



Wymer Conveyance

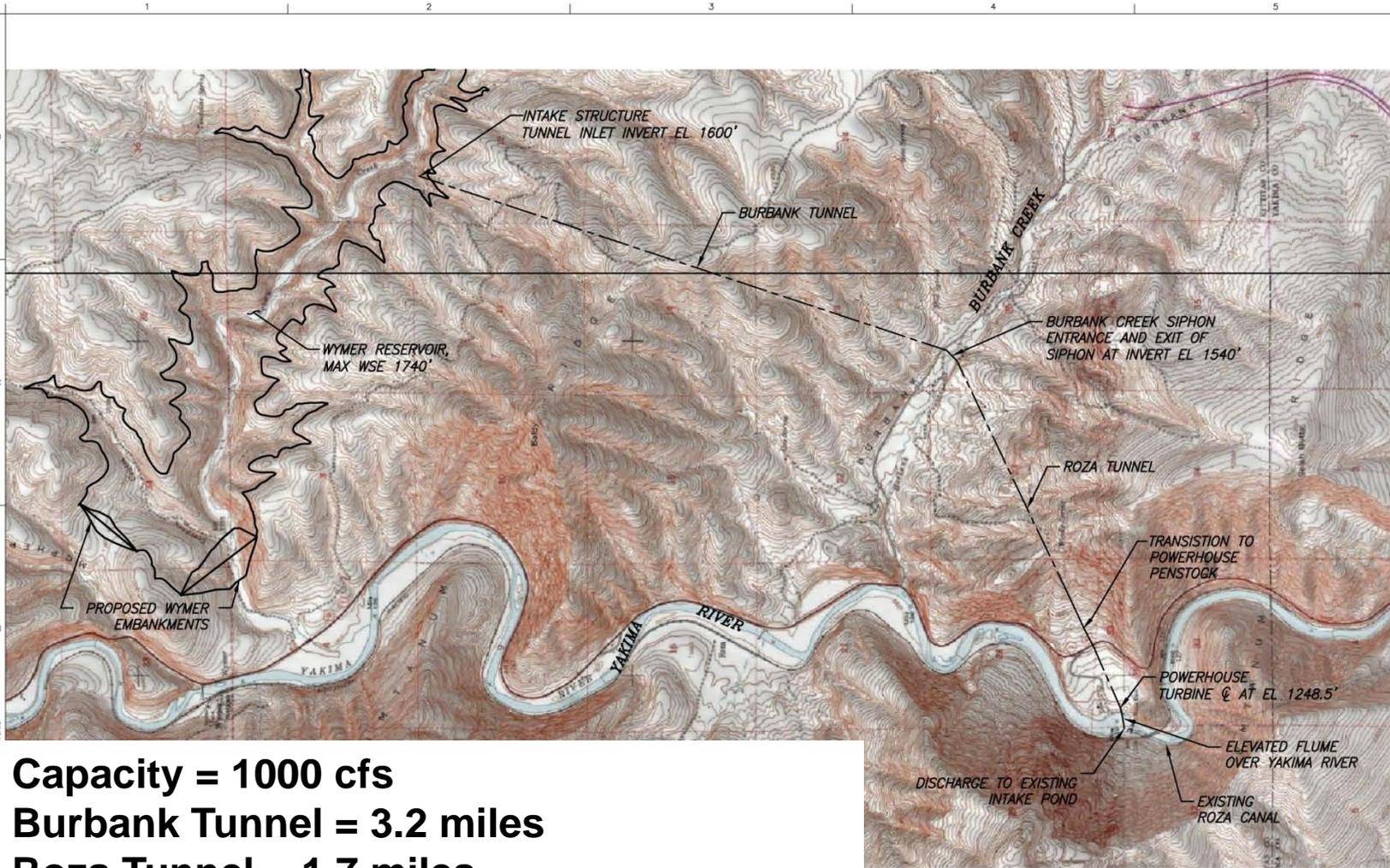
Conceptual Engineering Approach

Wymer Conveyance

From Wymer Reservoir to Roza Canal Headworks

- Summary:
- Route Selected Jointly with Reclamation
- Direct Delivery to Roza Canal Headworks (125 kaf available - above elev. 1600 ft)
 - *Remaining storage available for outlet works release (169 – 125 = 44 kaf)*
- Capacity = 1000 cfs
- Burbank Tunnel – 3.2 miles, Roza Tunnel – 1.7 miles
- Estimated Powerhouse Capacity – 15 to 20 MW
- Elevated Flume over the Yakima River

Conveyance Site Map



Capacity = 1000 cfs
Burbank Tunnel = 3.2 miles
Roza Tunnel = 1.7 miles
Est. Powerhouse Capacity = 15 to 20 MW

