

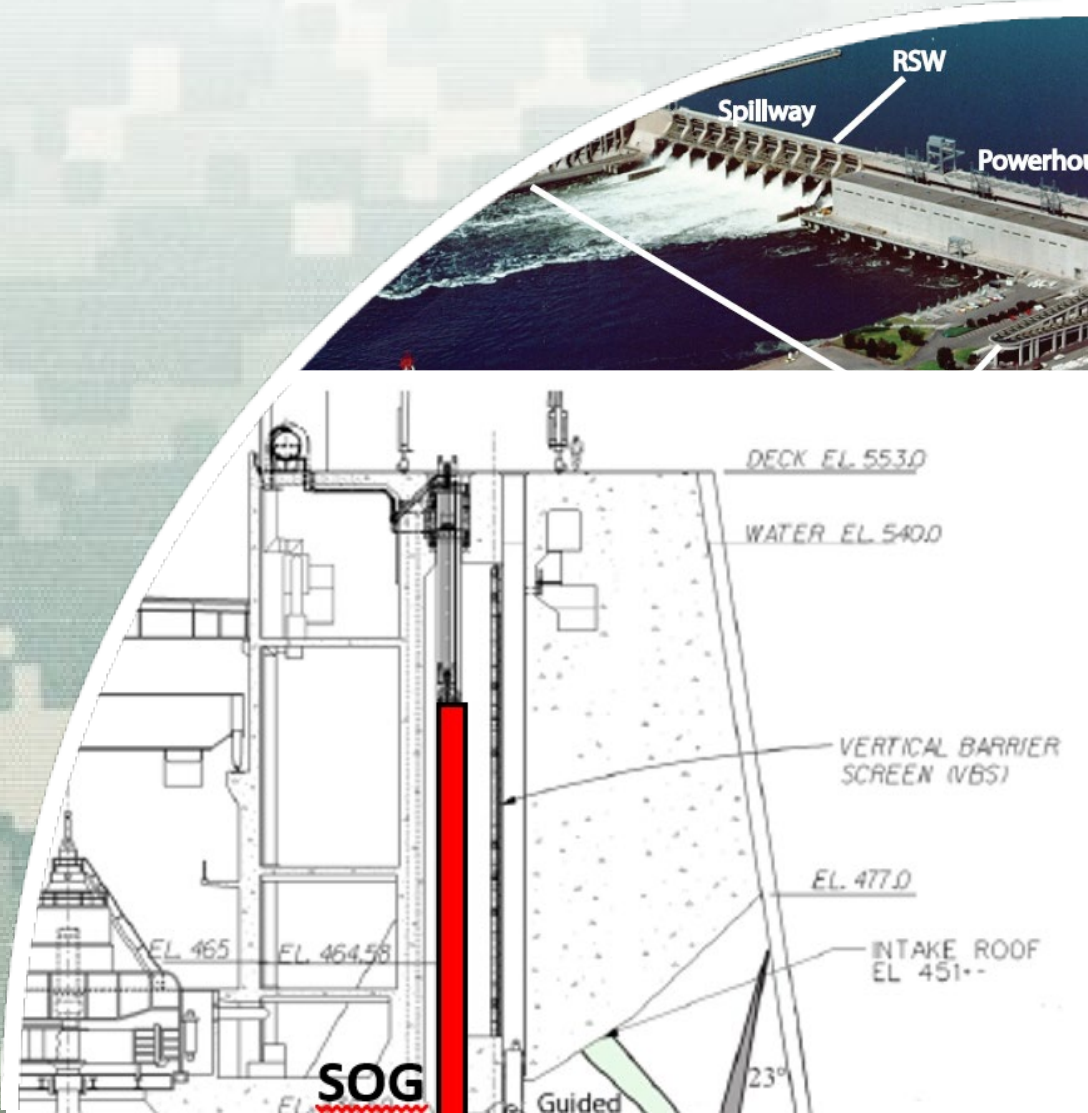
Ice Harbor Dam Head Gate Cylinder Replacement

