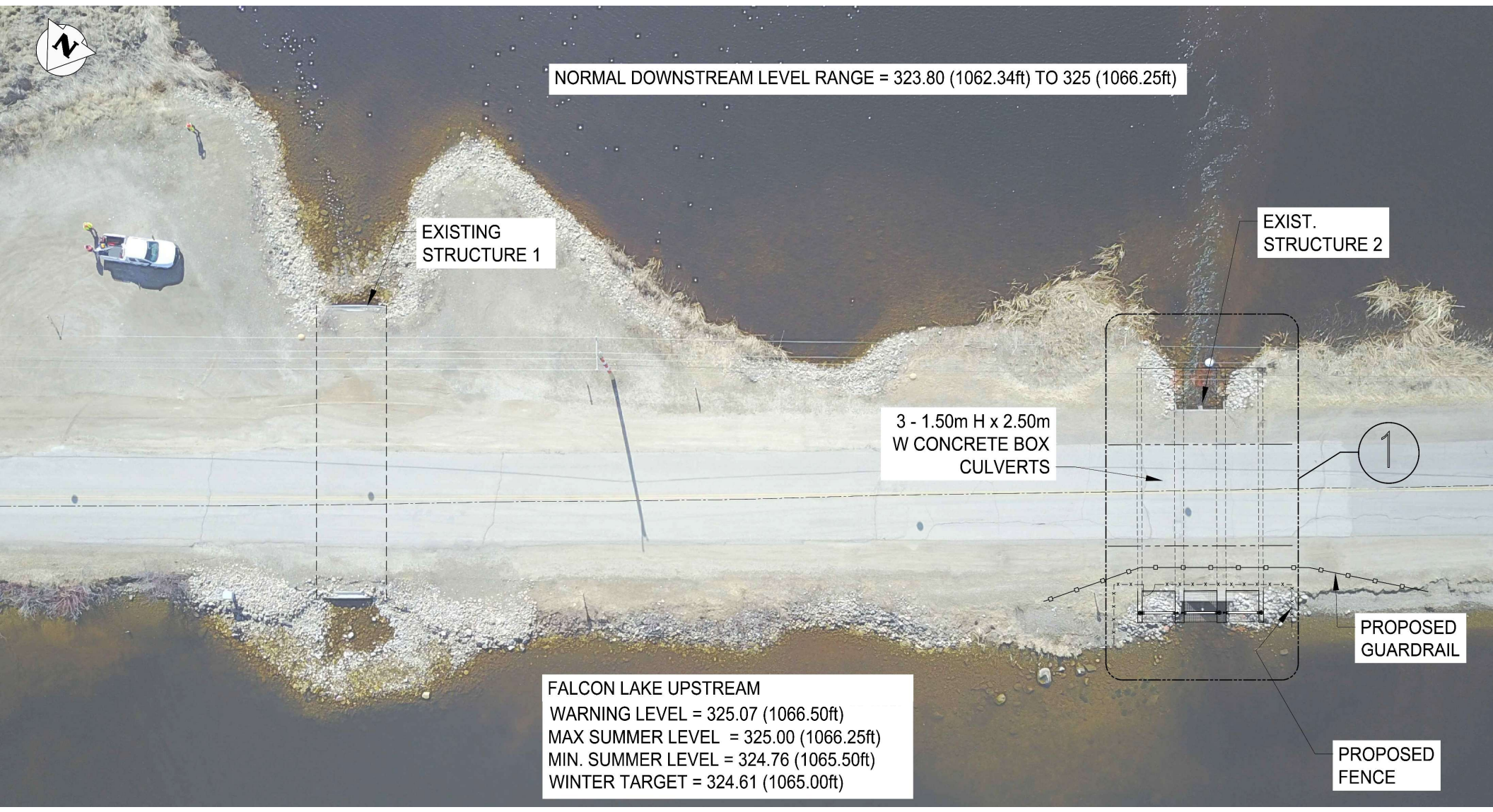
Option 1 – Replace Timber Structure with New Culverts



Peak Upstream Lake Level (1:20 Year) = 325.39 m (1067.55 ft.)
Peak Downstream River Level (1:20 Year) = 325.39 m (1067.55 ft.)
Approximate days above High Water Warning Level (1:20 year) = 50 days

ADVANTAGES	DISADVANTAGES
Limited environmental impacts and more limited regulatory process.	Provides lake level control only when levels are within the operating range.
Simplest construction and shortest construction schedule.	Highest number of days above high water warning level of the 3 options.
Additional gravity discharge reduces days above flood warning level by 9 days compared to existing conditions (1:20 year event).	
No impacts to the recreational use of the adjacent area.	
Does not require the dam to be raised.	
Provides operational safety and flexibility compared to the current structure.	
Lowest capital and long term costs.	

