

### **AGENDA**

City of Salmon Arm
Development and Planning Services
Committee

Monday, November 16, 2020 8:00 a.m. Council Chambers, City Hall 500 – 2 Avenue NE

| Page #  | Item# | Description  |
|---------|-------|--|
| Th      | 1.    | CALL TO ORDER  |
|         | 2.    | ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together. |
|         | 3.    | REVIEW OF AGENDA   |
|         | 4.    | DISCLOSURE OF INTEREST   |
|         | 5.    | REPORTS  |
| 1 - 12  | 1.    | Zoning Amendment Application No. ZON-1189 [South Central Electric Ltd.; 1140 – 17 Avenue SE; R-1 to R-8]   |
| 13 - 20 | 2.    | Highway Closure Bylaw No. 4422 [City of Salmon Arm; Part of 17 Street SW]  |
|         | 6.    | PRESENTATIONS  |
| 21 - 50 | 1.    | J. Wilson, City Engineer – City of Salmon Arm Asset Management   |
|         | 7.    | FOR INFORMATION  |
|         | 8.    | CORRESPONDENCE   |
|         | 9.    | ADJOURNMENT  |

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## LMONA

To:

His Worship Mayor Harrison and Members of Council

Date:

November 9, 2020

Subject:

Zoning Bylaw Amendment Application No. 1189

Lot 29, Section 12, Township 20, Range 10, W6M, KDYD, Plan

EPP83069

Civic:

1140 - 17 Avenue SE

Owner/Applicant: South Central Electric Ltd.

#### MOTION FOR CONSIDERATION

THAT:

a bylaw be prepared for Council's consideration, adoption of which would amend  $\circ$ Zoning Bylaw No. 2303 by rezoning Lot 29, Section 12, Township 20, Range 10, W6M, KDYD, Plan EPP83069 from R-1 (Single Family Residential Zone) to R-8 (Residential Suite Zone).

#### STAFF RECOMMENDATION

THAT the Motion for Consideration be adopted.

#### **PROPOSAL**

The subject parcel is located at 1140 - 17 Avenue SE in the new Byersview Subdivision (Appendix 1 & 2). The proposal is to rezone the parcel from R-1 (Single Family Residential) to R-8 (Residential Suite) to permit a secondary suite within a new single family dwelling. Site photos are attached as Appendix 3.

#### **BACKGROUND**

The subject parcel is designated Low Density Residential in the City's Official Community Plan (OCP) and zoned R-1, Single Family Residential in the Zoning Bylaw (Appendix 4 & 5). The neighbourhood is largely comprised of R-1 zoned parcels containing single family dwellings. There are four other lots in the subdivision with R-8 zoning for secondary suites in new houses. There are still many larger rural properties zoned A-2 to the south and west of Byersview. In 2019, a large A-2 zoned parcel to the east was rezoned to R-8 in preparation for a future, 40-lot subdivision.

The subject parcel has an area of 882 m<sup>2</sup> (.22 acres) and a parcel width of 19.86 m (65 ft). The size and width of the subject property can meet the conditions as specified within the proposed R-8 Zone.

The applicant wishes to construct a new house with a secondary suite on the lower level. Building plans have been submitted, see Appendix 6. The lower level floor plan indicates the proposed suite to be 80 m<sup>2</sup> (864 ft²) and the site plan shows a double car garage and a driveway with a width of 13.4 m (44 ft). Although the driveway width can easily accommodate an extra parking space for the suite, additional suite parking is shown on the site plan adjacent to the eastern parcel line. There is a 3 metre easement where the additional suite parking is proposed. The easement is for securing sanitary and storm services located on private property and the applicant has indicated this parking area will be of gravel to provided unobstructed access to the easement area.

Policy 8.3.25 of the OCP provides for the consideration of secondary suites in all residential designated areas subject to compliance with the Zoning Bylaw and the BC Building Code.

#### **COMMENTS**

#### **Engineering Department**

No Engineering Department concerns.

#### **Building Department**

BC Building Code will apply. No concerns with proposed zoning.

#### Fire Department

No response to date.

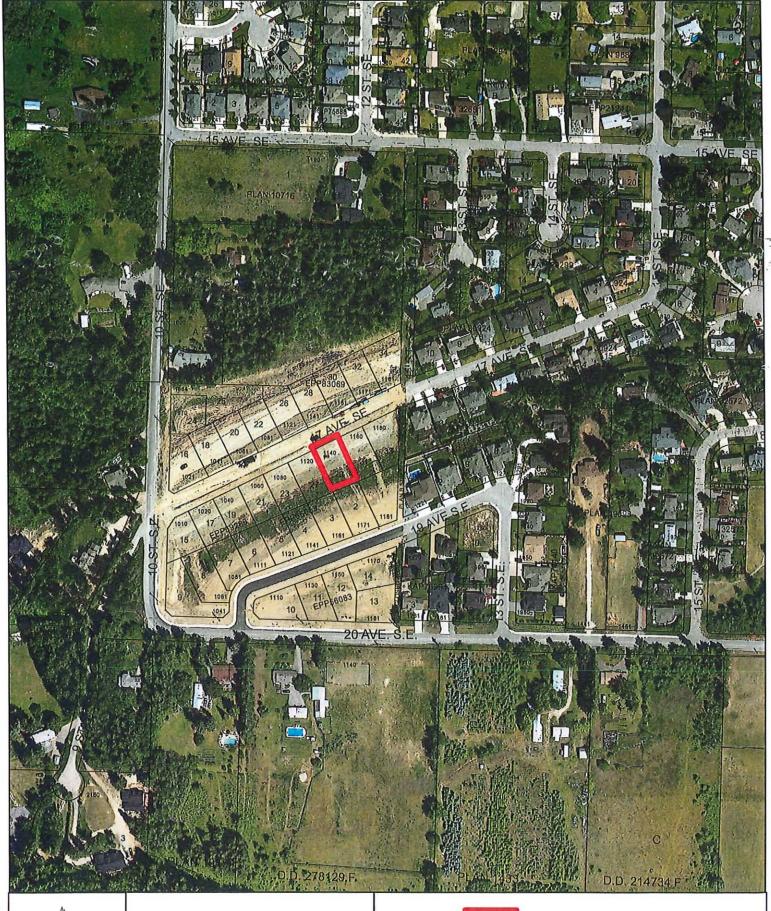
#### **Planning Department**

The proposed R-8 zoning is consistent with the OCP and therefore supported by staff. The plans provided indicate the requirements specified in the R-8 Zone are achievable, including the provision of onsite parking. Development of a dwelling with a secondary suite requires a building permit and is subject to meeting Zoning Bylaw and BC Building Code regulations.

