



**Cape Breton  
Regional Municipality**

# **General Capital 2022**



Municipalities own the core infrastructure assets that are critical to the quality of life of Canadians and the competitiveness of our country.

***“Municipalities own over 60% of the country’s infrastructure but collect just eight cents of every tax dollar paid in Canada, with the other 92 cents going to Federal, Provincial and Territorial Governments”***

- 1800 jobs generated per \$100million invested in infrastructure
- \$160million economic growth generated per \$100million invested

**Federation of Canadian Municipalities (FCM)  
Canada Infrastructure Report Card**





# Sydney Harbour West Wastewater Collection & Treatment

This project includes upgrades to the existing sewer collection system and the installation of a new trunk sewer, three new lift stations, wastewater treatment plant and a new outfall. Entering year four (fiscal 2022-23), the focus of the project this year will be the completion of the treatment plant, lift stations and outfall, and two new pump stations. Upgrades to existing lift stations will also occur and a tender call for the new outfall will be posted. This project is equally funded between the Province of Nova Scotia, Infrastructure Canada and CBRM. The funding program is the **Build Canada Fund – Provincial Territorial Infrastructure Component – National Regional Projects**. Should the project require the acquisition of land/or the creation of easements (example Nova Scotia Power), the process will be in compliance with the Municipal Government Act.

2018-19 Actual Expenditure	\$303,862
2019-20 Actual Expenditure	\$1,525,617
2020-21 Total Estimated Expenditure	\$4,313,549
2021-22 Total Estimated Expenditure	\$9,493,757
<b>2022-23 Total Estimated Expenditure</b>	<b>\$21,025,762</b>
2023-24 Total Estimated Expenditure	\$21,344,297

Funding Source	Amount	Percentage	Current Fiscal Breakdown Amount
Federal	\$19,335,708	33	\$7,008,587
Provincial	\$19,335,708	33	\$7,008,587
CBRM	\$19,335,708	33	\$7,008,587

**Program Total \$21,025,762**



## Wash Brook – Floodwater Intensity Mitigation Project

The purpose of this funding is to construct the **Gilhomes Lake Flow Control Structure** and **Pond 5 Flow Control Structures** which are part of CBCLs recommended flood reduction option number 15 established through the 2017 Wash Brook Flood Containment and Intensity Mitigation Project.

2019-20 actual expenditure	\$89,728
2020-21 projected expenditure	\$132,464
2021-22 estimated expenditure	\$158,684
<b>2022-2023 projected expenditure</b>	<b>\$1,925,881</b>

Funding Source	Amount	Percentage	Current Fiscal Breakdown Amount
Public Safety CA (DFA)	\$2,4000,000	96	\$1,828,846
Federal	\$100,000	4	\$97,035
CBRM	-	-	-

**Program Total \$1,925,881**



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# Wastewater Treatment Infrastructure Project (ICIP)

There are three core components to the Wastewater component to the CBRM Application under the "Investing in Canada Infrastructure Program" (ICIP) .

- a) design and construct the two high risk wastewater systems in Glace Bay and Port Morien,
- b) replace the Battery Point UV Disinfection System - COMPLETE
- c) installation of UV disinfection systems at four existing wastewater lagoons - COMPLETE

Federal Wastewater System Effluent Regulations (WSER) have been enforced since 2012. There is now an immediate need to address high-risk wastewater systems which have a compliance deadline of December 31<sup>st</sup> 2020. This deadline has passed, however CBRM must continue working towards the completion of these systems

