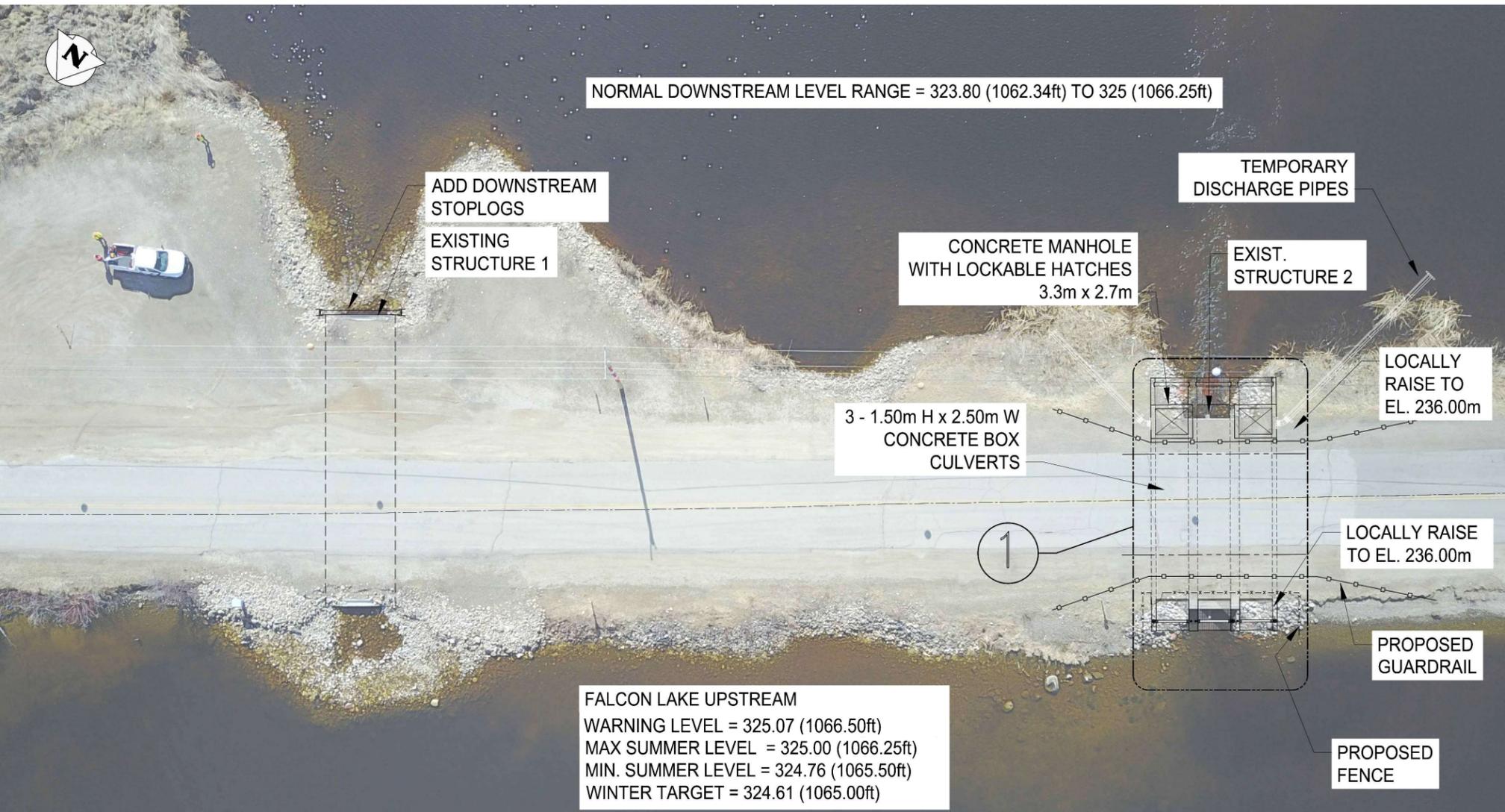


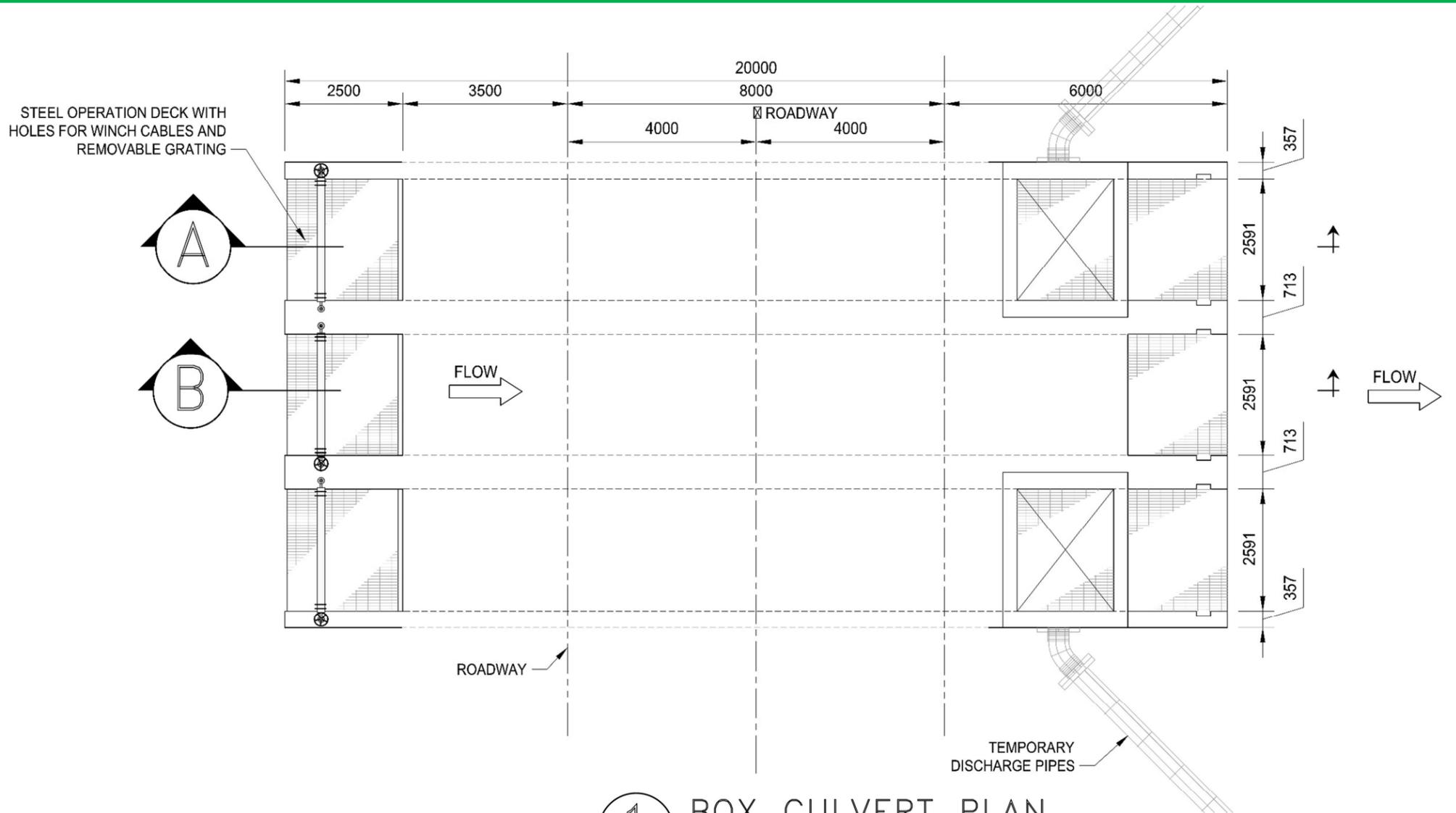
Option 2 – Replace Timber Structure with New Culverts and Temporary Pumping Capabilities for Significant High Water Events