Report by: Denise Ackerman, Planner

Kevin Pearson, MCIP, RPP Director of Development Services

APPENDIX 1: Location Map



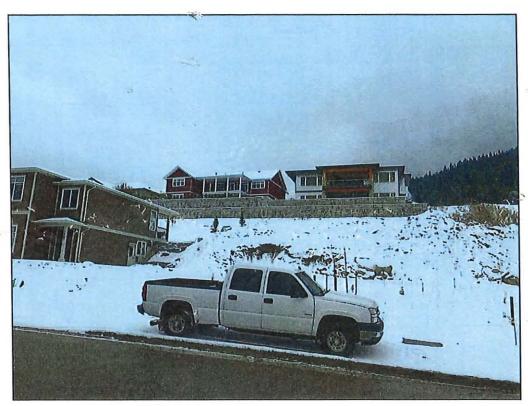


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Subject Parcel

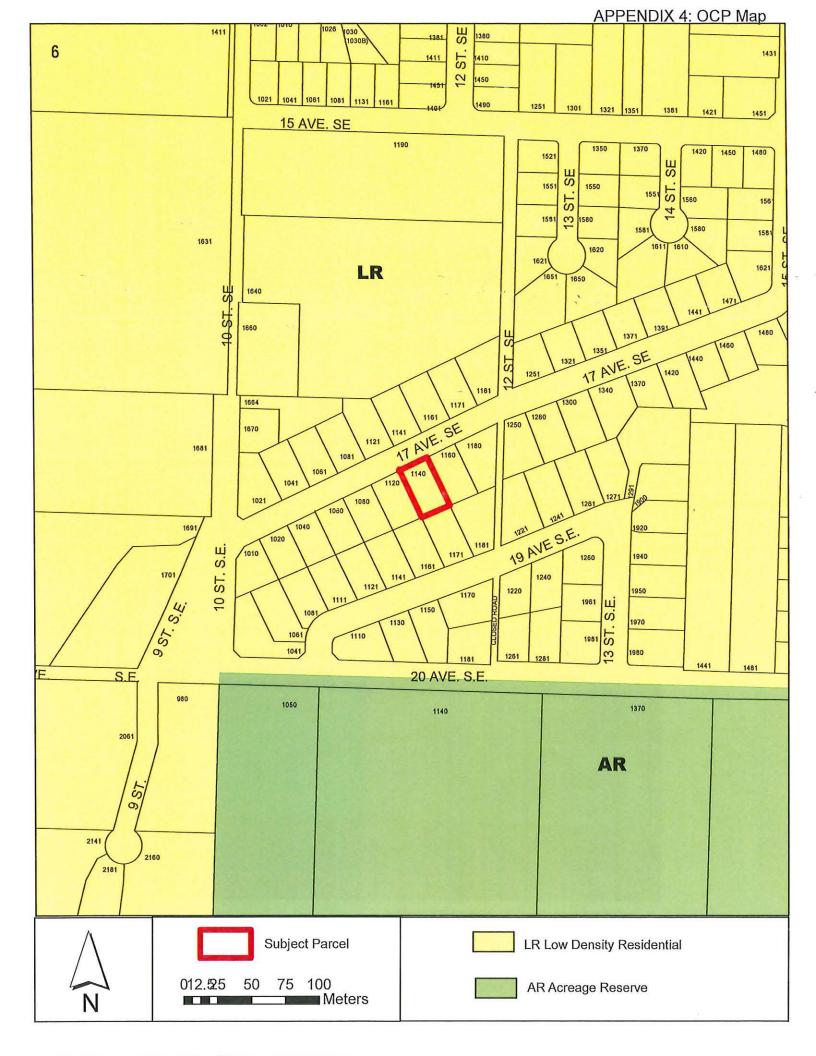


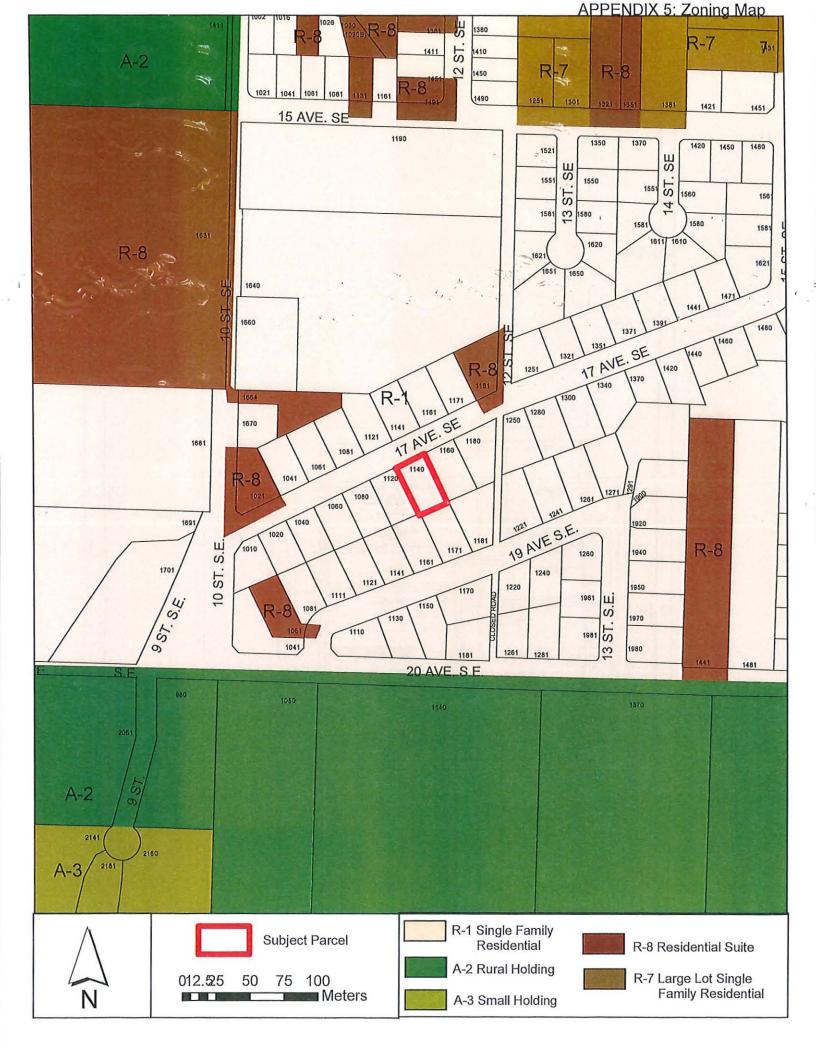


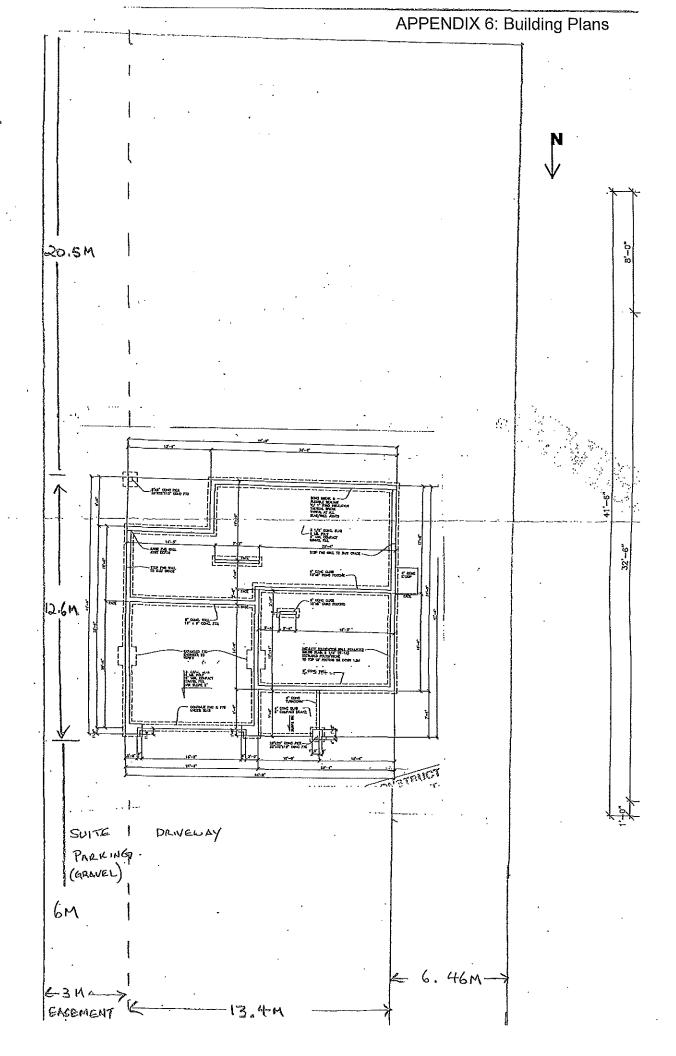
View of subject property looking south.

