FIVE YEAR FINANCIAL PLAN

2026-2034

PROPOSED CAPITAL PROJECTS

PRIORITY MATRIX		The capital projects have been given a priority designation based on staff's understanding the underlying nature of the project in relation to several criteria, including risk, timing, and community interest.
Ranking	**Assessment**	**Description**
P1	Critical	Project is identified as critical in maintaining key infrastructure or delivering core services. Exclusion of this priority increases risk to the municipality in the near future, has a negative future cost impact, or both. Has been identified as necessary through AMIP processes.
P2	Vital	Project is vital in maintaining key infrastructure or delivering core services. Exclusion of this priority would increase risk to the municipality in the medium term (2 to 5 years).
P3	Essential	Project is essential part of key infrastructure and supporting the delivery of core services. Exclusion of this project would increase risk to the municipality in the long term (5 - 10 years).
P4	Conditional	Project may have one or more dependencies with another project; while on its own it may be fully discretionary but completing this project at this time represents future cost savings, an increase in value, or reduction of risk.
P5	Optimal	This project would help optimizing the infrastructure network and improving the effectiveness and efficiency of the core services.

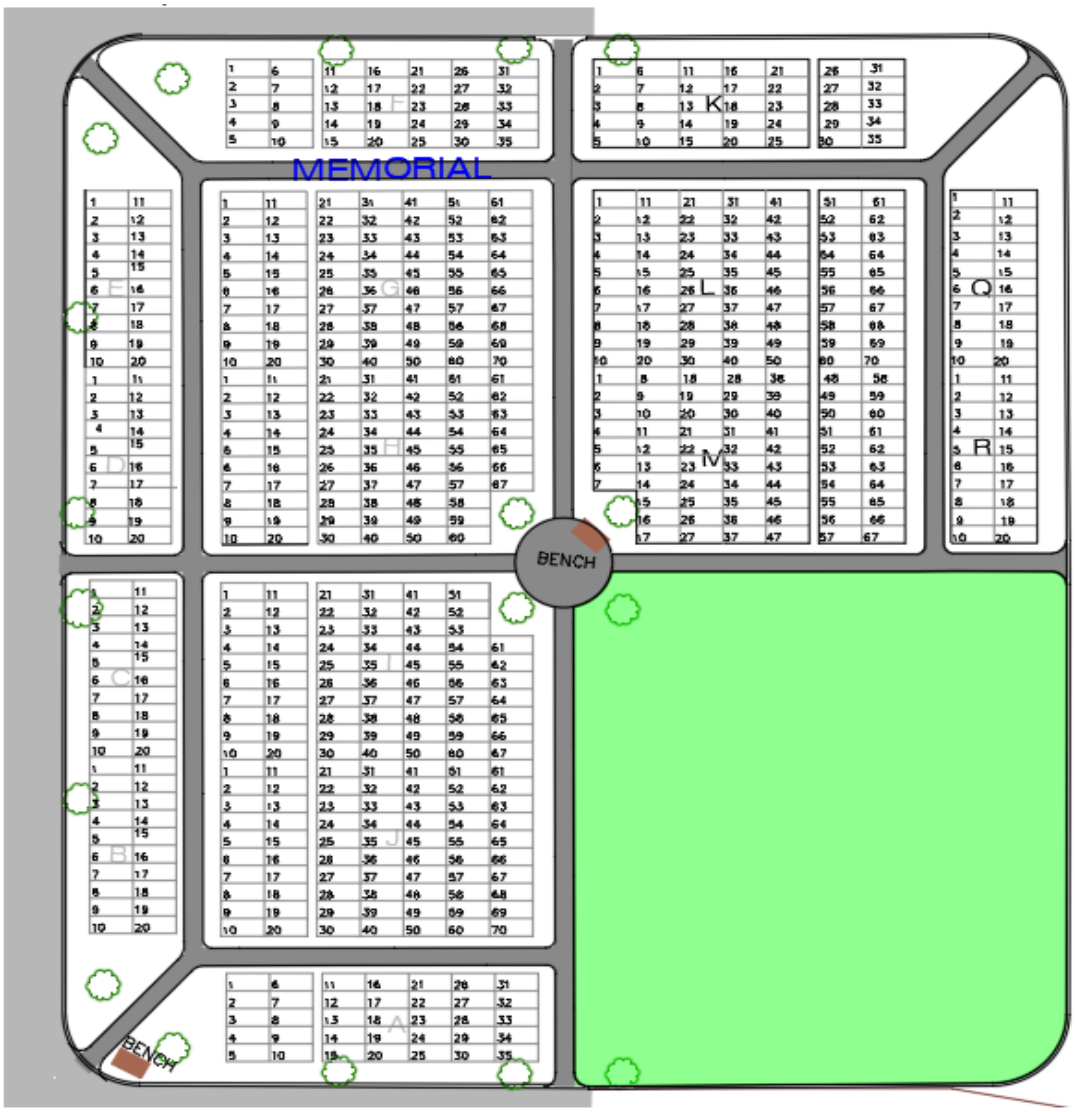
Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2030

Final Quarter of Cemetery Memorial Section

The completion of the memorial section with the construction of another quarter following the Cemetery master plan. It will require the installation of a new turf area which will accommodate ~212 new plots.
Installation of concrete walkways and curbing; expansion of the irrigation, tree planting, topsoil installation, grading and seeding.

$ 40,000



Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2027

Unit #46 Utility clerk Replacement (current 2006 model)

Unit #46 - 2006 Chevrolet Silverado 4 x 2 has passed the average useful life for a pick up truck. We are recommending the purchase of a double cab 4 x 2 pick up truck similar to one shown in the picture. We have been forced to switch from single cab trucks to double cab because we unable to get single cab trucks from manufacturers.

$ 90,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

Unit #1 - Pickup Replacement (2007 current model)

Unit #1 - 2007 GMC Sierra 4 x 2 is getting close to the average useful life for a pick up truck. We are recommending the purchase of a double cab 4 x 2 pick up truck similar to one shown in the picture. We have been forced to switch from single cab trucks to double cab because we unable to get single cab trucks from manufacturers

$ 90,000

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2030

Unit Unit #16 - Zero Turn Mower

Staff have been looking into options for the replacement of our zero turn lawn mower

$ 30,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2025

Computer Hardware & Software

Action Plan 2026-2029	2025 Budget
2026	$26,000
2027	$9,000
2028	$25,000
2029	$25,000
	$85,000

$ 85,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2027

PW Building - 4 ton HVAC Replacement

No details.

$	20,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2027

Replace Finance Bldg HVAC and Furnace

No details.

$	20,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2025

Replace Pole Ornaments

2024: main street, Fairview to veterans, ~16 ornaments, ~$20,500. 2025: station street, Fairview to veterans, ~11 ornaments ~$14,500
2026: Main Street, Co-op to Fairview, ~ 6 ornaments and ~$8,000 packinghouse pathway, ~ 5 ornaments ~$7,000 = ~$15,000(there has never been ornaments on packinghouse until this year. I had them placed there this year due to light circuit failure on station street)

$ 14,500

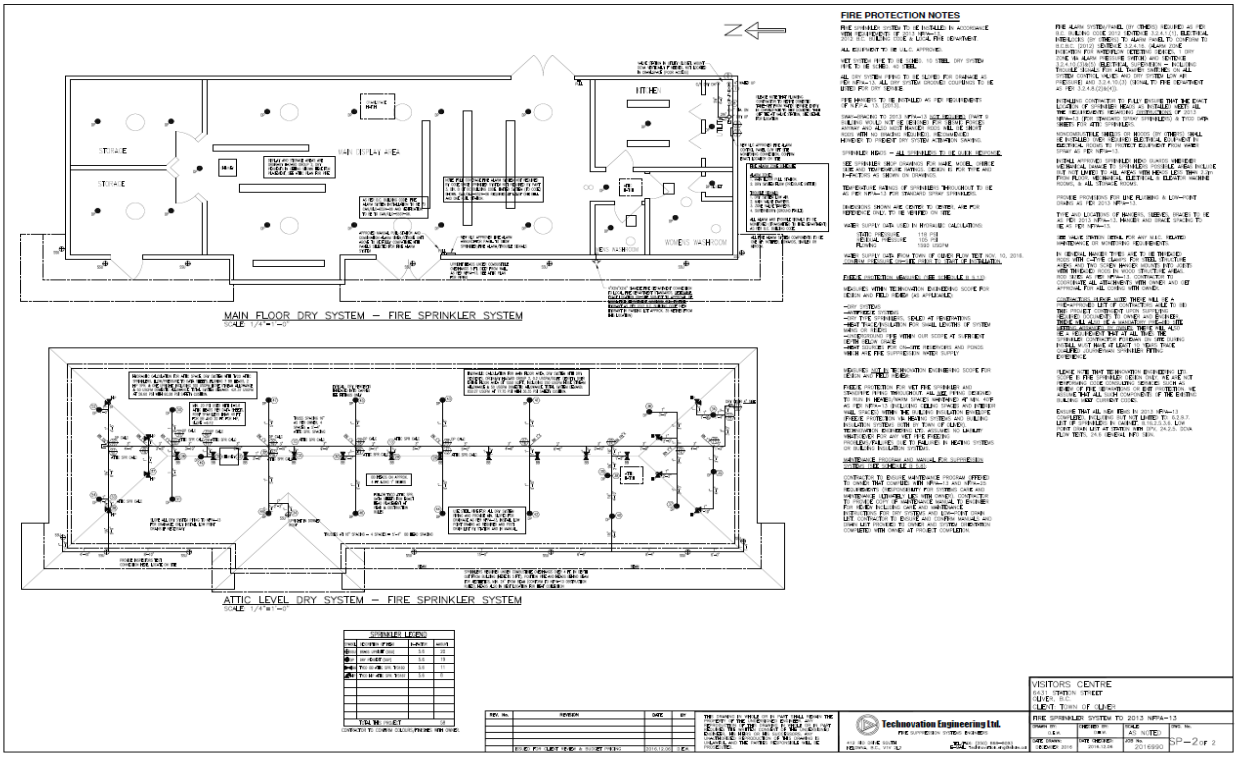
Summary

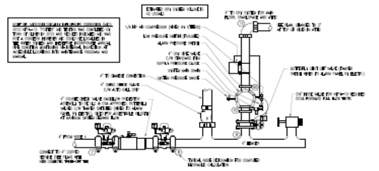
PRIORITY	P2	Year
ASSESSMENT	Vital	2026

CPR Station Sprinkler Replacement

The Canadian Pacific Railway (CPR) station is a heritage building owned and maintained by the Town of Oliver. Around 2000, the CPR station caught on fire and was nearly lost. A lot of people felt it was loss to the community and there was a lot of controversy about how the Town should use the insurance money.In the end a group of volunteers were organized and they rebuilt the CPR station. This building has a lot historical value to the town and represents how the Town can come together as a community. It would be great loss if it burned down and should be protected. Staff had a design of a fire suppression system done in 2016.

$ 80,000





VALVE STATION DETAIL
NOT TO SCALE

SPECIFICATIONS

Scope of Work

a) This set of drawings and specifications are for the Fire Suppression Systems for the existing "Visitors Centre" located at 6431 Station Street, Oliver, B.C.. All fire suppression systems drawings and specifications are to be read as well as all drawings and specifications issued by any other consultants engaged for the above-mentioned project. There will be a mandatory pre-tender site meeting and walkthrough for all contractors at this existing building.

b) The location of equipment, piping and accessories are shown as approximate locations only and to the engineer's best judgement at the time of preparation of the drawings. It shall remain the responsibility of the installing contractor to verify these locations as being acceptable as per site conditions - i.e. structural members, components installed by other contractors. The installing contractor shall report any relocation of equipment, piping and accessories to the engineer.

c) All contractors' bids must include all materials and labour necessary to install the fire suppression systems as shown on these drawings. Any extras claimed by contractors for work that was not included in their bids but was shown on the drawings will be rejected.

d) All components of the installation must comply completely with the most recent versions of all applicable Codes and By-Laws at all levels of jurisdiction. These include the British Columbia and National Building Code, the British Columbia Plumbing Code, National Fire Protection Association standards, Canadian Electrical Code, British Columbia Health Act, all municipal By-Laws and standards of the local Fire Department. All work on the project must also conform to British Columbia Workers Compensation Board guidelines.

e) The work is outlined in various categories in this specification set. For this project all references to the "general contractor" will refer back to the sprinkler contractor who will hire subcontractors as required to perform work such as painting of pipe, repairing ceilings/drywall, cutting, patching and fire alarm and electrical work (monitored fire alarm system panel required to support sprinkler system alarm/trouble signals).

f) All work may be completed in stages as directed by the owner's agent in consultation with the engineer.

g) All bid pricing must be submitted in writing to the owner - Town of Oliver. Requirements/deadlines for bid submissions will be determined by the owner. The representative for the owner (Town of Oliver) is Shawn Goodsell, Director of Operations, phone 250-485-6216.

