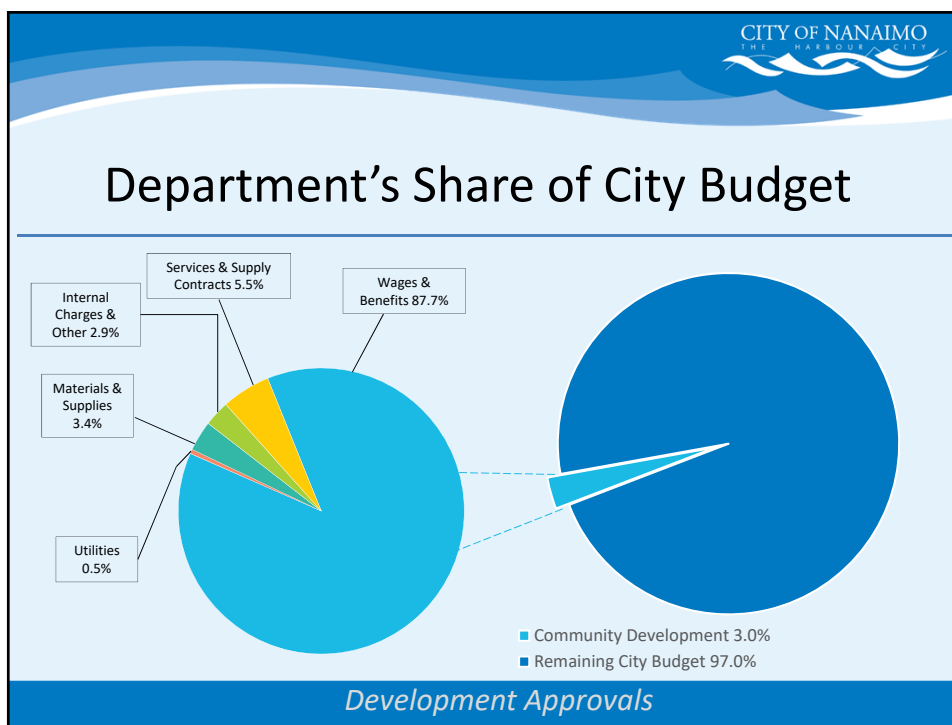


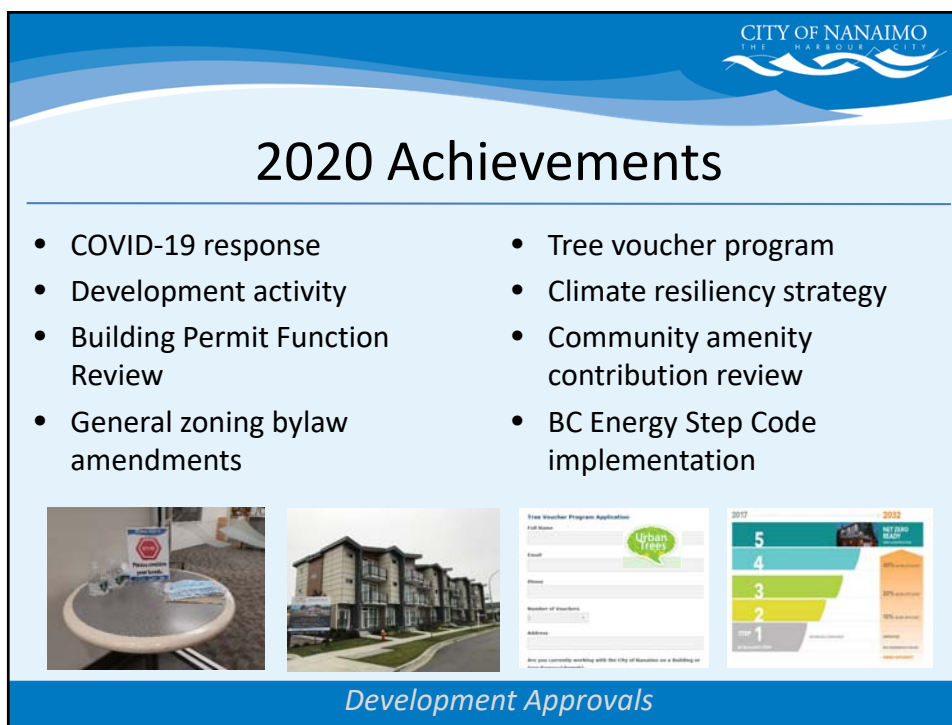
Business Cases Developed – Not Currently in Draft Budget

- Indigenous Engagement Specialist – as requested by Council
 - To better incorporate First Nations and urban Indigenous perspectives and ways of knowing into the City's work and decisions.
- Manager, Social Planning – as requested by Council
 - To oversee the implementation of the City's social planning responsibilities and increase staff capacity and availability to work on social planning issues
- Municipal Enforcement Officers
 - Change in schedule to move from 35 to 40 hour work week

Community Development







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THE HARBOR CITY

COVID-19 Response



Development Approvals

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Development Activity



Development Approvals

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Building Permit Function Review



Property & Development

Building Permits

Online Building Permit Application

Welcome to the City of Nanaimo's online Building Permit Application page. Here you can learn about how to use our new online building permit application system. This new application process is only for both Residential and Commercial Building Permit applications of all types.

FAQ: If this is your first online application, or you think you may need additional support, please refer to our first-time online application guide. Please refer to our first-time application process. If you are an experienced user, please refer to our first-time application process. If you are an experienced user, please refer to our first-time application process.

Contact Us

Development Services General Inquiries
250-753-4433
9 a.m. - 4:30 p.m.







Development Approvals

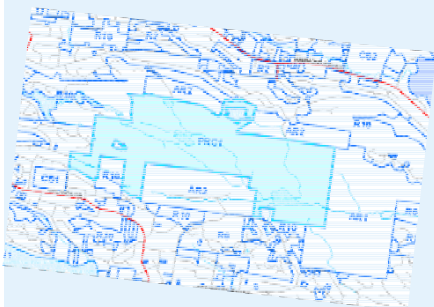
CITY OF NANAIMO
THE HARBOUR CITY

General Zoning Bylaw Amendments



Zoning Bylaw No. 4500





Development Approvals

CITY OF NANAIMO
THE HARBOR CITY

Tree Voucher Program

City Services

- Garbage & Recycling
- Home & Property**
 - Property Taxes
 - User Fees
 - Animals, Trees, & Gardens
 - Dog Licenses
 - Animals in the City
 - Tree Voucher Program**
 - Names of Local Trees
 - Home Tree Care
 - Seasonal Tree Care
- Change Your Address
- Damage/Injury Claims
- City Charges and Your Property Title
- Water & Sewage
- Emergency Services
- Online Services
- Cemetery Services
- City Services Directory

Home & Property / Animals, Trees, & Gardens / Tree Voucher Program

Tree Voucher Program

If you are a registered property owner in the City of Nanaimo, you can participate in our tree voucher program. This means you can purchase a tree to plant on your property for a reduced cost of \$25 each.

The Tree Voucher Program is now open. Use the form below to apply.

Past paper tree vouchers are now expired. [Fill out this form to request a new electronic voucher.](#)

Guidelines

- Must be a registered property owner in the City of Nanaimo;
- Property owners are limited to 2 vouchers per year;
- Not redeemable for cash;
- Redemption value not to exceed \$90.00;
- Vouchers are not eligible for shrubs, dwarf trees, annuals, perennials, standards, weeping varieties or other garden products;
- Vouchers are not to be used to fulfill Tree Removal or Building Permit Requirements;
- Valid until August 31, 2021.

Steps to Receive a Tree Voucher


- Apply for the voucher using the form below;
- Your application will be sent to a monitored email inbox;
- You will be contacted once your application has been reviewed and confirmed with payment options;
- Once payment has been received/processed, we will email you a voucher number and instructions to pick up your new tree.


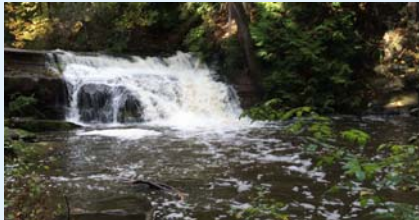


Development Approvals

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Climate Resiliency Strategy






Development Approvals

CITY OF NANAIMO
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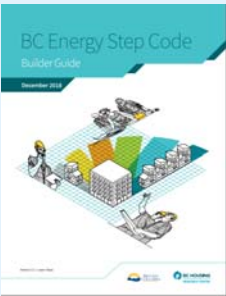
Community Amenity Contribution Review






Development Approvals

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BC Energy Step Code Implementation



Development Approvals

2021 Opportunities

- Staffing
- Building on pandemic response actions
- Change management



Development Approvals

2021 Key Initiatives

- Ecological diversity/restoration projects
- Stormwater management study at Howard Avenue/Seventh Street
- Natural asset inventory
- Bylaw Updates:
 - Subdivision Control Bylaw
 - Tree Management and Protection Bylaw
 - General Zoning Bylaw
 - Procedures Bylaw
- Public hearing procedures update