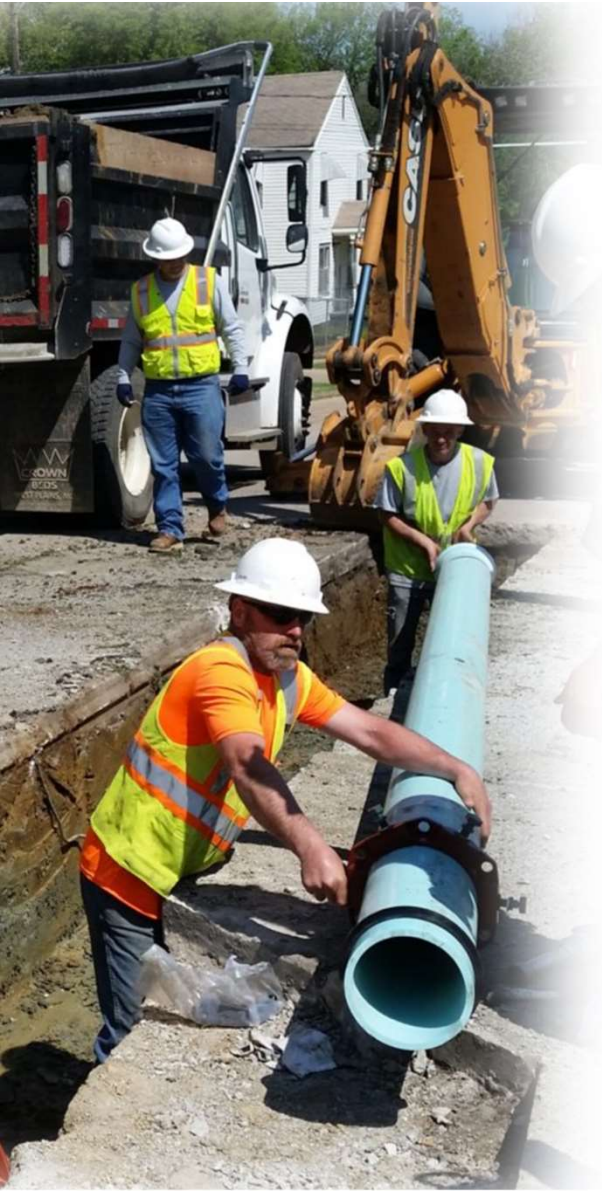
The total estimated project cost is \$97.9M and is expected to be completely delivered by March 2026. Infrastructure Canada and the Province of Nova Scotia have agreed to fund 100% of the total project cost, however the purchase of land is an ineligible expense under the funding guidelines, therefore CBRM will incur some expenses this fiscal year as noted in the table below. Should the project require the acquisition of land and /or the creation of easements (example: Nova Scotia Power), the process will be compliance with the Municipal Government Act.

2019-20 Actual Expenditure -	\$0
2020-21 Projected Estimated Expenditure -	\$4,712,339
2021-22 Total Estimated Expenditure -	\$5,867,357
<b>2022-23 Total Estimated Expenditure -</b>	<b>\$8,538,125</b>
2023-24 Total Estimated Expenditure -	\$35,000,379
2024-25 Total Estimated Expenditure -	\$27,514,553
2025-26 Total Estimated Expenditure -	\$16,262,820

Funding Source	Amount	Percentage	Current Fiscal Breakdown Amount
Canada	\$39,158,230	40	\$3,415,250
NS	\$58,737,344	60	\$5,122,875
<b>CBRM</b>	-	-	-

**Program Total \$8,538,125**





# Proposed Piped Infrastructure Projects (“ICIP”) 2022-2025

CBRM currently has 39 Piped Infrastructure Projects identified to constitute an application, should the Province approve funding for 2022-2025 under the ‘ICIP – Federal/Provincial Cost Share Program’.

This program is funded at 40% Federal, 33% Provincial & 27% CBRM for all eligible costs under the ‘Green Infrastructure Stream’

2022-2023 = \$7,324,000  
 2023-2024 = \$7,304,000  
 2024-2025 = \$7,765,000  
 2025-2026 = \$7,702,000