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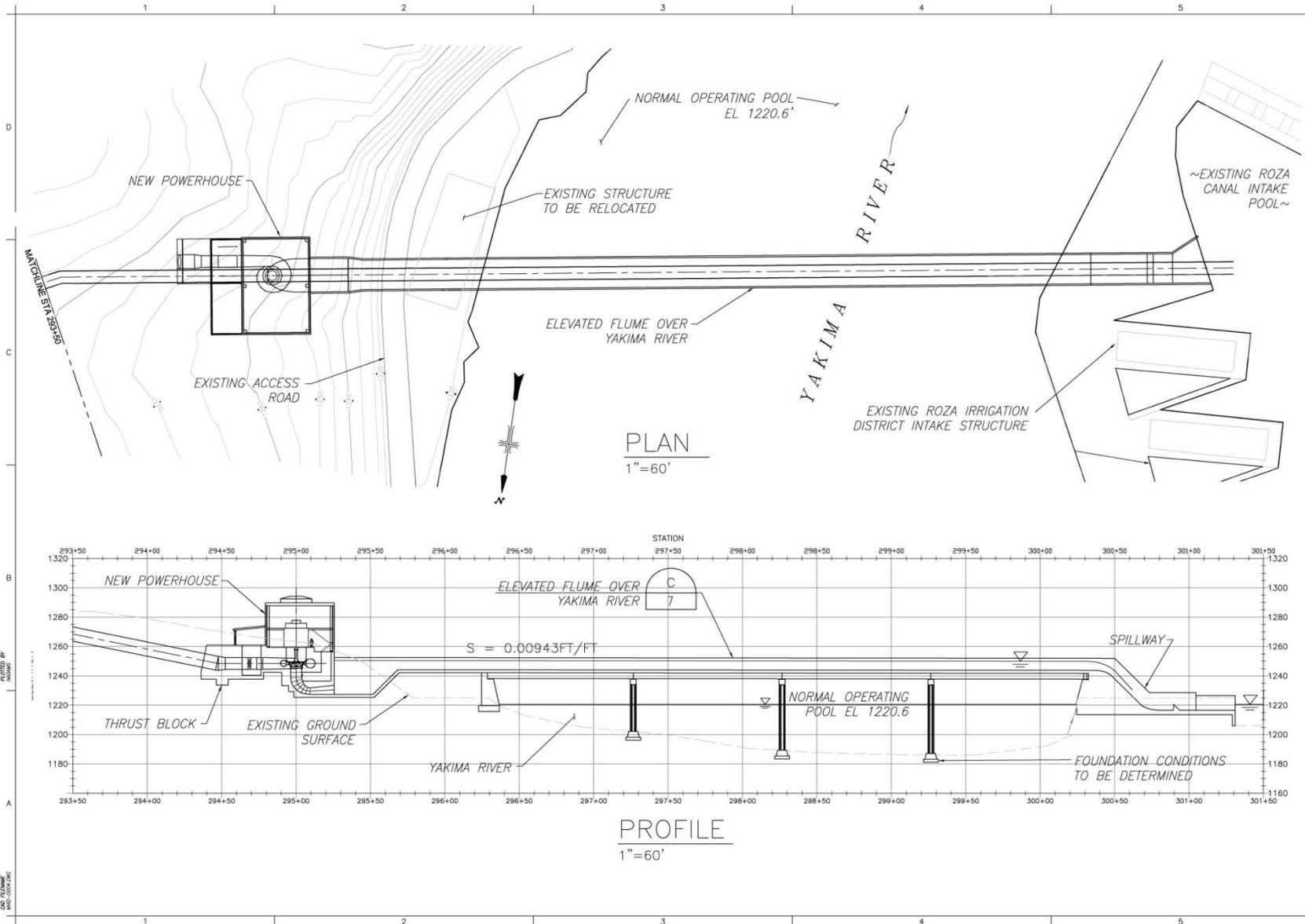
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ALWAYS THINK SAFETY
 U.S. DEPARTMENT OF THE INTERIOR
 BUREAU OF RECLAMATION
 YAKIMA BASIN STORAGE STUDY PROJECT
 WYMER CONVEYANCE - WASHINGTON
 FEASIBILITY DRAWINGS
 WYMER CONVEYANCE

DESIGNED: [unreadable]
 DRAWING: [unreadable]
 CHECKED: [unreadable]
 TECH. APPR: [unreadable]
 APPROVED: [unreadable]
 DATE: 07.20.2010

WYMER Conveyance Design
 Site Map

Powerhouse and Tailrace Flume



RECLAMATION
Managing River on the River

ALWAYS THINK SAFETY

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
YAKIMA BROWN STORAGE STUDY
FEASIBILITY DRAWINGS
WYMER CONVEYANCE

DESIGNED: M. ADAMS
DRAWN: M. ADAMS
CHECKED: J. SCHERER
TECH. APPROV.: M. TIG
APPROVED: [Signature]
ESQAQUAL WA 07/20/2010

Powerhouse and Flume
Plan and Profile
Sta. 293+50 to 301+50

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SHEET 7 OF 10

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PLOTTER: HP DesignJet 2450
SCALE: 1"=60'

Engineering Challenges

- Lacking geotechnical information for conveyance: canal and tunnels. Faults in the area could be problematic for pressurized tunnels.
- Conveyance tunnels to Roza Canal won't be able to access all stored water in Wymer.

Next Steps

- Finalize configurations
- Confirm quantities and develop cost estimates
- Additional results presented at the 9/22 Workgroup mtg. and also summarized in a Technical Memorandum for Workgroup review

Disclaimer

- Results discussed today are working drafts
- Data and calculations are still being checked and results may be updated