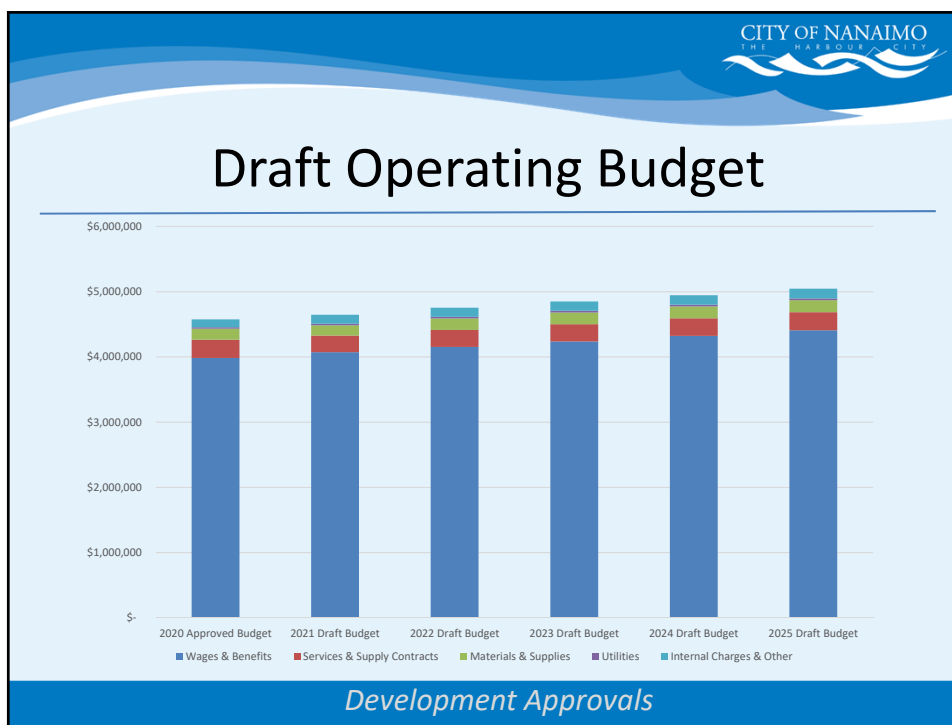
Development Approvals

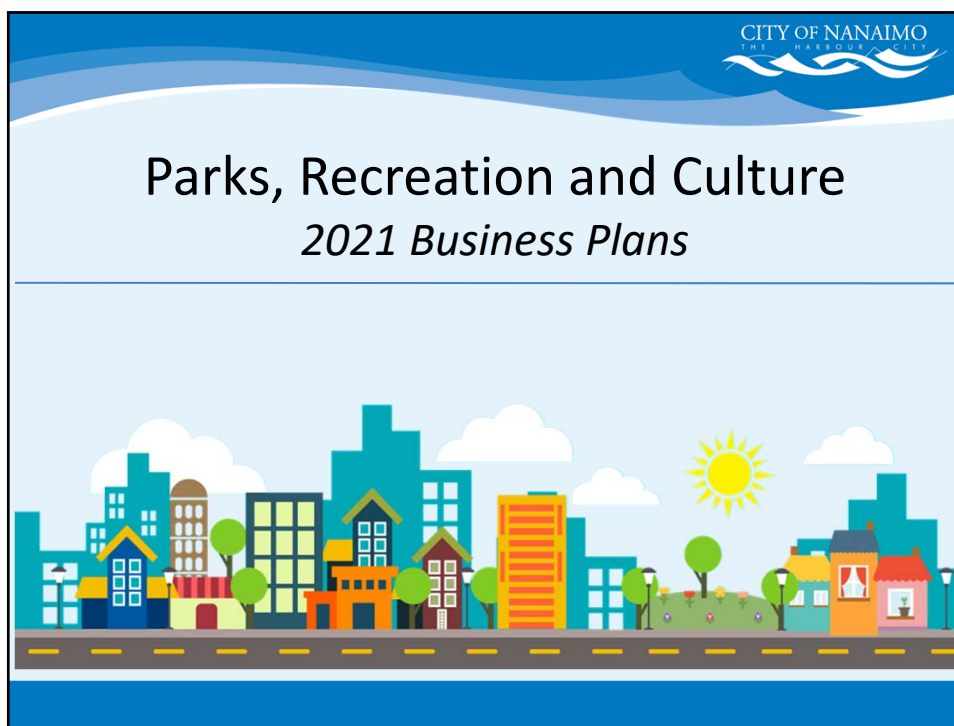
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Business Cases Developed - Not Currently in Draft Budget

- Annual Community Watercourse Restoration Grant – as requested by Council
 - To support environmental stewardship volunteers (both individuals and groups) who come forward with good ideas
- Manager, Sustainability – as requested by Council
 - Oversee the City's current climate change adaptation, mitigation and environment protection initiatives and fulfill the obligations of the BC Hydro Community Energy Manager Offer program (if City is successful in receiving funding).

Development Approvals





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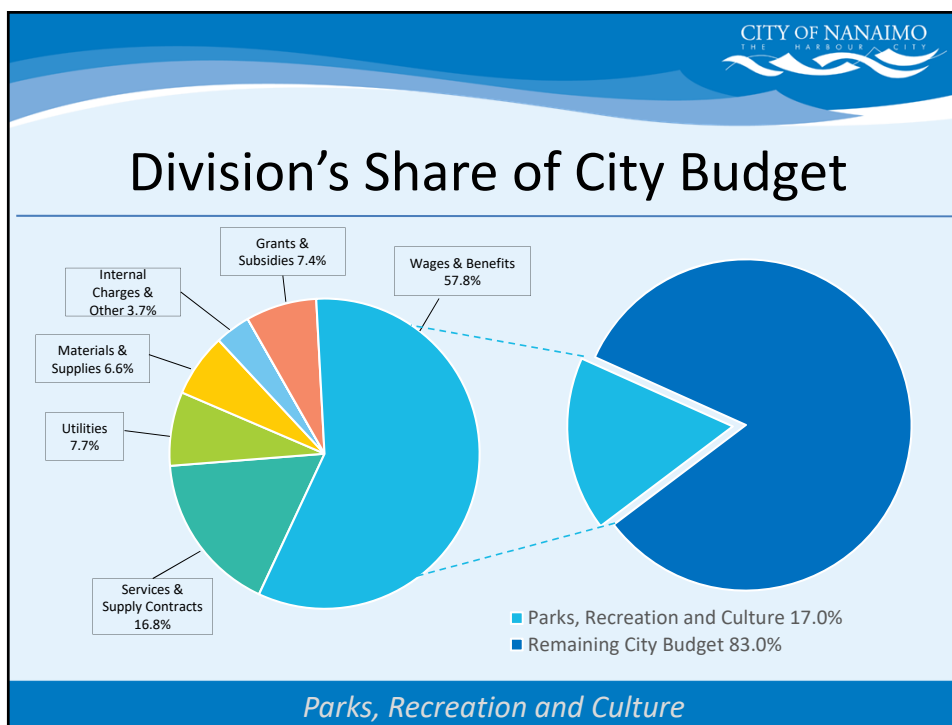
Overview

The Parks, Recreation and Culture division is divided into two departments:

- **Recreation and Culture Services** – Made up of Aquatics, Arenas, Recreation, and Culture Services (programs, special events and community development)
- **Facility and Parks Operations** – Operations, maintenance and planning for facilities, parks, trails, and outdoor amenities. Responsible for projects and planning under Asset Management, Energy Management, and Infrastructure Renewal



Parks, Recreation and Culture



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Parks, Recreation and Culture Master Plan

- PRC Master Plan is one of six plans being updated under the REIMAGINE Nanaimo Project
- Guiding document for the development of facilities, parks, and open spaces and the delivery of services that best meet the needs of the community
- Relies on public input from the community and stakeholders to identify community needs and wants



Parks, Recreation and Culture

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Recreation and Culture *2021 Business Plan*





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Recreation Services

Aquatics / Arenas / Recreation

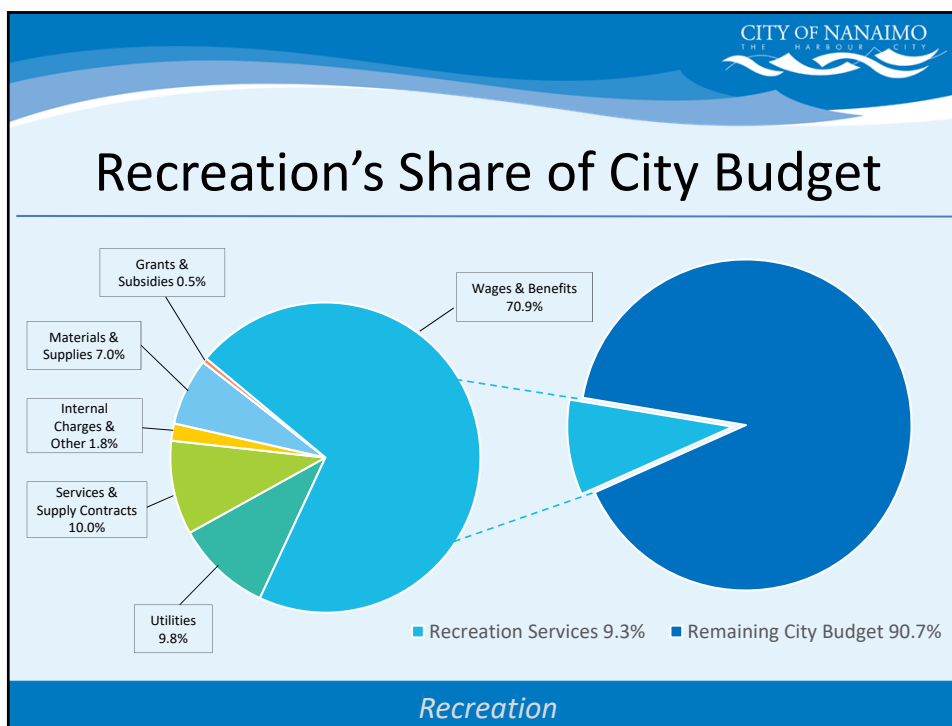
Operations of Beban Park, Bowen Park, Nanaimo Aquatic Centre, Nanaimo Ice Centre and Oliver Woods Community Centre.

- Amenities include 2 indoor pools, 2 fitness centres, 4 ice surfaces, 2 gymnasiums, conference/multi-purpose rooms, and 3 external facilities.
- Operations includes community programming, staffing, rentals, and ongoing facility maintenance.





Recreation



CITY OF NANAIMO
THE HARBOUR CITY

2020 Achievements

Response to COVID-19:

- **Redeployed Recreation Staff** to various positions across the organization
- **Adapted recreation programming** to Provincial Health Orders
- **Facilitated essential services events:** Weekly Farmers Market, Food Share Food Box Program, Blood Donor Clinics and childcare
- Maintained connection with 1,630 **Harbour City Seniors**
- Collaborated with competitive and recreational sport groups for **"Return to Sport"** in facilities.