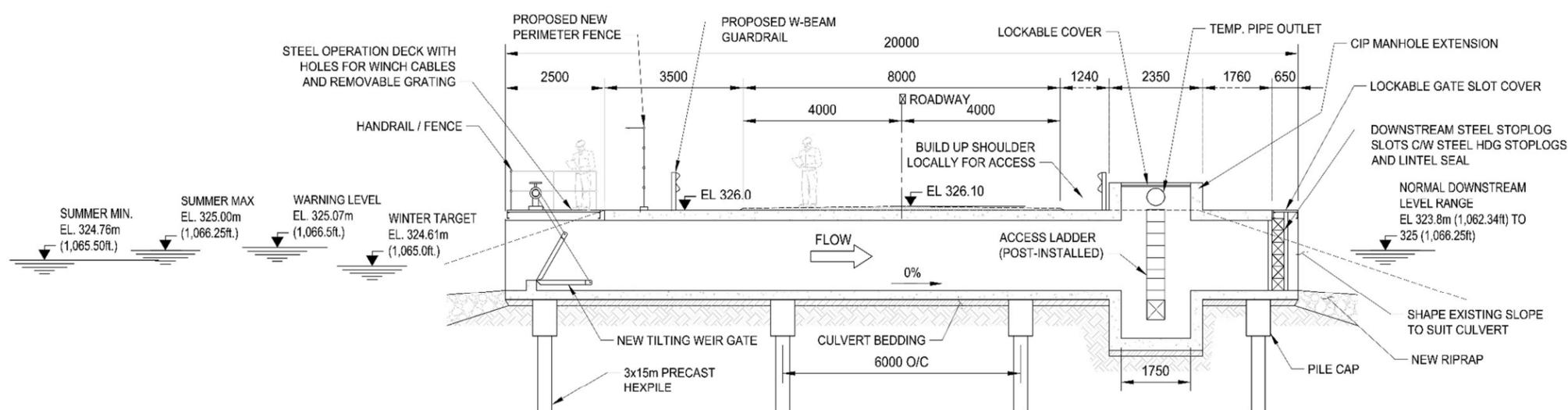
Maximum Upstream Level (1:20 year) = 325.34 m (1067.38 ft.)
 Maximum Downstream Level (1:20 year) = 325.63 m (1068.33 ft.)
 Approximate days above High Water Warning Level (1:20 year) = 27 days