General Conditions and Clauses

a) All contractors shall report any instances of omission, error or Code non-compliance that they observe on the drawings to the engineer prior to any bidding or ordering of equipment. Upon such report, the engineer will either revise the drawings or issue an addendum correcting the omission or error.

b) It shall be the responsibility of all contractors to fully coordinate their portion of the installation with all other contractors involved with the project. All coordination must meet the approval of the owner's agent. The General Contractor shall be responsible for overall project coordination between all other contractors.

c) The installing contractor is responsible for paying all fees and obtaining all permits associated with the contractor's part of the installation.

d) Fire sprinkler contractor companies, whether providing bids as a subcontractor or prime contractor for the fire sprinkler systems, that are approved by the sprinkler engineer to provide bids on this project but still subject to all requirements of these drawings and specifications are (in alphabetical order):

Bradley Fire Protection and Backflow Services Ltd., Kelowna, B.C.
Integrated Fire Protection Ltd., Kelowna, B.C.
Okanagan Fire Protection Services Ltd., Kelowna, B.C.
Total Mechanical (2007) Ltd., Kelowna, B.C.

Companies which are not mentioned above but wish to be approved to bid must provide sufficient evidence of experience and qualifications to the sprinkler engineer.

e) Only registered companies holding a valid local business license as a fire sprinkler contractor shall be allowed to perform work on this project.

f) Installing contractors shall allow only qualified tradesmen in possession of valid British Columbia Trade Qualification Certificates for Fire Sprinkler System Installation or their registered apprentices to perform work on this project. All apprentices shall work under close supervision from qualified tradesmen. Sprinkler foreman on site to have minimum 10 years of sprinkler installation experience.

g) The engineer will grant equals at his discretion in addition to those listed on the drawings. The application for granting of equals must be made in writing with shop drawing submittal for review prior to ordering any equipment or accessories. In addition, the contractor shall submit copies of manufacturer's shop drawings and installation and maintenance instructions for all equipment and accessories to the engineer for review.

Calls for Field Reviews

It is the responsibility of the General Contractor and Owner's Agent to ensure that the engineer is contacted to perform the following Field Reviews:

1) For Field Review of all fire sprinkler/standpipe systems at rough-in stage prior to drywalling or insulating as applicable (this may entail more than one Field Review).
2) For Final Field Review when all fire suppression systems (including all electrical interlocks to alarm system) are totally complete and fully functional. All drywalling, insulating and ceiling installations must also be complete.

The engineer may perform additional Field Reviews in addition to those above at his discretion.

Fire Protection Systems

1. Installation Responsibility

Mechanical Contractor(s): The Mechanical (Fire Sprinkler) Contractor shall supply and install all approved double check valve assemblies shown, valve stations c/w accessories, pressure switches, fire department siamese connections, piping, pipe hangers and supports, approved sealant for piping penetrations through fire-rated membranes, flow switch and test & drain assemblies, all sprinkler heads of the type, model, orifice size, temperature rating, orientation as shown on the drawings and at all locations as shown on the drawings.

Electrical Contractor: in addition to all responsibilities for installation outlined in the Electrical drawings and specifications, the Electrical Contractor shall supply and install all control wiring for control systems associated with the fire protection system as per control diagrams supplied by the Mechanical (Fire Sprinkler) Contractor, specifically interlock wiring between alarm valve station pressure switches and the base building fire alarm system, wiring between zone flow switches and the main zone annunciator panel, wiring between tamper switches and the annunciator panel, and all smoke and heat detection and fire alarm connections required by Provincial Building Codes (see electrical drawings).

General Contractor: The General Contractor shall provide any of the following as required by the Mechanical (Fire Sprinkler) Contractor: excavation, backfilling, concrete structures, structural reinforcement for piping anchors, fire-rated enclosures, pipe firestops, and all required access doors, hatches and ladders to provide access to fire protection equipment (i.e. to valves, flow switches). The General Contractor shall provide adequate access to all test and drain connections. The General Contractor shall provide insulated boxing in for any sprinkler piping in cold spaces as per details shown on the architectural drawings. The General Contractor must coordinate with the owner as to who will be responsible for all required exit signage and all required portable fire extinguishers as per the requirements of the local Fire Marshall.

2. Fire Protection Equipment, Accessories and Piping

The entire fire protection system must be in full compliance with the latest editions of Provincial Building and Fire Codes, the National Fire Code, all requirements of the local building authority and the local Fire Department, and the applicable National Fire Protection Association (NFPA) codes.

All sprinkler heads must be installed at all locations as shown on the drawings. If the contractor observes an area that must be protected but is shown unprotected on the drawings, the contractor must inform the Engineer immediately. All sprinkler heads must be of the make, model, K-factor and temperature rating as specified on the drawings. All sprinkler heads are to be installed with their appropriate escutcheon plates. Spare sprinkler heads and sprinkler head wrenches must be provided to the owner to keep on-site.

Due to structural constraints, the contractor may relocate sprinkler system piping. Any and all deviations from the drawings must be reported to the Engineer. The Engineer may deem it necessary to revise the hydraulic calculations if major piping changes are required. All deviations from the drawings must be recorded on as-built drawings (see conditions for project completion).

Additional details regarding the Fire Protection system are contained in the General Notes and schematic/details on the drawings and all requirements and details shown on the drawings must be adhered to.

Requirements for Project Completion

1. Startup and Testing

Fire Protection Systems:

a) All systems shall be hydrostatically tested and flushed as prescribed in NFPA-13.
b) All systems shall be tested in accordance with NFPA-13 and Contractor's Material and Test Certificates completed for both Above Ground Piping and Underground Piping, as well as Backflow Preventer Test Certificate.
c) All alarm systems shall be functionally tested and verified as per B.C. Building Code including interlocks between the fire sprinkler system and the base building fire alarm system. All tests must be made to the satisfaction of the local Fire Department.

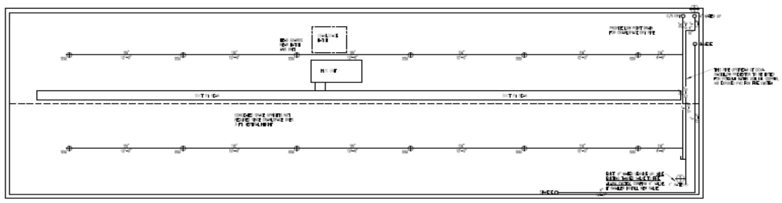
2. Completion Requirements

a) All Contractors must provide accurate and complete as-built drawings for their portion of the work showing all deviations from the Permit Drawings. The Contractors must certify these drawings as being accurate and complete, and forward copies to the Engineer (who will complete CAD revisions for record drawings, work included in engineering fees) and the owner.
b) Cleanup of the entire project to the satisfaction of the owner is a condition for project completion.
c) Correction of all deficiencies listed in the Engineer's Field Review Reports is a condition for project completion. The Engineer will check and verify correction of all deficiencies.

3. Final Documentation Requirements

The following documents and drawings must be received by the owner and/or Engineer before the Engineer can provide final certification:

a) Contractors must submit to the owner a written one year warranty covering all of their work on the project, any applicable manufacturers warranty documents, and copies of all maintenance manuals and all shop drawings. Copies of all maintenance manuals and shop drawings must be received by the Engineer for review.
b) Contractors must submit to the owner and the Engineer copies of the as-built drawings.
c) Contractors must submit to the Engineer signed copies of all Test Reports and Certificates relating to the Fire Suppression systems, including Contractor's Material and Test Certificates for Above Ground Piping and Underground Piping, Backflow Preventer Test Report and Fire Alarm Verification Test Report and Certificate and Monitoring Certificate.



CRAWLSPACE LEVEL DRY SYSTEM – FIRE SPRINKLER SYSTEM
SCALE: 1/4"=1'-0"

SPRINKLER LEGEND

SYMBOL	DESCRIPTION OF HEAD	K-FACTOR	AMOUNT
[illegible]	BRASS UPRIGHT (SSU)	5.6	20
[illegible]	DRY PENDENT (SSP)	5.6	19
[illegible]	[illegible]	5.6	11
[illegible]	[illegible]	5.6	8
TOTAL THIS PROJECT			58

CONTRACTOR TO CONFIRM COLOURS/FINISHES WITH OWNER.

VISITORS CENTRE
6431 STATION STREET
OLIVER, B.C.
CLIENT: TOWN OF OLIVER

FIRE SPRINKLER SYSTEM TO 2013 NFPA-13

Technovation Engineering Ltd.
FIRE SUPPRESSION SYSTEMS ENGINEERS

DRAWN BY:	CHECKED BY:	SCALE:	DWG. No.
O.E.W.	O.W.W.	AS NOTED	SP-1 OF 2
DATE DRAWN: DECEMBER 2016	DATE CHECKED: 2016.12.06	JOB No. 2016990	

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

Vehicle Bridge Deck Sealing

In October of 2021, a memo was prepared by Associated Engineering to discuss recommendations for the rehabitation of the Fairview bridge that came from an inspection report from WATSON engineering detailing the current condition of the bridge and its deficiencies. In this memo Associated engineers recommended remediation of the concrete deck. The application of a deck sealant was recommended as option to slow the progression of the concrete deterioration in the wearing surface of the concrete deck. Another option was to perform a full overlay of the concrete deck, as had been done before. That was estimated to be $460,000 in 2021. A new estimate would need to be prepared for further consideration.

$ 80,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2026

Vehicle Bridge Approach Reconstruction

In July of 2020, Watson Engineering provided the Town of Oliver with an Inspection Report detailing the current condition of the bridge and making recommendations for rehabilitation of deficiencies. The report recommended rebuilding the approach roadways to address uneven road surfaces and rutting in the asphalt. Core samples were completed in Nov 2021 suggested that the cause of the rutting at this time may be partially related to the underlying subgrade. Associated Engineering has completed two estimates for construction options: option 1 is a 50 mm grind of asphalt and 50 mm overlay and option 2 is a full road structure reconstruction. Associated Engineering has proposed an options analysis report to determine the recommended path to address the rutting in the asphalt. This proposed options analysis report would cost $8000.

Design	**$ 50,000**
Construction	**$ 600,000**

Options Analysis Report:

- Ground FX Geotechnical Inc. to complete a site assessment and advise on best repair method; mill and overlay or asphalt removal and full depth base repair with new asphalt. Test pits would be used to determine the material properties and condition of the subgrade. Results from the test pit analysis will inform the recommendation in the options analysis report.
- Associated Engineering to assist with coordination, civil input into options analysis, and liaison with the Town of Oliver.

Photos 3 and 4 – East approach to the bridge (±10m east of bridge)

Core details are as follows:

Core #1 – West Side of Bridge – Eastbound Lane – Outside of Rut	104mm
Core #2 – West Side of Bridge – Eastbound Lane – Inside of Rut.	126mm
Core #3 – East Side of Bridge – Westbound Lane – Outside of Rut.	95mm
Core #4 – East Side of Bridge – Westbound Lane – Inside of Rut.	90mm

Due to the unknown factors of what the road structure is beneath the asphalt, ITSL cannot provide additional comment regarding the cause of the rutting at this time as it may be partially related to the underlying gravel structure and/or subgrade. Further investigation would be needed to provide engineering guidance on the likely cause and potential remediation of the current condition.

We trust the above comments are sufficient. As always, please call or email if you have any questions.

Regards,
Interior Testing Services Ltd

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2030

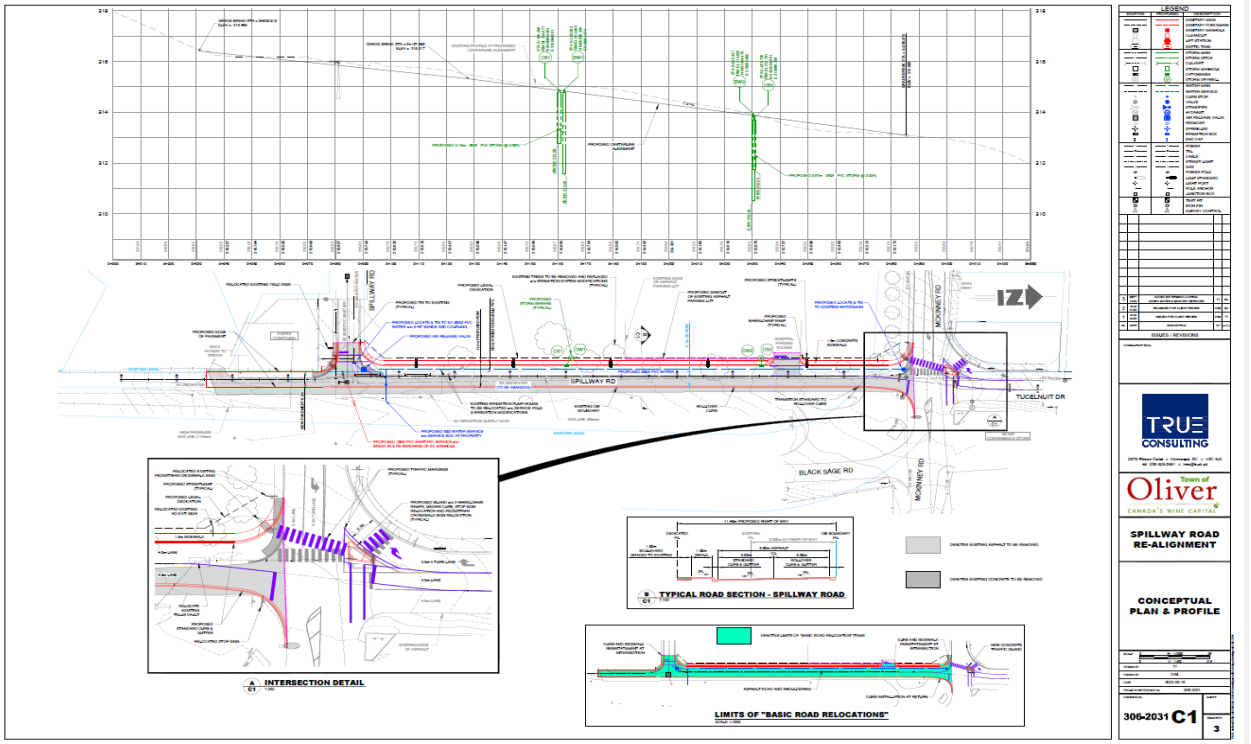
Realign and Reconstruction of Spillway Rd

Initial design work was done with with a low class estimate. Further design will need to be done and more refined cost estimate. We're estimating $18K for design and $800K for the work.