- Developed successful Recreation Facilities **reopening strategies**
- Hosted and supported community partners for **adapted and virtual events:**
 - Virtual Canada Day
 - Park-It Challenge
 - National Drowning Prevention Week
 - Nanaimo Clippers Outdoor Movie Night
 - Loaves and Fishes Bottle Sorting
 - VIEX's "Taste of the Fair"




Recreation

2020 Achievements

- Operated Summer Camps at arenas and outdoors
- Outdoor programming for Adults
- Developed PFD Loan Program at Westwood Lake Park and Water Safety Education pilot
- Collaborated with the MCFD to integrate children with disabilities into summer camp programs
- Playground Program at 5 park locations through the summer
- Quest Leadership Program with a focus on environmental stewardship
- Story Walk at different park locations
- Worked with Advisory Committee Accessibility and Inclusiveness on various items



Recreation

2021 Opportunities

- Explore new ways to deliver programs, events and services
- Perform service delivery analysis and community need/desire assessments
- Focus on providing a healthy work environment and safe operations
- Enhance the Occupational Health and Safety program
- Collaborate to alleviate conflict between transient populations in the facilities and user groups
- Continue working with the Advisory Committee on Accessibility and Inclusiveness



Recreation

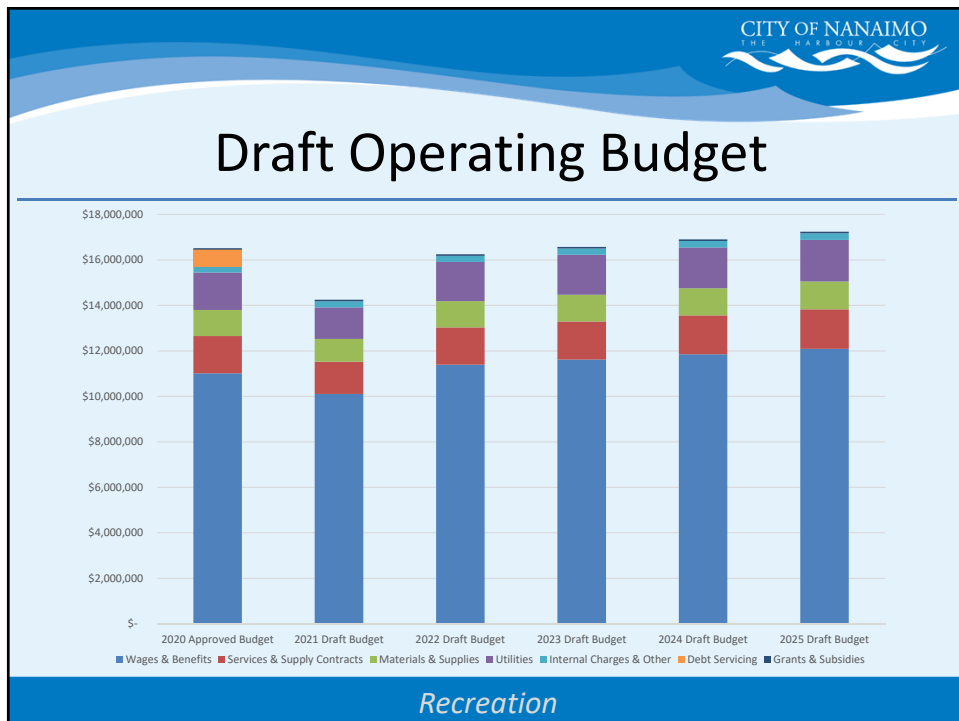


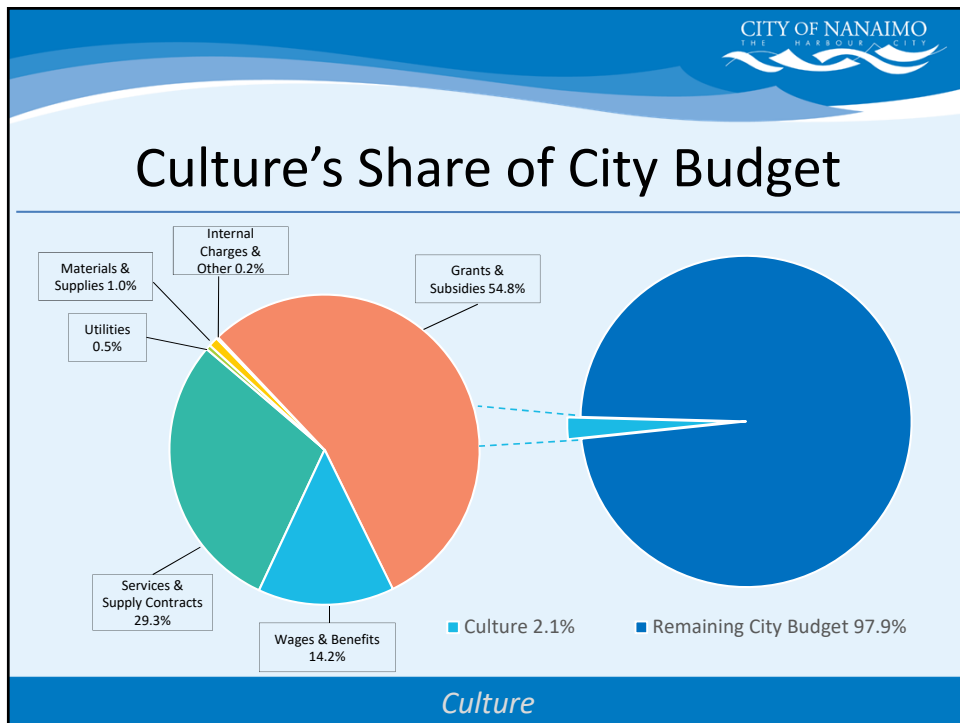
Key Initiatives for 2021

- Continued adaption of COVID-19 operating schedules, procedures, programs, and events
- Facilitate and support REIMAGINE Nanaimo project
- PerfectMind Reconfiguration
- LEAP Program Review
- User Fees and Charges Review and Implementation



Recreation





CITY OF NANAIMO
THE HARBOUR CITY

2020 Achievements

- Assessment & delivery of 45+ grants to community organizations
- Commissioning of new artwork:
 - “One Song” by Humanity in Art with Tina Biello
 - Artwork for Harewood Youth Park by Joel Good & Bracken Hanuse Corlett
 - New murals & banners installed at Beban Pool by Eliot White-Hill
 - Collaboration with Rotary Club on 2020 street banners with design by Amy Pye
- Creation of Love Arts Nanaimo e-newsletter
- Virtual Openings including photos and videos for:
 - Maffeo Sutton Park inclusive playground
 - Serauxmen Stadium field lighting
 - Harewood Youth Park
 - Rotary Centennial Garden



Culture

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THE HARBOUR CITY

2020 Achievements

- Installation of 9 artworks for the Temporary Art Program
- Collaboration with Youth Poet Laureate Valina Zanetti on “Be Kind to All Kinds” with the BCSPCA
- Adaptation to deliver “Concerts in the Park-ing Lot” series to seniors in care
- Delivery of 2020 Culture & Heritage Award Program
- REIMAGINE Nanaimo focus groups and project work



Culture

2021 Opportunities

- Evolve programs for effective delivery, meet community needs, align with City priorities:
 - Poet Laureate
 - Public Art
 - Grants
- Facilitate program of professional development and capacity building for local arts and culture organizations
- Dialogue, learning, and action on Reconciliation with partners
- Evolve public art programs
 - Review and improve processes and best practice
 - Enhance online inventory
 - Plan for maintenance
 - Enhance processes for art with developers
 - Collaboration with departments on capital projects



Culture

Key Initiatives for 2021

- Continue project work for REIMAGINE NANAIMO to update “Culture Plan for a Creative Nanaimo” & integration of cultural lens in other City plans
- Support organizations to safely deliver programs & activities in City facilities (indoor & outdoor)
- Review Culture grant programs and deliver on recommendations
- Researching, developing, and testing, new ways of delivering programs & strengthening partnerships




Culture

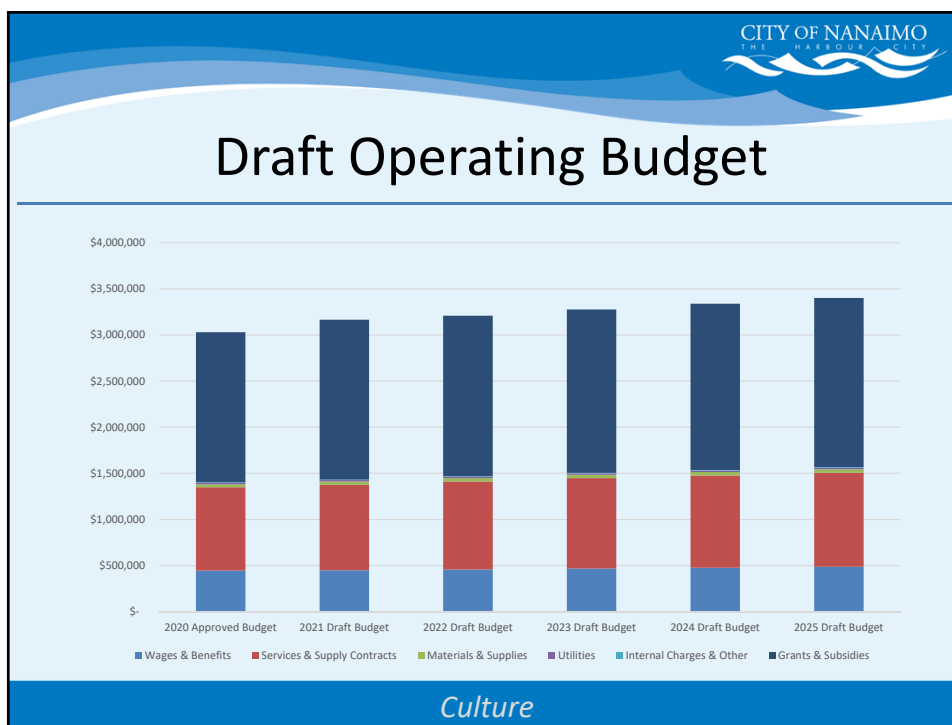
CITY OF NANAIMO
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Proposed Changes Included in Draft Budget

- Nanaimo Art Gallery Phase 3 – added by Council for deliberation
 - Annual increase to grant of \$50,000 for operations and \$10,000 for capital
 - One-time (2021) funding for feasibility study - \$25,000



Culture





Overview - Parks Operations

- Responsible for over 975 hectares of city-owned parkland. Area includes:
 - 180 km of multi-purpose trail
 - 74 Playgrounds
 - 29 sports fields & 3 artificial turf fields
 - 12 Dog Off-Leash Parks
- Sport venues available in parks include tennis, pickleball, lacrosse, sand volleyball courts, disc golf course, bike parks, skate parks, & mountain bike trails.
- In conjunction with Public Works, maintains boulevards, medians, and cemeteries.
- Over 70% of parkland is natural area, including urban forest and environmentally sensitive areas



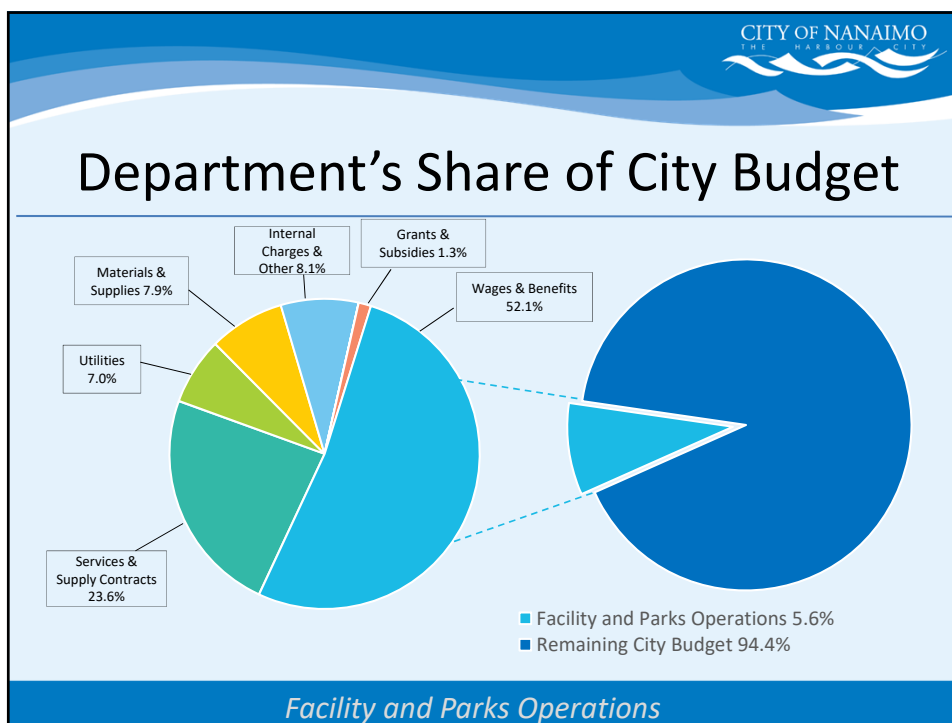
Facility and Parks Operations

Overview – Facility Operations

- Main focus of section is for PRC facilities, including operation, maintenance, repairs and upgrades.
- Provides support and maintenance for cultural, community and other civic facilities (including leased and co-managed).
- Responsible for Energy Management across the organization and Asset Management Plan for facilities.
- Assists with both short-term and long-term capital planning across the organization.
- Provides project management and project support for PRC, Bylaw, Nanaimo Fire Rescue, Public Works, Police Services and civic facilities.




