

EXPO CROW PUMP DIVERSION

engineering ▲ design

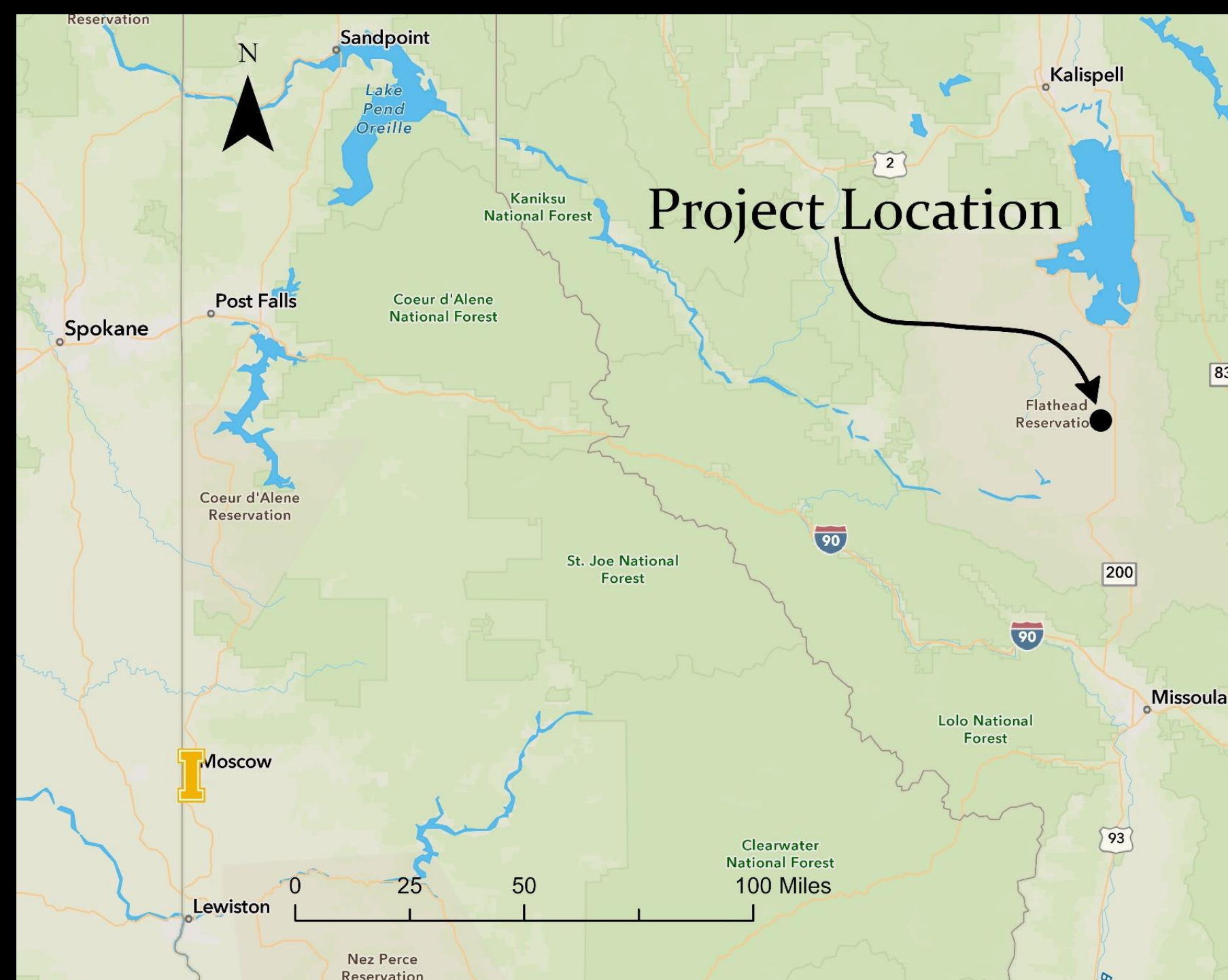
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Project Sponsored By: DOWL

Contact: Jack Krusemark, EI

DOWL

BACKGROUND

The Crow Pump Diversion, located in Lake County, MT is used to divert water from Crow Creek into a pumping plant that lifts the water to the Crow Feeder Canal. Once in the canal, water is used for irrigation and either delivered for storage or supplemental flow.