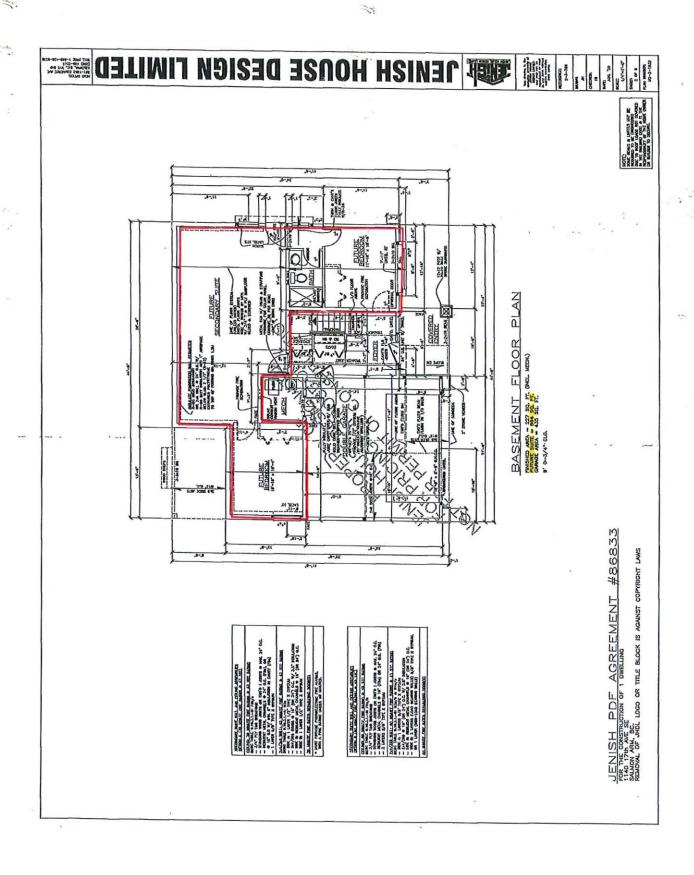


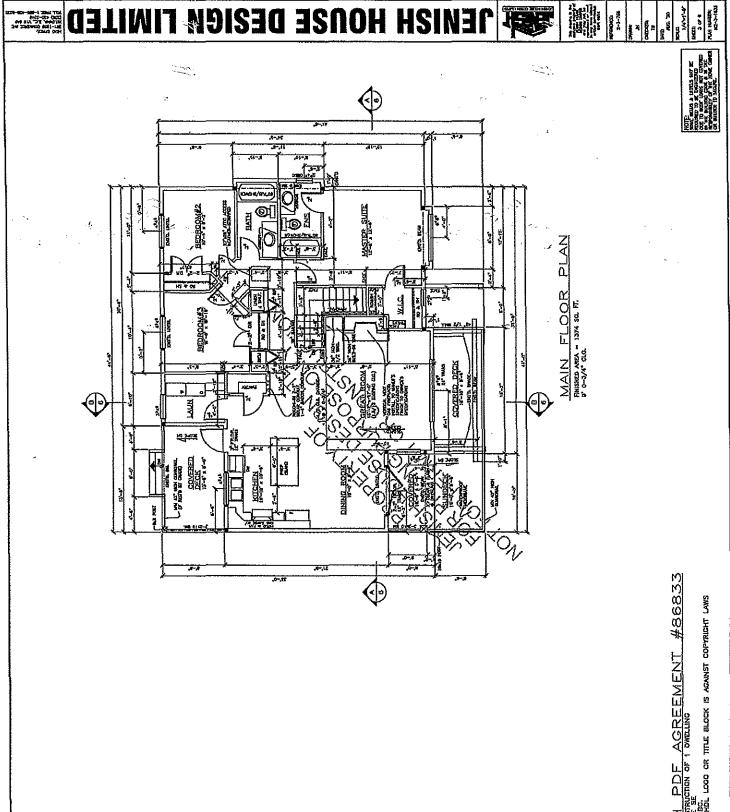
View of subject property looking southwest.













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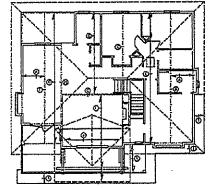
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APPENDIX 6: **Building Plans** 

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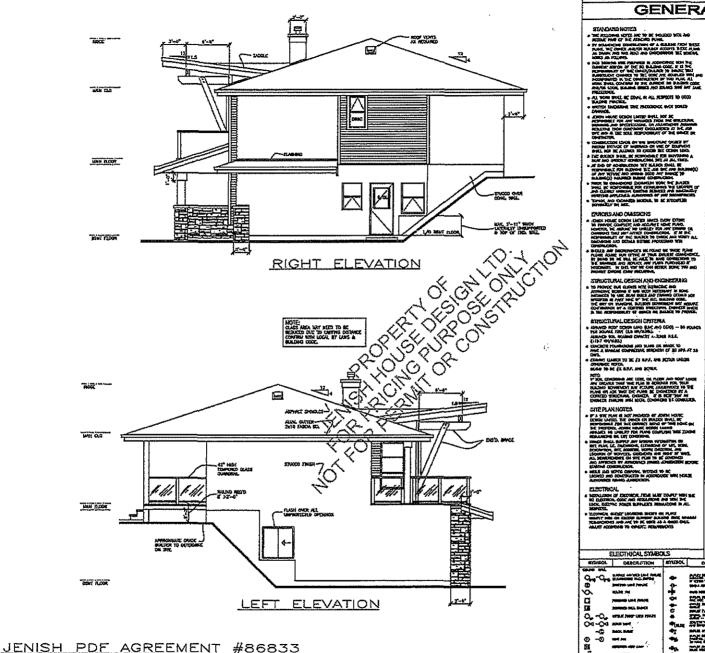
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# SALMONARM

To:

His Worship Mayor Harrison and Members of Council

DATE:

November 10, 2020

SUBJECT:

Proposed Road Closure and Disposal - Part of 17 Street SW

Applicant: City of Salmon Arm

#### MOTION FOR CONSIDERATION

THAT:

City of Salmon Arm Highway Closure Bylaw No. 4422 proceed to first, second and

third readings;

AND THAT:

Final Reading of City of Salmon Arm Highway Closure Bylaw No. 4422 be subject

to Compliance with Section 26 (Notice of Proposed Property Disposition) and Section 94 (Requirements for Public Notice) of the Community Charter and Policy

3.16 (Notification).

#### STAFF RECOMMENDATION

THAT:

The motion for consideration be adopted.

#### **PROPOSAL**

The identified area in the Motion for Consideration is a section of 17 Street SW between 1771 – 10 Avenue SW and 921 – 17 Street SW (Appendix 1). The purpose of the road closure is to accommodate Trans Canada Highway (TCH) intersection works (Appendix 2). The new intersection design effectively eliminates the access to 17th and therefore the City needs the road closure to ensure that proper access onto 10 Ave can be maintained for City property. It is expected that the piece of road will be incorporated into the two adjacent properties, with the details of the realignment to be determined in the future. A copy of Bylaw No. 4422 including Reference Plan EPP106452 is attached (Appendix 3).

#### **BACKGROUND**

The area identified for the road closure is 0.221 ha (0.55 acres) in size to the east of the intersection of the TCH and 10 Avenue SW. The northern portion of 17 Street SW across First Nations lands has been officially closed for over a decade (July 2004), with the proposed closure of this section of City road right-of-way initiated to support the Ministry of Transportation and Infrastructure's highway intersection works. This City portion of closed road area will be consolidated into the adjacent parcels at some future point with the final configuration to be determined.

More specifically, the raising of title of the road and proposed land transfer, assuming the adoption of Bylaw No. 4422, would not be considered by the City's Approving Officer until the following conditions have been completed:

 The subject lands being consolidated with adjacent parcels concurrently with the proposed subdivision;

- 2. Registration of a statutory right of way, as required by Telus, for the protection of existing infrastructure;
- 3. Registration of a statutory right of way, as required by Fortis BC, for protection of the existing gas main;
- Registration of a statutory right of way, as required by BC Hydro, for the protection of existing infrastructure.

#### COMMENTS

Staff and outside agencies have reviewed the proposal and provide the following:

#### Ministry of Transportation & Infrastructure

No comment at time of writing this report. Final Approval required.

#### Telus

Telus has existing infrastructure within the area of proposed road closure. No concerns subject to registration of a statutory right of way.

#### **FortisBC**

No concerns.

#### Fire Department

No concerns.

#### **Engineering Department**

The Engineering Department supports the proposal.

#### Planning Department

This is one of several necessary steps to support MOTI's new intersection at 17 Street SW and the TCH. The plan and details for physically closing the road are not addressed in this report, nor are the future parcel line adjustments involving the City land and Buckerfields.

Staff are in support of the road closure and disposition as proposed for the following reasons:

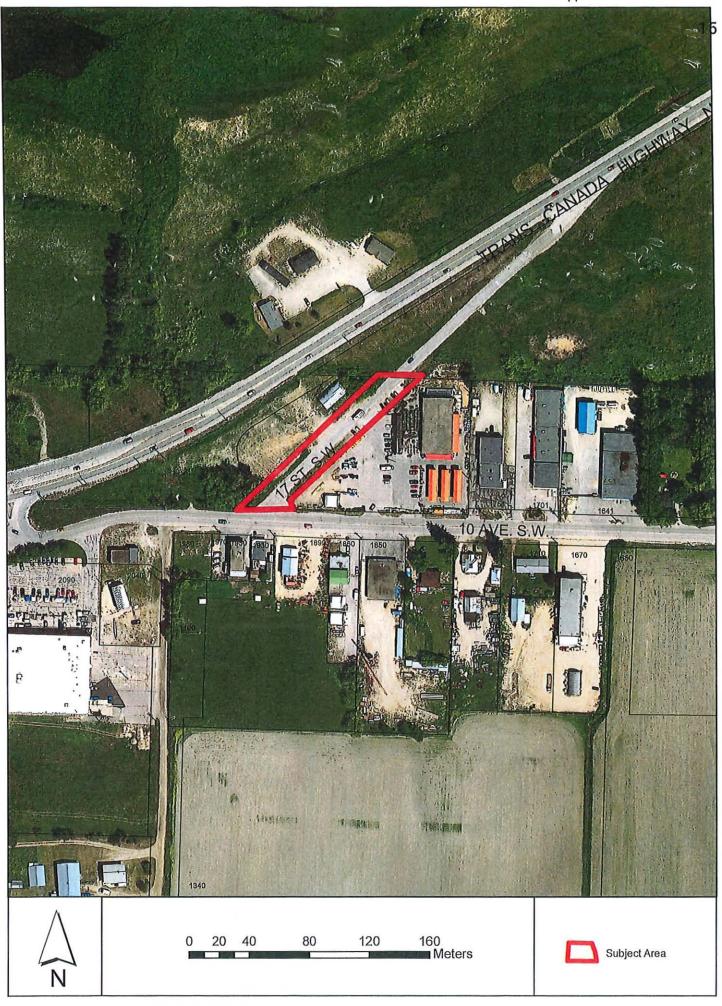
- 1. The dedicated road is not required for future road networks plans.
- 2. Staff is of the opinion that the proposal will benefit the potential of adjoining lands.
- 3. Staff understands that MOTI will address requisite consultation and complete the associated works to address the closed northern portion of 17 Street SW.

