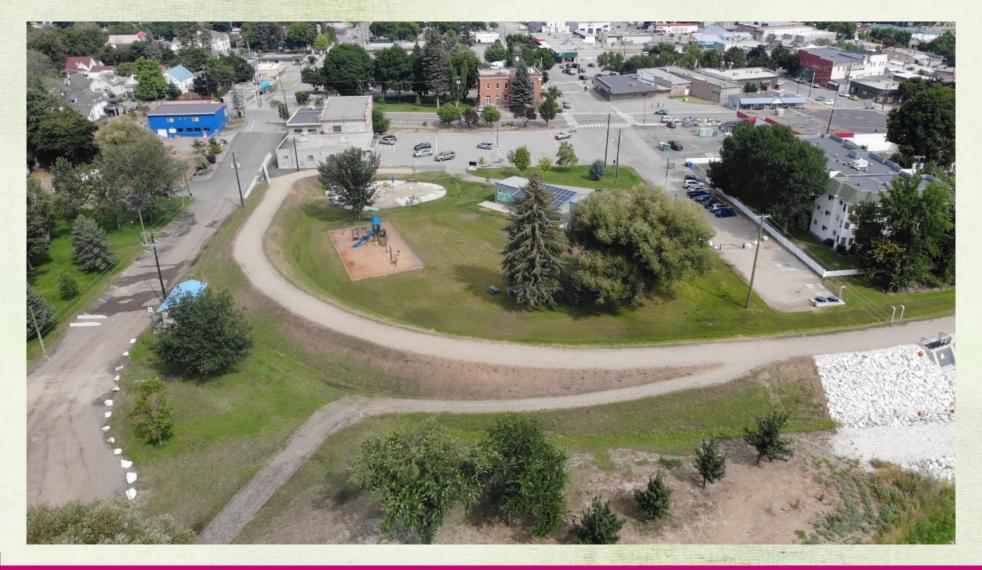
FLOOD MITIGATION / CAPITAL PROJECTS UPDATE: JANUARY 2025





PRESENTATION OUTLINE

- 2024 Flood Mitigation Recap
- South Ruckle (WP3) Status Update
- South Ruckle Permitting Update
- South Ruckle Draft Detailed Design Drawings
- FMP Costs to Date
- FMP Capital Plan
- Updates on other Capital Projects
- 2025 Communication Plan