Facility and Parks Operations



CITY OF NANAIMO
THE HARBOUR CITY

2020 Achievements

- COVID-19 response
 - Introduced Park Ambassadors program
 - In-house provision of services typically contracted out
 - Training and integration of redeployed recreation staff
 - Developed Safety Plans for Parks Ops work areas
 - Constructed outdoor patios for several restaurants downtown
 - Installed COVID screens in various work areas – recreation, NFR, etc.



Facility and Parks Operations

CITY OF NANAIMO
THE HARBOR CITY

2020 Achievements - Parks

- LED field lighting at Serauxmen Stadium
- Harewood Youth (skate) Park
- Maffeo Sutton Park Phase 1 playground
- Rotary Centennial Garden
- Brannen Lake Boat Launch repair and replacement
- Continued work on Parks GIS Asset Inventory
- Trail renewal and development:
 - Installed new signs for the "Great Trail"
 - Repaved 2km of the Parkway Trail
 - Construction of new stairs and boardwalks at Cottle Lake and Colliery Dam Parks
- Horticulture and Arboriculture:
 - Demonstration vegetable garden in Beban Park
 - Invasive plant species management at Linley Point Gyro Park and Departure Bay Creek
 - Parks trees assessment and management at Beban Participark and other areas
 - Riparian area re-planting along Chase River in Harewood Centennial Park



Facility and Parks Operations

CITY OF NANAIMO
THE HARBOR CITY

2020 Achievements - Parks

- Project work for REIMAGINE Nanaimo, including work on park plans for:
 - East Wellington Park
 - Linley Valley Park
 - Newly acquired 5-acre farm at Park Avenue
- Partners in Parks projects initiated:
 - Trumpeter Park
 - Holland Park
 - Barney Moriez Park
- Continued working with volunteers on invasive plant removals
- Remotely-controlled planes and drones pilot continued to 2021

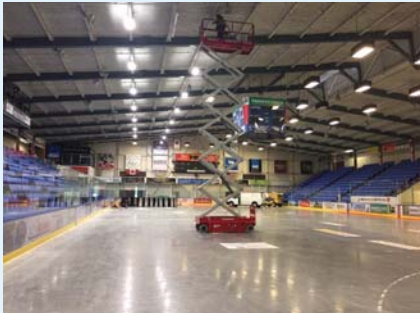


Facility and Parks Operations

CITY OF NANAIMO
THE HARBOR CITY

2020 Achievements - Facilities

- Heating Plant Studies completed at Nanaimo Aquatic Centre and Beban Park Complex
- Low Carbon Electrification Studies for units to be replaced including:
 - Oliver Woods Boiler
 - Beban Park air handling
 - Port Theatre chiller
- Port Theatre lighting study
- LED lighting upgrades for:
 - Oliver Woods Gymnasium
 - Frank Crane Arena
 - Beban Social Centre Auditorium
 - NAC Main Pool area
- Continued condition assessments of City-owned facilities, 20 completed so far.



Facility and Parks Operations

CITY OF NANAIMO
THE HARBOR CITY

2020 Achievements - Facilities

- Nanaimo Aquatic Centre upgrades, renewals and repairs, including:
 - Transition to liquid chlorine
 - Lobby floor refinished
 - Waterslides refinished
 - Boilers disassembled & refurbished
- Beban Pool upgrades, renewals and repairs, including:
 - Void detection investigation in main pool tank
 - Sauna renovated
 - Pool filter systems refurbished or replaced
- Repair of siding at Beban House
- Kin Pool – tank repainted and maintenance performed on pumps and boiler
- Removal of fire hall hose tower at Chase River Activity Centre, also roof repair and lighting upgrade




Facility and Parks Operations

2021 Opportunities - Parks

- Potential for a park asset maintenance management system
- Review of resources allocated to graffiti, vandalism, and garbage pickup
- Work on integration and collaboration on the corporate approach to trees and the Urban Forest and review impact of Climate Change on the Urban Forest
- Continue building the GIS database for assets to allow for renewal planning
- Explore new ways to engage with the public during pandemic conditions and study the impact of demand for outdoor amenities
- Continue to improve and enhance accessibility and inclusiveness in our park system



Facility and Parks Operations

2021 Opportunities - Facilities

- Formalization of long-term planning for both capital projects and preventative maintenance
- Preventative maintenance software for mechanical systems, integrating current GIS data
- Transfer of Facility Asset Management and Energy Management responsibility to Engineering Department
- Major update to Facility Asset Management Plan
- Development of a Facility Master Plan



Facility and Parks Operations

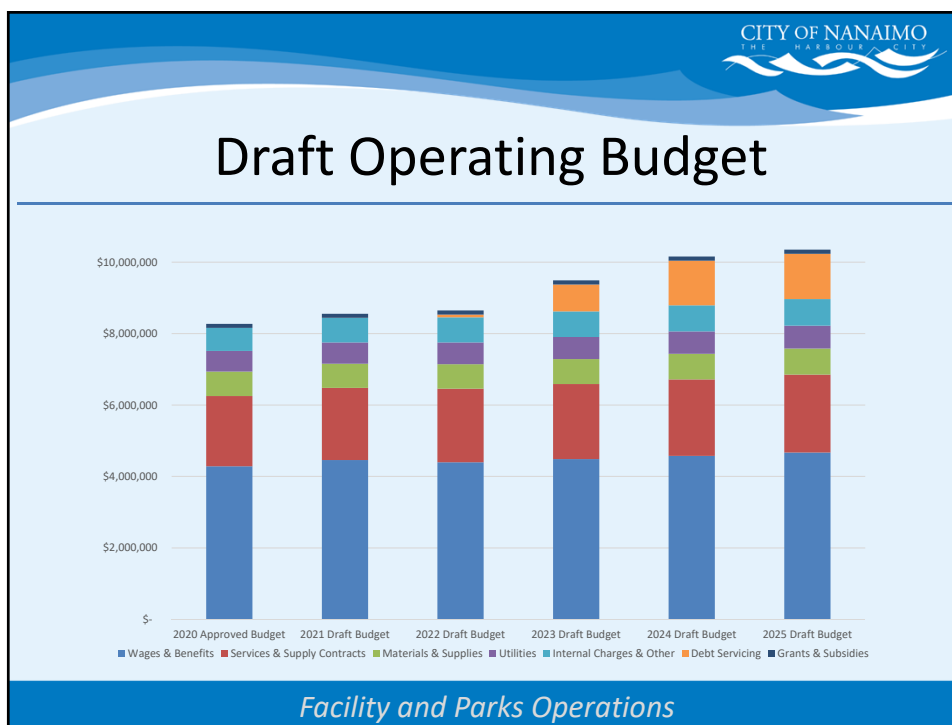
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Key Initiatives for 2021

- Review of Artificial Turf Maintenance
- Update the Horticulture Strategy
- Review of Section's response to security and social disorder.
- Continued participation in the REIMAGINE Nanaimo process
- Complete comprehensive work and budget plans for the Cross Connection Control Program in City of Nanaimo facilities
- Organize training for Pool Operators certification for aquatic staff
- Hold Ammonia Awareness training for staff working in and around City Arenas
- Continue work on implementing the multi-year Facilities and Park Amenities Condition Assessment Program



Facility and Parks Operations







The slide features the City of Nanaimo logo in the top right corner. The title 'Overview' is centered in a large, black, sans-serif font. Below the title is a horizontal line, followed by a bulleted list of services. To the right of the list is a photograph of a concrete bridge over a river with a waterfall. At the bottom of the slide is a blue banner with the text 'Engineering & Public Works' in white, italicized, sans-serif font.

- Integrated between Engineering and Public Works:
 - Administration
 - Transportation
 - Water Supply/Distribution
 - Sanitary Sewer
 - Drainage
- Provided by Public Works
 - Solid Waste Management
 - Fleet
 - Cemeteries
- Provided by Engineering
 - Infrastructure Planning
 - Capital Projects