$ 818,000

306-2031
Page 2

ITEM NO.	DESCRIPTION	UNIT OF MEASURE.	UNIT PRICE	EST. QUANT.	TOTAL PRICE	EST. QUANT.	TOTAL PRICE
PART 5.0 - STREET LIGHTING							
5.1	Precast concrete base	ea.	$1,500.00			8	$12,000.00
5.2	50mm ducting	m	$70.00			240	$16,800.00
5.3	Poles and luminaires	ea.	$6,000.00			8	$48,000.00
5.4	Wiring and commissioning	LS	$8,000.00			1	$8,000.00
	Subtotal Part 5.0 - Streetlights				**$0.00**		**$84,800.00**
PART 6.0 - ROADWORKS							
6.1	Excavate to subgrade	m³	$17.00	1100	$18,700.00	300	$5,100.00
6.2	Curb and gutter c/w base gravels	m	$190.00	60	$11,400.00	380	$72,200.00
6.3	Concrete sidewalk c/w base gravels	m²	$190.00	57	$10,830.00	260	$49,400.00
6.4	Wheelchair ramps	ea.	$3,500.00	3	$10,500.00	2	$7,000.00
6.5	Adjust ex. Utilities to grade	ea.	$500.00	4	$2,000.00		
6.6	Asphalt c/w base gravels	m²	$70.00	2180	$152,600.00		
6.7	Concrete island c/w curb, concrete infill and wheelchair ramps	LS	$12,000.00	1	$12,000.00		
6.8	0.5m width gravel shoulder	m	$15.00	300	$4,500.00		
6.9	Traffic markings (% of Area)	LS	$3,200.00	1	$3,200.00	1	$800.00
	Subtotal Part 6.0 - Roadworks				**$225,730.00**		**$134,500.00**
PART 7.0 - LANDSCAPING							
7.1	Boulevard Restoration	m²	$45.00	350	$15,750.00		
7.2	Mature trees	ea.	$1,000.00	6	$6,000.00	2	$2,000.00
	Subtotal Part 7.0 - Landscaping				**$21,750.00**		**$2,000.00**
Summary							
	Subtotal Parts 1.0- 7.0				**$319,030.00**		**$326,600.00**
	GST (5%)				**$15,951.50**		**$16,330.00**
							$342,930.00
	Total Contract Sum - Basic Road				**$334,981.50**		**$334,981.50**
	Total Contract Sum - c/w Upgrades						**$677,911.50**


SPILLWAY RD
MCKINNEY RD
TUCELNUIT DR
BLACK SAGE RD
INTERSECTION DETAIL
TYPICAL ROAD SECTION - SPILLWAY ROAD
LIMITS OF "BASIC ROAD RELOCATIONS"
LEGEND
TRUE CONSULTING
Town of Oliver
CANADA'S WINE CAPITAL
SPILLWAY ROAD RE-ALIGNMENT
CONCEPTUAL PLAN & PROFILE
306-2031 C1

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2032

Sawmill Road Rehabilitation

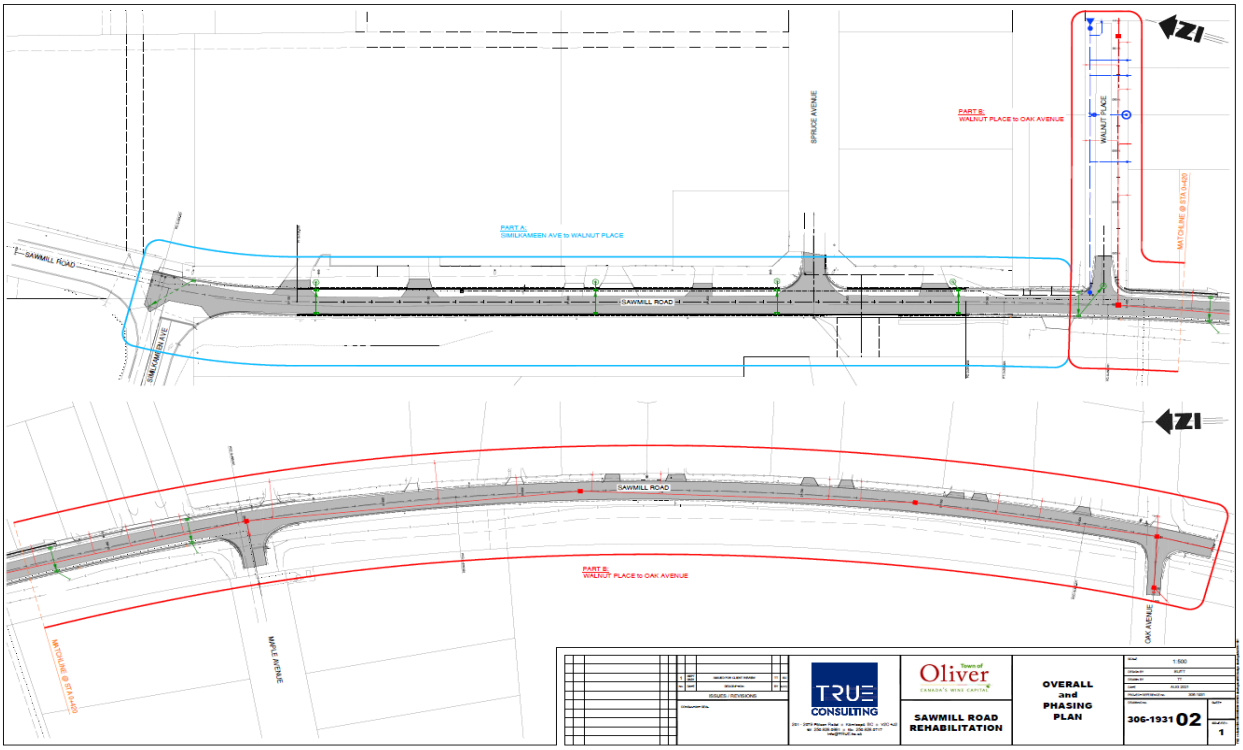
Project Total of $1,755,000 for roads, water and sewer

$ 1,755,000

306-1931
Page 4

Summary

Subtotal Parts A1.0 to A3.0	$589,815.00
Subtotal Parts B1.0 to B5.0	$1,080,795.00
Subtotal Parts A and B	$1,670,610.00
GST (5%)	$83,530.50
Total Contract Sum	$1,754,140.50



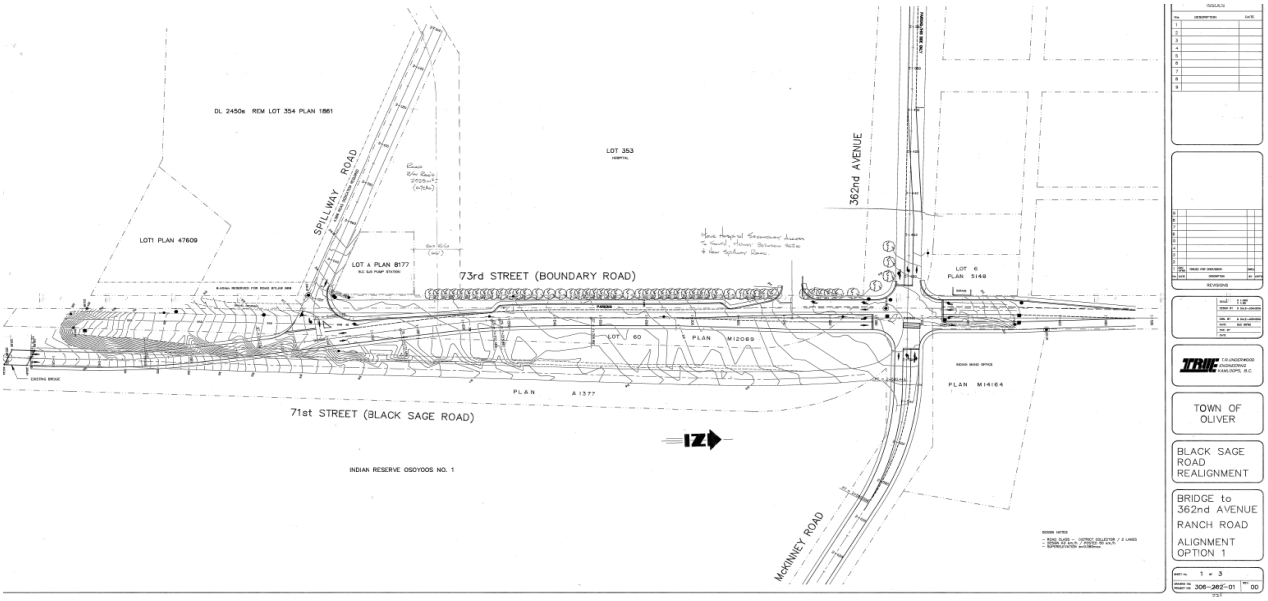
Summary

PRIORITY	P5	Year
ASSESSMENT	Optimal	2029

Realign Intersection at Mckinney Black Sage and Tuc

This project has been talked about for many years and is contingent on cooperation of three stake holders the Town of Oliver, the Ministry of Transportation (MOTI) and the Osoyoos Indian Band (OIB). Our share is 1/3 with MOTI and OIB.

$ 1,035,000



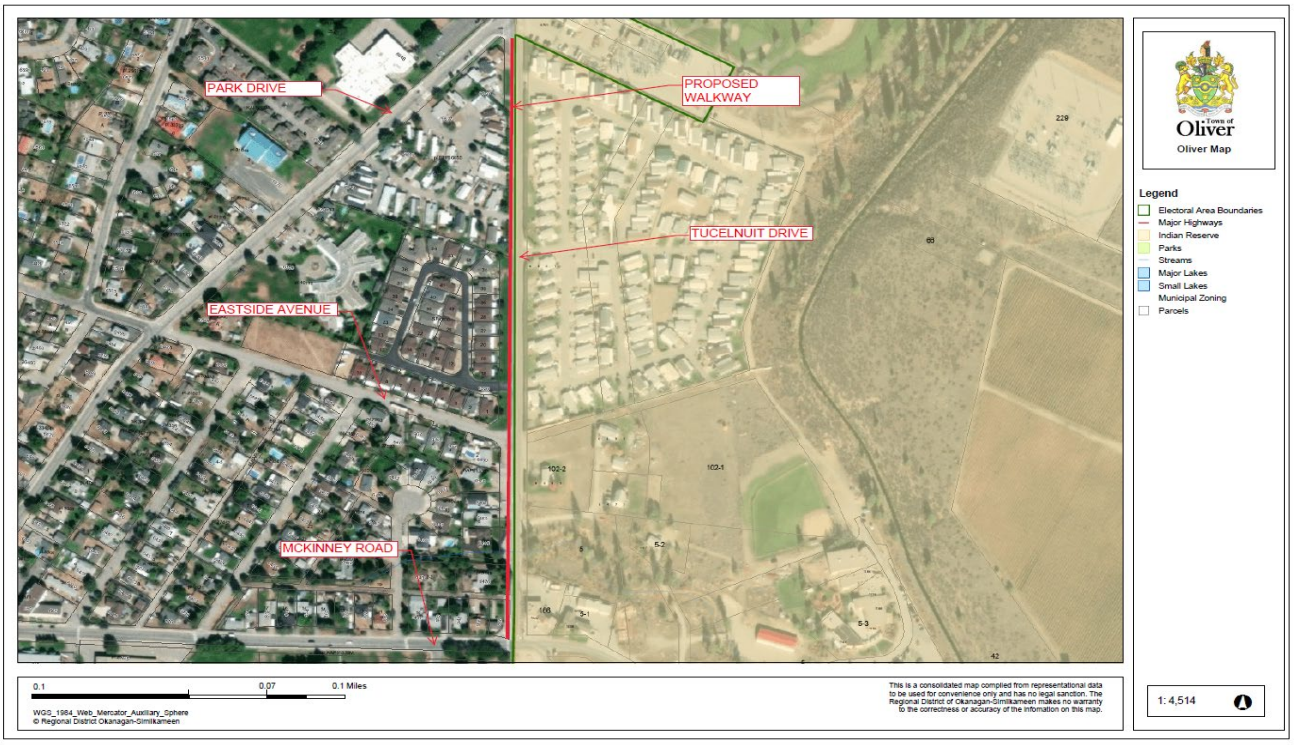
Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2030

Sidewalk on Tuc from Mckinney to Park

The 2022 Active Trasportation plan proposed sidewalks along Tuc El Nuit Road from Park Drive to McKinney Road. This sidewalk would provide a safe route for children walking to school at Sen Pok Chin and a safe route for residents of Cherry Grove walking into town. The cost below has been adjusted adding 50 percent to the class D estimate. Further design would be needed to get better costing. Staff have estimated design to be $25K.