WP1 - CITY PARK - JANUARY 2024





WP1 - CITY PARK - AUGUST 2024







WP1 - CITY PARK - 2024 CONSTRUCTION









WP1 - STORMWATER SYSTEM - JANUARY 2024





WP1 - STORMWATER SYSTEM - MARCH 7,2024







WP1 - STORMWATER SYSTEM - 2024 CONSTRUCTION

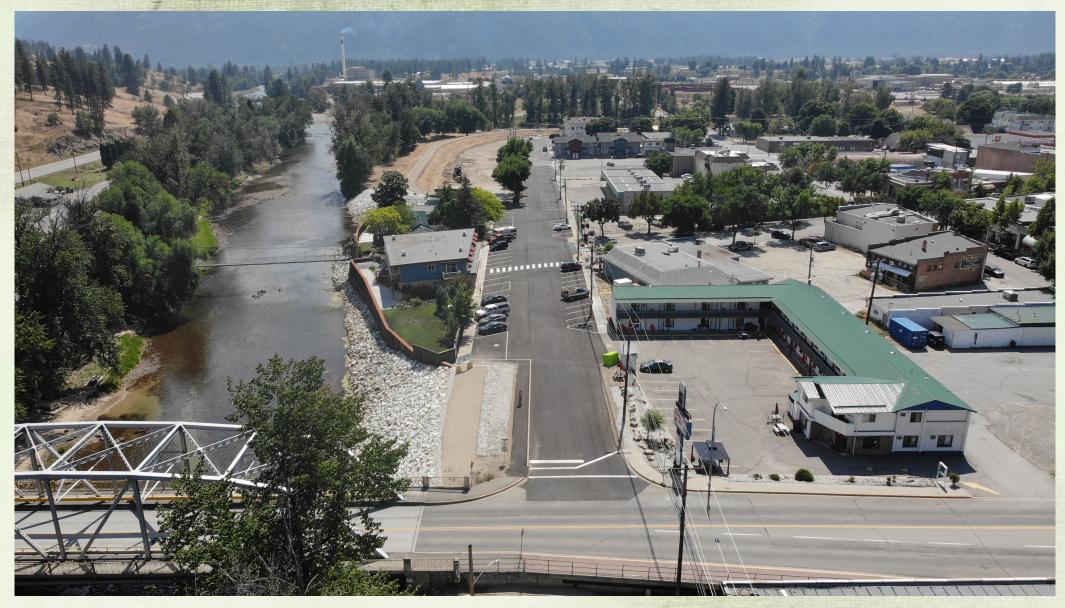








WP1 - RIVERSIDE DRIVE - JANUARY 2024





WP1 - RIVERSIDE DRIVE - AUGUST 2024



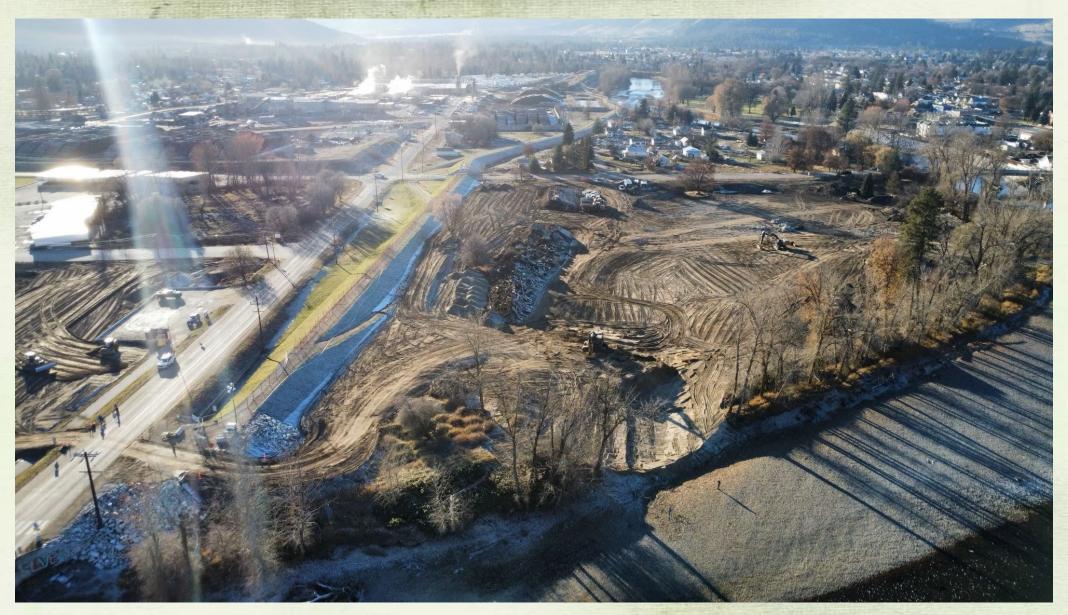




WP1 - RIVERSIDE DRIVE - 2024 CONSTRUCTION









WP7 - HABITAT CHANNEL- LATE 2023





WP7 - HABITAT CHANNEL - AUGUST 2024



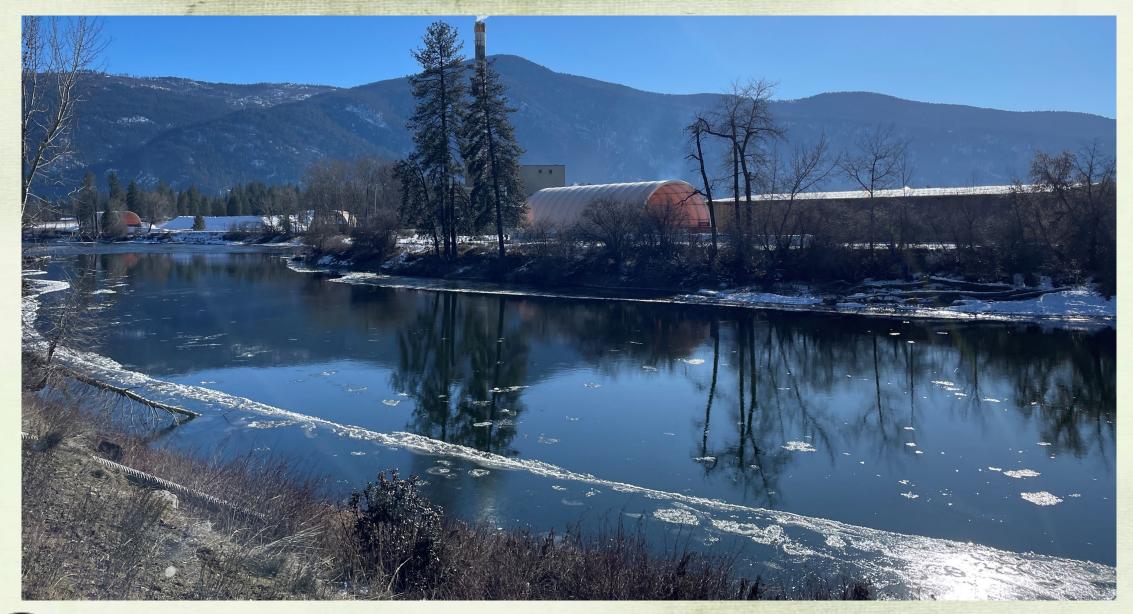