**Program Total \$30,095,000**

## Piped Infrastructure Projects 2022-2023

Prince Street (Inglis to Victoria)	Sydney	Waterline Replacement & Road Reconstruction
Forrest Street (Welton to Vulcan)	Sydney	Waterline Replacement & Road Reconstruction
Newbury Street (George to Rockdale)	Sydney	Waterline Replacement & Road Reconstruction
Alexander Street (Fraser to Churchill)	Sydney Mines	Waterline Replacement & Road Reconstruction
Dominion Street (Commercial to end)	Dominion	Waterline Replacement, Storm Sewer Installation & Road Reconstruction
David Street (Ingraham to Sydney)	Glace Bay	Waterline Replacement, Storm Sewer Installation & Road Reconstruction
Main Street Ph 1 (Pond Rd to Civic 1097)	Sydney Mines	Waterline Replacement, Storm Sewer Installation & Road Reconstruction
Atlantic Street (Hospital to Terrace)	Sydney	Waterline Replacement & Road Reconstruction
Wilson Avenue Ph1 (8 <sup>th</sup> to Gibbon)	New Waterford	Waterline Replacement & Road Reconstruction
Archibald Avenue (Cottage to end)	Sydney	Waterline Replacement & Road Reconstruction
Fletcher Street (Union to Yorke)	Glace Bay	Waterline Replacement & Road Reconstruction



# Proposed Piped Infrastructure (ICIP) - “Future” Years 2023-2025

## Piped Infrastructure Projects 2023-2025

### Central Division

George Street (Ph 2 of 3)	Sydney	Water, Storm, Road
Bay Street	Sydney	Box Culvert
Argyle Street (Ph 1 of 2)	Sydney	Box Culvert
Cossitt Street	Sydney	Water, Road
Sutherland Street	Sydney	Water, Road
George Street (Ph 3 of 3)	Sydney	Water, Storm, Road
South Bentinck	Sydney	Water, Road
St. Peter’s Road	Sydney	Water, Road
Bay Street	Sydney	Box Culvert
St. Albans Street	Sydney	Water, Road

### North Division

Main Street (Ph 2 of 2)	Sydney Mines	Water, Storm, Road
MacPhee Street	North Sydney	Water, Road
Vale Street	North Sydney	Water, Road
Peppett Street	North Sydney	Water, Road
Church Street	Sydney Mines	Water, Storm, Road
King Street	North Sydney	Water, Storm, Road

### East Division

Wilson Avenue (Phase 2)	New Waterford	Water, Storm, Road
MacAskill’s Dam Spillway	Tower Road	Water Spillway
First Street	Glance Bay	Water, Road
Douglas Street	Glance Bay	Water, Road
Dorchester Street	Glance Bay	Water, Road
Pleasant Street	Dominion	Water, Storm, Road
Water Storage Tank	Louisbourg	Water
York Street	Glance Bay	Box Culvert
Hudson Street	New Waterford	Water, Storm, Road
10 <sup>th</sup> Street	New Waterford	Water, Road
Hickman Street	Glance Bay	Box Culvert
Centre Avenue	Glance Bay	Water, Storm, Road



## Proposed Local Roads Paving - 2022

'Local Streets' have been, and we suspect will continue to be, CBRM's most pressing need in the foreseeable future as it pertains to roadwork.

CBRM has 191 local streets identified for rehabilitation at a cost of \$30.6 million. We are operating under the basic principal of "**worst first**" in formulating a cost effective and pragmatic work plan for the 2022 construction season.

Proposed Funding would allow for the rehabilitation of 34 Local Streets this construction season.

### Central Division

Forrest Street (Vulcan to Welton) c/w waterline  
 Bay Street (Fisher to French)  
 Henry Street (Gatacre to Kitchener)  
 Garden Street (Cabot to Royal)  
 Elmwood Street (Gatacre to end)  
 St. Anthony Drive (Alexandra to Civic #27)  
 Carol Crescent (Shendale to Civic #91)  
 McConnell Drive (Ainsley to Cul-de-Sac)  
 Cedar Court (Cottage to end)  
 Carleton Drive (Ranna to end)  
 Muller Lane (George to end)  
 Church Street (Victoria to school)  
 Dillon Street (Inglis to MacKenzie)  
 Hillside Street (Brookview to Lise)  
 Christopher Crescent (Civic #83 north to Cottage)  
 Oakville Street (Manse to Borden)