$	950,000
$	25,000 DESIGN

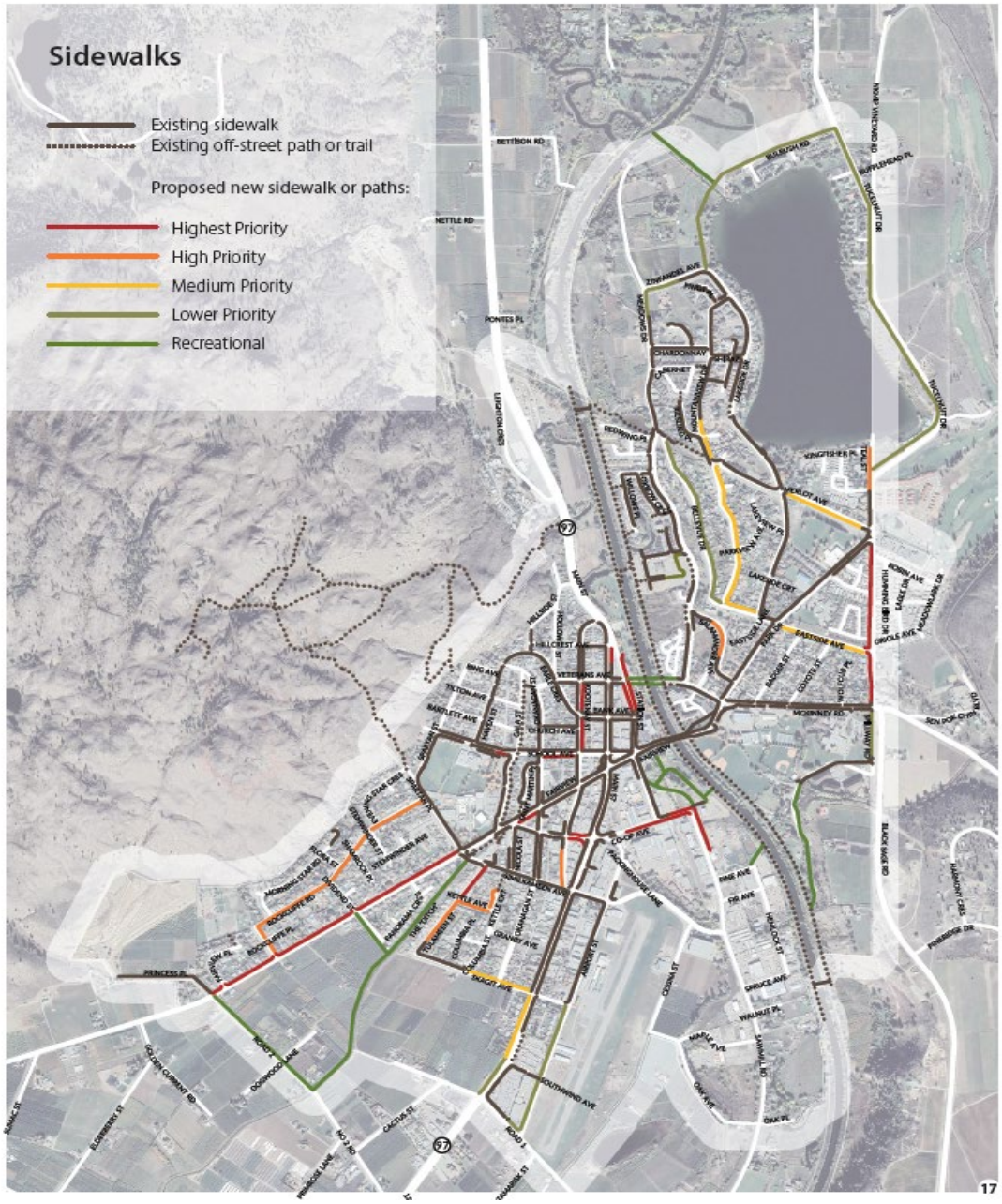


CLASS D COST ESTIMATE
Project #306-1195
Date: January 2019

TRUE CONSULTING

TOWN OF OLIVER
TUC-EL-NUIT DRIVE SIDEWALK - PARK DRIVE TO McKINNEY ROAD

1.0	**Removals**		
1.1	Asphalt milling	1300 m² @ $8 / m²	$10,400
1.2	Excavation to subgrade	2600 m² @ $5 / m²	$13,000
2.0	**Storm system**		
2.1	Catchbasins and piping	12 ea. @ $3500 ea.	$42,000
2.2	Drywells	6 ea. @ $4500 ea.	$27,000
3.0	**Roadworks**		
3.1	Subgrade preparation	2600 m² @ $5 / m²	$13,000
3.2	Barrier curb & gutter complete with base gravels	620 l.m. @ $115 / l.m.	$71,300
3.3	1.6m width sidewalk complete with base gravels	990 m² @ $110 / m²	$108,900
3.4	2.0m width asphalt restoration	1300 m² @ $45 / m²	$58,500
3.5	Driveway restoration	12 ea. @ $3000 ea.	$36,000
3.6	Signage	Allow	$5,000
3.7	Line painting	Allow	$10,000
4.0	**Restoration**		
4.1	Restoration allowance - shale or fractured rock	650 m² @ $35 / m²	$22,750
		Subtotal Parts 1 - 4	$417,850
		Contingencies & Engineering (allow 30%)	$125,000
		TOTAL (rounded)	**$543,000**


Sidewalks
Existing sidewalk
Existing off-street path or trail
Proposed new sidewalk or paths:
Highest Priority
High Priority
Medium Priority
Lower Priority
Recreational
17

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2034

New Bridge Costs - Design, Traffic Study, etc.

Staff are proposing to get a traffic study and then design for a new bridge going over the okanagan river from Mckinney Road to Veterans Avenue. The traffic study is necessary to assess traffic volumes/ patterns at intersections leading to the bridge eg. Main/ Veterans, Station/ Veterans, Meadows/ Mckinney and the south access road for Park Avenue Estates.

$ 150,000

47 Rehab Tuc Dr and Bulrush

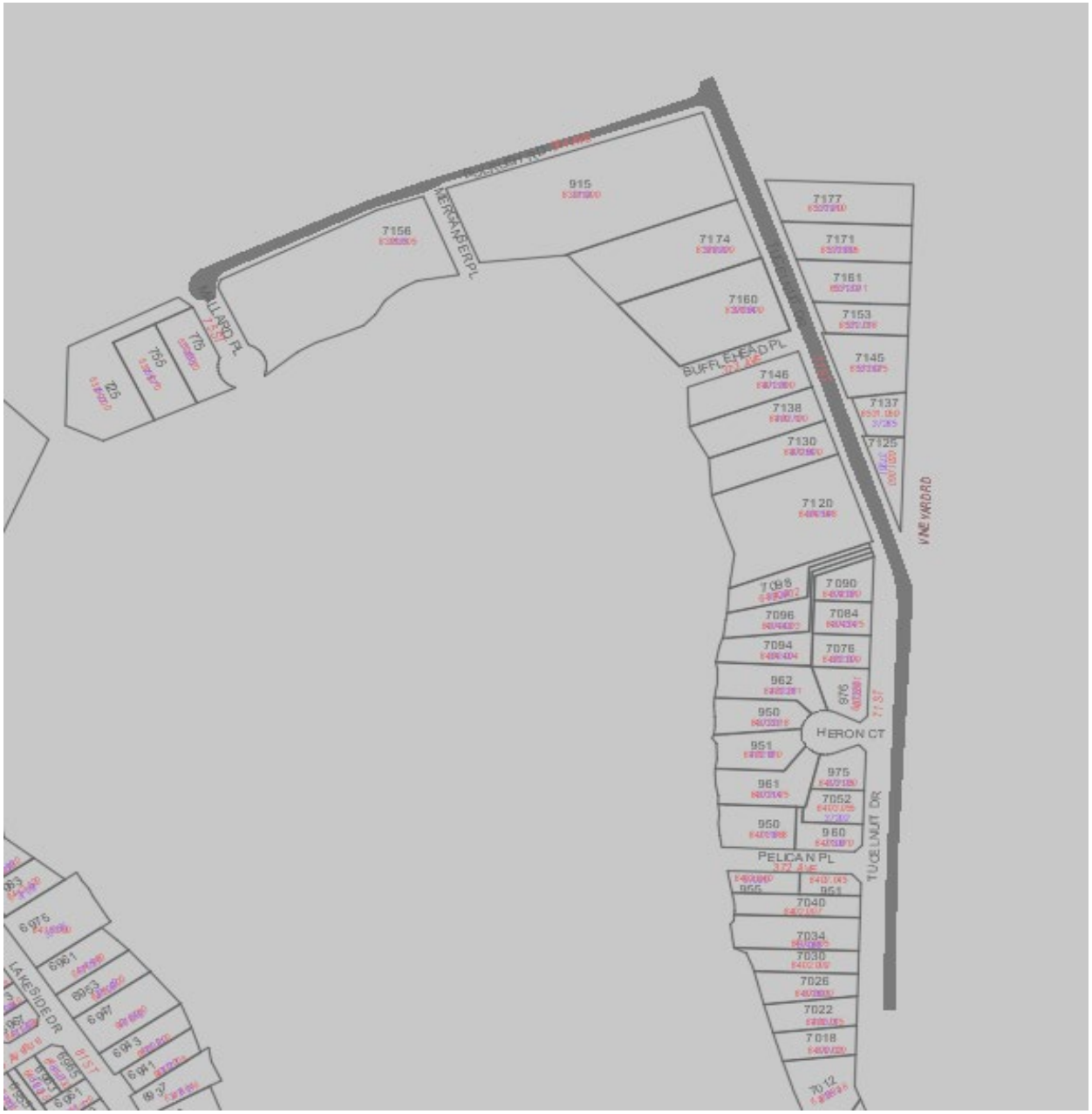
Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2031

Rehab of Tuc Dr and Bulrush Road

Full Reconstruction of Bulrush Road with Mill and Fill of Tucelnuit Drive.

$ 618,000



Peter Bros Construction Ltd. DBA Peters Bros. Paving

716 Okanagan Ave East
Penticton BC V2A 3K6
C:250-488-8767
Mitch@petersbros.ca

Feb 7, 2023

Town of Oliver
5971 Sawmill Road
Oliver, BC
V0H 1T0
(250) 485-6217 – jtrottier@oliver.ca

Attention: Joseph Trottier

Subject: Town of Oliver – Estimating Unit Rates

Hello Joseph, project overview as follows.

- *Mill & Fill, 50mm Depth* - **$75 per m² (1 – 300m²)**
- *Mill and Fill, 50mm Depth* - **$54 per m² (300 – 1,500m²)**
- *Hot Mix Asphalt Overlay* - **$57 per m² (1 – 300m²)**
- *Hot Mix Asphalt Overlay* - **$36 per m² (300 – 1,500m²)**
- *Asphalt Curb, hand formed height 50mm - 100mm* - **$45 per L.m. (Pave Only)**
- *Asphalt Curb, machine formed height 150mm* - **$50 per L.m. (Pave Only)**
- *Hand Patching* - **$425 per tonne (Pave Only)**

Note: These unit rates are for estimating purposes only, please contact Mitch Younger prior to the beginning of work to provide a formal quote / rate.

Please do not hesitate to call if you need any additional information.

Thank you,

Summary

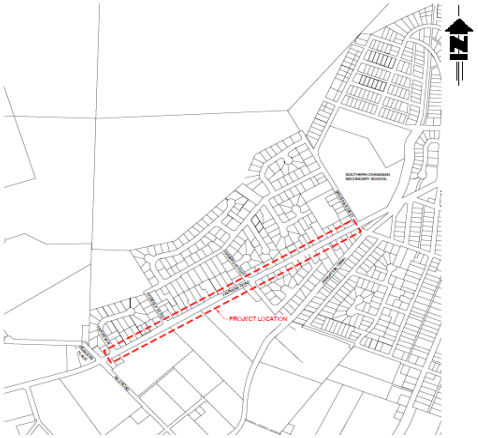
PRIORITY	P4	Year
ASSESSMENT	Conditional	2029

Fairview Sidewalk and Curb Extension

Sidewalk on Westside of Fairview Road from Spartan Street to Princess Place. The original cost estimate was produced in 2020. We have adjusted that cost estimate adding 20% for increases in labour and materials.

$ 1,562,600

TOWN OF OLIVER
FAIRVIEW ROAD SIDEWALK
(Spartan St. to Princess Pl.)