WP7 - HABITAT CHANNEL - 2024 CONSTRUCTION

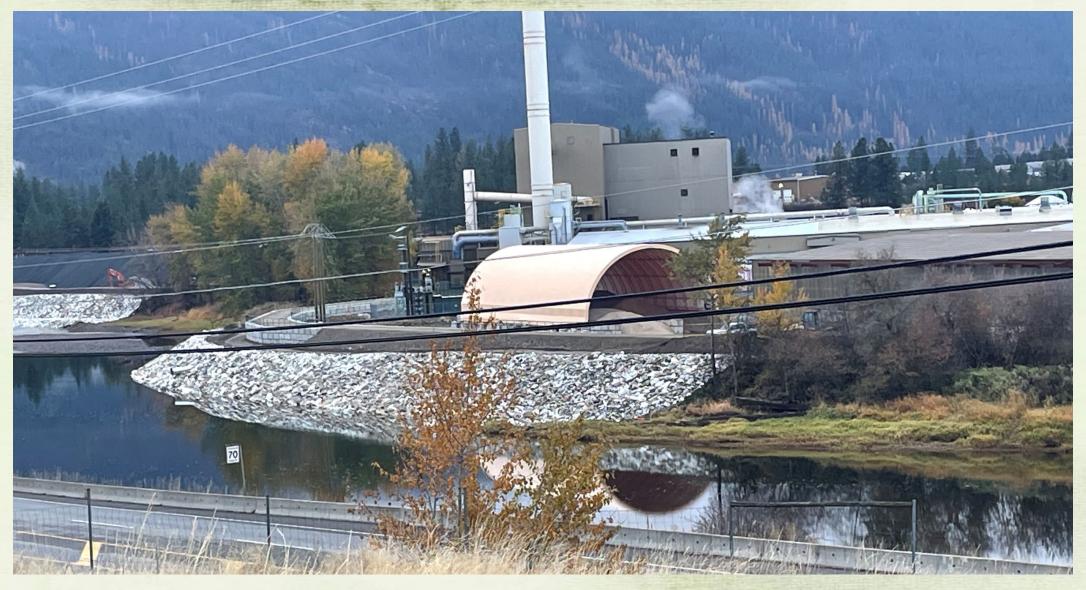








WP2C - DOWNSTREAM INDUSTRIAL DIKE - JANUARY 2024





WP2C - DOWNSTREAM INDUSTRIAL DIKE - OCTOBER 2024







WP2C - DOWNSTREAM INDUSTRIAL DIKE - 2024 CONSTRUCTION









WP2C - EFFLUENT OUTFALL - OCTOBER 7, 2024

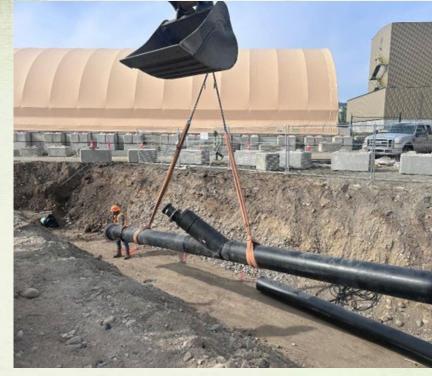




WP2C - EFFLUENT OUTFALL - OCTOBER 18, 2024 (11DAYS)







WP2C - EFFLUENT OUTFALL - CONSTRUCTION





STATUS UPDATE BY WORK PACKAGE

WP3, South Ruckle Dike and Drainage Network

- A. Draft detailed design received and under review
- B. Comprehensive application documents submitted to Inspector of Dikes office
- C. Working with Interfor and Grand Forks Railway regarding north end dike tie-in
- D. FortisBC working on design for relocating poles on 10th St
- E. Telus completed design for relocating communication lines
- F. Working with operations to locate and/or adjust City owned utilities where needed
- G. Removing trees in construction area
- H. Working with Community Garden to adjust fence and other infrastructure
- I. Communicating with impacted and neighboring property owners