CITY OF NANAIMO
THE HARBOR CITY

Engineering & Public Works

- COVID19 – Essential Services
 - Redeployed staff success!
- Asset Management
 - Corporate AM System
 - Update the plan
 - Facilities transition
- **REIMAGINE** Nanaimo
 - Active Transportation Plan
 - Water Supply Strategic Plan Update
- Recruitment



reimagine
NANAIMO

Our City, Our Voices.
GetInvolvedNanaimo.ca

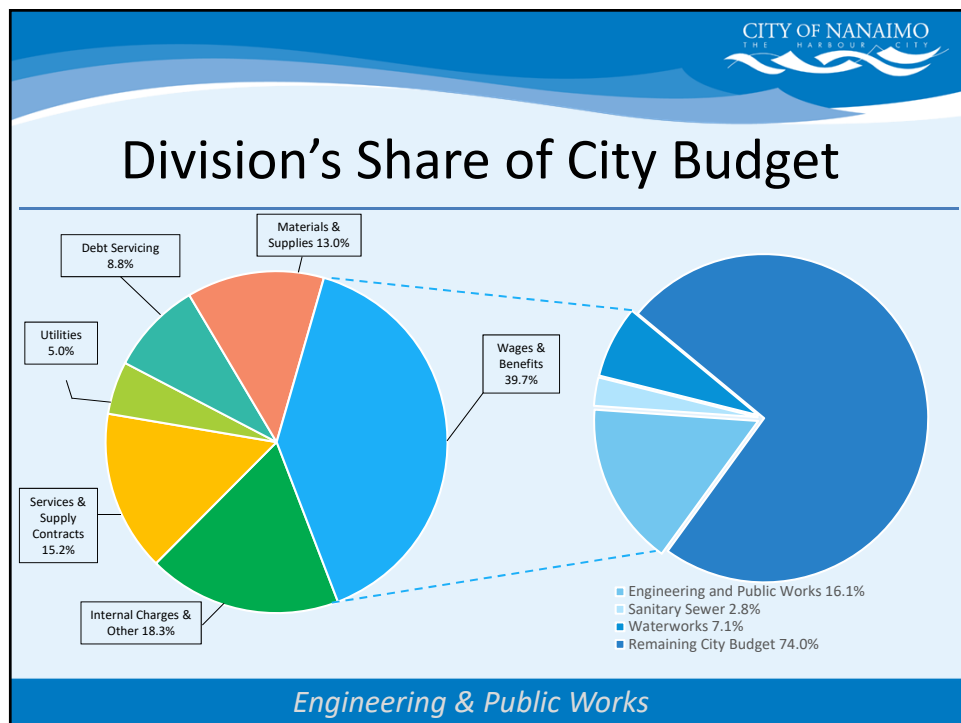
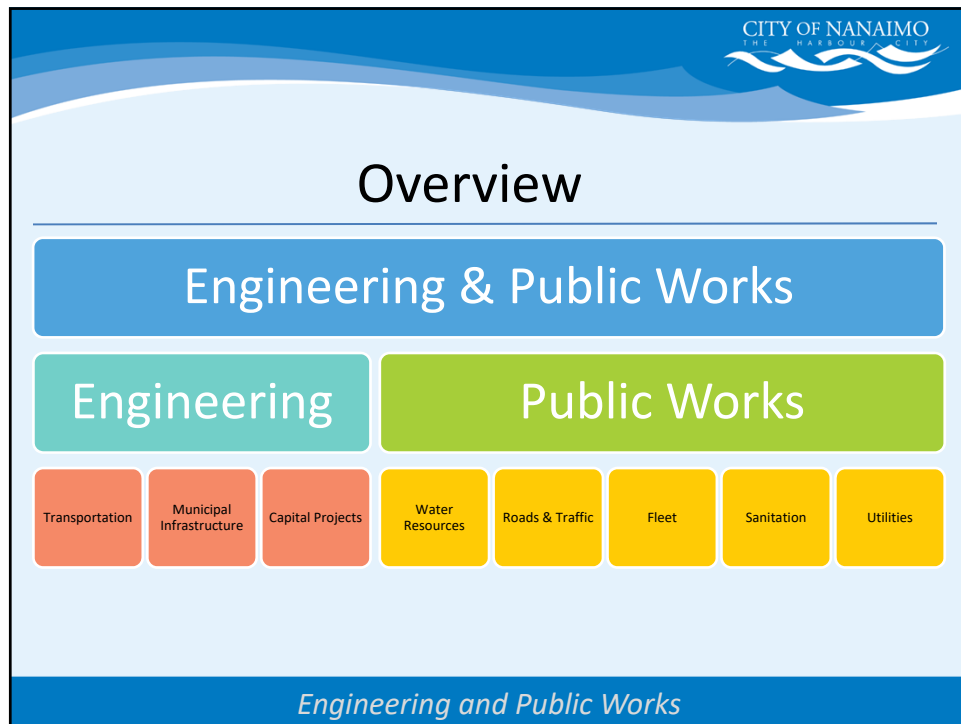
Engineering & Public Works

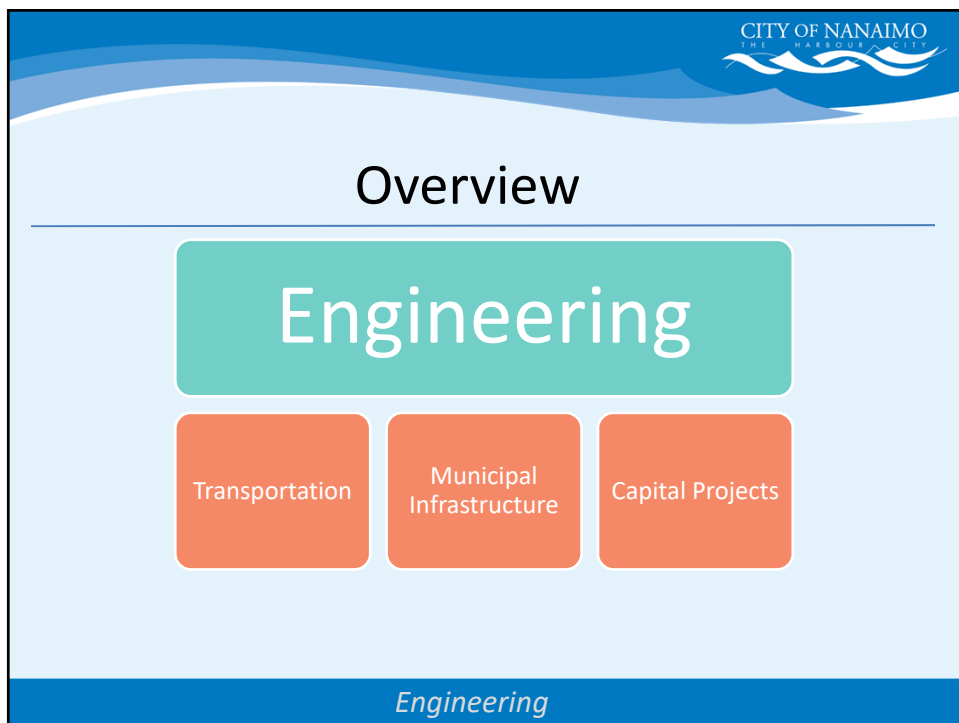
CITY OF NANAIMO
THE HARBOR CITY

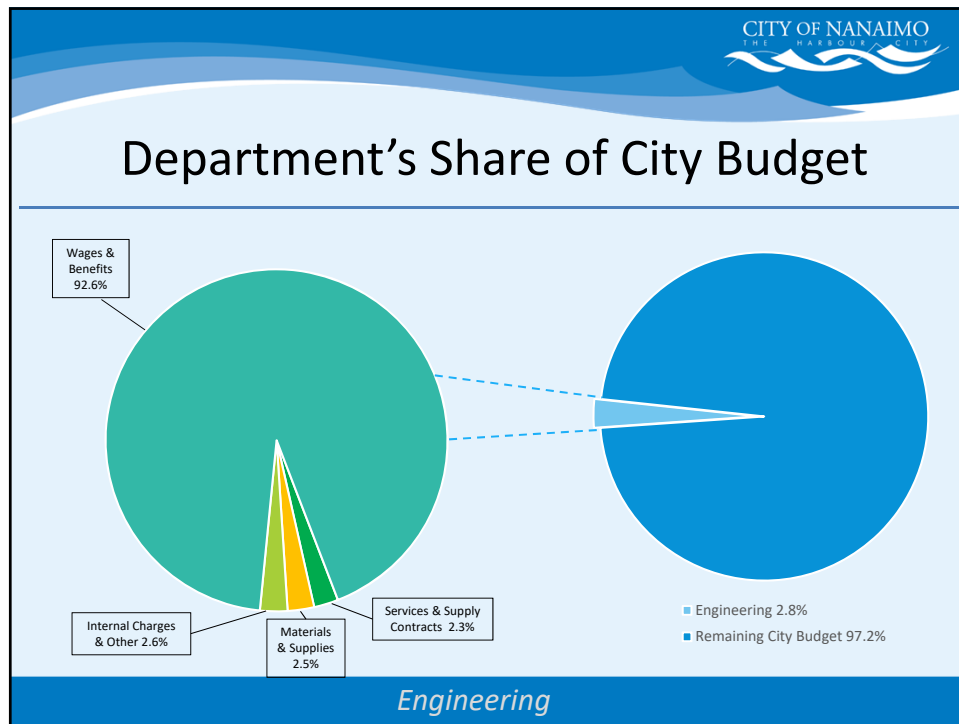
Sustainable Service Delivery A corporate effort!



Engineering & Public Works







CITY OF NANAIMO
THE HARBOUR CITY


Administration - Engineering

Notable Achievements

- COVID-19 response
- Over 200 permits processed YTD
- Self serve drawing retrieval system

2021 Opportunities and Initiatives

- Maintain high level of customer service

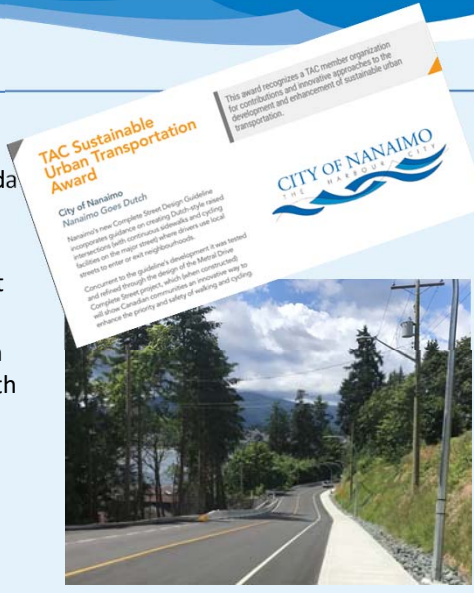


Engineering

Transportation

Notable Achievements

- Transportation Association of Canada Sustainable Urban Transportation Award
- Renewed over 49,000 m² of asphalt road surface
- Added 3.0 kms of bike lanes, 0.5 km of sidewalks, 0.9 km of multiuse path
- Enhanced 5 pedestrian crossings
- 4 traffic calming projects
- 72 development reviews YTD



Engineering

Transportation

2021 Opportunities and Initiatives

- COVID 19
- REIMAGINE (Active T!)
- Transportation web app
- Speed management
- Addressing changing trends
- Transit exchanges
- Level of Service Study





Engineering

CITY OF NANAIMO
THE HARBOUR CITY

Municipal Infrastructure

Notable Achievements

- MoESS, Edition No. 13
- City-wide water model
- 2 Utility Master Plan Studies, 1 Drainage Study
- 40km of sewer pipe and of 15km of drainage pipe assessed
- 72 Development reviews

Engineering

CITY OF NANAIMO
THE HARBOUR CITY

Municipal Infrastructure

2021 Opportunities and Initiatives

- Update CCTV Management Software system
- City-Wide Master Plan – water model
- Sanitary Sewer Master Plan - Brechin catchment
- Drainage Master Plan - Cottle Creek catchment.
- **Storm Water Utility** feasibility assessment

Engineering




Capital Projects

Notable Achievements

- COVID-19 response
- 18 construction tenders
- 33 active construction projects with value of \$40M
- Update to City's standard tender document



