



**GOLDER**

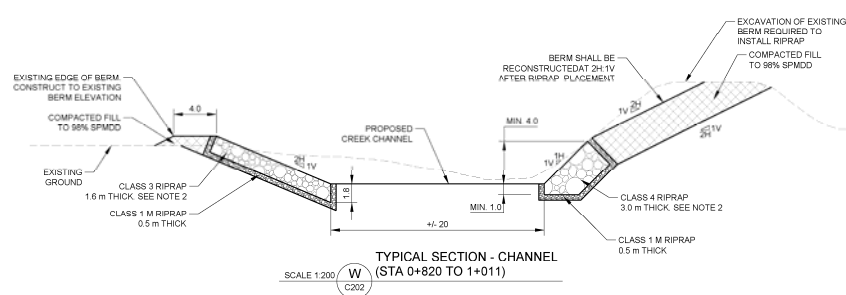
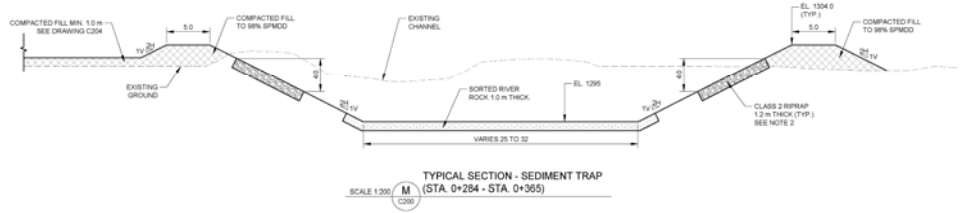
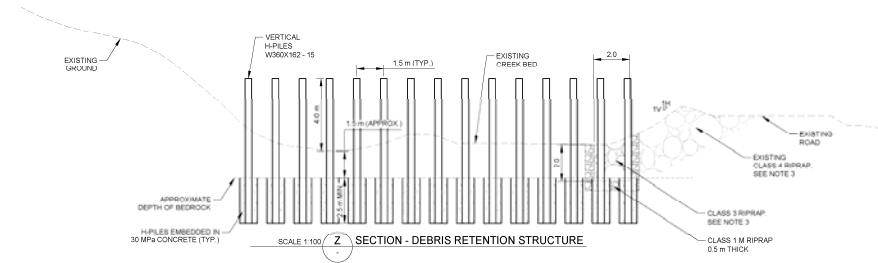
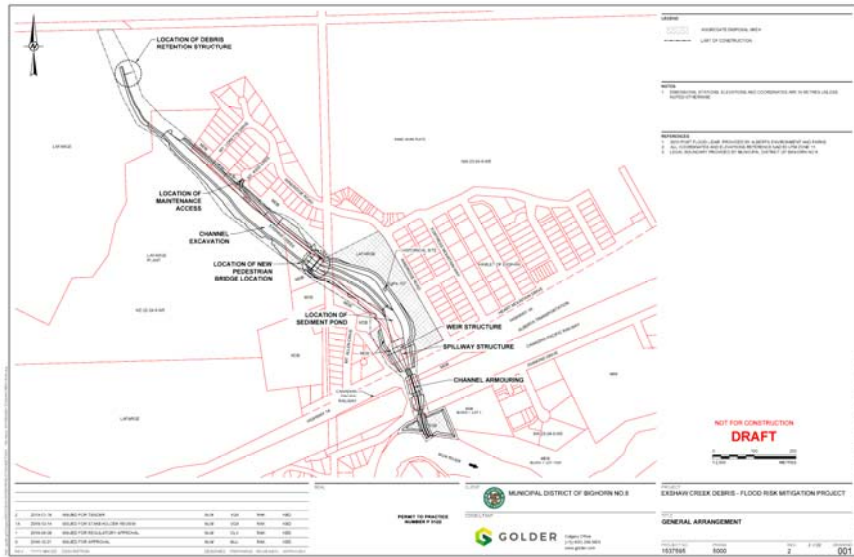
# **Exshaw Creek Debris-Flood Mitigation Project**