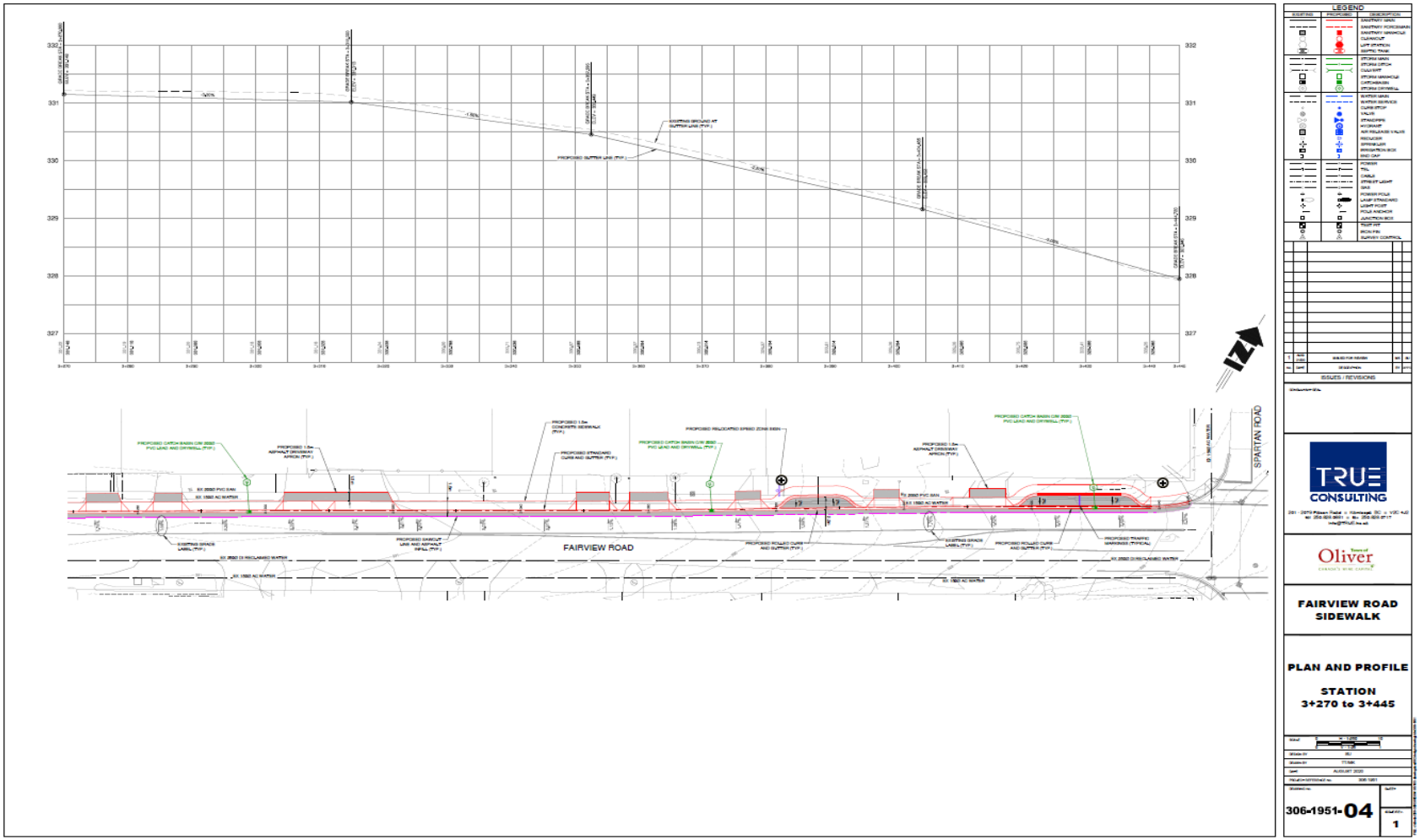
Town of Oliver
Fairview Road Sidewalk
Cost Estimate

ITEM NO.	DESCRIPTION	UNIT OF MEASURE	EST. QUANT.	UNIT PRICE	TOTAL PRICE
1.0	**Removals**				
1.1	Remove and dispose of existing asphalt surface c/w sawcutting (includes driveways)	m²	3760	$10.00	$37,600.00
1.2	Remove and dispose of existing concrete c/w sawcutting				
	1.2.1 Curb and gutter	m	25	$60.00	$1,500.00
	1.2.2 Sidewalks and driveways	m²	50	$110.00	$5,500.00
1.3	Strip, clear and grub boulevard areas	m²	1800	$7.00	$12,600.00
1.4	Excavate to subgrade c/w disposal of surplus material	m³	2735	$20.00	$54,700.00
	Subtotal Part 1.0 - Removals				**$111,900.00**
2.0	**Storm Sewers**				
2.1	Supply and install 200Ø DR35 PVC storm lead	m	85	$200.00	$17,000.00
2.2	Supply and install standard catchbasin	ea.	20	$2,800.00	$56,000.00
2.3	Supply and install 2.75m drywell	ea.	15	$5,000.00	$75,000.00
	Subtotal Part 2.0 - Storm Sewers				**$148,000.00**
3.0	**Roadworks**				
3.1	Grade, shape and compact subgrade in roadway, sidewalk and curb areas.	m²	5470	$5.00	$27,350.00
3.2	Supply, place and compact 75mm minus pitrun gravel to a compacted thickness of 300mm	m²	1640	$20.00	$32,800.00
3.3	Supply and install concrete curb and gutter c/w 150mm of 19mm minus crushed gravel				
	3.3.1 Standard type	m	1100	$170.00	$187,000.00
	3.3.2 Rolled type	m	105	$170.00	$17,850.00
3.4	Supply and install multi-use path				
	3.4.1 Multi use path c/w 100mm of 19mm minus crushed gravel	m²	3500	$150.00	$525,000.00
	3.4.2 Extra to unit for driveway crossover and 140mm thickened concrete	m²	350	$190.00	$66,500.00
	3.4.3 Wheelchair ramp c/w tactile warning	ea.	7	$4,200.00	$29,400.00

ITEM NO.	DESCRIPTION	UNIT OF MEASURE	EST. QUANT.	UNIT PRICE	TOTAL PRICE
3.0	**Roadworks - continued**				
3.5	Adjust existing utilities to final grade				
	3.5.1 Manholes	ea.	7	$500.00	$3,500.00
	3.5.2 Valves	ea.	9	$200.00	$1,800.00
3.6	Supply, place and compact hot-mix asphalt in roadway to a compacted thickness of 75mm c/w 150mm of 19mm minus crushed gravel	m²	2800	$48.00	$134,400.00
3.7	Driveway restoration c/w 100mm of 19mm minus crushed gravel (no pit-run)				
	3.7.1 50mm hot-mix asphalt	m²	320	$50.00	$16,000.00
	3.7.2 100mm concrete	m²	35	$190.00	$6,650.00
3.8	Traffic signage				
	3.8.1 Relocate existing stop/street and speed zone signs c/w base reinforcement	ea.	7	$400.00	$2,800.00
	3.8.2 Supply and install pedestrian crosswalk signs c/w post and base	ea.	2	$700.00	$1,400.00
3.9	Supply and install traffic markings				
	3.9.1 600mm width stop bar	m	22	$50.00	$1,100.00
	3.9.2 300mm width parallel crosswalk	m	138	$30.00	$4,140.00
	3.9.3 3m width x 600mm zebra crosswalk	ea.	1	$1,500.00	$1,500.00
	3.9.4 100mm width yellow centreline	m	32	$15.00	$480.00
	3.9.5 100mm width white parking lines	m	230	$15.00	$3,450.00
3.10	Boulevard landscaping	m²	2200	$40.00	$88,000.00
3.11	Boulevard tree	ea.	12	$2,200.00	$26,400.00
3.12	Boulevard irrigation	LS	1	$9,500.00	$9,500.00
	Subtotal Part 3.0 - Roadworks				**$1,187,020.00**

Summary

Subtotal Part 1.0 - Removals	**$111,900.00**
Subtotal Part 2.0 - Storm Sewers	**$148,000.00**
Subtotal Part 3.0 - Roadworks	**$1,187,020.00**
Subtotal Parts 1.0 - 3.0	**$1,446,920.00**
Engineering & Contingency (30%)	**$434,076.00**
Total Contract Sum	**$1,880,996.00**


FAIRVIEW ROAD
SPARTAN ROAD
LEGEND
ISSUES / REVISIONS
TRUE CONSULTING
Oliver
FAIRVIEW ROAD SIDEWALK
PLAN AND PROFILE
STATION 3+270 to 3+445
306-1951-04

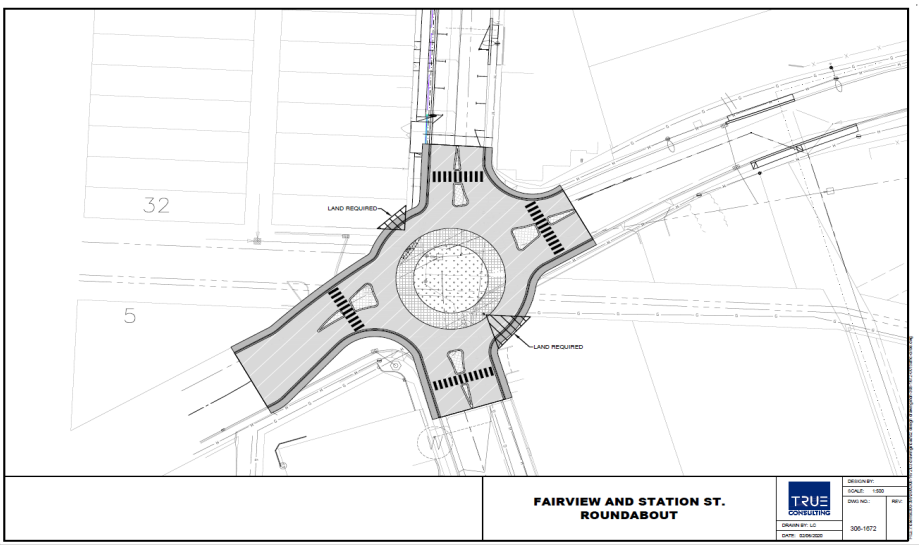
Summary

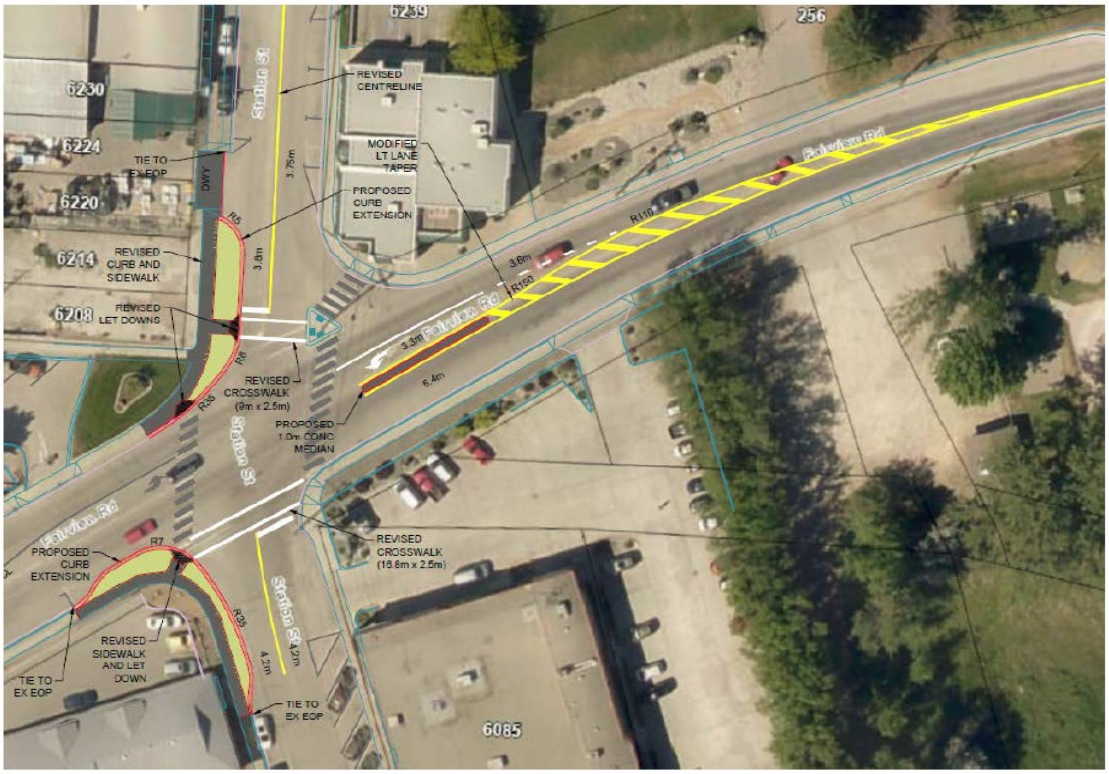
PRIORITY	P1	Year
ASSESSMENT	Critical	2033

Fairview and Station St Intersection Improvements

In 2020, staff engaged TRUE Consulting to do research into intersection improvement recommendations for the Fairview and Station intersection. TRUE contracted WATT consulting to complete a Traffic Operational and safety review for the intersection. From this review two basic concepts evolved: a roundabout or a combination of curb extensions, a traffic median and new pavement markings. Further design would to be done finalize cost estimates. Staff have added 20% to a class C estimate provided by TRUE in 2020 for the installation of a roundabout. We have no pricing for the second option.