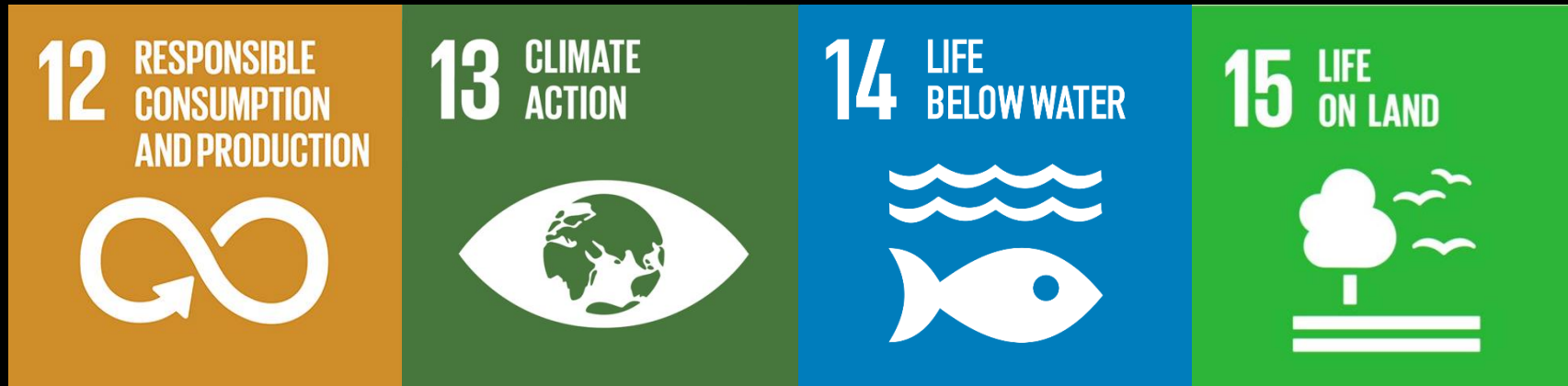


OBJECTIVES

- Improve operations of pump station
- Reset service life of facility
- Improve system hydraulics
- Provide fish accommodations