### East Division

David Street (Ingraham to Sydney) c/w waterline  
 Dominion Street (Commercial to end) c/w waterline  
 Alphonse Street (Melrose to end)  
 Maxie Court  
 Willow Street (Luke to end)  
 Wilson Avenue (St. Joseph to King)  
 11<sup>th</sup> Street (West to end)  
 Birch Street (Brookside to end)  
 Fenton Avenue (Mahon to Heelan)  
 Douglas Avenue (Dawe to Warren)  
 Munroe Lane (Main to end)

### North Division

Collins Drive (Musgrave to end)  
 Cartwright Street (Tobin to end)  
 Tutty Street (Church to end)  
 Jacob Street (Crescent to Convent)  
 Steele's Street (King to Caledonia)  
 Birchwood Drive (Waterview east to end)  
 Beacon Street (King to Caledonia)  
 Waterview Drive (Birchwood north to end)

Total	\$6,000,000
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## Proposed Collector Roads Paving - 2022

Collector Roads are the “*spine*” of the community which sustains our commercial, commuter, emergency response, tourist and social activity traffic needs. CBRM’s transportation road network includes major traffic routes (Primary and Secondary) designed to carry traffic through our larger urban centers & includes all the main arteries of CBRM’s transportation infrastructure.

The intent of this paving program is to extend the “service – life” of our road assets by employing both pavement preservation and full re-build construction methods.

CBRM has 61 Collector Roads identified for rehabilitation on our current list. We are operating under the principal of “worst –first” in formulating a cost effective and pragmatic work plan for 2022.

The 2022 program, will allow for the rehabilitation of 5 Collector Roads.

**Prince Street (Sydney)** - Road rebuild, pave c/w curb, sidewalk & waterline (Inglis to Victoria)

**Mitchell Avenue (Dominion)** – Road recap pave (Railway to town line)

**Dominion Street (Glace Bay)** – Road recap pave (Civic #181 to MacLeod) pending NSTIR Cost Share

**Main Street (Louisbourg)** – Road recap pave (MacMillan to Wolf) pending NSTIR Cost Share

**Queen Street (North Sydney)** – Road recap pave (Regent to Crescent)

Total	\$2,000,000
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## Proposed Gravel Roads Paving - 2021

There are 5 remaining **“fully listed”** Cape Breton Regional Municipality , *“Sub-Division”* roads (constructed post 1994) that reside outside the former municipal town units which require initial paving. These 5 gravel roads are located in Districts 2, 4, 7 & 8.

Lakeland Drive	Groves Point	District 2
Summerhill Drive	Coxheath	District 4
Barney Drive	Mira Road	District 7
Arbuckle Lane	Donkin	District 8
Paradise Road	Albert Bridge	District 8

Total	\$860,000
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## J Class Roads – Initial Paving

Since the early 2000's, CBRM has entered into a 50-50 cost share agreement with the province of Nova Scotia for the initial paving of "J-Class" roads that reside within CBRM. The CBRM selects and prioritizes the roads to be paved in the program. The road selection is based upon consultation with the District Councillor on a cycling basis, through each district which incorporates 'J-Class' roads.

CBRM is currently working from Council approved 2019 (Phase 6) list.



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## J Class Roads (Initial Paving Program) - "Phase 6" (2019)

District 12	Rhodena Drive (Victoria Mines) Kilkenny Lake Road (Victoria Mines)	Completed 2021 Completed 2020
District 3	MacDonald Road (Scotch Lake)	Completed 2020
District 4	Summerhill Drive (Deerfield) Trunk 4 Loop (Sydney River) Dobson Road (Westmount)	0.03 km Completed 2021 Completed 2020
District 7	Marbern Street (Howie Center) Lauren Lane (Howie Center) Seaview Drive (Gabus)	0.50 km Completed 2020 0.25 km
District 11	Guy Street (New Victoria)	Completed 2021
District 8	Franklyn Road (Catalone) Seaview Lane (Little Lorraine) Rosewood Heights (Mira)	0.26 km 0.25 km 0.40 km