$ 2,360,000





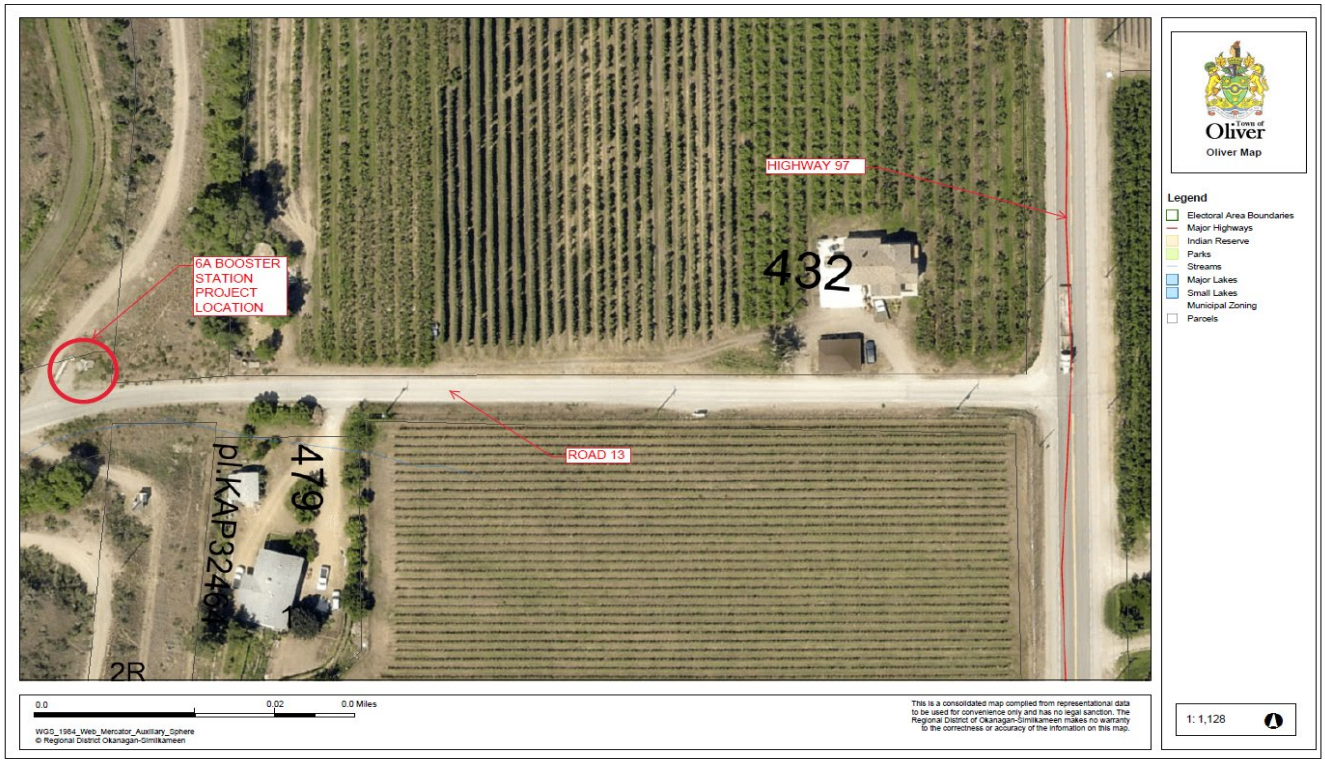
Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2027

Booster Station SCADA (6a)

This project was slated to be done in 2021 but because for unforseen expenditures, staff decided to carry it forward to 2022. Similar to other pump station upgrades over the last several years; requires electrical contractor to put more info/controls to the 'Supervisory Control and Data Acquisition, (SCADA) system at this site with some wiring upgrades. This also includes wireless communication to Hester Creek reservoir, which eliminates problematic buried wired communication that can occasionally get broken. We are starting in late Fall/Winter 2020 and finish in 2021.

$ 150,000.00



Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2025

Water Meter Replacements

Finance previously indicated that many older water meters are starting to require more troubleshooting and change outs throughout the water systems. The Town has started a 'change out' program for the next 5 years, replacing the Neptune T-10 meters with a newer Mach 10 meters that have no internal moving parts and potentially less maintenance. Work can be done internally through the public works in addition to contracted plumber. $40k in 2024 was insufficient. Plan for $300k per yer.

$ 300,000

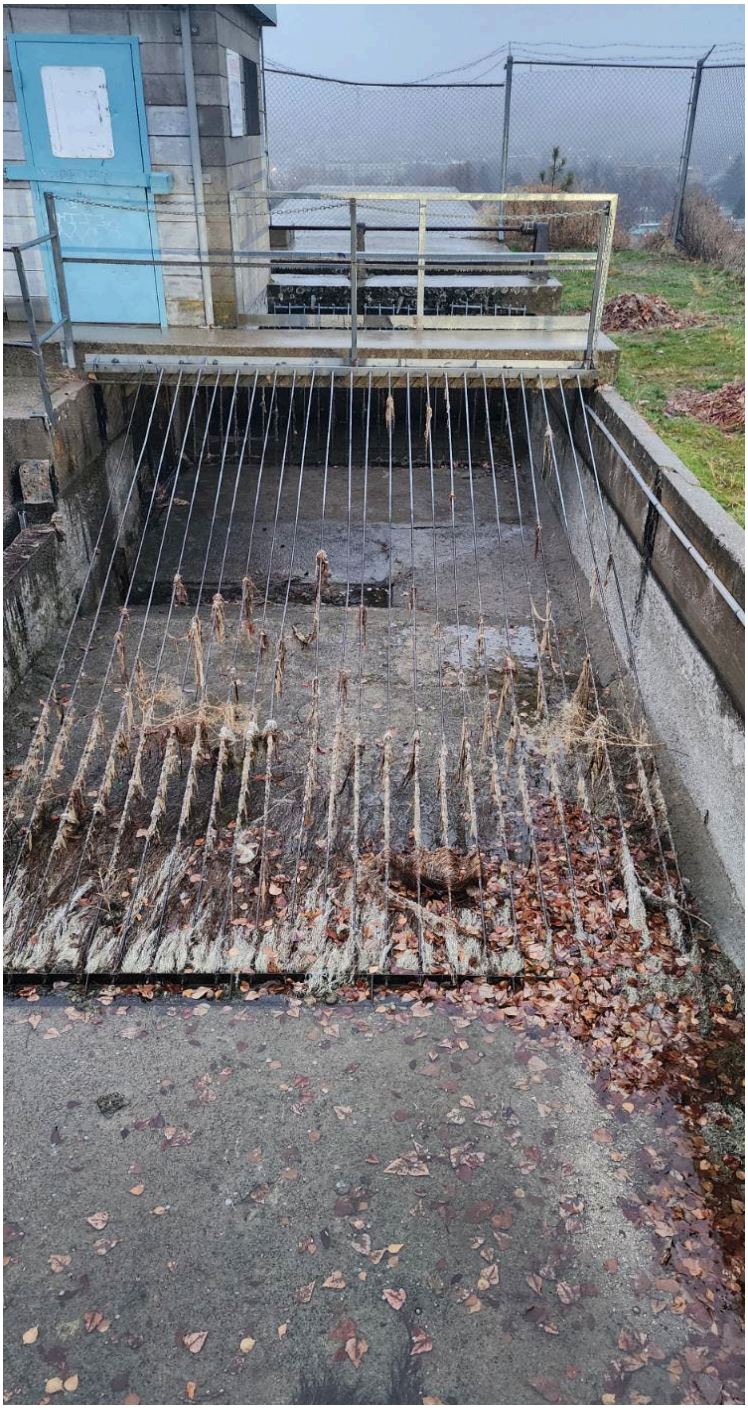
Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2029

Canal - Upgrade Trash Racks

Trash Rack Locations - Diversion, inlet for siphon for the Town, outlet for siphon for the Town, Flume 6 & 7 Trash Rack and Road 11,

$ 75,000



Summary

PRIORITY	P5	Year
ASSESSMENT	Optimal	2030

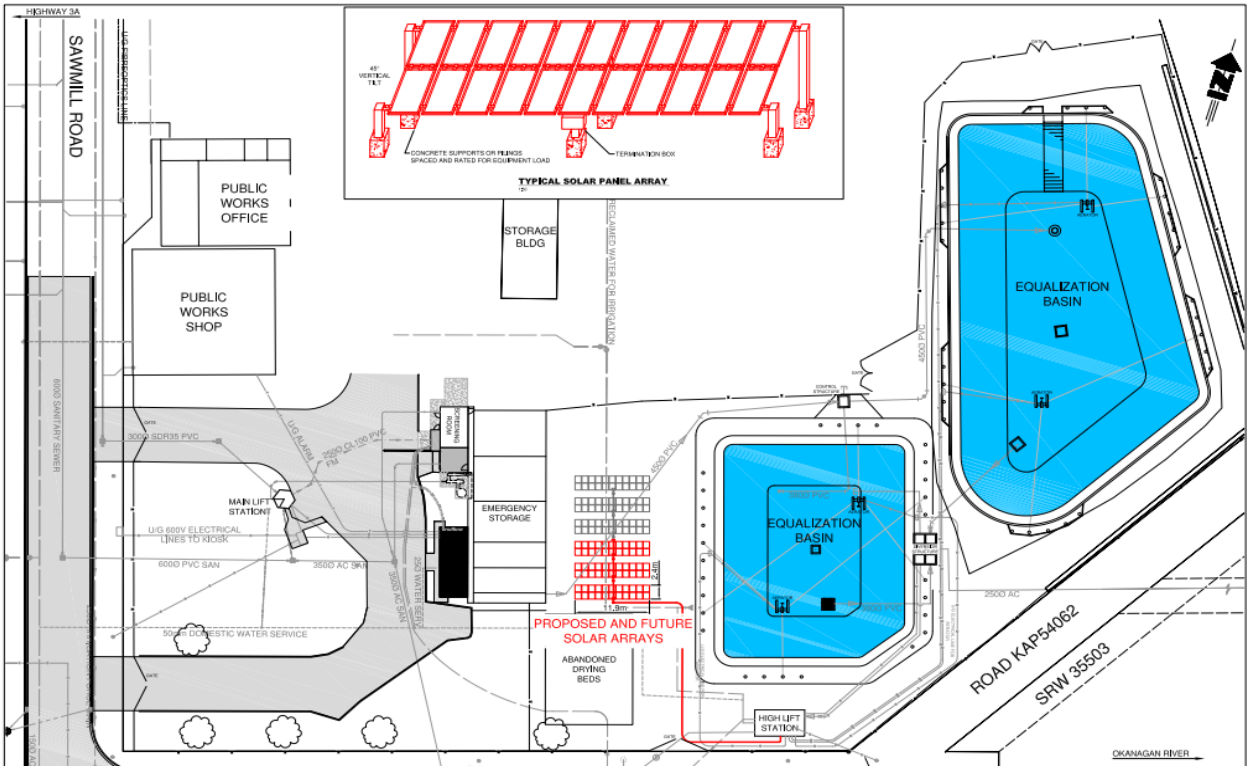
50 KW Photovoltaic (Solar) System for Public works equalization basins

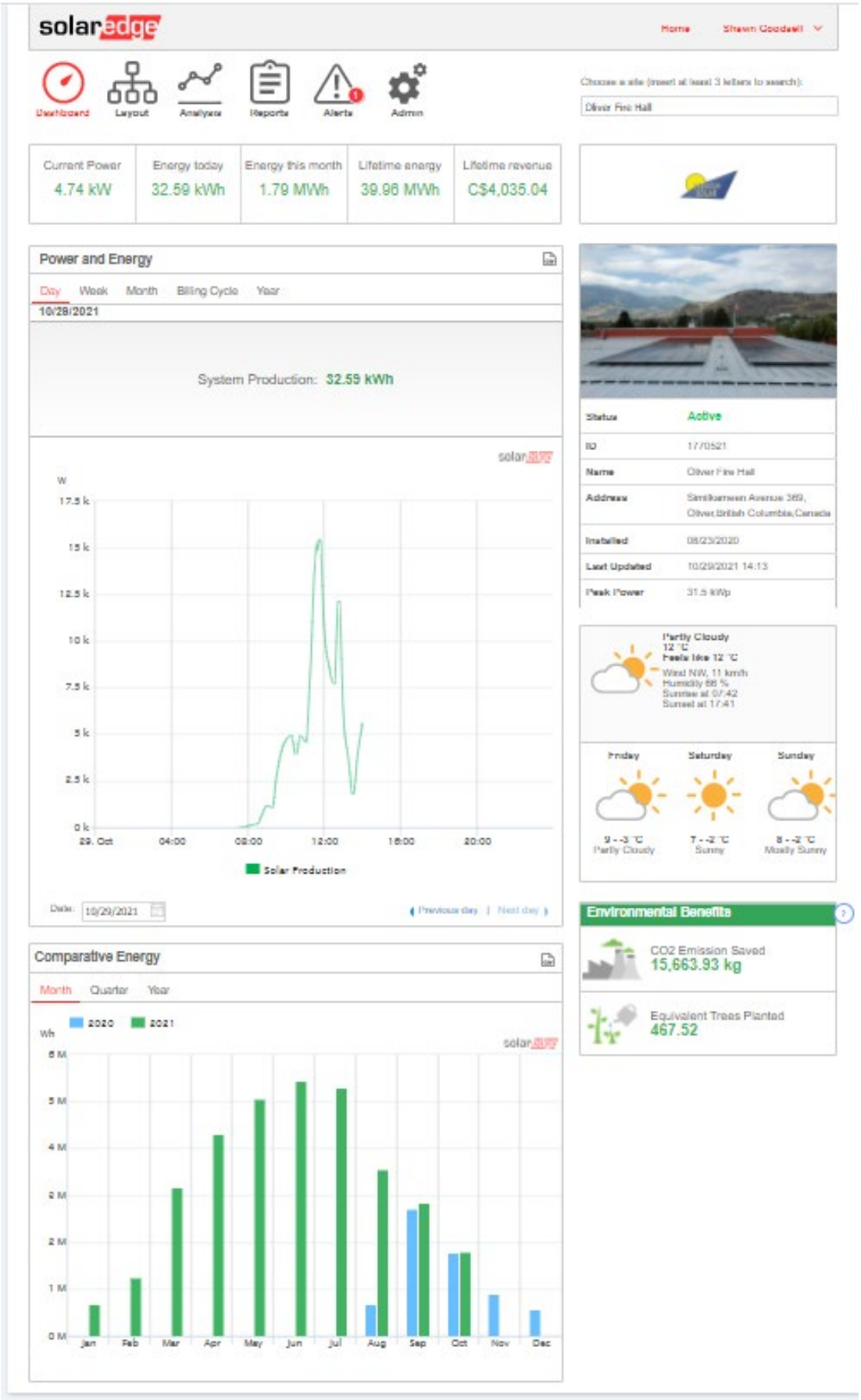
We have tried looking for a solar project for several years now in the sewer budget and we recently completed (2020) a 100 – 315 Watt panels (31.5 KW system) on the Firehall building for approximately $51,000. We are thinking of doing another solar project at our sewer treatment area at the public works yard to offset power costs to the equalization basin mixers and high lift HP pumps that transfer's sewage to the Topping Lake facility. This installation would be more per panel because it would not be on a building and on standing racks or could be a combo and would require more investigation. Council could decide on less money and we can design for the amount we would be able to do with it. This would help offset power costs and one of our highest power consumption sites.