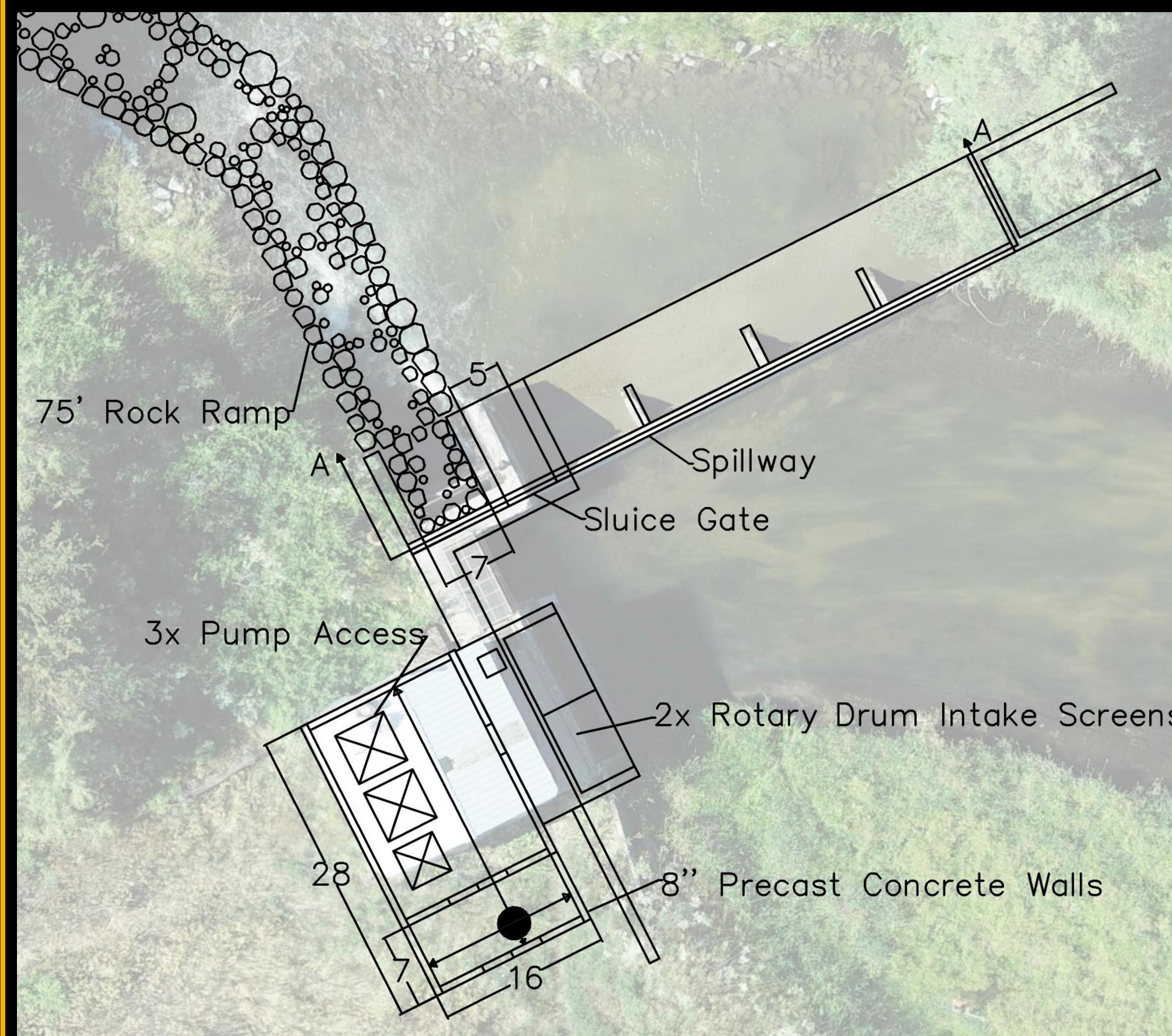
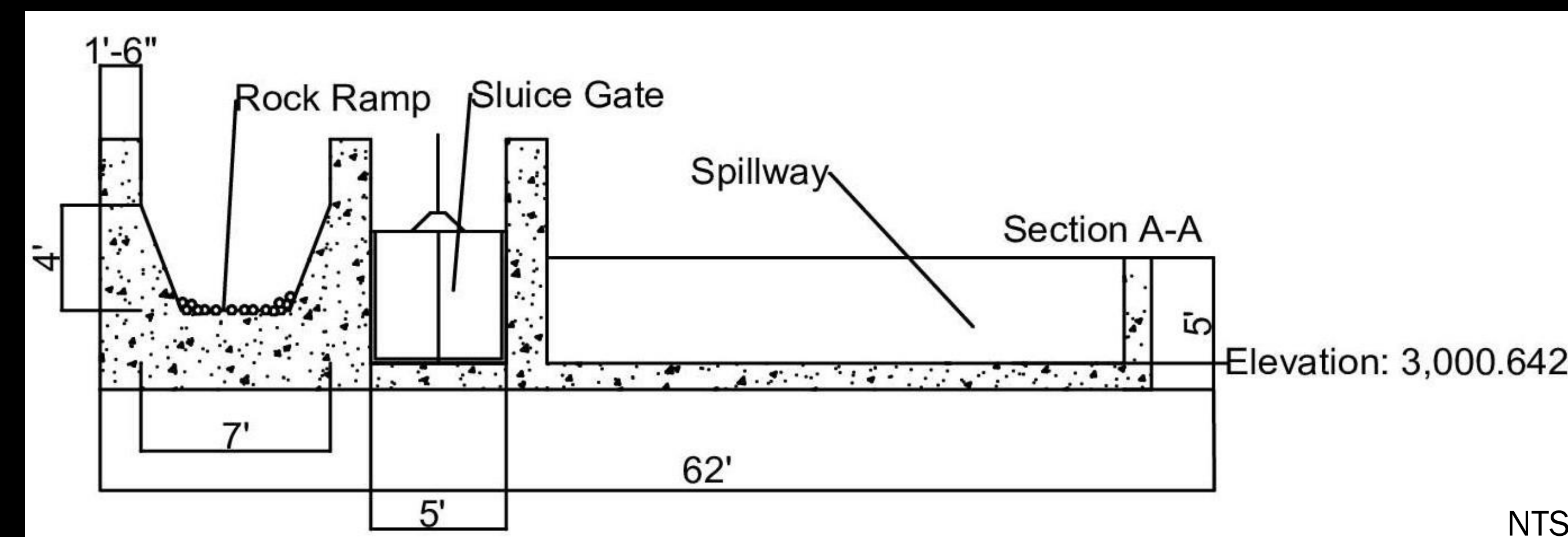
COST ESTIMATE