**PUBLIC INFORMATION OPEN HOUSE**

January 31, 2019



# GENERAL ARRANGEMENT OF DEBRIS FLOOD MITIGATIONS



## PROJECT TIMELINE

Public Information Open House	January 31, 2019
Post Tender Package for Bid	February 13, 2019
Close Tender Bidding	March 10, 2019
Award Tender	March 15, 2019
Start of Construction	April 01, 2019
Completion of Major Construction	October 31, 2019
Completion of all Construction Activity	June 30, 2020

## SUMMARY OF CONSTRUCTION ACTIVITY

### Major Construction Activities

- Installation of debris retention structure
- Channel excavation
- Construction of sediment pond, weir and spillway
- Installation of channel armouring
- Installation of pedestrian bridge

### Associated Construction Activities

- Placement of fill gravel in riprap voids
- Final grading for all waste aggregate fill areas
- Topsoil and seeding
- Maintenance access and path surfacing

## CONSTRUCTION MITIGATIONS

### Noise Control

The Contractor shall:

- Not perform construction operations at night without written permission from the Municipal District of Bighorn.
- Perform blasting, drilling, jackhammering, pile driving, unloading of riprap and other operations producing high-intensity impact noise between the hours of 07:00 am and 10:00 pm on any day except Sundays and Statutory Holidays; and
- Not exceed noise levels of 55 decibels during the night measured at the fence line to the Lafarge plant, not including CP trains or highway traffic.

### Dust Control

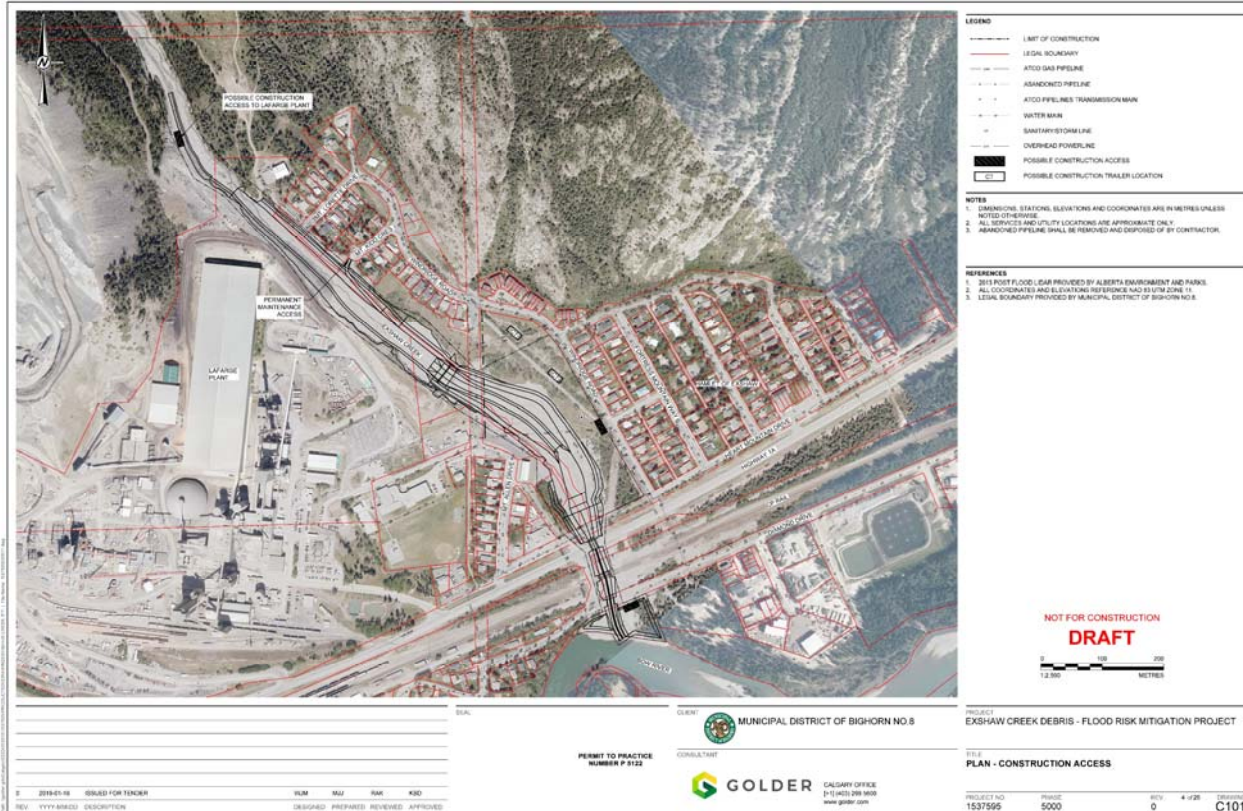
The Contractor shall:

- Cover or wet down dry materials and debris to control blowing dust from originating from the construction site;
- Provide dust control for all temporary construction access roads; and
- Be responsible for damages from dust caused by construction operations.

### Mitigation Process

- All complaints to be directed to the MD of Bighorn in accordance with the Municipal District of Bighorn No. 8 enforcement of Bylaw No. 07/09 – Noise Control and Bylaw No. 09/97 for Nuisance Dust Control. Upon receiving the complaint, the MD will contact Golder's resident engineer who will then discuss the issue with the contractor to determine and timely implement appropriate mitigation measures.

# CONSTRUCTION ACCESS PLAN



## Construction Access and Traffic Control

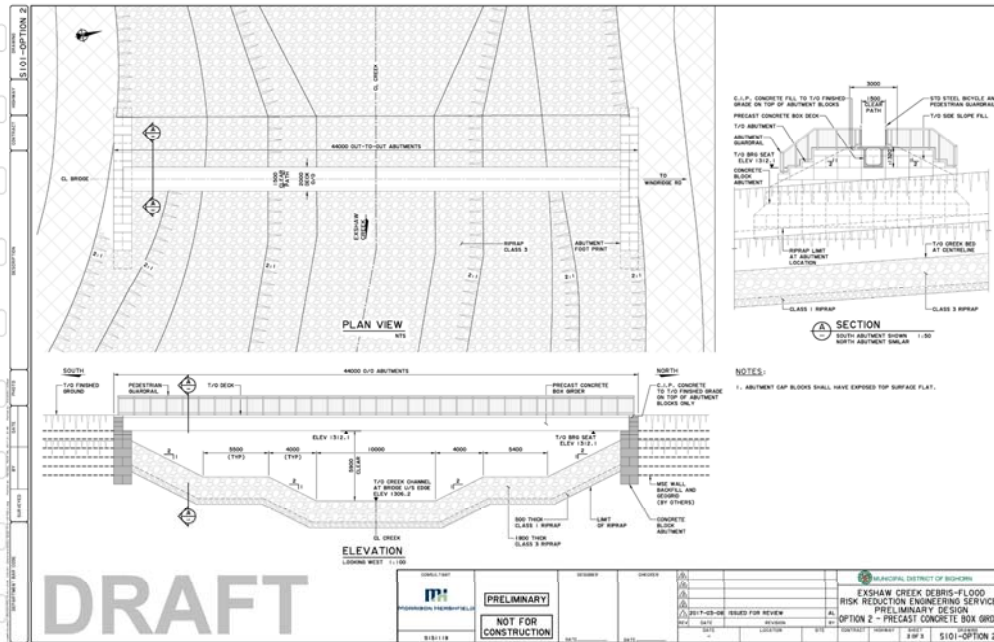
The Contractor shall:

- Submit a construction access plan to the Municipal District of Bighorn No. 8 for review and approval;
- Provide a complete pathway closure and detour signage plan for the project site;
- Provide signs, barricades and other traffic control device conforming to Alberta Transportation requirements;
- Not commence work until all approved traffic control devices are in place;
- Mark objects within or immediately adjacent to the road which constitute a hazard to traffic or the public; and
- Provide flag persons when construction operations or site conditions cause interruption, delay or hazard to the traveling public or anyone on the project site.

## Street Parking

- A parking ban will be required on Windridge Road between Highway 1A to the Government Road Allowance for the duration of the construction period. No street parking will be permitted and will be enforced to ensure the safety of the residents from construction generated traffic.

# PEDESTRIAN BRIDGE – PRECAST CONCRETE BOX GIRDER



Example of Precast Box Girder Bridge in Calgary