Stats from Firehall solar panels since inception late Aug. (2020) Jan. 1 to Oct. 29, 2021:

- It has generated 39.09 MWh
- Saved approximately $4,035 on energy costs
- CO2 Emissions saved = 15,664 kg
- Equivalent of planting 467.5 trees

$ 380,000




solaredge
Home
Shawn Goodsell
Dashboard
Layout
Analyses
Reports
Alerts
Admin
Oliver Fire Hall
Current Power
4.74 kW
Energy today
32.59 kWh
Energy this month
1.79 MWh
Lifetime energy
39.96 MWh
Lifetime revenue
C$4,035.04
Power and Energy
Day
Week
Month
Billing Cycle
Year
10/28/2021
System Production: 32.59 kWh
W
17.5 k
15 k
12.5 k
10 k
7.5 k
5 k
2.5 k
0 k
29. Oct
04:00
08:00
12:00
16:00
20:00
Solar Production
Date:
10/29/2021
Previous day
Next day
Comparative Energy
Month
Quarter
Year
2020
2021
Wh
6 M
5 M
4 M
3 M
2 M
1 M
0 M
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Status
Active
ID
1770521
Name
Oliver Fire Hall
Address
Similkameen Avenue 369,
Oliver,British Columbia,Canada
Installed
08/23/2020
Last Updated
10/29/2021 14:13
Peak Power
31.5 kWp
Partly Cloudy
12 °C
Feels like 12 °C
Wind NW, 11 km/h
Humidity 66 %
Sunrise at 07:42
Sunset at 17:41
Friday
9 - -3 °C
Partly Cloudy
Saturday
7 - -2 °C
Sunny
Sunday
8 - -2 °C
Mostly Sunny
Environmental Benefits
CO2 Emission Saved
15,663.93 kg
Equivalent Trees Planted
467.52

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2033

December 2024 - No information on this project.

Design	**$ 27,000**
Construction	**$ 582,000**

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

Total **$ 1,525,000**

Similkameen Ave.-mill/pave & Overlay

Similkameen Ave is poor condition and requires full reconstruction

$300,000.00

Similkameen Ave. Drainage Upgrades

The existing drainage infrastructure has also exceeded the useful life expectancy of the drainage network..The drainage infrastructure in this area is a major intersection for the Drainage network for the Town and requires upgrades to improve drainage throughout the community.

$350,000.00

Combined General	$650,000.00

Similkameen Ave. Water Upgrades

The 1961 AC water infrastructure well exceeds its' life expectancy.

$30k design

Water **$566,000.00**

Similkameen Ave. Sewer Upgrades

The Sanitary sewer that runs along Similkameen and forms a bottle neck according to the Sanitary Capital Plan from 2019. The 1967 AC Sanitary sewer infrastructure exceeds its' life expectancy.

$20k design

Sewer **$426,000.00**

Project: S3 – Similkameen Avenue (Tulameen to Airport)

Priority:	2	**Type:**	Replacement/Upgrade
Trigger:	Capacity/Aging Infrastructure	**DCC:**	32%

Location Map

Issue

This main is a key connection in the sanitary collection network. The existing AC and VCT pipe is beyond its anticipated useful life of 50 years, and inspections in 2016 and 2017 reported that the pipe has significant condition issues. This segment of pipe is also flagged in the hydraulic model as having capacity issues under current and future wet weather conditions.

Scope

Replace approximately 415m of 200 mm and 75m of 250 mm of VCT/AC with 415m of 300 mm PVC and 85 m of 375 mm PVC to tie into existing 375 mm.

DCC Justification

This project is driven by need for additional capacity. DCC portion will be determined based on the change in cross sectional area of the upgrade and length of each section of pipe where the area is changing:

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

Total	$ 2,855,000

Main St.-mill/pave & Overlay

Main St. requires full reconstruction due to new underground infrastructure

$1,043,000.00

Main St. Drainage Upgrades

The 1964 AC drainage infrastructure has also exceeded the useful life expectancy of the drainage network..The drainage infrastructure in this area is a major intersection for the Drainage network for the Town and requires upgrades to improve drainage throughout the community.

$130,533.00

Combined General	$1,173,000.00

Main St. Water Upgrades

This project is driven by need for redundancy for the water main reservoir feed lines, to replace the existing watermains, the water main was installed in 1955 as AC watermain

$30k design

Water **$950,000.00**

Main St. Sewer Upgrades

The 1965 VCT sanitary sewer infrastructure exceeds its' life expectancy.

	$20k	design
Sewer	**$435,000.00**	

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2030

Total **$ 1,281,000**

Fairview Road/Park Drive -mill/pave & Overlay

The asphalt aprons require full reconstruction, milling will be required on the roadways

$460,000.00 **$ 15,000.00** design

Fairview Road/Park Drive Drainage Upgrades

The 1972 AC drainage infrastructure has also exceeded the useful life expectancy of the drainage network..The drainage infrastructure in this area is a major intersection for the Drainage network for the Town and requires upgrades to improve drainage throughout the community.

$10k design

$146,000.00

Combined General **$606,000.00**

Fairview Road/Park Drive Water Upgrades

This project is driven by environmental risks with the aged infrastructure crossing the Okanagan River. The existing watermains runs East to West along the south side of crossing, the water main was installed in 1961 as AC watermain

$ 20,000.00 design

Water **$350,000.00**

Fairview Road/Park Drive Sewer Upgrades

The existing gravity sanitary sewer main runs East to West along the south side of the crossing, this sanitary sewer has history of repairs close to the river crossing. The 1965 VCT sanitary sewer infrastructure exceeds its' life expectancy. The river crossing is a major sanitary crossing, being the only way of transporting sanitary flows from the East side of Town to the wastewater treatment process.

	$ 15,000.00	design
Sewer	**$275,000.00**	

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2034

Total	$ 3,785,000

Kootenay St -mill/pave & Overlay

Kootenay St is poor condition and requires full reconstruction

$2,105,000.00	$ 20,000.00	design

Kootenay St Drainage Upgrades

The drainage infrastructure has also exceeded the useful life expectancy of the drainage network..The drainage infrastructure in this area is a major intersection for the Drainage network for the Town and requires upgrades to improve drainage throughout the community.

$ 10,000.00	design
$354,000.00	

Combined General	$ 2,459,000

Kootenay St Water Upgrades

The existing watermains runs South to North along within the roadway, the water main was installed in 1945, 1955 & 1961 as AC watermain.

$ 30,000.00	design
Water	$745,000.00

Kootenay St Sewer Upgrades

The 1965 VCT sanitary sewer infrastructure exceeds its' life expectancy. The sanitary sewer has history of multiple repairs and requires upgrades.

	$ 30,000.00	design
Sewer	$581,000.00	

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2032

This project is the only drain that exists for the Town's domestic water reservoir. The drainage main is critical infrastructure for the Town and is past its end-of-life expectancy. This stretch of drainage main had multiple sections upgraded to ultra rib PVC. The sections of the reservoir drainage main that consist of wood stave pipe covered with concrete will need to be replaced. Multiple blockages have been removed from the drainage main that were identified as pieces of wood from the wood stave pipe.

$ 375,000	Construction
$ 35,000	Design

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

This project is driven by need for additional capacity for the water main reservoir feed lines. The water main feed lines are critical infrastructure for the Town and are a few years away from the end of their life expectancy.

$ 1,100,000

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2029

This project is driven by environmental risks with the aged infrastructure crossing the Okanagan River. The existing watermains runs East to West along the south side of crossing. The river crossing is a major water crossing, being one part of the loop for the Town that connects both side of the Town together. The water infrastructure has passed exceeded its life expectancy.

$	450,000	Construction
$	50,000	Design

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2033

This project is driven by aged infrastructure that should have been replaced with the reconstruction of the roadway. The water infrastructure has passed exceeded its life expectancy.

$	255,000	Construction
$	40,000	Investigation/Design

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2034

Laneway between Main Street and Okanagan

This project is driven by aged infrastructure that should have been replaced with the reconstruction of the roadway. The water infrastructure has passed exceeded its life expectancy.

$	475,000	Construction
$	40,000	Design

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2032

This project is driven by aged infrastructure that should have been replaced with the replacement of the sanitary infrastructure. The water infrastructure has passed exceeded its life expectancy.

$	1,450,000
$	55,000 design

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2031

This project is driven by environmental risks with the aged infrastructure crossing the Okanagan River. The existing watermains runs East to West along the south side of crossing. The river crossing is a major water crossing, being one of the watermains that connects system 2 to the other systems. The water infrastructure has passed exceeded its life expectancy.

$	350,000
$	25,000 Design

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2031

This project is driven by supply demands, risks with limited pump capacities for the Town and development. The proposed water pump station will be located within the Town Boundary. A river crossing would be required to loop both sides of the Town.

$	5,695,000	
$	150,000	Testing & Report
$	100,000	design

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2031

This project is a key connection in the sanitary collection network, and services a corridor of future development. The sanitary sewer main is critical infrastructure for the Town and is past its end-of-life expectancy. Based on relining sewer.

$	250,000	Construction
$	25,000	Design

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2027

This project is a key connection in the sanitary collection network, and services a corridor of future development. The sanitary sewer main is critical infrastructure for the Town and is past its end-of-life expectancy. This stretch of sanitary sewer main had multiple spot repairs.

$	800,000
$	45,000 design

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2028

This project is a key connection in the sanitary collection network, and services a corridor of future development. The sanitary sewer main is critical infrastructure for the Town and is past its end-of-life expectancy. This stretch of sanitary sewer main had multiple spot repairs.

$	315,000
$	20,000 design

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2029

Upgrades to the wastewater treatment plant, requirements for WSER 2040 deadline.

$	5,000,000
$	125,000 design

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2029

Mud Lake Irrigaiton VFD/Soft Starts electrical Upgrade/HVAC/Flow Meter/ New MCC

$ 500,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

New Main Line Valve isolaiton 18" Valve at Kobau pump station Road 18

$ 40,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

New Main Line Valve isolaiton 12" Valve at Park Rill System #1

$	40,000

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2027

Raw Water line investigation and Replacement

$	5,000,000	
$	150,000	Investigation
$	75,000	Design

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2025

Annual fire hydrant replacement

$ 20,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2025

New Scada and PLC upgrade for entire system water and sewer. They do not make parts anymore for our scada communication system. Continuous problems with Scada software not getting proper data

$	925,000	Entire Project (25-29)
$	225,000	2025 Request

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

Rockcliffe Dom. VFD/Soft Starts Elect. Upgrade

This part of our constant upgrades for our older pumphouses. This Pumphouse, located on Skagit Avenue, is one of biggest domestic pumps. We need to consider upgrading some electrical (MCC) and controls in the pumphouse as well upgrade the pump controls; Variable Frequency Drive & Soft Starts for better power efficiency and easier on the equipment when pumps start up and wind down.

$ 500,000

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2029

Total	$ 1,600,000

Station St -mill/pave & Overlay

Station St is poor condition and requires full reconstruction

	$ 20,000.00	design
Road	$750,000.00	

Station St Drainage Upgrades

The drainage infrastructure has also exceeded the useful life expectancy of the drainage network..The drainage infrastructure in this area is a major intersection for the Drainage network for the Town and requires upgrades to improve drainage throughout the community.

	$150,000.00

Station St Water Upgrades

The existing watermains runs South to North along within the roadway, the water main was installed in 1955 as AC watermain.

	$ 30,000.00	design
	$400,000.00	

Station St Sewer Upgrades

The 1965 VCT sanitary sewer infrastructure exceeds its' life expectancy. The sanitary sewer has history of multiple repairs and requires upgrades.

$ 30,000.00	design
$300,000.00	

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2030

Total	$ 1,850,000

Okanagan St -mill/pave & Overlay

Okanagan St is poor condition and requires full reconstruction

	$1,000,000.00	$ 25,000.00	design
Combined General	$1,300,000.00		

Okanagan St Drainage Upgrades

The drainage infrastructure has also exceeded the useful life expectancy of the drainage network..The drainage infrastructure in this area is a major intersection for the Drainage network for the Town and requires upgrades to improve drainage throughout the community.

$ 10,000.00	design	
$300,000.00		

Okanagan St Water Upgrades

The existing watermains runs South to North along within the roadway, the water main was installed in 1945, 1955 & 1961 as AC watermain.

Water	$ 35,000.00	design
	$350,000.00	

Okanagan St Sewer Upgrades

The 1965 VCT sanitary sewer infrastructure exceeds its' life expectancy. The sanitary sewer has history of multiple repairs and requires upgrades.