Karl Anderson

Fish Biologist

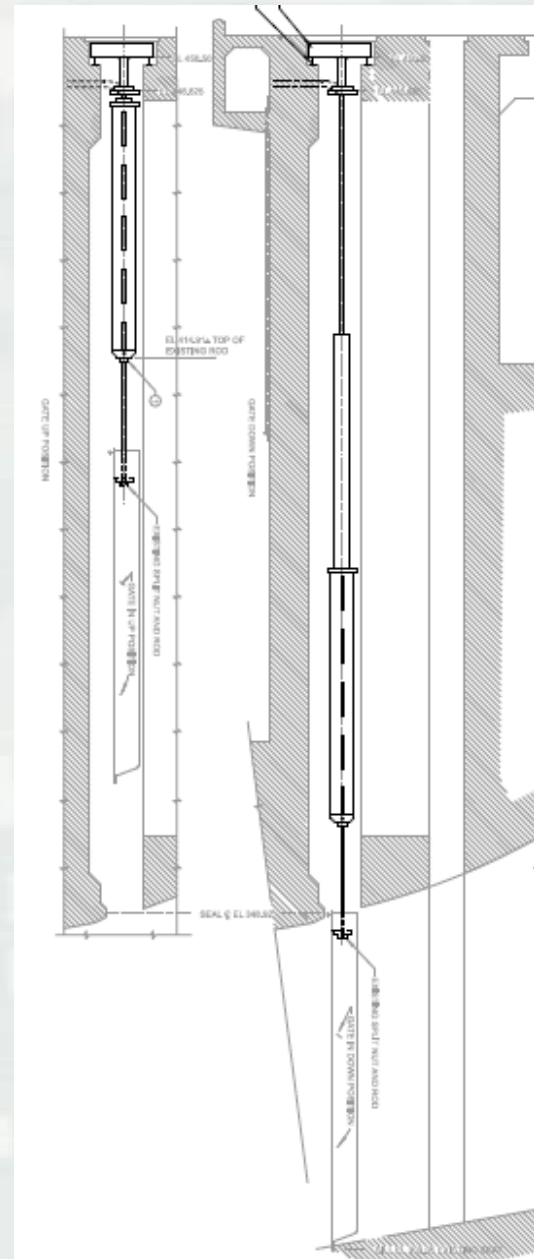
Walla Walla District

2022



Ice Harbor Head Gate Cylinder Replacement

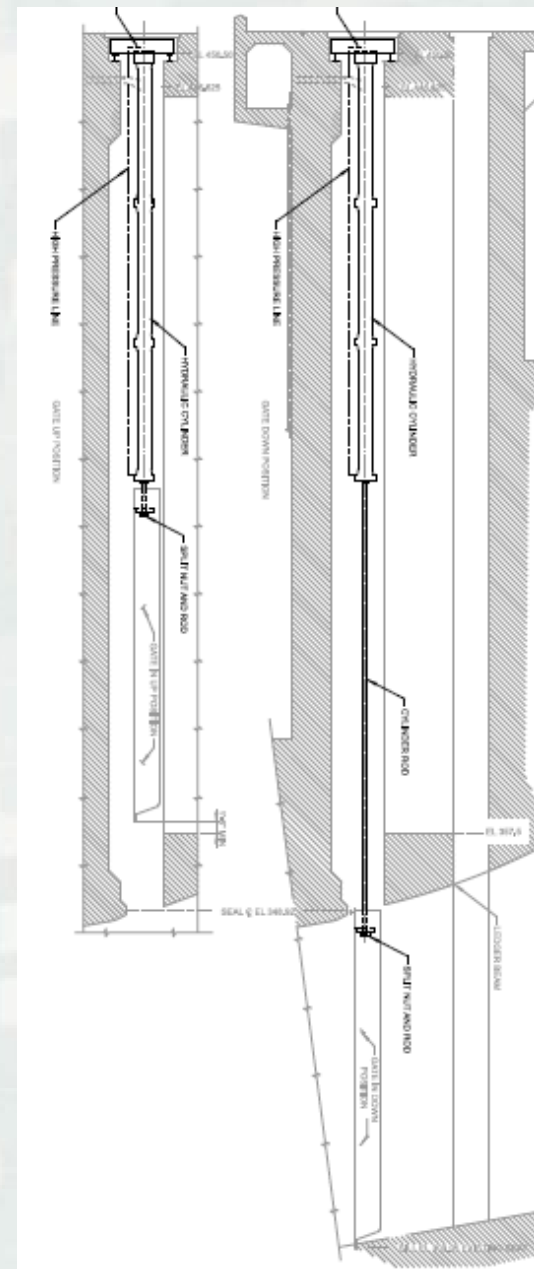
Existing Configuration



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Ice Harbor Head Gate Cylinder Replacement