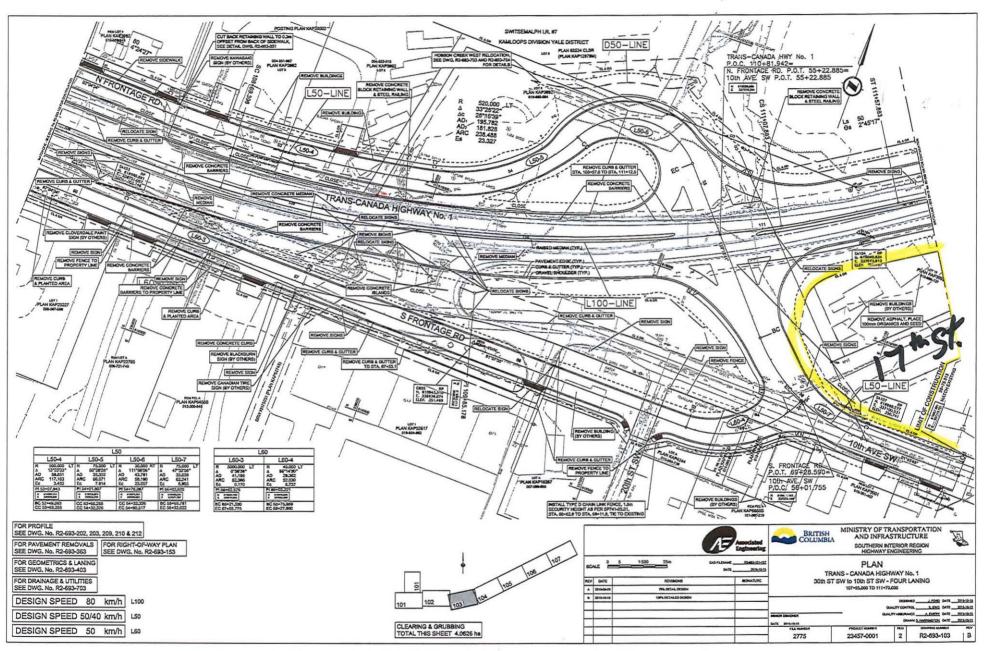
Prepared by: Chris Larson, MCIP, RPP

Senior Planner

Reviewed by: Kevin Pearson, MCIP, RPP

Director of Development Services





#### CITY OF SALMON ARM

#### **BYLAW NO. 4422**

Being a Bylaw to Close to Traffic, Remove the Dedication as Highway and Dispose of a Portion of Road, Plan 1672, Sec. 15, Tp. 20, R. 10, W6M, KDYD

WHEREAS, pursuant to Section 40 of the Community Charter, SBC, 2003 Chapter 26, and amendments thereto, Council may, by bylaw, close a portion of highway to traffic and remove the dedication of a highway, if prior to adopting the bylaw, Council publishes notice of its intention in a newspaper and posts the notice in the public notice posting place, and provides an opportunity for persons who consider they are affected by the bylaw to make representations to Council;

AND WHEREAS the Provincial Government's right of resumption under Section 35(8) of the Community Charter, SBC, 2003, Chapter 26 and amendments thereto, in relation to a highway or portion of a highway that was vested in a municipality pursuant to Section 35(1) of this Act, is cancelled if the Corporate Officer of the municipality files with the Land Title Office a statement certifying that the highway closure and removal of dedication complies with the Regulation of the Minister of Transportation B.C. Regulation 245/2004 (June 4, 2004) as amended by B.C. Regulation 18/2008 (January 25, 2005), made under the authority of the Community Charter, Section 35(10)(b);

AND WHEREAS the Council deems it expedient to close to traffic, remove the dedication of highway and dispose of that portion of Road, comprising 0.221 ha dedicated at the Kamloops Land Title Office by Plan 1672, Sec. 15, Tp. 20, R. 10, W6M, KDYD which is shown outlined in bold black ("Closed Road") on the Reference Plan EPP106452 prepared by Joseph Charles Johnson, BCLS, Browne Johnson Land Surveyors, on October 28, 2020, a reduced copy of which is attached hereto (the "Plan");

AND WHEREAS notices of the Council's intention to close the portion of highway to traffic, to remove its dedication as highway, and to dispose of it were published in a newspaper and posted in the public notice posting place;

AND WHEREAS the Council does not consider that the closure of the portion of highway will affect the transmission or distribution facilities or works of utility operators;

AND WHEREAS the disposition of Closed Road will be to the registered owner of the adjacent property (legally described as Lot 10, Plan 3992 Except EPP79117, Sec. 15, Tp. 20, R. 10, W6M, KDYD and as Parcel A (Plan B5781) of Lot 3, Plan 1672, Sec. 15, Tp. 20, R. 10, W6M, KDYD and will be consolidated into the adjacent property;

Highway Closure Bylaw No. 4422 Page 2

NOW THEREFORE, the Council of the City of Salmon Arm, Province of British Columbia in open meeting assembled hereby enacts as follows:

- 1. Attached to this Bylaw, as Schedule "A" and forming part of this Bylaw is a reduced copy of the Reference Plan EPP106452 (the "Plan").
- 2. The City of Salmon Arm is hereby authorized to dispose of and convey the Closed Road to the registered owner of the adjacent parcels.
- 3. The City of Salmon Arm hereby authorizes the closure to traffic and removal of the highway dedication of that portion of Road, comprising 0.221 ha dedicated at the Kamloops Land Title Office by Plan 1672, Sec. 15, Tp. 20, R. 10, W6M, KDYD which is shown outlined in bold black ("Closed Road") on the Plan.
- 4. On deposit of the Plan and all other applicable documentation for the removal of the highway dedication, in the Kamloops Land Title Office, the highway dedication of that portion of the road is cancelled.
- 5. The Mayor and Corporate Officer are hereby authorized to execute such conveyances, deeds, maps, plans, receipts and documents on behalf of the City of Salmon Arm as may be necessary for the purposes aforesaid and to affix the Corporate Seal of the City of Salmon Arm thereto.
- 6. The Council shall, before adopting this Bylaw, cause public notice of its intention to do so to be given by advertisement once each week for two consecutive weeks in a newspaper published or circulated in the City of Salmon Arm, and has provided an opportunity for persons who consider they are affected by the closure and disposition of the Closed Road to make representations to Council.

#### SEVERABILITY

7. If any part, section, sub-section, clause, or sub-clause of this bylaw for any reason is held to be invalid by the decision of a Court of competent jurisdiction, the invalid portion shall be severed and the decision that it is invalid shall not affect the validity of the remaining portions of this bylaw.

#### **ENACTMENTS**

8. Any enactments referred to herein is a reference to an enactment of British Columbia and regulations thereto, as amended, revised, consolidated or replaced from time to time.

#### EFFECTIVE DATE

9. This bylaw shall come into full force and effect upon adoption of same.

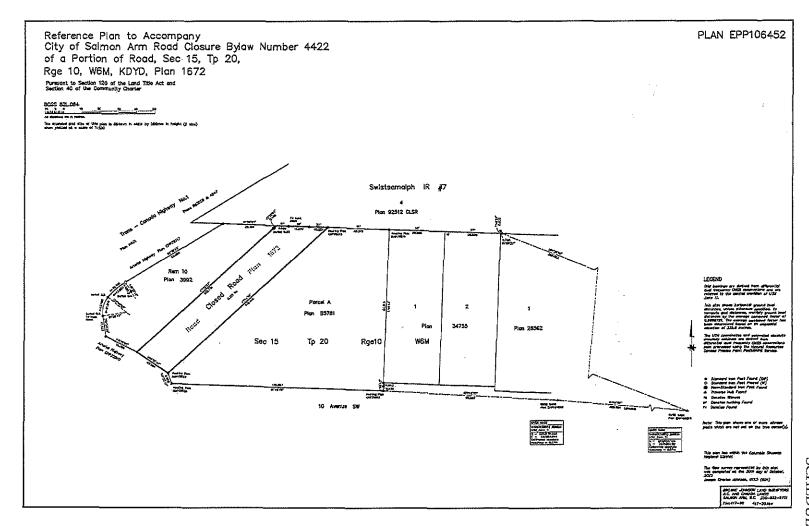
CORPORATE OFFICER

#### CITATION

A Section

10. This Bylaw may be cited for all purposes as the "City of Salmon Arm Highway Closure Bylaw No. 4422".

|   | *                    |                  |        |
|---|----------------------|------------------|--------|
| READ A FIRST TIME THIS  | DAYOF                | November         | , 2020 |
| READ A SECOND TIME THIS   | DAY OF               | November         | , 2020 |
| READ A THIRD TIME THIS  | , DAY OF             | November         | , 2020 |
| APPROVED PURSUANT TO SECTION 41 (3) OF T                                    | THE COMMUN<br>DAY OF | NITY CHARTEI     | , 2020 |
| For Minister  | of Transportat       | ion and Infrastr | ucture |
| PUBLIC NOTICE OF INTENTION TO PROCEED OBSERVER ON THE DAY OF November, 2020 |                      |                  |        |
| PUBLIC INPUT PROVIDED ON THIS   | DAYOF                |                  | , 2020 |
| ADOPTED BY COUNCIL THIS   | DAYOF                |                  | , 2020 |
|   |                      |                  |        |
|   |                      |                  | MAYOR  |