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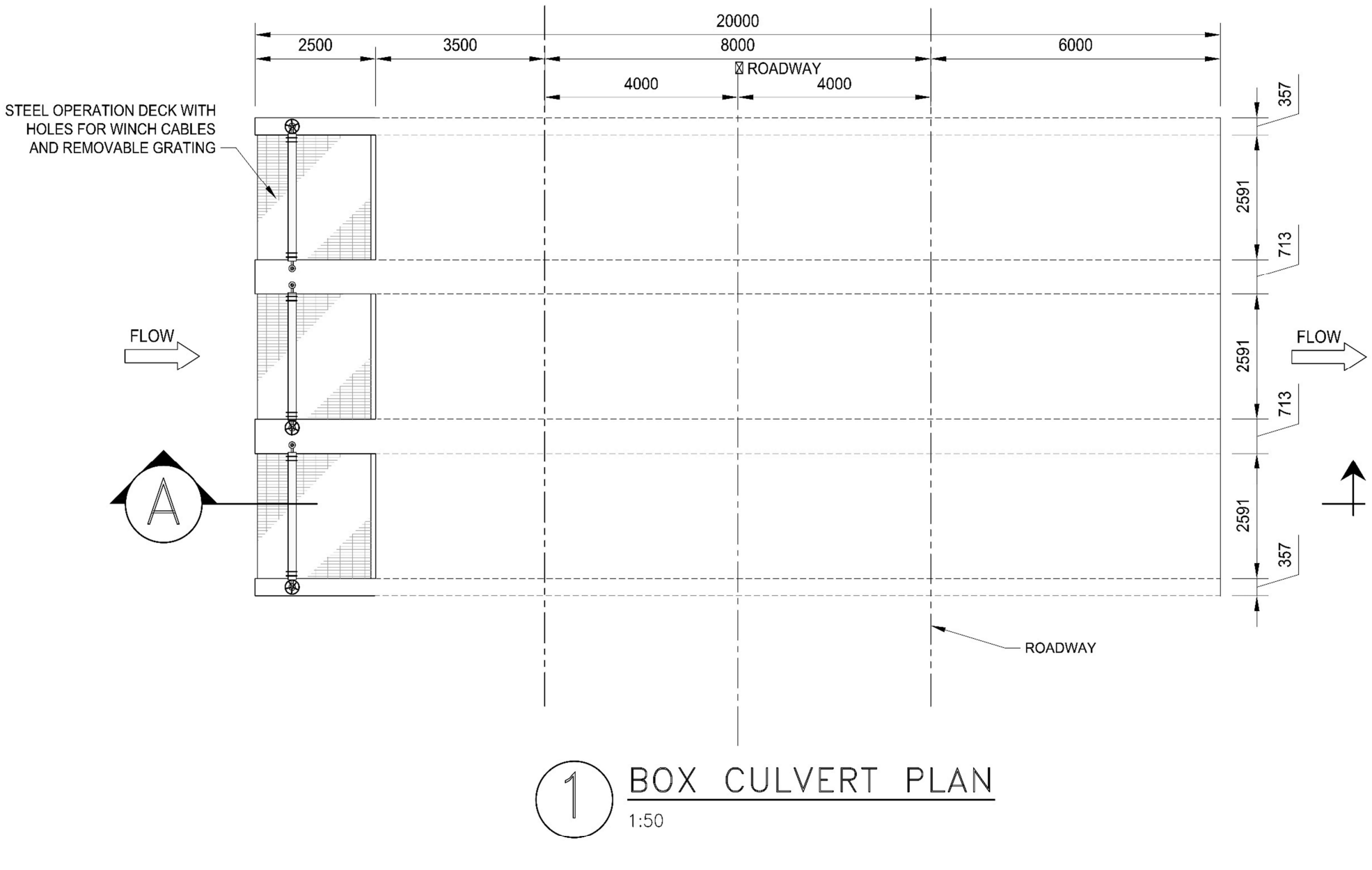
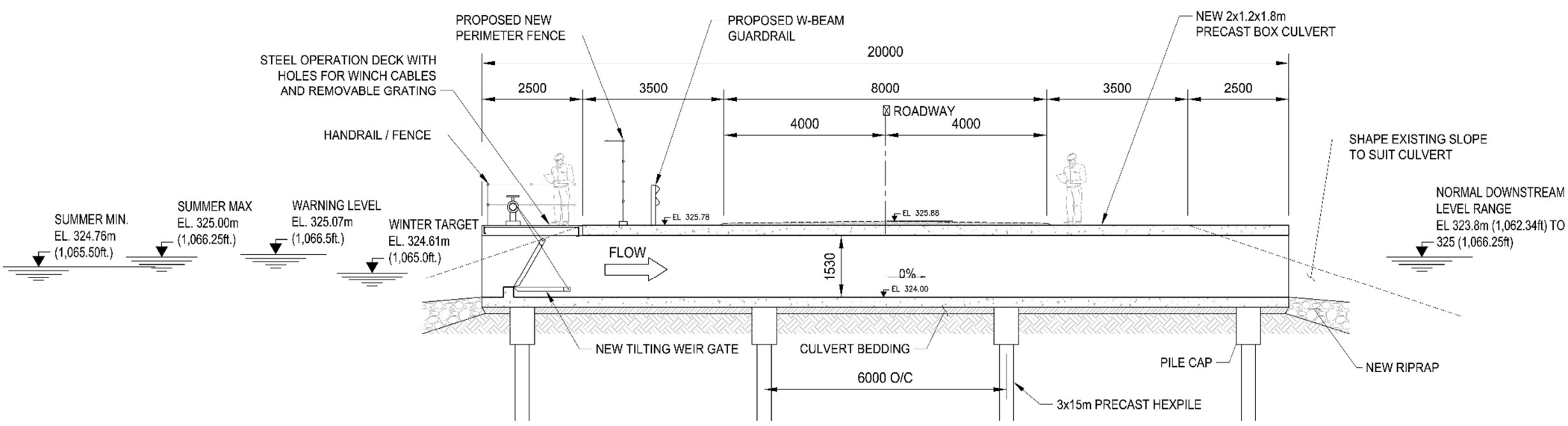


1 BOX CULVERT PLAN
1:50



A LONGITUDINAL SECTION
1:50

Falcon Lake Dam
Outlet Replacement Alternatives
Open House

KGS GROUP

Manitoba