Sewer	**$ 35,000.00**	design
	$200,000.00	

Summary

PRIORITY	P1	Year	Year
ASSESSMENT	Critical	2025	2034

Gate Valve Replacements

Annual replacement of valves on the water systems.

$ 20,000

Summary

PRIORITY	P3	P4	Year	Year
ASSESSMENT	Essential	Essential	2029	2034

SCADA Computer replacements

Replacement of the SCADA computers every 5 years

$	20,000	Water
$	10,000	Sewer

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

Influent Lifstation Elec. Upgrades

Influent Liftstation Electrcial system upgrades

$ 125,000

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2028

Scott Rd Lifstation Upgrades

Scott Rd Liftstation Electrcial system upgrades

$ 175,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2027

2028

Bing to Hillside SIPP/CIPP Sewer Main in Rear Yards Design

Relining the sanitary sewer that runs through the easements of multiple places.

	2027	Design	$ 35,000
	2028	Construction	$ 350,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2025

Banner Replacement

Banner Replacement every year for 4 years

$	10,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

Firehall HVAC Replacement

Firehall HVAC Replacement	
	$ 60,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2031

2033

Irrigation Main Gala to Siphon Investigation/NDT

Sleeve New Irrigation Main Gala to Siphon Investigation/NDT

NDT	$ 150,000
Design	$ 150,000
General	$ 250,000
Water	$ 3,000,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

2028

Diversion Control Gates and Motors Design/Investigation

Diversion Control Gates, Motors Design/Investigation and Construction

Design	$	50,000
Constructio	$	500,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2027

Black Sage 2B River Intake Gate

Black Sage 2B River Intake Gate

$ 350,000


ACAB

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2027

Well Decommisioning Tucelnuit

Well Decommisioning Tucelnuit, possible asbestos removal

$ 100,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2027

Well Decommisioning Blacksage

Well Decommisioning CPR, possible asbestos removal

$ 100,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2028

Well Decommisioning Blacksage

Well Decommisioning Blacksage, possible asbestos removal

$ 35,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

2027

S1 - Fariview to Sawmill Rd. Sanitary Main

This main is a very critical connection in the sanitry collection network, 300mm VCT pipe has passed it's anticipated useful life

	General	Design	$ 5,000
	Sewer	Design	$ 40,000
General	Construction		$ 900,000
Sewer	Construction		$ 60,000

TRUE

Project: S1 – Fairview to Sawmill Road

Priority: 1 **Type:** Replacement/Upgrade
Trigger: Future Development **DCC:** 75%

Location Map

Issue

This main is a very critical connection in the sanitary collection network, and services a corridor of future development. The 300 mm VCT pipe has surpassed its anticipated useful life.

Scope

Removal of approximately 315m of 300 mm VCT. Installation 315m of 600 mm PVC including reconnection of all existing services. New connections for future development are required.

DCC Justification

This project increases the capacity of the system for long term growth. DCC portion will be determined based on the change in cross sectional area of the upgrade:

$$DCC\ \% = 1 - \frac{\left(\frac{\pi(D_1)^2}{4}\right)}{\left(\frac{\pi(D_2)^2}{4}\right)} = 1 - \left(\frac{D_1}{D_2}\right)^2 = 1 - \left(\frac{0.3}{0.6}\right)^2 = 75\%$$

Time Frame

1-3 years

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2030

2031

W2-Park Drive Water Looping

Watermain Looping on Park Drive Between Eastside Avenue to Tucelnuit Drive, to imporve fire flow and water quality.

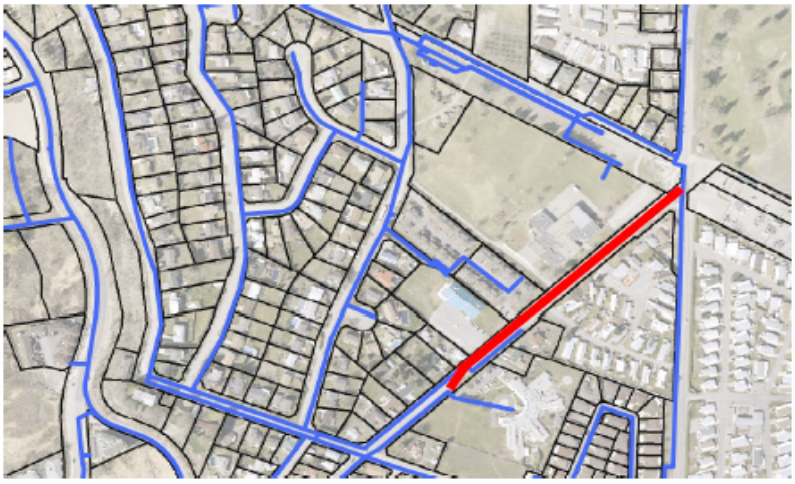
	General	Design	$ 7,500
	Water	Design	$ 20,000
General	Construction		$ 150,000
Water	Construction		$ 375,000

Project: W2 – Park Drive Looping

Priority: **Type:** Upgrade

Trigger: Development

Location



Issue

As growth occurs the available fire flow at the Tuc el Nuit School decreases from approximately 140 L/s to 129 L/s in the future condition. Extra hydraulic capacity to the school is required to have adequate fire flow to a critical building in the community. After the upgrade the available fire flow capacity of the system will be greater than approximately 200 L/s.

Scope

Based on the conceptual alignment approximately 410 m of 200 mm will be required. It is recommended that the main be constructed at the same time as road re-construction and the cost estimate assumes as such.

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2030

2031

W12-Fairview Okanagan to Kootenay

Watermain Looping for Fairview Road from Okanagan Street to Kootenay Street

	General	Design	$ 15,000
	Water	Design	$ 5,000
General	Construction		$ 75,000
Water	Construction		$ 200,000

Project: W12 – Fairview – Okanagan to Kootenay

Priority: Medium **Type:** Rehab/Replacement
Trigger: Aging Infrastructure

Location

Issue

The main is a 200 mm AC pipe and has 2 years remaining in its anticipated useful life (50 years).

Scope

Rehab approximately 220 m of 200 mm main or replace with 200 mm PVC.

Time Frame

5 years

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2031

2032

W13-Sawmill Road Similkameen Avenue to Spruce Street

Watermain Design and construction

	General Design	$	5,000
	Water Design	$	20,000
General	Construction	$	150,000
Water	Construction	$	300,000

Project: W13 – Sawmill – Similkameen to Spruce

Priority: Medium **Type:** Rehab/Replacement
Trigger: Aging Infrastructure

Location

Issue

The main is a 200 mm AC pipe and has 2 years remaining in its anticipated useful life (50 years).

Scope

Rehab approximately 520 m of 200 mm main or replace with 200 mm PVC.

Time Frame

5 years

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2033

2034

W14-Similkameen Avenue, Airport Street to Cessna Street.

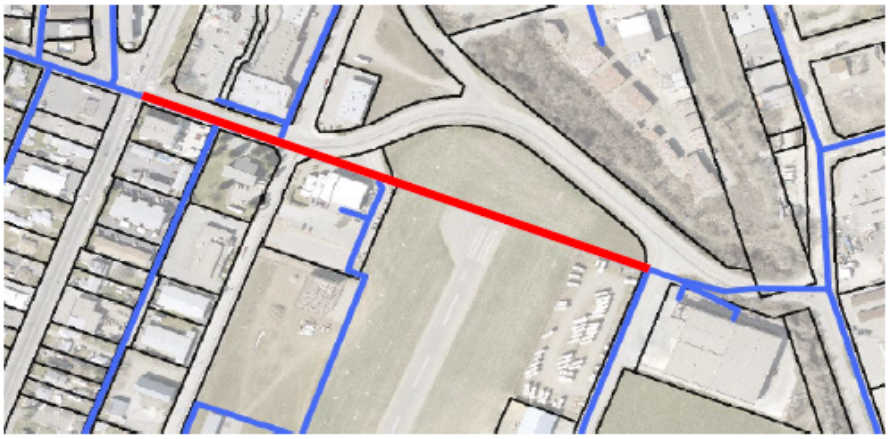
Watermain Design and construction

	General	Design	$ 5,000
	Water	Design	$ 20,000
General	Construction		$ 75,000
Water	Construction		$ 375,000

Project: W14 – Similkameen – Main to Sawmill

Priority: Medium **Type:** Rehab/Replacement
Trigger: Aging Infrastructure

Location



Issue

The main is a 200 mm AC pipe and has 7 years remaining in its anticipated useful life (50 years).

Scope

Rehab approximately 460 m of 200 mm main or replace with 200 mm PVC.

Time Frame

5 years

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2031

2033

W11-Lakeside Drive, Metlot Ave to Eastside Ave, Watermain

Watermain Design and construction

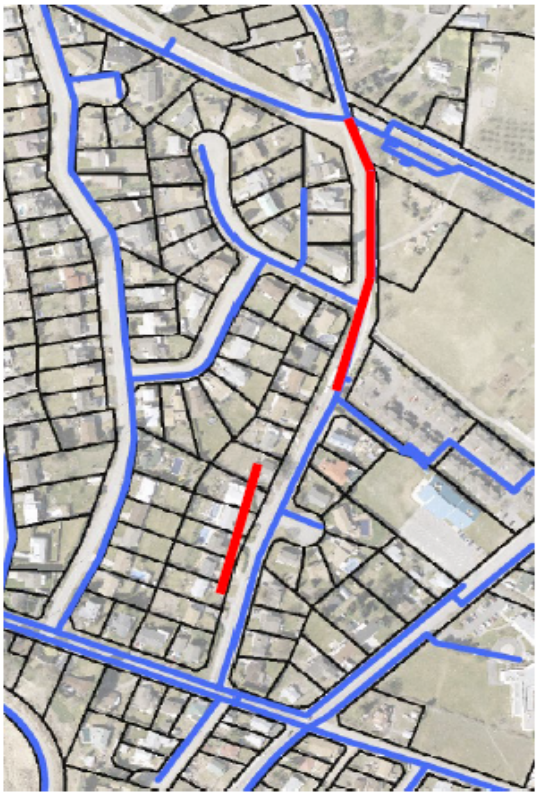
	General	Design	$ 5,000
	Water	Design	$ 20,000
General	Construction		$ 200,000
Water	Construction		$ 300,000

Project: W11 – Lakeside – Merlot to Eastside

Priority: **Type:** Rehab/Replacement

Trigger: Aging Infrastructure

Location



Issue

This section of the system is the key feed to the local hospital. The main is a 200 mm AC pipe and has 7 years remaining in its anticipated useful life (50 years).

Scope

Rehab approximately 500 m of 200 mm main or replace with 200 mm PVC. Project should be done in conjunction with road rehabilitation and is reflected in the cost estimate.

Time Frame

To be coordinated with future road reconstruction project on Lakeside.

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2031

2032

W10-McKinney Rd. Park Dr to Hospital Watermain Replacement

Watermain Design and construction. This Section of the systrem is the key feed to the hospital. The main is 200mm AC pipe and has passed it's anticipated useful life.

	General	Design	$ 5,000
	Water	Design	$ 15,000
General	Construction		$ 150,000
Water	Construction		$ 285,000

Project: W10 – McKinney Road – Park to Hospital

Priority: High **Type:** Rehab/Replacement
Trigger: Aging Infrastructure

Location

Issue

This section of the system is the key feed to the local hospital. The main is a 200 mm AC pipe and has 2 years remaining in its anticipated useful life (50 years).

Scope

Rehab approximately 440 m of 200 mm main or replace with 200 mm PVC.

Time Frame

3 years

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2028

Unit #24 Pickup (2007) Replacement

Unit #24 Pickup (2007) Replacement, New Electric Truck to meet Climate Action Plan on Emmisions for 2030 Goal

$	90,000

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2029

Unit #34 Chipper (1993)

Unit #34 Chipper (1993)

$	75,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2030

Unit #4 Pickup (2009)

Unit #4 Pickup (2009), New Electric Truck to meet Climate Action Plan on Emmisions for 2030 Goal

$	90,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2031

Unit #3 Pickup (2009)

Unit #3 Pickup (2009), New Electric Truck to meet Climate Action Plan on Emmisions for 2030 Goal

$	90,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2032

Unit #6 Pickup (2009)

Unit #6 Pickup (2009), New Electric Truck to meet Climate Action Plan on Emmisions for 2030 Goal

$ 90,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2033

Unit #8 Pickup (2009)

Unit #8 Pickup (2009), New Electric Truck to meet Climate Action Plan on Emmisions for 2030 Goal

$	90,000

Summary

PRIORITY	P3	Year
ASSESSMENT	Essential	2034

Unit #13 Forklift (2001)

Unit #13 Forklift (2001)

$	35,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2028

Municipal Electric Vehicle Chargers Plan Parks and Rec

Municipal Electric Vehicle Chargers Plan Parks and Rec	
	$ 400,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2027

Municipal Electric Vehicle Chargers Plan Town Hall

Municipal Electric Vehicle Chargers Plan Town Hall

$ 400,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2026

Municipal Electric Vehicle Chargers Plan Public Works

Municipal Electric Vehicle Chargers Plan Public Works

$	400,000

Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2030

New Columbarium for Cemetary

New Columbarium for Cemetary

$ 50,000

Summary

PRIORITY	P1	Year
ASSESSMENT	Critical	2032

New GPS Equipment

New GPS Equipment
$ 50,000

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Summary

PRIORITY	P2	Year
ASSESSMENT	Vital	2028

Unit #49 Building Offical Vehicle (2008)

Unit #49 Building Offical Vehicle (2008)

$ 55,000