- \$5,631,000 with 30% Contingency



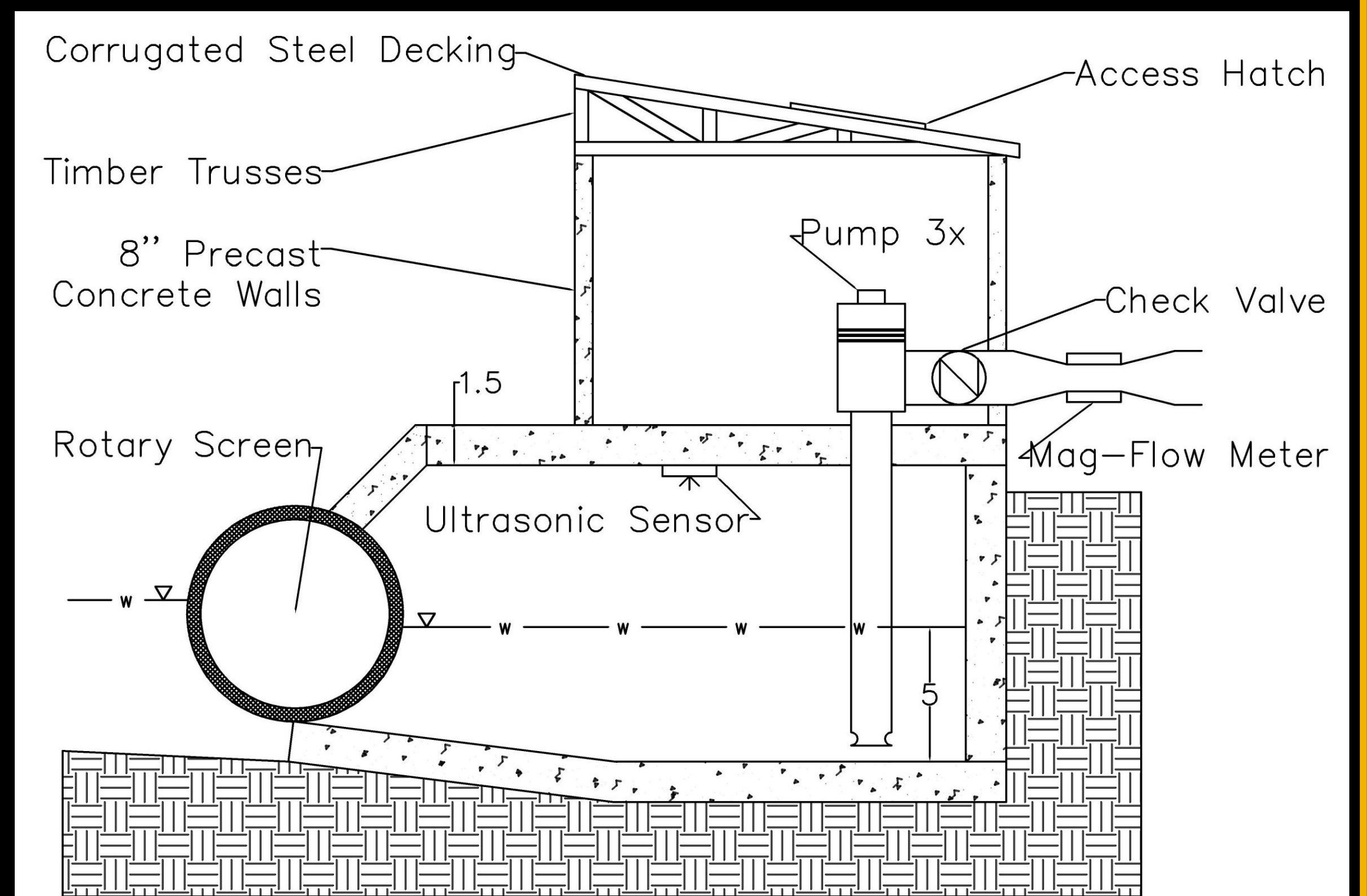
FISH PASSAGE AND GATES

- Replace radial gate with sluice gate
- Install partial-width rock ramp for fish passage