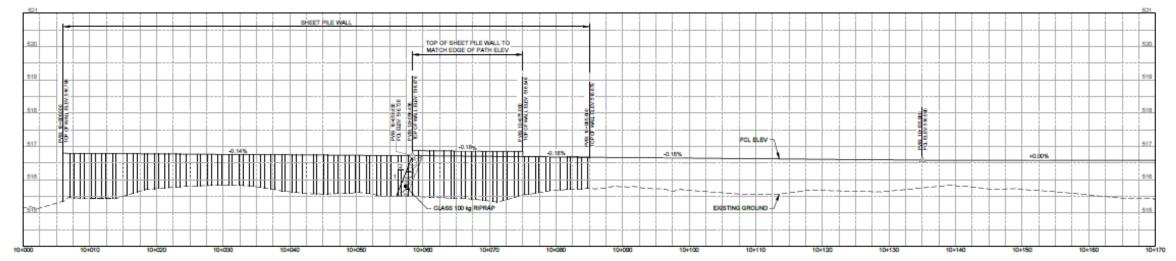


WP3 PERMITTING UPDATE

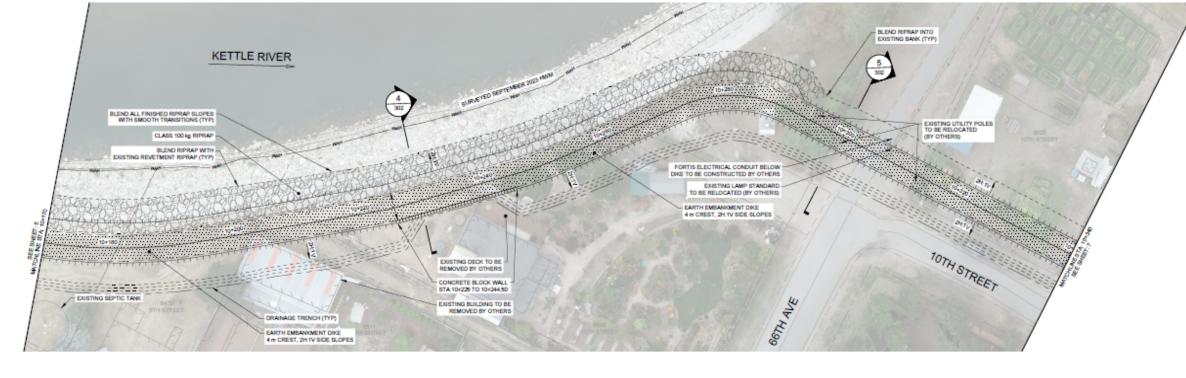
| Permit Name | South Ruckle Dike (North of 63 rd Ave) | South Ruckle Dike (South of 63 rd Ave) | | | | |
|---|--|---|--|--|--|--|
| Heritage Inspection Permit (HIP) | In Hand | In Hand | | | | |
| Archeological Impact Assessment (AIA) | Complete | Still required | | | | |
| Site Alteration Permit (SAP) | Confirmed as Not Required | Not Required unless a discovery is made | | | | |
| Dike Maintenance Act Permit (DMA) | Province proceeding with First Nations consultation. Feedback requested by 1/16th | Province proceeding with First Nations Consultation. Comments requested by 1/16th | | | | |
| Letter of Advice (LOA) from Fisheries | Received | On hold pending final design | | | | |
| Fish Act Authorization (FAA) | Not Required | Assumed not required | | | | |
| Fish Collection Permit | Not Required | Assumed not required | | | | |
| Species at Risk Act (SARA) Permit | Covered by LOA | Awaiting LOA. On hold pending final design | | | | |
| Water Sustainability Act (WSA) Permission | S11 not required for dike. S11 notifications may be necessary for discharge structure(s) | S11 not expected to be required. Pending final design | | | | |
| License of Occupation (LOO) | No longer the preferred mechanism by Province for dikes | No longer the preferred mechanism by Province for dikes | | | | |
| Statutory Right-Of-Way over Crown Land | Application submitted. FN consultation proceeding. Feedback requested by 1/16th | Application on hold pending final design | | | | |
| Interfor, Grand Forks Rail, TSBC, Rail tie-in Approval | Communicating with Interfor and GFR. GFR engaged with TSBC. | Not required | | | | |