Engineering



Capital Projects

Major projects	
Started in 2019 and completed in 2020	<ul style="list-style-type: none"> • Bastion Bridge Seismic Upgrade • 7th Street Pumpstation & Forcemain • Hammond Bay Road Upgrades • Chase River Forcemain & Haliburton Street Road Upgrades
Started in 2020, completed or underway by the end of 2020	<ul style="list-style-type: none"> • Metral Drive Complete Streets Phase 1 • Millstone Trunk Sewer Replacement (Pryde Golf Course and Comox Road Sections) • Bowen Road Upgrades
Designed in 2020 and will start construction in 2021	<ul style="list-style-type: none"> • Front Street Rehab and Cycle Track • Metral Drive Complete Streets Phase 2 • Millstone Trunk Sewer Upgrades (Bowen Park & Pearson Bridge Sections)

Engineering

Delayed Projects

- Improvement in reducing delayed projects:
- 2018-2019 \$9 Million delayed
- 2019-2020 \$0.7 Million delayed
- 2020-2021 \$1.9 Million delayed

- Two projects cancelled:
 - Towers Reservoir \$4.5 to fund Mid Town Water Supply
 - Stewart Avenue \$1.5 M


Capital Projects

2021 Opportunities and Initiatives

- Professional Governance Act
- MoESS revision implementation




Engineering



Proposed Changes Included in Draft Budget

- Manager, Facility Assets – effective 2021
 - Approved as part of July 2019 reorganization and included in 2020 – 2024 Financial Plan

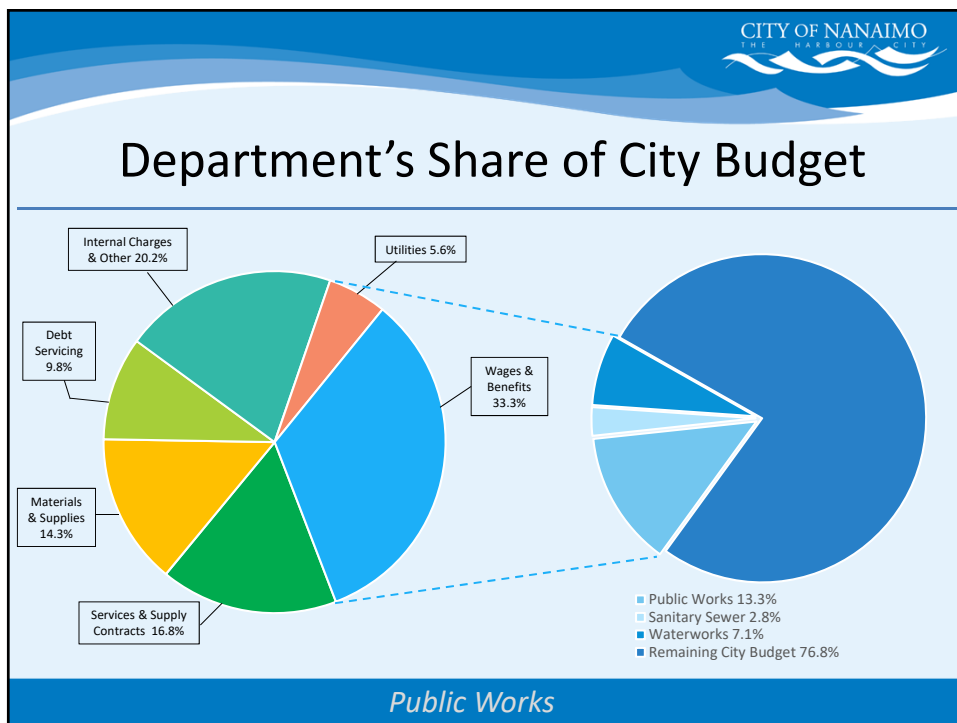
Engineering



Business Cases Developed - Not Currently in Draft Budget

- EBikes Rebates – as requested by Council
 - Annual grant program to provide rebates when an Ebike is purchased
- Municipal Services Inspector
 - To keep up with increasing developer and capital projects and to reduce costs of external consultants
- Project Engineer
 - To keep up with increasing level of renewal projects and to reduce cost of external consultants

Engineering



CITY OF NANAIMO
THE HARBOR CITY

Overview

Public Works

Water Resources

Roads & Traffic

Fleet

Sanitation

Utilities

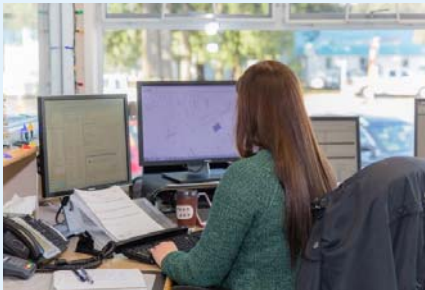
Public Works

CITY OF NANAIMO
THE HARBOR CITY

Administration

2020 Notable Achievements

- COVID-19 response
- 9,000+ Calls for Service including creating, dispatching and closing of related work orders
- Participation in Corporate Records Management project
- Participation in City Works implementation project



Public Works

Administration

- Administration of 24/7 security and after hours inquiries.
- Implementation and administration of online carts request and payment

2021 Opportunities and Initiatives

- Supporting curbside collection optimization plan
- Supporting City Works signage asset management program



Public Works

Roads and Traffic

Notable Achievements

- COVID-19 response
- Annual paving program
- Jingle Pot Rd rail crossing upgrade
- 100+ new bus stop signs
- Pothole and sidewalk repairs
- Sidewalk replacement and paving repairs following underground utility work
- Street banner program, Christmas decorations and Hub City Walls mural event
- Commercial and Bastion 4-way stop
- Traffic calming program support




Public Works

CITY OF NANAIMO
THE HARBOUR CITY

Roads and Traffic

2021 Opportunities and Initiatives

- Complete Streets Standards
- Road Rehabilitation Asset Management
- Rail Crossings and Cost
- Traffic Signal Technician
- Traffic Medians and Boulevard Maintenance
- Temporary infrastructure
- LED Streetlighting – BCH and City owned




Public Works

CITY OF NANAIMO
THE HARBOUR CITY

Opportunities and Initiatives

- Road Rehab along with Complete Streets
- Provide 24/7 snow & ice control and emergency response
- Review and assess road conditions after winter season
- New CityWorks CAMS implementation for Traffic Unit
- Support Transportation with traffic count program
- Coordination between Engineering and PW




Public Works

CITY OF NANAIMO
THE HARBOR CITY

Water Supply and Distribution

Notable Achievements

- Bowen Road water supply main break
- Water conservation (215 L/p/day)
- Cross Connection Control bylaw
- Emergency Water Pump Station
- Water Rates Bylaw review
- Towers Pump Station replacement
- Bulk water fill stations – projected revenue \$ 120,000
- Rock scaling and rip-rap at South Fork and Jump Creek Dams
- \$86,000 electricity revenue at Reservoir No. 1 Energy Recovery Facility
- 4 - Year South Fork Water Treatment Plant membrane age study with UBC




Public Works

CITY OF NANAIMO
THE HARBOR CITY

Water Supply and Distribution

2021 Opportunities and Initiatives

- Water Supply Capital Plan
- Aging Watermain Infrastructure
- Nanaimo River Flood Inundation Plan Update
- 13.9 billion litres of treated water produced per year
- Mid-Town Water Supply Upgrades
- Annual Dam Safety Inspections
- 24/7 Emergency Response



Public Works

CITY OF NANAIMO
THE HARBOR CITY

2021 Opportunities & Initiatives

- Water Supply Strategic Plan update in concert with **REIMAGINE** Nanaimo
- Mid-Town Water Supply Upgrades
- Annual Dam Safety Inspections
- Valve exercising equipment
- 24/7 Emergency Response to water distribution system




Public Works

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Sanitary Sewer

Notable Achievements

- COVID-19 response
- Annual sewer flow and rainfall monitoring program
- 39.6 km of sewer pipe inspected and assessed
- 105 service repairs/upgrades, 15 services replaced
- 130 kms flushed
- 53 development servicing reviews
- 27 subdivision servicing reviews
- Brookwood Pump Station



Public Works

2021 Opportunities and Initiatives

- New CCTV Van
- Updated CCTV Software
- Ongoing Inflow & Infiltration Reduction
- 24/7 Emergency response to sewer main & service issues
- Mobile Technology to record & display maps, dwgs and upgrades to sanitary sewer



Public Works

Rainwater (Drainage)

Notable Achievements

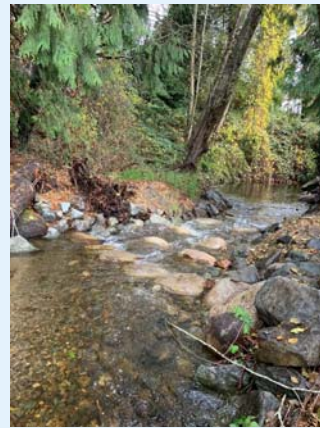
- COVID-19 response
- 14.9km of drainage pipe inspected and assessed
- Annual storm drainage monitoring program
- 8,820 catchbasins cleaned
- Departure Creek restoration
- Storm drain infrastructure inventory
- 104 m of failed corrugated steel pipe replaced



Public Works

2021 Opportunities and Initiatives

- Climate change
- Water Quality Testing at Swim beaches
- Environmental Regulations
- 24/7 Emergency Response to Storm Flooding Events & Oil Spills
- Storm Water Utility
- Mobile Data Collection Tools
- Ground Water Recharge



Public Works

Fleet

Notable Achievements

- COVID-19 response
- Procurement and deployment of 12 new vehicles
- Green Fleet Strategy
- Awarded Silver rating for E3Fleet (Energy, Environment, Excellence) Program
- 60 commercial vehicle inspections
- Space needs assessment

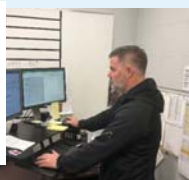


Public Works

2021 Opportunities and Initiatives



- Implement Fleet Asset Management System
- Refine Vehicle Replacement Plan
- Modify and streamline vehicle procurement process
- Green Fleet Strategy
- Develop preliminary design for new fleet shop
- Enhance security system at the entrance and perimeter of the Public Works yard