SCHEDULE "A"



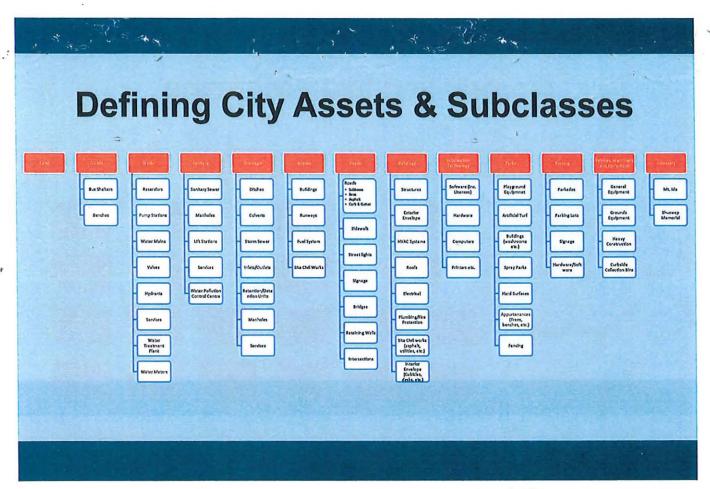
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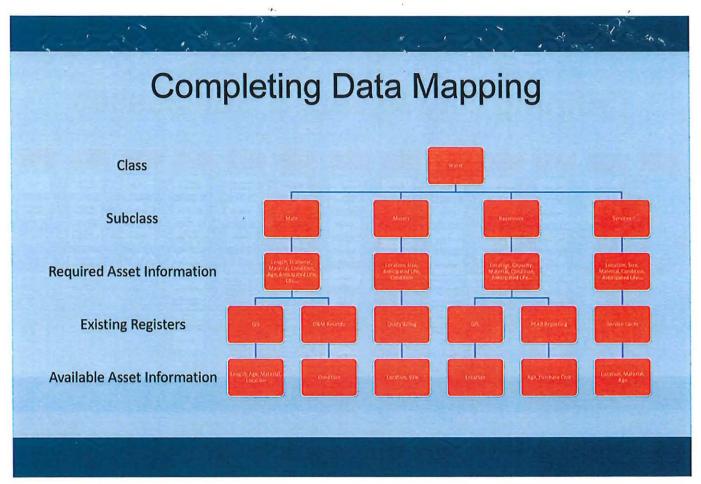
### What are our Assets?

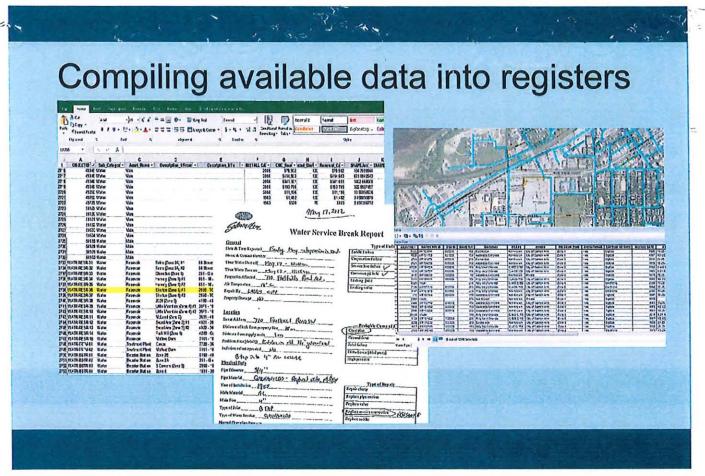
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- Identify data gaps
- Prioritize and plan addressing data gaps
- Estimate Current Replacement Cost
- Add Anticipated Life Spans
- Input Adjusted Life Spans based on real life observations and O&M records

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Now we have an idea of the infrastructure we own.

### **ASSET SUMMARY**

The state of the s

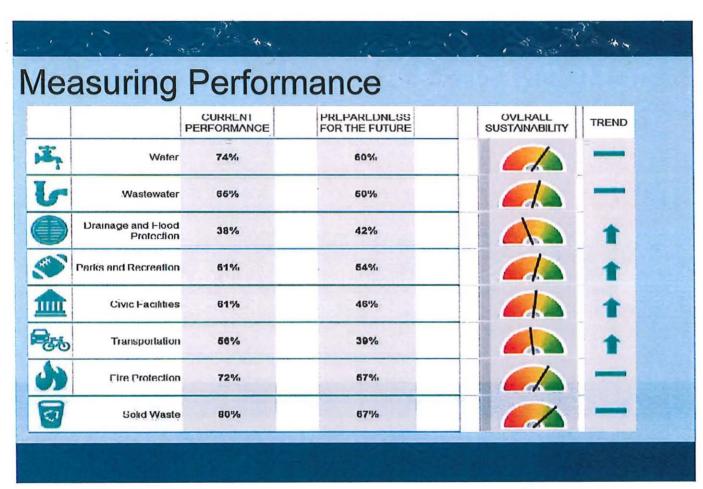
|                                   | Total CRC         | Annual Dep.      |
|-----------------------------------|-------------------|------------------|
| Land                              | \$<br>91,694,918  | \$               |
| Transit                           | \$<br>246,000     | \$<br>9,615      |
| Water                             | \$<br>197,815,653 | \$<br>3,287,666  |
| Sanitary                          | \$<br>168,975,341 | \$<br>2,915,429  |
| Drainage                          | \$<br>84,560,392  | \$<br>1,026,566  |
| Airport                           |                   |                  |
| Roads                             | \$<br>161,295,248 | \$<br>2,186,892  |
| Buildings                         | \$<br>59,391,411  | \$<br>1,245,703  |
| Information Technology            |                   |                  |
| Parks                             | \$<br>4,905,000   | \$<br>143,620    |
| Parking                           |                   |                  |
| Vehicles, Machinery and Equipment | \$<br>9,648,800   | \$<br>784,464    |
| Cemetery                          |                   |                  |
| Total                             | \$<br>778,533,000 | \$<br>11,600,000 |





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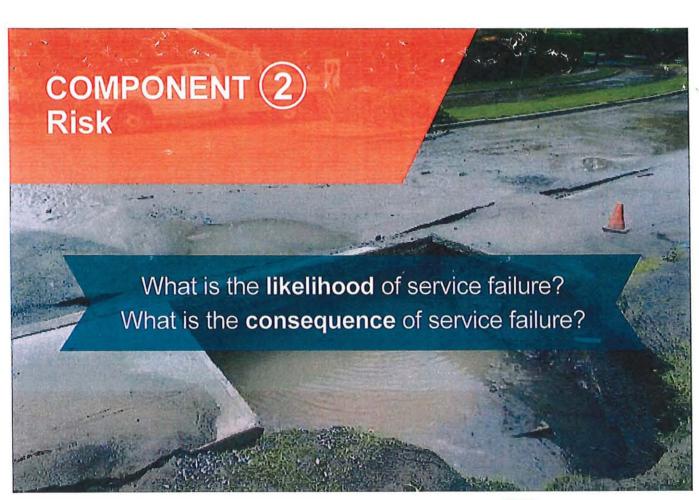