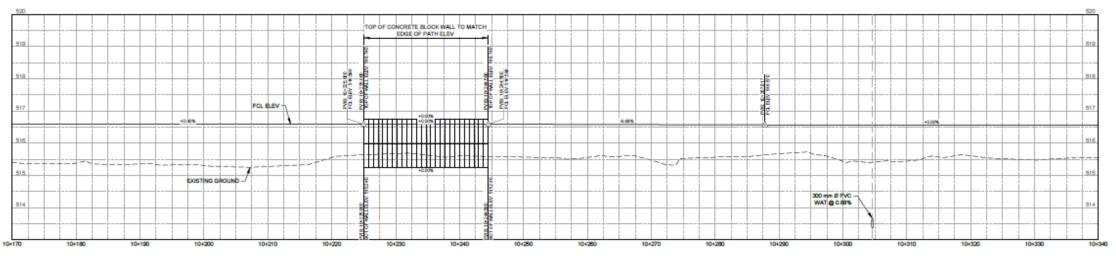






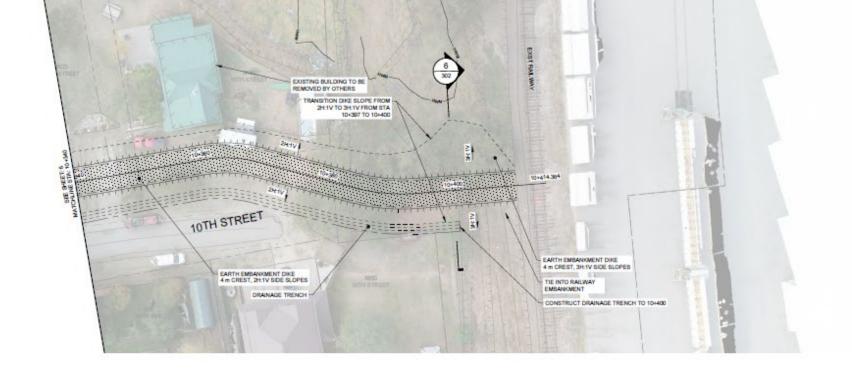
DRAFT DETAILED DESIGN - PLAN & PROFILE 1

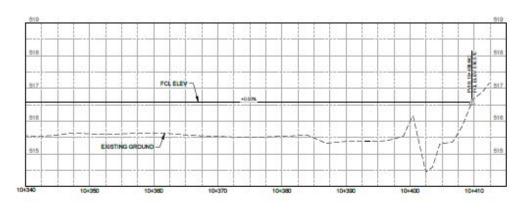




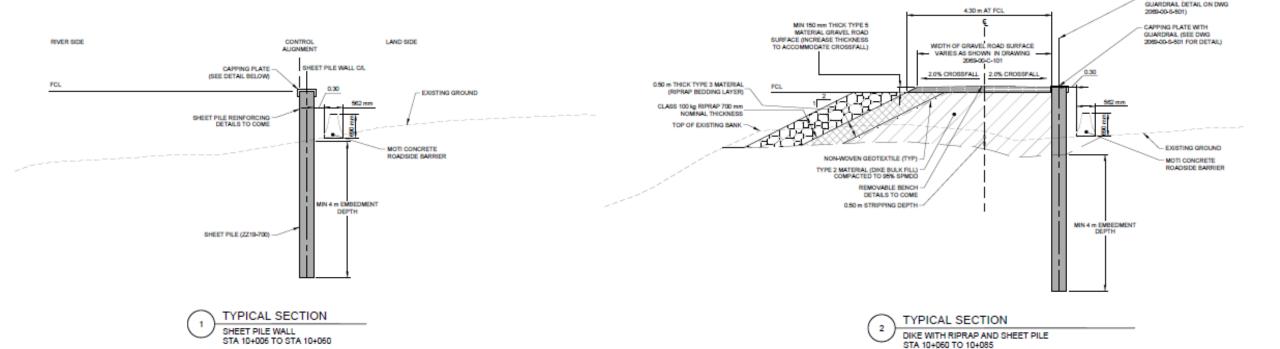
DRAFT DETAILED DESIGN - PLAN & PROFILE 2