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## J Class Roads (Initial Paving Program) - “Phase 7”

District 3	Watson Road (Point Edward)	.32 km
	Burton Drive (Blackett’s Lake)	.25 km
	Fairholm Close (George’s River)	.35 km
District 7	Marydale Drive (Grand Mira South)	.63 km
	Juniper Road (Grand Mira South)	.19 km
	Woodland Drive (Prime Brook)	.23 km
District 11	Livingston Road (Lingan)	.11 km

### Roads left to Complete Full Program

District 8	Kennedy’s Lane (Little Lorraine)	.24 km
	MacPherson Drive (Trout Brook Rd, Mira)	.39 km
District 7	MacLellan Avenue (Sydney Forks)	.14 km
	Sarah Drive (Howie Centre)	.13 km
	Alder Road (Dutch Brook)	.45 km
	Walker’s Lane (Caribou Marsh)	.15 km
	Gairloch Drive (Sydney Forks)	.16 km
	Sheiling Drive (Marian Bridge)	1.91 km

Provincial - \$1,500,000      CBRM - \$1,500,000

**Total      \$3,000,000**

*This completes the ‘J Class’ Roads list for CBRM*





# Proposed Sidewalks Renewals/Replacement - 2022

### East Division

- Dawe Avenue (SS) – Quarry to Douglas
- Wilhelmenia Street (ES) – MacVicar to end
- May Street (SS) – York to Union
- Ellsworth Avenue (ES) – Ling to Civic 3803
- 5<sup>th</sup> Street (SS) – West to Rail Street

### North Division

- Clifford Street (ES) – Brook to Margaret
- Perry Street (SS) – Peppett to Forman
- Purves Street (SS) – Ospry to CN Marine
- Connaught Street (SS) – Tobin to Wall
- Park Road (ES) – Crystal to TL Sullivan

### Central Division

- Legacy Street (NS) – Cabot to Columbia
- Webster Street (NS) – Victoria to end
- Henry Street (NS) – Summit to end
- Lisgard Street (SS) – Cabot to St. Peters
- Summitt Street (ES) – Mt. Pleasant to Bay
- Center Street (WS) – Royal to Rigby
- Fulton Avenue (SS) – Melrose to Wesmount
- Kenwood Drive (NS) – Malcolm to Conn

Total \$1,000,000

# Proposed Active Transportation Community Living- 2022

Active Transportation Plan to be completed mid 2022. A revised list of projects going forward will be identified and prioritized for funding applications.

Staff will continue to pursue funding for prioritized remaining projects from the existing plan.

Funding Source	Amount	Percentage
Federal	\$400,000	40
Provincial	\$333,333	33
CBRM	\$270,000	27

Total	\$1,000,000
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## Charlotte Street Revitalization 2022 - 2024

In 2017, CBRM Council, endorsed in principle a concept plan for revitalizing downtown Sydney prepared by the consulting firm Ekistics. The Plan recognized that in the near future Charlotte Street would require major infrastructure upgrades including new sub grade, asphalt, sidewalk/curb repairs, and a new water line. Ekistics recommended that in addition to these basic upgrades CBRM also reconfigure the street to create a more attractive, pedestrian friendly environment.

The streetscape elements will involve plaza width sidewalks (accent coloring), decorative light standards, garbage/recycle receptacles, bike racks, park benches, shrubbery planters, trees in Silvas cells & intersection bump-outs. Waterline replacement also forms a component of the project.

Project budget is **\$9,000,000**. The Atlantic Canada Opportunities Agency has approved \$3,000,000 (\$1,000,000 annually over 3 years) through its **“Coal Transition Fund”** program & the Provincial Government has also approved a \$3,000,000 Grant (\$1,000,000 annually over 3 years) being administered through “Develop Nova Scotia”. The final \$3,000,000 (\$1,000,000 annually) will form a component of the CBRM 2022, 2023 & 2024 Capital Budget ask.