ADVANTAGES	DISADVANTAGES
Most years, this option will act as a natural gravity outfall similar to Option 1.	The dam will become an outright barrier to fish passage while the pumps are in operation.
Minor ability to reduce peak lake levels during high water events.	May require a downstream temporary sandbag freeboard dike.
Temporary pumping reduces days above the high water warning level by 32 days compared to existing conditions (1:20 year event).	Time required (approximately 1 week) to mobilize temporary pumping equipment when a significant high water event is forecast or occurs.
Limited impacts to the recreational use of the adjacent area during pumping operation.	A more detailed water management plan would need to be developed.
Fewer habitat impacts as it does not require the dam to be raised.	Potential restriction to road usage (1 lane) during set up of pumping equipment.
Provides operational safety and flexibility compared to the current structure.	Specialized equipment required for pump and stoplog installation.
Pumping equipment can be stored off site when not in use.	Long term operations and maintenance requirements and costs higher than Option 1.
	Increased operating noise when pumps are in operation.
	Disruption and alteration of downstream wetland. Downstream impacts may trigger environment act license requirements and further stakeholder consultations.
	Higher capital cost and longer construction schedule compared to Option #1.

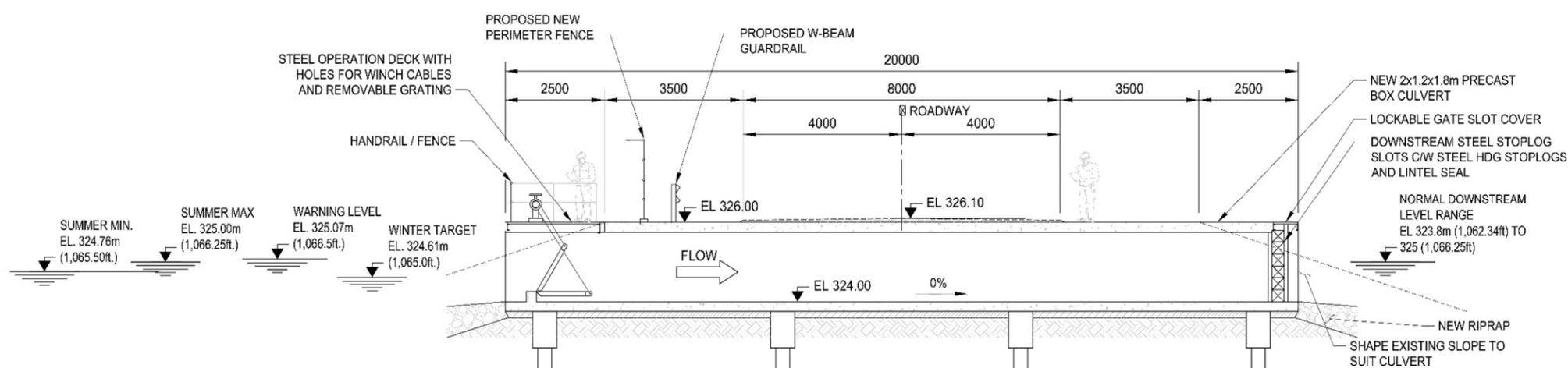
Option 2 – Replace Timber Structure with New Culverts and Temporary Pumping Capabilities for Significant High Water Events



1 BOX CULVERT PLAN
1:50



A LONGITUDINAL SECTION
1:50



B LONGITUDINAL SECTION
1:50