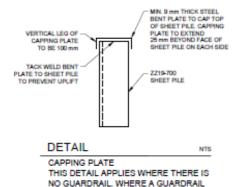




DRAFT DETAILED DESIGN - PLAN & PROFILE 3

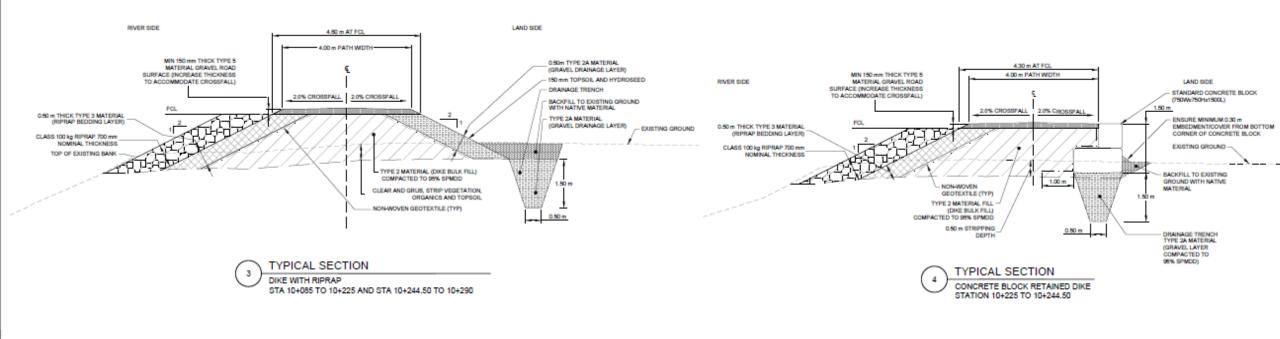


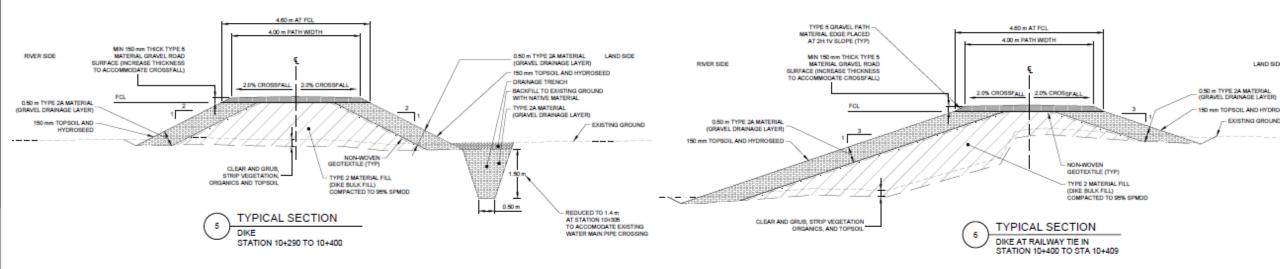
GUARDRAIL (REFER TO



IS REQUIRED REFER TO GUARDRAIL AND CAPPING PLATE DETAIL ON DRAWING 2069-00-S-501

DRAFT DETAILED DESIGN - SHEET PILE CROSS SECTIONS





DRAFT DETAILED DESIGN - EARTH BERM CROSS SECTIONS

FLOOD MITIGATION PROGRAM COSTS TO DATE

| Scope | Actuals to Nov 30th, 2024 | | | | |
|---|---------------------------|------------|--|--|--|
| WP1 - Downtown | \$ | 23,383,827 | | | |
| Riverside Drive Stormwater Interceptor | \$ | 4,742,080 | | | |
| WP2 a&b - North Ruckle | \$ | 8,400,452 | | | |
| WP2c - Rockwool | \$ | 4,985,142 | | | |
| WP3 – South Ruckle | \$ | 604,658 | | | |
| WP 5 - Johnson Flats | \$ | 1,850,019 | | | |
| WP 6 – Rural Erosion (Phase 1), by RDKB | \$ | 309,598 | | | |
| WP 7 - Floodplain Restoration | \$ | 2,106,539 | | | |
| Haz-mat Assessments | \$ | 70,311 | | | |
| Demolition | \$ | 1,326,080 | | | |
| Capital Projects Subtotal | \$ | 47,778,706 | | | |
| Property (land) | \$ | 6,662,181 | | | |
| Property (improvements) | \$ | 7,392,035 | | | |
| Add. City Contributions (LAP) | \$ | 3,466,064 | | | |
| Property Subtotal | \$ | 17,520,280 | | | |
| Additional City Contributions (non-LAP) | \$ | 1,270,643 | | | |
| Grand Total | \$ | 66,569,628 | | | |