## Measuring Performance

|                   | Expectation                         | Performance Measure Used  | Current Performance                                      | Expected Position in 10 Years base<br>on the current budget. |
|-------------------|-------------------------------------|---|--|--|
| ervice Objective: |                                     |   |  |  |
| Quality           | Water Tastes, looks and smells good | Customer Service requests related to<br>quality                 | Negligible (very low when Metford<br>significant source) | is Expected to stay the same                                 |
|                   | Organizational measure              | Testing to Provincial Regulations (turbidity)                   | Meeting 100% of the regulations                          | Expected to stay the same                                    |
|                   |                                     |   | Meeting 100% of the regulations                          | Expected to stay the same                                    |
|                   | Confidence level                    |   | High   | High   |
| Function          | Water service is provided reliably  | Service requests related to water reliability                   | Very low number of complaints                            | Expected to get worse  |
|                   | Organizational measure              | Number of service interruptions a<br>year                       | 2018 - # of Breaks<br>2018 - # of Service leak Repairs   | Expected to get worse  |
|                   |                                     |   | SEE GRAPH THIS PAGE                                      | Expected to get worse  |
|                   | Confidence level                    |   | High   | High .   |
|                   | Pressure is sufficient              | Service requests related to pressure                            | Low number of complaints                                 | Expected to stay the same                                    |
|                   | Organizational measure              | Static pressure tests   | 77   | Expected to stay the same                                    |
|                   | Confidence level                    |   | High   | High   |
| Capacity and Use  | Safe Drinking Water                 |   |  |  |
|                   | Organizational measure              | Testing to Provincial Regulations                               | Meeting 100% of the regulations                          | Expected to stay the same                                    |
|                   | Confidence level                    |   | High   | High   |
|                   | Sufficient capacity to fight fires  | Feedback from fire department<br>complaints related to pressure | Medium   | Expected to stay the same                                    |
|                   | Organizational measure              | Calculated 4-hour fire flows                                    | Medium   | Expected to stay the same                                    |
|                   | Confidence level                    |   | High   | High   |
|                   | Sufficient capacity for day-to-day  | Complaints  | Negligible   | Expected to stay the same                                    |
|                   | Organizational measure              | SCADA   | Low  | Expected to stay the same                                    |
|                   | Confidence level                    |   | High   | High   |

| To a                   |   | in the  | of The same  |  |
|------------------------|---|---|--|--|
| 5: Technical Levels of | Service                                 | THE RESERVE TO SHARE THE PARTY OF THE PARTY | The same of the sa | SHARP BEAUTIFUL STREET   |
| Service Attribute      | Service Activity Objective              | Activity Measure<br>Process   | Current Performance *  | Desired for<br>Optimum Lifecycle<br>Cost **  |
| ECHNICAL LEVELS OF     | SERVICE                                 |   |  |  |
| Operations             | Reservoir cleaning & Maintenance        | Frequency   | 5 year inspection/cleaning   | Same   |
|                        | SCADA                                   | Annual amount   | Adequate   | Same   |
|                        | Une Flushing & Preventative Maintenance | Frequency   | Once per 3 year cycle  | Same   |
|                        | Operating Hydrants                      | Frequency   | Type A - full service every other year Type B - Inspection   | Same   |
|                        | Electrical                              | Amount  | Adequate   | Same   |
|                        | Flow Testing                            | Frequency   | As necessary   | Once per 5 year<br>cycle - no<br>additional funds  |
|                        | Pump Stations                           | Frequency   | Annual Inspections   | Same   |
|                        | ROW Maintenance                         | As necessary  | Adequate   | Same   |
|                        | Staffing & Administration               | Amount  | Adequate   | Same   |
|                        | Water Treatment Plant & UV Building     | Annual amount   | Adequate   | Same   |
|                        | Asset Management                        | Annual report   | Adequate   | Same   |
| Operational Cost       |   |   | \$ 1,835,707.50  | \$ 1,835,707.50  |
| Maintenance            | Reservoir Maintenance                   | As necessary  | Adequate   | Same   |
|                        | Pump Station Maintenance                | Frequency   | Annual Inspections - repair of defects   | Same   |
|                        | Watermain Repair                        | As necessary  | Adequate   | Same   |
|                        | Valve Maintenance                       | As necessary  | Adequate   | Same   |
|                        | Hydrant Protection and Maintenance      | Frequency   | Type A - full service every other year   | Same   |
|                        | Service/Meter Maintenance               | As necessary  | Adequate   | Same   |
|                        | SCADA/Radio Maintenance                 | As necessary  | Adequate   | Same   |
| Maintenance Cost       | Water Treatment Facility Maintenance    | As necessary  | Adequate 394,542.50  | \$ 394,542.50  |
| Renewal .              | Reservoir Renewal                       | Amount  | \$ 0/vr  | \$ 297,000/yr  |
| Renewal                | Pump Station Renewal                    | Amount  | \$ 100,000/yr  | \$ 220,000/yr  |
|                        | Watermain Renewal                       | Amount  | \$ 128,250/yr  | \$ 1,065,000/yr  |
|                        | Valve Renewal                           | Amount  | \$ 22,750/yr   | \$ 170,000/yr  |
|                        | Hydrant Renewal                         | Amount  | \$ 43,500/yr   | \$ 110,000/yr  |
|                        | Service Renewal                         | Amount  |  | \$ 315,000/yr  |
|                        | SCADA/Radio Renewals                    | Amount  | \$ 101,000/yr<br>\$ 125,000/yr   | \$8,000/yr   |
|                        | Water Treatment Facility Renewals       | Amount  | \$ 60,500/yr   | \$ 140,000/yr  |
| Renewal Cost           |   |   | \$ 581,000.00  |  |
| Upgrade/New Cost       | Reservoir Upgrade/New                   | Amount  | \$/yr  | The second second second   |
|                        | Pump Station Upgrade/New                | Amount  |  |  |
|                        | Watermain Upgrade/New                   | Amount  |  | Control of the last of the las |
|                        | Valve Upgrade/New                       | Amount  | \$ 0/yr  | A STATE OF THE STA |
|                        | Hydrant Upgrade/New                     | Amount  | \$ 25,000/yr   | \$ 25,000/vr   |
|                        | Service Upgrade/New                     | Amount  |  |  |
|                        | SCADA/Radio Upgrade/New                 | Amount  | \$1  |  |
|                        | Water Treatment Facility Upgrade/New    | Amount  |  |  |
| Upgrade/New Cost       |   |   | \$ 193,750.00  |  |
|                        |   |   |  |  |



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## **Identifying Risk**

| Risk<br>No. | Asset providing the Service             | What can happen?                               | When can it occur?       | Possible cause                               | Existing controls                                  | Is risk<br>credible |
|-------------|---|--|--------------------------|--|--|---------------------|
|             | Zone 5 Booster                          | Fallure  | Within 2-3 years         | Insufficient water supply to                 | N/A  | Yes                 |
| 2           | Zone 2 Booster                          | Failure  | Anytime now              | Fire, flood, electrical failure              | Basic maintenance & Inspection of appurtenances    | Yes                 |
| 3           | Zone 2 Booster                          | External piping                                | Anytime now              | Corrosion                                    | Inspections  | Yes                 |
| 4           | Zone 2 Booster                          | MCC  | Anytime now              | Ageout                                       | Look for used parts                                | Yes                 |
| 5           | Zone 1 trunk line                       | Fallure  | Anytime now              | Corrosion                                    | N/A  | Yes                 |
| 6           | TCH Cast Iron (McGuire)                 | Fallure  | Within 5 years           | Corrosion                                    | N/A  | Yes                 |
| 7           | 978 Watermain (10 Ave SE to             | Capacity Issues                                | Anytime in the<br>future | Flow constrictions due to<br>undersized pipe | NA   | Yes                 |
| 8           | Zone 5 Reservoir                        | failure  | Beyond 20 years          | Unknown                                      | Regular maintenance & Inspections                  | No                  |
| 9           | Park Hill Reservoir                     | Fallure  | Beyond 20 years          | Unknown                                      | Regular maintenance &                              | No                  |
| 10          | Mcleod Reservoir                        | Fallure  | Beyond 20 years          | Unknown                                      | Regular maintenance &                              | No                  |
| 11          | WTP                                     | Failure resulting in water quality<br>advisory | Within 10 years          | electrical failure                           | WA   | Yes                 |
| 12          | WTP                                     | Capacity Issues                                | Within 10 years          | rrigation & leaks in system                  | Sprinkling Restrictions                            | Yes                 |
| 13          | Dead end mains                          | Breaks leading to service<br>Interruption      | Anytime in the future    | Deteriorating infrastructure                 | renewals of ageing mains                           | Yes                 |
| 14          | Watermains                              | Fallure  | Anytime in the           | Ageing infrastructure/capacity               | renewals of ageing mains                           | Yes                 |
| 15          | Zone 4 Booster Station                  | Failure  | Within 20 years          | Fire, Electrical, Flood                      | Regular maintenance & Inspections                  | Yes                 |
| 16          | Hydrants - Non compression              | Get hit & drain reservoirs                     | Anytime now              | Accident                                     | Low level alarms                                   | Yes                 |
| 17          | Lakeshore Rd. Watermain                 | Fallure  | Within 2-3 years         | Landslide                                    | Regular road inspections -<br>future upgrade plans | Yes                 |
| 18          | 25th Watermain                          | Fallure  | Within 2-3 years         | Landslide                                    | French drain to mitigate<br>groundwater influence  | Yes                 |
| 19          | Watermains                              | Contamination of drinking water                | Within 20 years          | Backflow                                     | Backflow prevention program                        | Yes                 |
| 20          | Shuswap Lake                            | Contamination of water source                  | Anytime now              | Splil/algae                                  | Monitoring, emergency<br>response plan;            | Yes                 |
| 21          | Metford Dam                             | Contamination of water source                  | Anytime now              | excessive turbidity,                         | Monitoring, emergency<br>response plan; shut downs | Yes                 |
| 22          | TCH Cast Iron (21st Street<br>Crossing) | Main Break                                     | Within 20 years          | Corrosion                                    | NA   | Yes                 |