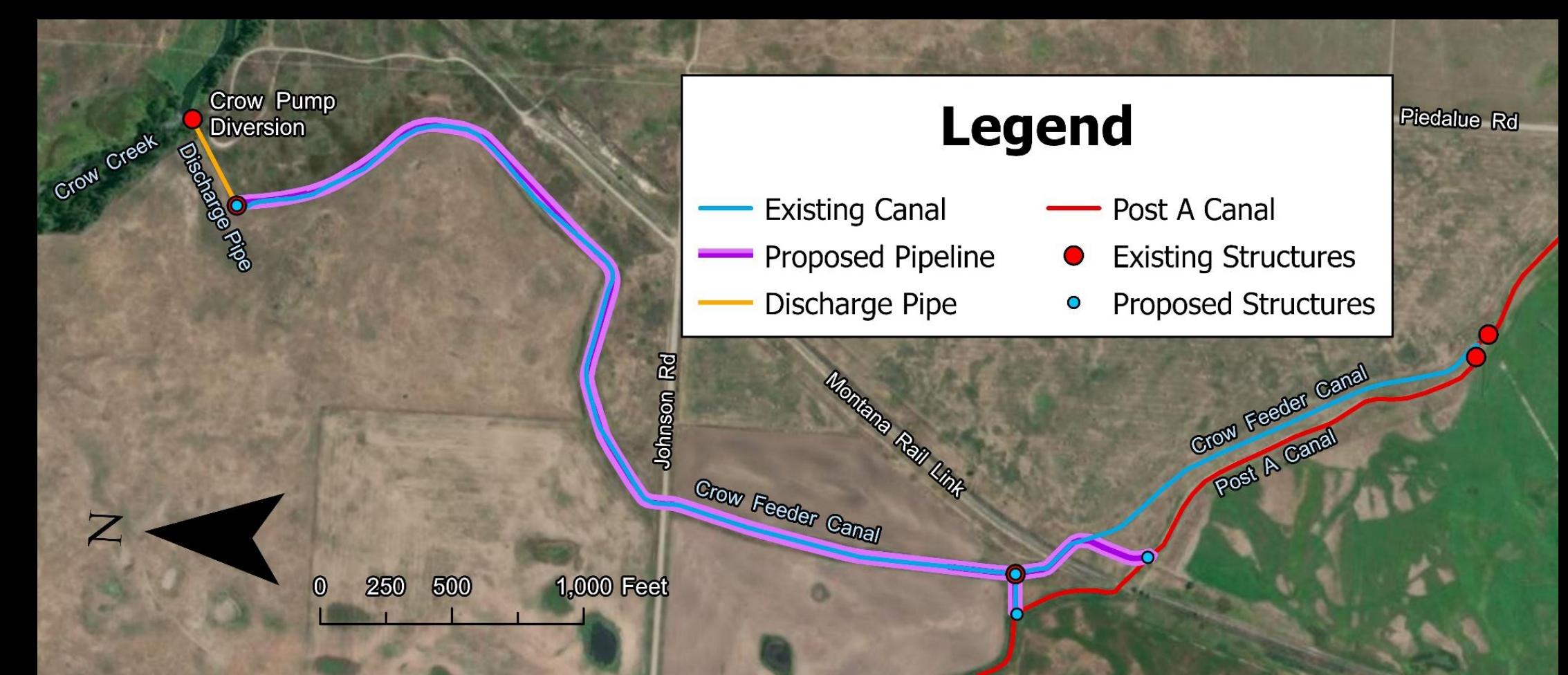
PUMPS AND STRUCTURE

- Install three pumps & rotary drum screen
- Replace structure to accommodate 40 cfs



CONVEYANCE SYSTEM

- Replace 6,100 feet of earthen canal
- Install 4,660 feet of 48-inch pipeline
- Replace several irrigation structures



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2024 Capstone Project