CURRENT FLOOD MITIGATION CAPITAL PLAN

| | | | 2024+ | Ca | pital Plan | | | | | | |
|---------|---|-----------------------------------|------------|-------------------------|------------|----------------------------|----|---|----|--|--------|
| Project | Scope | April 2024 Reforecast (BAC) | | eforecast to Nov 30th C | | Estimate to Complete (ETC) | | Estimate at Completion (EAC) = AC + ETC | | Variance at Completion (VAC) = BAC - EAC | |
| WP1 | Program Wide Schematic Design; Downtown Dikes and Pump Stations | \$ | 23,591,822 | \$ | 23,383,827 | \$ 207,995 | \$ | 23,591,822 | \$ | | 99.1% |
| WP1 | Riverside Drive Stormwater Interceptor | \$ | 4,761,540 | \$ | 4,742,080 | \$ 19,461 | \$ | 4,761,540 | \$ | - | 99.6% |
| WP2 a&b | North Ruckle Trail Dike | \$ | 8,439,271 | \$ | 8,400,452 | \$ 38,819 | \$ | 8,439,271 | \$ | - | 99.5% |
| WP2c | Rockwool Trail Dike | \$ | 5,683,726 | \$ | 4,985,142 | \$ 431,973 | \$ | 5,417,115 | \$ | 266,611 | 92.0% |
| WP3 | South Ruckle Dike and Drainage Network | \$ | 5,509,846 | \$ | 604,658 | \$ 4,905,188 | \$ | 5,509,846 | \$ | - | 11.0% |
| WP5 | Johnson Flats Erosion Protection | \$ | 1,850,019 | \$ | 1,850,019 | \$ - | \$ | 1,850,019 | \$ | - | 100.0% |
| WP6 | Rural Erosion Protection (Phase 1), by RDKB | \$ | 814,992 | \$ | 309,598 | \$ 505,394 | \$ | 814,992 | \$ | - | 38.0% |
| WP7 | Floodplain Naturalization and Habitat Offsetting | \$ | 2,130,999 | \$ | 2,106,539 | \$ 24,460 | \$ | 2,130,999 | \$ | - | 98.9% |
| All | Haz-mat Assessments | \$ | 70,311 | \$ | 70,311 | \$ | \$ | 70,311 | \$ | | 100.0% |
| All | Demoltion | \$ | 1,328,080 | \$ | 1,326,080 | \$ | \$ | 1,326,080 | \$ | 2,000 | 100.0% |
| | Totals | \$ | 54,180,607 | \$ | 47,778,706 | \$ 6,133,289 | \$ | 53,911,995 | \$ | 268,611 | 88.6% |



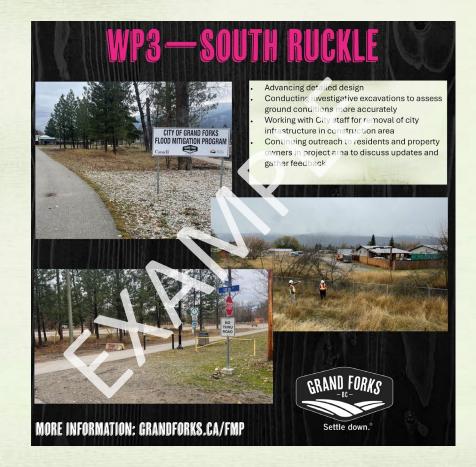
UPDATE ON OTHER CAPITAL PROJECTS

| Project | Status | Next Update | Remarks |
|--------------------------------|-----------------------------|---|---|
| Valley Heights Electrical | Prelim Design and Budgeting | Jan 27 th Regular Meeting | Selected by Council as a strategic priority for 2025 Decision before Council Jan 27 th regarding next steps |
| East Zone Water Reservoir | Planning | Today (Jan 13) | Selected by Council as a strategic priority for 2025 Decision before Council Jan 13 th regarding next steps |
| Sewer Modeling | RFP Development | February 2025 | RFP for consultant under development |
| 68th Ave Trunk Sewer | Pending | Summer 2025 | On hold pending further sewer modeling West End developments proceeding |
| Downtown Stormwater | Planning | February 2025 | Future steps to be identified through the Strategic Plan |
| Utility Upgrades - Central Ave | Planning | February 2025 | Future steps to be identified through the Strategic Plan |





Regular Updates
Posted Friday before Council Meetings



Highlight Updates
Posted as progress warrants



2025 COMMUNICATION PLAN