Public Works

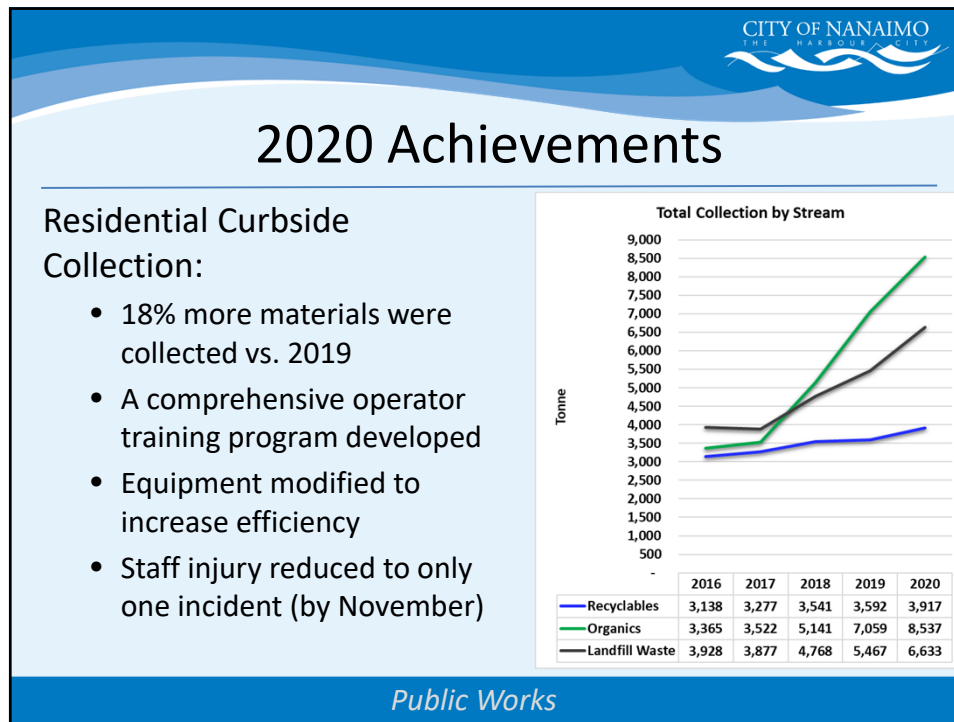
Solid Waste Management

Notable Achievements

- COVID-19 response
- Over 90% reduction in worker injuries
- Approx. 50% reduction in work orders
- Social Disorder Response Team
- Formalized Training Program for Drivers



Public Works



CITY OF NANAIMO
THE HARBOUR CITY

2020 Achievements

Waste Reduction

- Checkout Bag Regulation Bylaw No. B7283 approved.
- At Province for Ministerial sign-off



Public Works

CITY OF NANAIMO
THE HARBOUR CITY

2021 Opportunities and Initiatives

- Optimized collection program in January
- Conducting waste composition study (post pandemic)
- Waste reduction education campaign (post pandemic)
- Carts Inventory Management
- Enhanced public space cleanliness in summer
- Checkout Bag Regulation July.

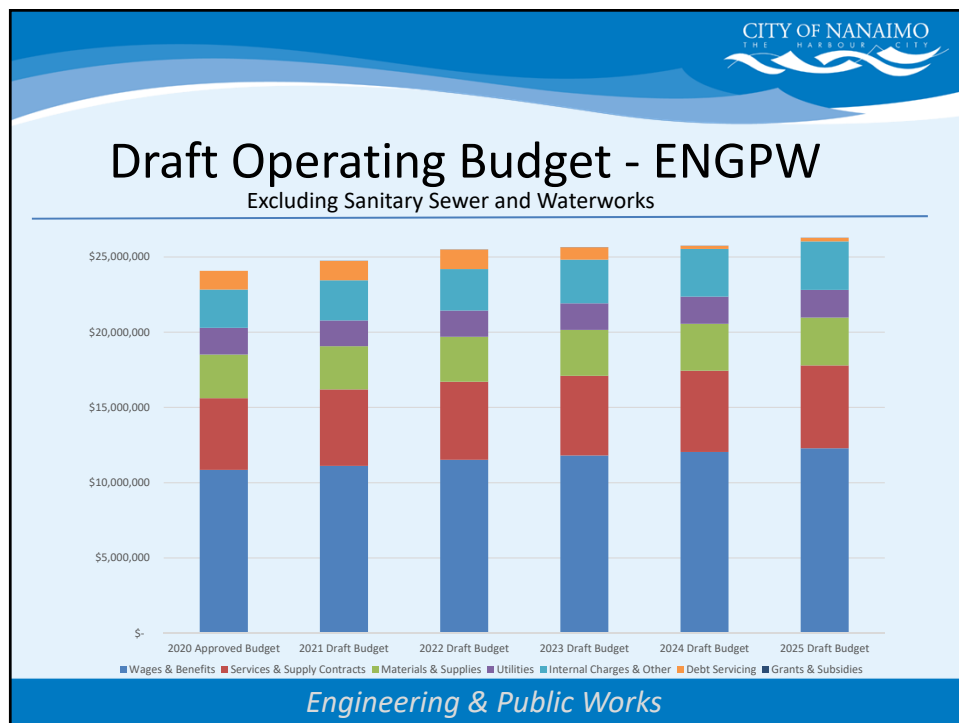
Public Works

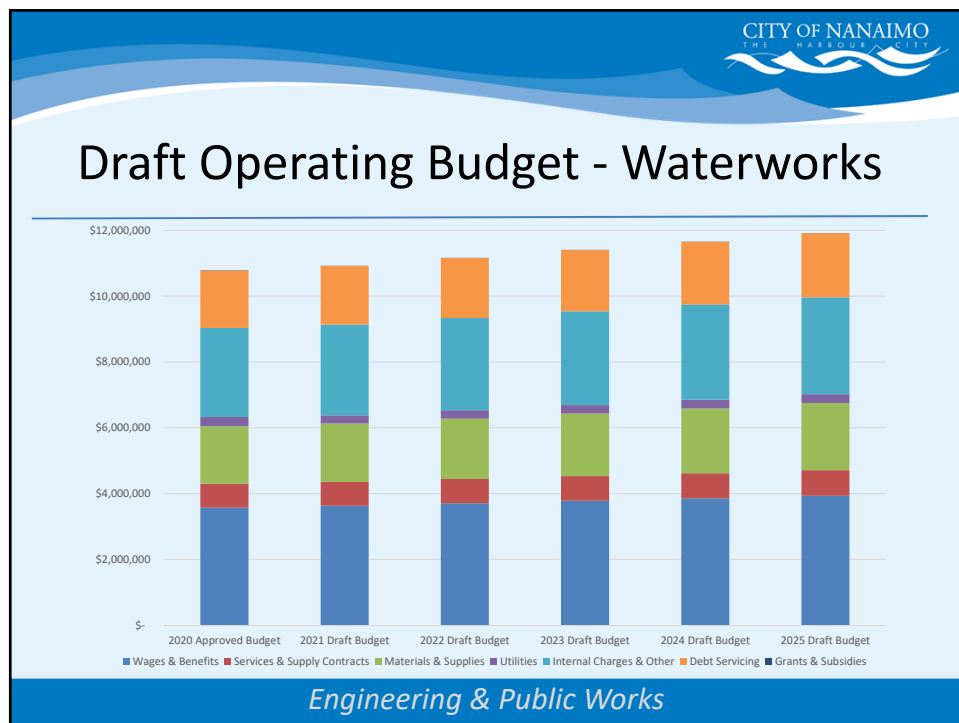
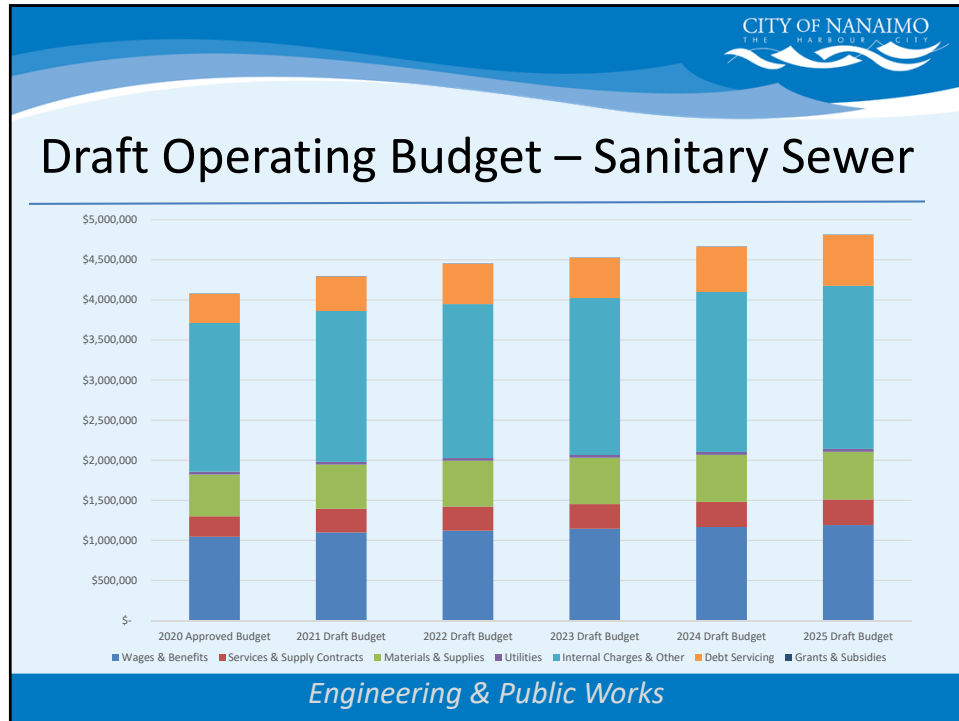
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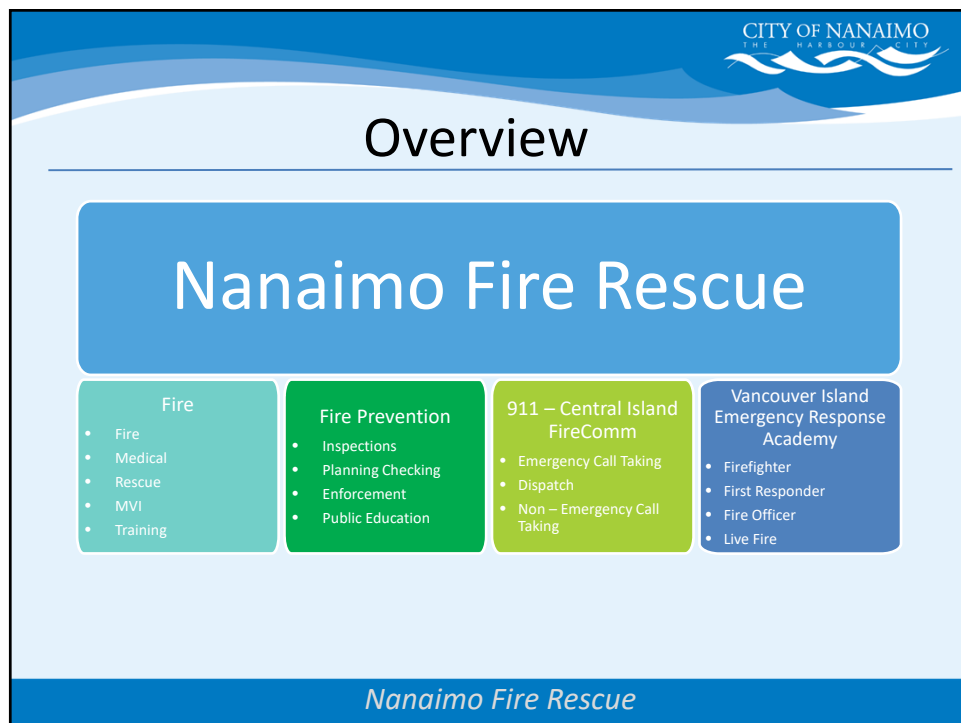
Business Cases Developed - Not Currently in Draft Budget