# **Evaluating Risk**

| Risk<br>No. | Asset providing the Service             | What can happen?                            | Likelihood | Overall<br>Consequences | Risk Rating | Action Required Timing       | ls risk<br>acceptable? |
|-------------|---|---|------------|-------------------------|-------------|------------------------------|------------------------|
| 1           | Zone 5 Booster                          | Fallure                                     | Likely     | Catastrophic            | Very High   | Immediate corrective action  | No                     |
| 2           | Zone 2 Booster                          | Failure                                     | Possible   | Catastrophic            | High        | Prioritised action required  | No                     |
| 3           | Zone 2 Booster                          | External piping                             | Likely     | Catastrophic            | Very High   | Immediate corrective action  | No                     |
| 4           | Zone 2 Booster                          | мсс   | Likely     | Minor                   | Medium      | Planned action required      | No                     |
| 5           | Zone 1 trunk line                       | Fallure                                     | Likely     | Minor                   | Medium      | Planned action required      | No                     |
| 6           | TCH Cast Iron (McGuire)                 | Fallure                                     | Possible   | Moderate                | High        | Prioritised action required  | No                     |
| 7           | 97B Watermain (10 Ave SE to             | Capacity Issues                             | Possible   | Moderate                | High        | Prioritised action required  | No                     |
| 8           | Zone 5 Reservoir                        | fallure                                     | Rare       | Catastrophic            | High        | Prioritised action required  | No                     |
| 9           | Park Hill Reservoir                     | Failure                                     | Rare       | Catastrophic            | High        | Prioritised action required  | No                     |
| 10          | Mcleod Reservoir                        | Fallure                                     | Rare       | Catastrophic            | High        | Prioritised action required  | No                     |
| 11          | WTP                                     | Failure resulting in water quality advisory | Unlikely   | Minor                   | Low         | Manage by routine procedures | Yes                    |
| 12          | WTP                                     | Capacity Issues                             | Unlikely   | Catastrophic            | High        | Prioritised action required  | No                     |
| 13          | Dead end mains                          | Breaks leading to service<br>interruption   | Possible   | Minor                   | Medium      | Planned action required      | No                     |
| 14          | Watermains                              | Fallure                                     | Likely     | Minor                   | Medium      | Planned action required      | No                     |
| 15          | Zone 4 Booster Station                  | Failure                                     | Rare       | Major                   | Medium      | Planned action required      | No                     |
| 16          | Hydrants - Non compression              | Get hit & drain reservoirs                  | Likely     | Minor                   | Medium      | Planned action required      | Yes                    |
| 17          | Lakeshore Rd. Watermain                 | Fallure                                     | Possible   | Moderate                | High        | Prioritised action required  | No                     |
| 18          | 25th Watermain                          | Fallure                                     | Possible   | Minor                   | Medium      | Planned action required      | Yes                    |
| 19          | Watermains                              | Contamination of drinking water             | Rare       | Major                   | Medlum      | Planned action required      | No                     |
| 20          | Shuswap Lake                            | Contamination of water source               | Unlikely   | Moderate                | Medlum      | Planned action required      | No                     |
| 21          | Metford Dam                             | Contamination of water source               | Likely     | Insignificant           | Medium      | Planned action required      | Yes                    |
| 22          | TCH Cast Iron (21st Street<br>Crossing) | Main Break                                  | Unlikely   | Major                   | Medium      | Planned action required      | No                     |

| 11            | ea                               | tme  | nt                                    | Op             | otions | 3  |                    |                             |                           |                  |
|---------------|----------------------------------|--|---------------------------------------|----------------|--------|--|--------------------|-----------------------------|---------------------------|------------------|
| Risk<br>No. p | Asset<br>roviding the<br>Service | What can<br>happen?  | Existing controls                     | Risk<br>Rating | Treat  | ment option                              | Est. Cost<br>\$000 | Options<br>Residual<br>Risk | Risk<br>Treatment<br>Plan | Residual<br>Risk |
|               |                                  | Failure  | N/A                                   | Very High      | A      | Replace Booster Station &                | \$5,000            | Low                         | Replace                   | Medium           |
| B             | ooster                           | L. Contract  |                                       |                | В      | Main<br>Replace Booster Station &        | \$2,500            |                             | Bouster<br>Station &      |                  |
|               |                                  |  |                                       |                |        | Repair bursts                            | 42/550             | 11.6.1                      | main                      |                  |
|               |                                  |  |                                       |                | C      | Replace pumps in existing location       | \$500              | Very High                   |                           |                  |
|               |                                  |  |                                       | -              | D      |  |                    |                             |                           |                  |
|               | one 2                            | Fallure  | Basic                                 | High           | A      | Replace Booster Station                  | \$2,500            |                             | Rebuild                   | Medium           |
| В             | ooster                           |  | maintenanc                            |                | В      | Rebuild booster Station                  |                    | Medium                      |                           |                  |
|               |                                  |  | e &<br>Inspection<br>of<br>appurtenan |                | C<br>D | Twin McLeod Reservoir                    | \$1,000            | Very High                   | Station                   |                  |
| 3 2           | one 2                            | External piping  | inspections                           | Vany High      | A      | Replace piping                           | \$500              | Low                         | Replace                   | Low              |
|               | looster                          | - Committee of the Comm |                                       | ,              | В      | solation valve; a inual                  |                    | Very High                   |                           |                  |
|               |                                  |  |                                       |                | C      |  |                    |                             |                           |                  |
| 2.5           |                                  |  |                                       |                | D      |  |                    |                             |                           |                  |
|               | Zone 2<br>Booster                | MCC  | Look for<br>used parts                | Medium         | A      | Replace MCC                              | \$100              |                             | Replace                   | Low              |
| В             |                                  |  |                                       |                | В      | Replace during Zone 2<br>Booster rebuild |                    | Low                         | while rebuilding          |                  |
|               |                                  |  |                                       | 198            | С      | Water Use Advisory                       |                    |                             | booster                   |                  |
| 5 7           | one 1 trunk                      | Cathon   | NIA                                   | Madha          | 0      | Replace watermain                        | \$500              | Low                         | station<br>Installation   | Louis            |
|               | one 1 trunk                      | raijure  | N/A                                   | Medlum         | A<br>B | Installation of slip pipe                | \$280              | Low                         | of slip pipe              | LUW              |
| "             | iiie                             |  |                                       | -              | C      | Sound & Spot repairs                     |                    | Medium                      | h, sup pipe               | 1-1-1            |
|               |                                  |  |                                       |                | D      |  |                    |                             |                           | -                |
|               | TCH Cast Iron<br>(McGuire)       | Failure  | N/A                                   | High           | A      | Replace pipe in alternate ocation        | \$275              | Low                         | Replace and               | Low              |
|               |                                  |  |                                       |                | В      | Replace pipe in existing location        | \$350              | Medium                      | watermain                 |                  |
|               |                                  |  |                                       |                | C      | Sound & Spot repairs                     | \$250              | Medium                      |                           | 100              |
|               |                                  |  |                                       |                | D      |  |                    |                             |                           | 100              |