The project construction schedule is based on a phased approach over 3 construction seasons beginning in April 2022. This first phase involves Dorchester to Pitt Street road segment.

Total Funding Breakdown			Current Fiscal Breakdown	
Funding Source	Amount	Percentage	Amount	
Federal	3,000,000	33	1,000,000	
Provincial	3,000,000	33	1,000,000	
CBRM General Capital	2,100,000	23	600,000	
CBRM Water Utility Capital	900,000	11	400,000	

Total \$3,000,000





# Louisbourg Fortress Downtown Development Phase 1

Recognizing the Fortress of Louisbourg (FOL) as a key tourism destination within the community of Louisbourg, the FOL Market Analysis report reveals census data of tourists who visited the Fortress in 2018 and the Fortress of Louisbourg Visitor Information Program, Draft Report released in October 2019 reviews visitor experiences from 740 people who visited the Fortress in summer 2019. CBRM and Develop Nova Scotia and key stakeholders are working together on plans moving forward.

**Street Network**  
 All traffic accessing the Louisbourg Centre and waterfront area will enter from Main Street via Harbourfront Crescent and exit through either Harbourfront Crescent or Mitchell Street. This is intended to promote waterfront access for both motorists and pedestrians, and to indicate the importance of the area and encourage motorists to make a turn. Harbourfront Crescent would be widened due to the heavier traffic volumes and presence of buses. A sidewalk would be provided on the west side of Harbourfront Crescent so pedestrians have a continuous corridor from Main Street to the boardwalk. Although Harbourfront Crescent would be signed as the main access point, Mitchell Street would provide a secondary access to the site for passenger vehicles. This widening will require property acquisition and utility pole relocations.

Funding Source	Amount	Percentage
Federal	\$520,000	40
Provincial	\$429,000	33
CBRM	\$351,000	27

**\*\* \$100,000 funded out of Operating Reserve from sale of Town Hall.**

**Total \$1,300,000**



## Sanitary Sewer Inflow & Infiltration Reduction

This is an annual program designed to improve our knowledge base and the condition of our municipal assets. Work under this program can include asset register building, asset management software and resource fees, and upgrades to existing underground assets.

To maximize productivity, this funding in part or full, could be used to leverage any available Provincial/Federal funding sources, should a suitable program become available throughout the fiscal year.

Funding Source	Amount	Percentage
Federal (Gas Tax)	\$450,000	100
NS	-	-
CBRM	-	-

**Program Total \$450,000**



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# Proposed Parks & Grounds Upgrades - 2022

- 1 *South Street & Jerry Marsh Sports Field*; Convert Lighting to LED - \$250,000
- 2 *Wentworth Park*; Gazebo Refurbishing & Railing Replacement - \$260,000
- 3 *Sydney River Tennis Courts*; Resurfacing - \$125,000
- 4 *Coxheath Recreation Park Tennis Courts*; Resurfacing - \$125,000
- 5 *Glace Bay Tennis Courts*: Resurfacing and replacement lighting - \$225,000
- 6 *Wentworth Park Fountain*; Aerators, & LED lighting - \$100,000
- 7 *Renwick Brook Park*; Bridge (2) Replacement (Funding application) - \$350,000  
Commercial St. Bridge \$150,000  
Replace Catherine St Bridge \$200,000
- 8 *Downtown Glace Bay*; Architectural Street Lighting Repairs - \$100,000
- 9 *"Queen Elizabeth Park"* & Port Morien Playground; Equipment Upgrade - \$100,000