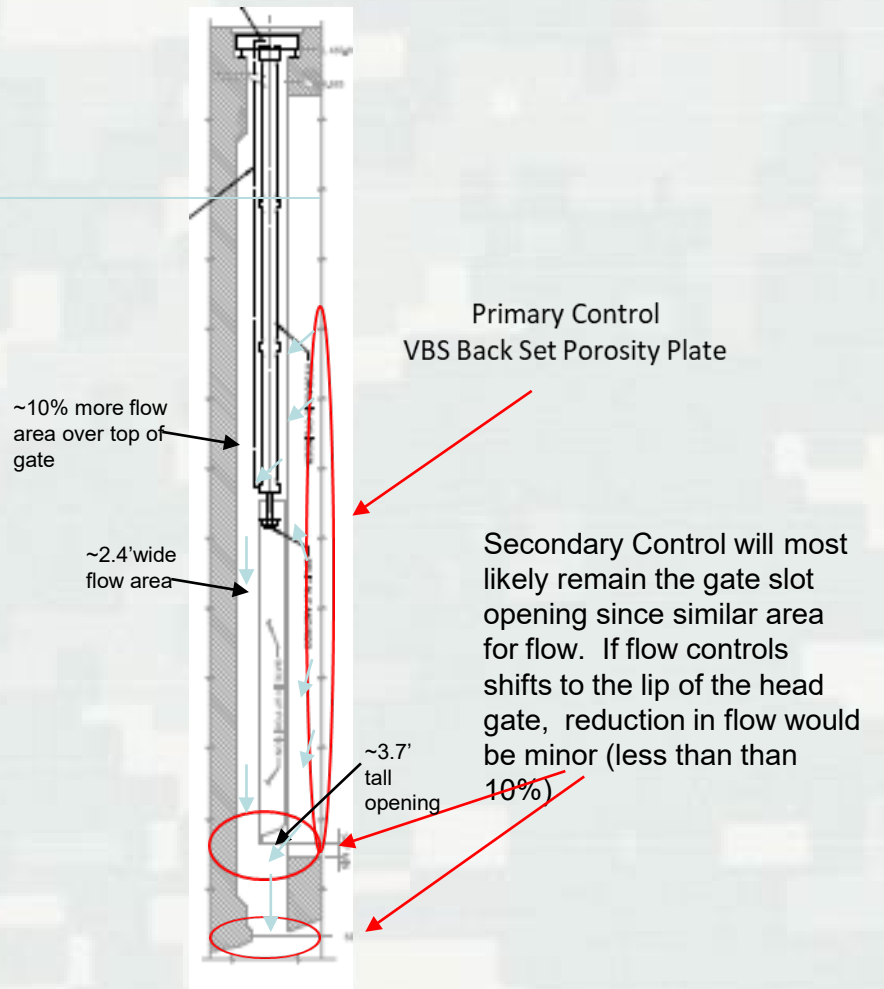
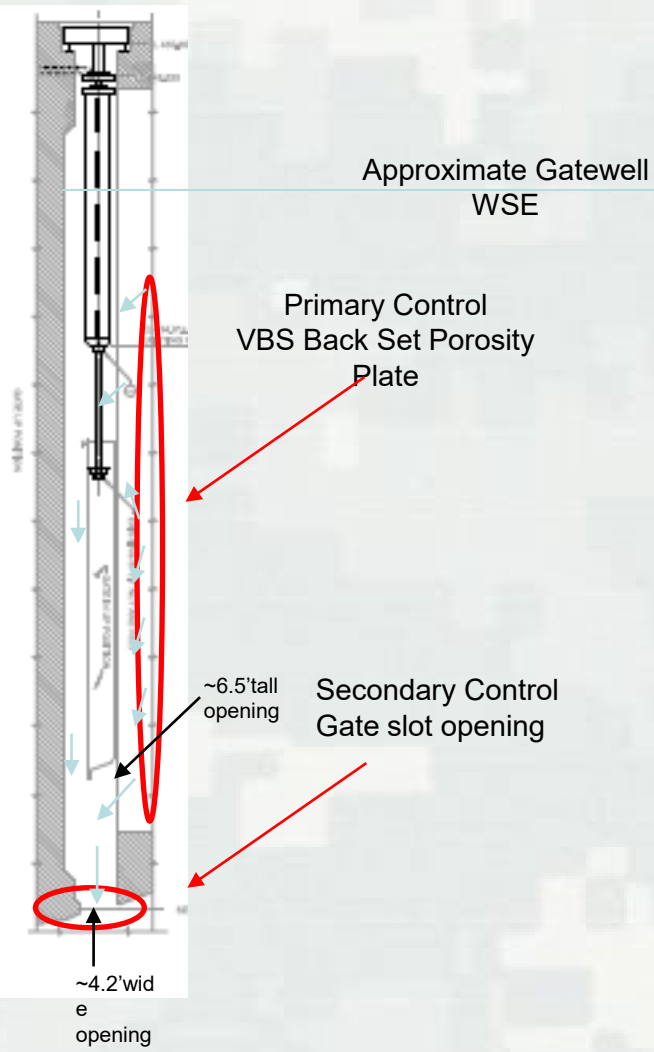
New Configuration



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Head Gate Stored - Multistage Cylinder

Head Gate Stored - Multistage Cylinder



Schedule

- Final Design ~Sept. 2022
- Contracting Fall 2022
- Prep early Spring 2023
- Installation
 - ▶ May 2023 - 2025