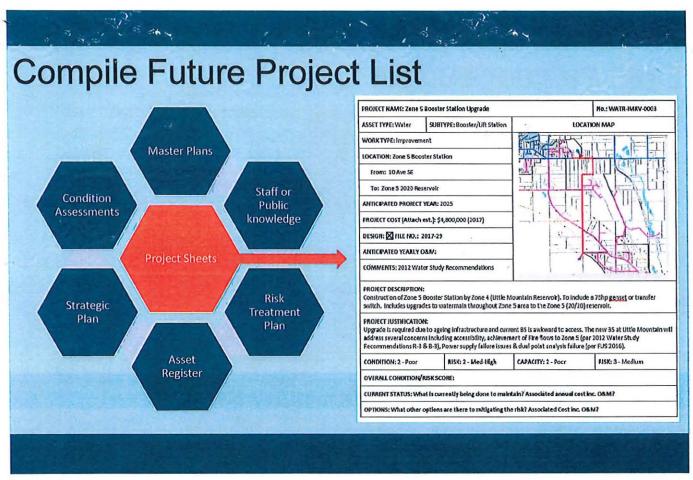
### Risk Treatment Plan

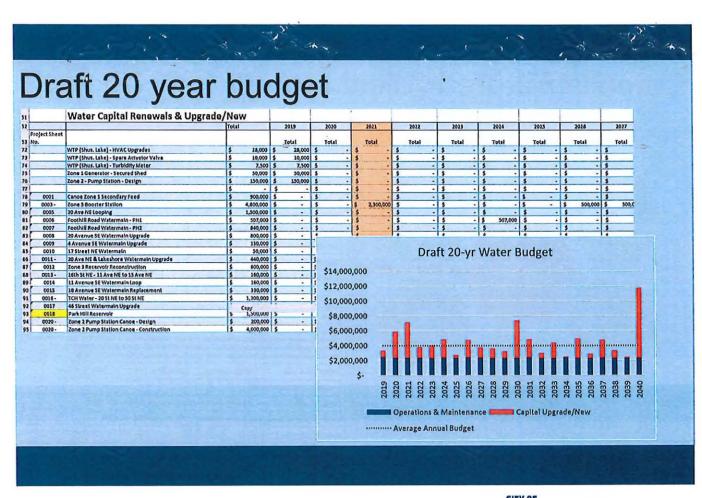
| Risk<br>No. | Asset providing the Service | What can happen? | Risk<br>Rating | Action required timing   | Risk Treatment<br>Plan                         | Residual<br>Risk |       | Actions                          | Responsibility          | Resources<br>Required | Est Budget<br>\$000 |
|-------------|-----------------------------|------------------|----------------|--|--|------------------|-------|----------------------------------|-------------------------|-----------------------|---------------------|
| 1           | Zone 5<br>Booster           | Failure          |                | corrective<br>action   | Booster Station<br>& main                      | Medium           | 1     | Replace Booster<br>Station       | Eng/Utilities           |                       | 2000                |
|             |                             |                  |                |  |  |                  | 10000 | Replace Mainline to<br>Reservoir | Eng/Utilities           |                       | 3000                |
|             |                             |                  |                |  |  |                  | 3     |                                  |                         |                       |                     |
|             |                             |                  |                |  |  |                  | 4     |                                  | - 6000                  |                       |                     |
| 2           | Zone 2<br>Booster           | Failure          | High           |  | Rebuild<br>Booster Station                     | Medium           | 1     | Rebuild Booster<br>Station       | Eng/Utilities           |                       | 1500                |
|             |                             |                  |                |  |  |                  | 2     |                                  |                         |                       |                     |
|             |                             |                  |                |  |  |                  | 3     |                                  |                         |                       |                     |
| _           |                             |                  |                |  |  |                  | 4     |                                  |                         |                       |                     |
| 3           |                             | External piping  | Very<br>High   | corrective<br>action   | External Piping                                | Low              | 1     | Replace External<br>Piping       | Eng/Utilities           |                       | 5000                |
|             |                             |                  |                |  |  |                  | 2     |                                  |                         |                       |                     |
|             |                             |                  |                |  |  |                  | 3     |                                  |                         |                       | 100                 |
|             |                             |                  |                |  |  |                  | 4     |                                  |                         |                       |                     |
| 4           | Zone 2<br>Booster           | MCC              | Medium         | Planned action<br>required   | Replace while<br>rebuilding<br>booster station | Low              | 1     | Include in Zone 2<br>Rebuild     | Eng/Utilities           |                       |                     |
|             |                             |                  |                |  |  |                  | 2     |                                  |                         |                       |                     |
|             |                             |                  |                |  |  |                  | 3     |                                  |                         |                       |                     |
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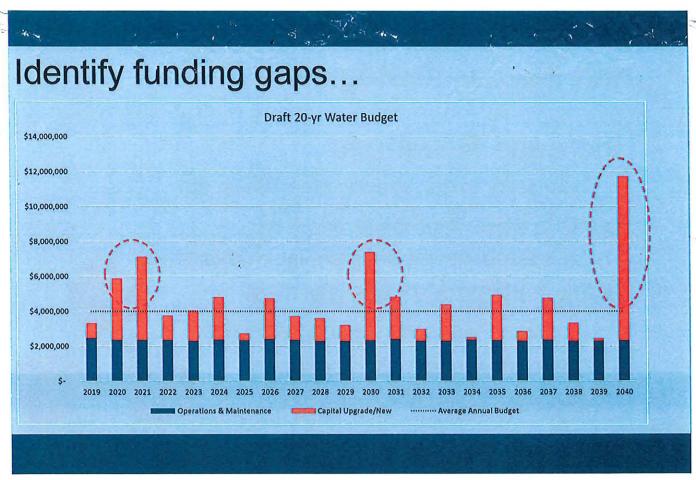
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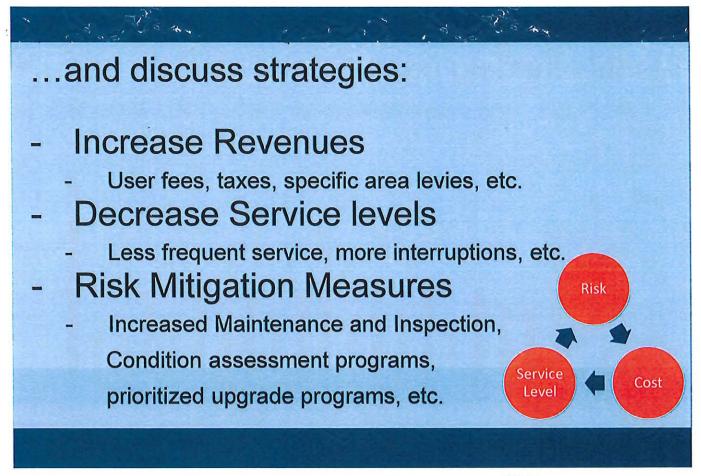
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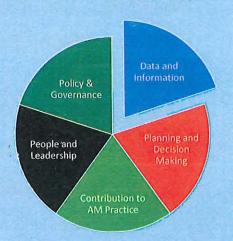


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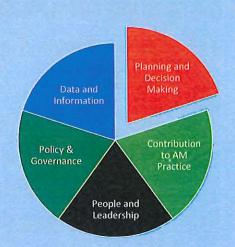
### **DATA & INFORMATION**

- Between a level 1 and 3 (of 5)
- Next steps:
  - Continue to consolidate asset registers
  - Identify all critical assets & gather condition data
  - Link AM plan to Financial Strategy



### **PLANNING & DECISION MAKING**

- Between a level 2 and 3 (of 5)
- Next steps:
  - Expand Asset Planning Process to all assets (approx. 60% complete)
  - Set clear organization goals and objectives
  - Complete draft AM plans for all assets and update LTFP, DCC Bylaw



### CONTRIBUTION TO AM PRACTICE

- Between a level 2 and 3 (of 5)
- Next steps:
  - Expand staff training on basic AM concepts
  - Provide advanced AM training for specific roles & responsibilities
  - Communicate organizational commitment to AM & promote buy-in



### PEOPLE AND LEADERSHIP

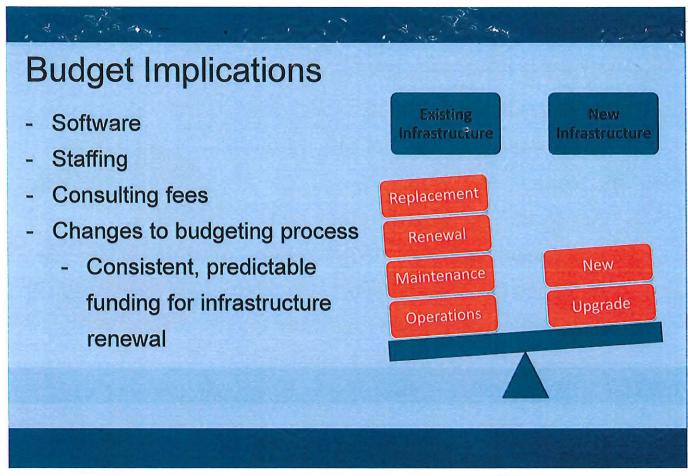
- Between a level 1 and 2 (of 5)
- Next steps:
  - Create AM Team Mandate and create accountability for implementing the AM program
  - Ensure AM responsibilities in specific roles are clearly communicated
  - Encourage Council to champion AM



### **POLICY AND GOVERNANCE**

- Between a level 0 and 2 (of 5)
- Next steps:
  - Adopt an AM Policy, Strategy and Framework document to guide AM practices (grant application submitted)
  - Establish performance measures to monitor AM progress and benefits







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