Total \$1,510,000



# Proposed Parks & Grounds Operations - 2022

- 1. Commercial Street Park (Glance Bay); Replace Pavers - \$10,000
- 2. Argyle Street Playground; Climbing Structure Replacement - \$30,000
- 3. Floral Heights Playground; Climbing Structure Replacement - \$30,000
- 4. Jerry Marsh Memorial Ball Park (New Waterford); Drainage - \$15,000
- 5. Joe Burns Memorial Ballfield (New Waterford); Drainage - \$15,000
- 6. Queen Elizabeth Park Band Shell - Park Lighting Service - \$25,000
- 7. Glance Bay Tennis Building; Electrical Service Replacement - \$15,000
- 8. Brown Street Ballfield (Sydney Mines); Backstop & Fencing Repairs - \$40,000
- 9. Cantley Village Recreation Park; Culvert Replacement - \$40,000
- 10. Louisbourg Boardwalk Lighting - \$39,000
- 11. Pump track (funded 110,000) location TBA municipal contribution - \$40,000
- 12. Pickle ball court install (funded \$73,000) Louisa Gardens municipal share - \$12,000

Small projects planned to be completed under operational budget



## Proposed Buildings Upgrades - 2022

1	Parks & Grounds Shop Glace Bay; CO/NO2 Detection System	- \$75,000
2	Building Maintenance Shop; Compound Fence System.	- \$50,000
3	Police Central Building; Lock-up HVAC	- \$75,000
4	Civic Centre; Glazing (completing the final section of the main building)	- \$200,000
5	Glace Bay Fire Station; Exterior Cladding Replacement (Phase 2)	- \$200,000
6	Civic Centre Roof Top AHU's and Chiller (applying for federal energy funds)	- \$650,000
7	Northside Works Center; HVAC & Controls	- \$ 150,000
8	Transit Bus Shelter Improvements	- \$ 75,000
9	Energy upgrade investments (CBRM Wide)	- \$ 200,000

**Total \$1,675,000**

### Other capital requirements not funded

Central and North Police; Elevator Upgrades quote received	-\$ 310,000
LYCEUM (funding application in for Roof)	-\$ 750,000



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## Proposed Transit “Rolling Stock” - 2022

Provincial Grant	\$475,000
CBRM	\$875,000

Total	\$1,350,000
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# Proposed Transit “Electrification” - 2022

CBRM has been working together with Nova Scotia Department of Energy and with the Department of Municipal Affairs with respect to the move to Electrification of CBRM Transit and development of the CBRM Transit service. This project will be completed under a phased approach.

A submission for a CBRM Transit EV Maintenance Facility and Community Transit Hub was put forward through the 2020 call for applications under the Green Energy Stream for the Investing in Canada Infrastructure Program (ICIP).

This first phase includes the completion of Transit Service Calibration and Route Optimization studies, a comprehensive EV plan based on the routes identified as the best initial options for EV Buses, and options assessment for both the EV Bus Pilot and future Transit EV conversion plan. In addition, concept design work for the Proposed Transit EV Maintenance Facility and Community Transit Hub, site access, site concept design, community consultation and terminal concept design for site. The results and findings from this first phase will serve to inform a future funding application to the Investing in Canada Infrastructure Program (Phase II: Detailed Design and Construction). This program is funded at 40% Federal, 33% Provincial & 27% CBRM for all eligible costs under the ‘Green Energy Stream’

Funding Source	Amount	Percentage	Current Fiscal Breakdown Amount
Federal	\$360,000	40	\$180,000
Provincial	\$300,000	33	\$150,000
CBRM	\$240,000	27	\$120,000

Total \$450,000



## Proposed Fleet Replacement - 2022

<u>Division</u>	<u>Item</u>	<u>Cost</u>
East	Backhoe (2)	\$300,000
North, East, Central & Parks	1 Ton Truck (6)	\$600,000
East, Parks	¾ Ton Truck (3)	\$210,000
North, East, Central & Parks	½ Ton Trucks (8)	\$320,000
Parks & Grounds	Tractor	\$70,000
Water Utility	\$650,000	
CBRM	\$850,000	
<b>Total</b>	<b>\$1,500,000</b>	



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## Proposed Fire Services- 2022

1500 gal Used Tanker, Gabarus	\$300,000
Commercial Engine, Frenchvale	\$440,000
New Chassis/Rear Body Conversion	\$400,000
Air Compressor (1), Glace Bay	\$51,000

Total \$1,191,000



Prepared By  
Cape Breton  
Regional Municipality  
Engineering



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