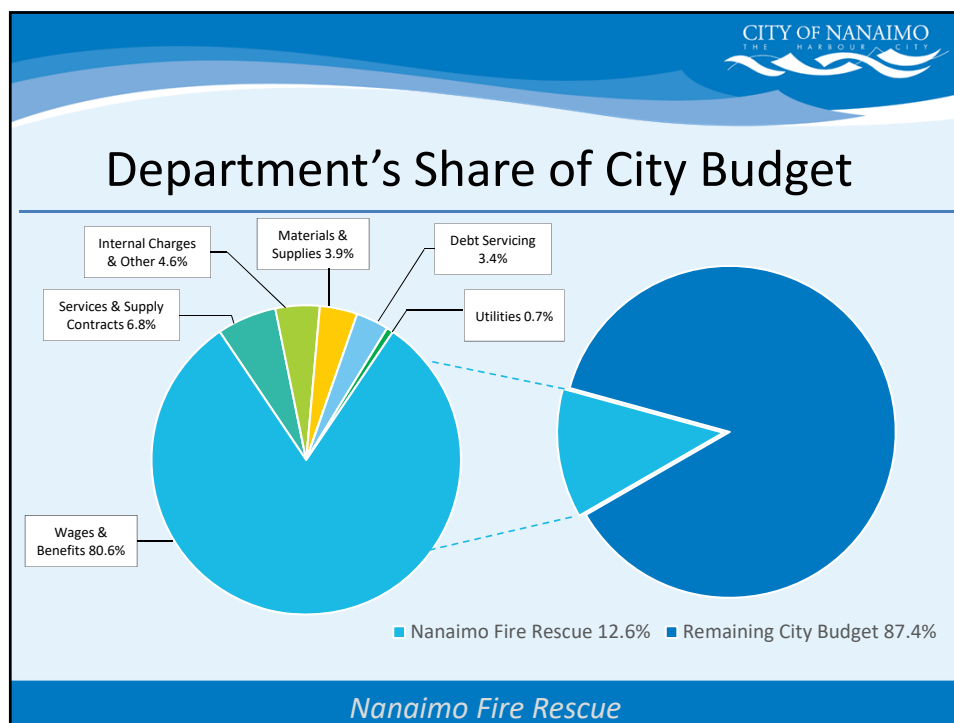
- Community Clean Team (formerly the Social Disorder Response Team)
Allow for the effective and efficient use of resources with a dedicated team focused on increasing the cleanliness of public spaces in downtown and parks and prevent accumulations of waste and growth of major encampments.

Public Works









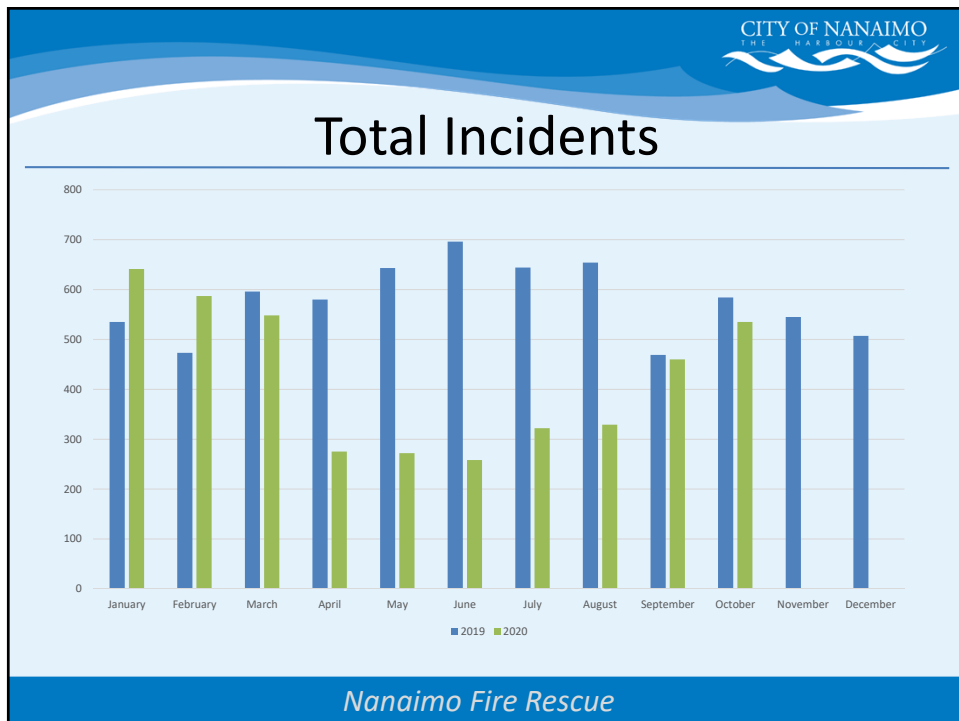
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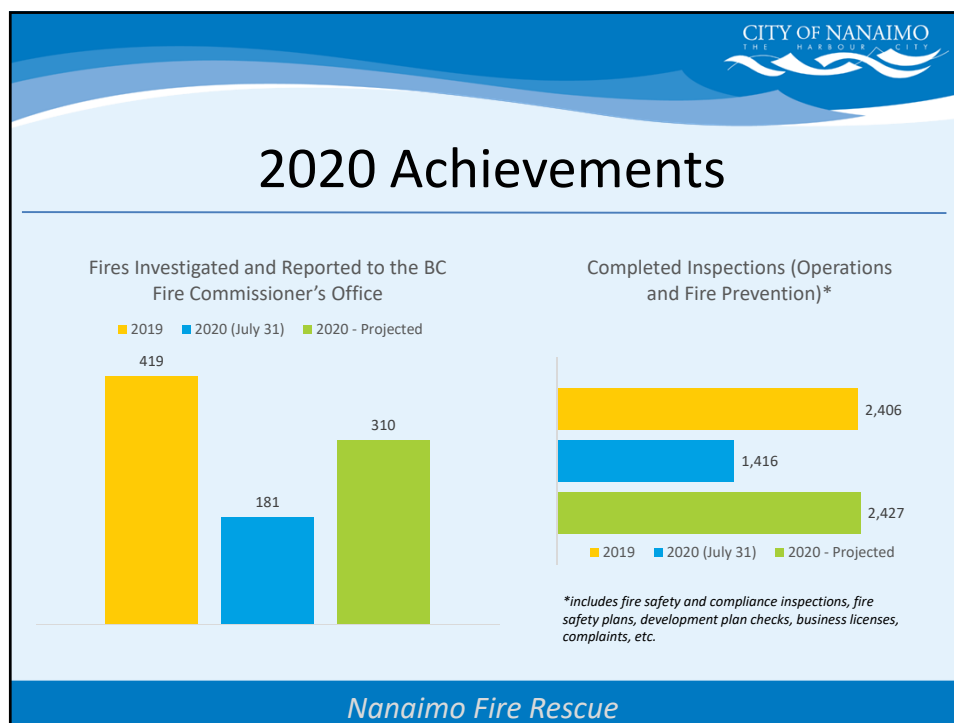
2020 Achievements

- COVID-19 response
- Training
 - Live fire
 - Mental health
 - EMR
 - Auto extrication
 - VIERA
- Next Generation 911 Requirements for Fire Dispatch needs analysis
- Fire Station #1 groundbreaking
- Fire Dept Master Plan
- Virtual ECC Wildland Operation Scenario
- Public Education & Outreach
 - Smoke Alarm Campaign & Installations
 - Bystander CPR
 - FireSmart
- Delivery of new fire ladder truck




Nanaimo Fire Rescue





CITY OF NANAIMO
THE HARBOR CITY

2021 Opportunities

- Strategic roadmap (Master Plan)
- Training (virtual where possible)
- Community outreach (where possible)
- High-rise/multi-family buildings
- Resourcing for increased fire inspections, plan approval compliance
- Fire Station #1 rebuild
- Fire safety for vulnerable populations

Nanaimo Fire Rescue



Fire Station #1 Project

- Construction is well underway
- Foundations are now complete
- Structure is starting to be erected (starting with concrete walls)
- Structural steel should be complete in January 2021
- Most subgrade utilities are in (rock breaking was required)




Site fencing and signage with piling rig



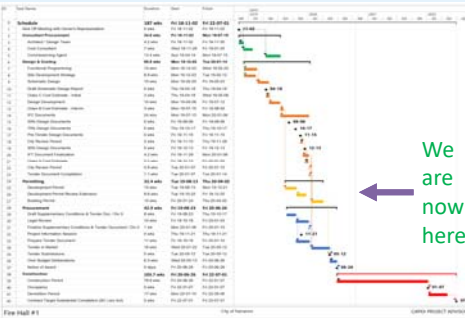
Hose tower reinforcement steel

Nanaimo Fire Rescue




Fire Station #1 Project

- The Construction Contract was awarded May 10, 2020
- Transition from the existing to new facility is currently anticipated to take place January 2022, following which the existing facility will be demolished and the front apron construction completed
- Avoided significant delays caused by below ground conditions



We
are
now
here



The Project will be completed on time in the Summer of 2022

Nanaimo Fire Rescue

Fire Station #1 Project

- A total of almost \$3m had been spent as of the end of September 2020
- Since the \$15.4m Construction Contract was awarded, a total of \$70k of construction contingency has been drawn down
- Scope changed to remove the dispatch function and add training/meeting room



Nanaimo Fire Rescue

2021 Key Initiatives

- | | |
|---|---|
| <ul style="list-style-type: none"> • Master Plan report • Contract negotiations • Transition public outreach to mobile application (smoke alarms) • Self-Contained Breathing Apparatus (SCBA) replacement • Build and delivery of two engines and one Wildland unit • Fire Station #1 rebuild • Transition Fire Dispatch | <ul style="list-style-type: none"> • Comply with changes to BC Fire Code, BC Building Code and Fire Safety Act • Mobile Inspections Initiative • Expand training program – mental health, auto extrication, live fire, etc. • Build upon successes to optimize response times • Community Outreach & Education on Fire Prevention and Community Safety |
|---|---|

Nanaimo Fire Rescue

