



Anderson Dam Seismic Retrofit Project Update

Anderson Dam Project Goals

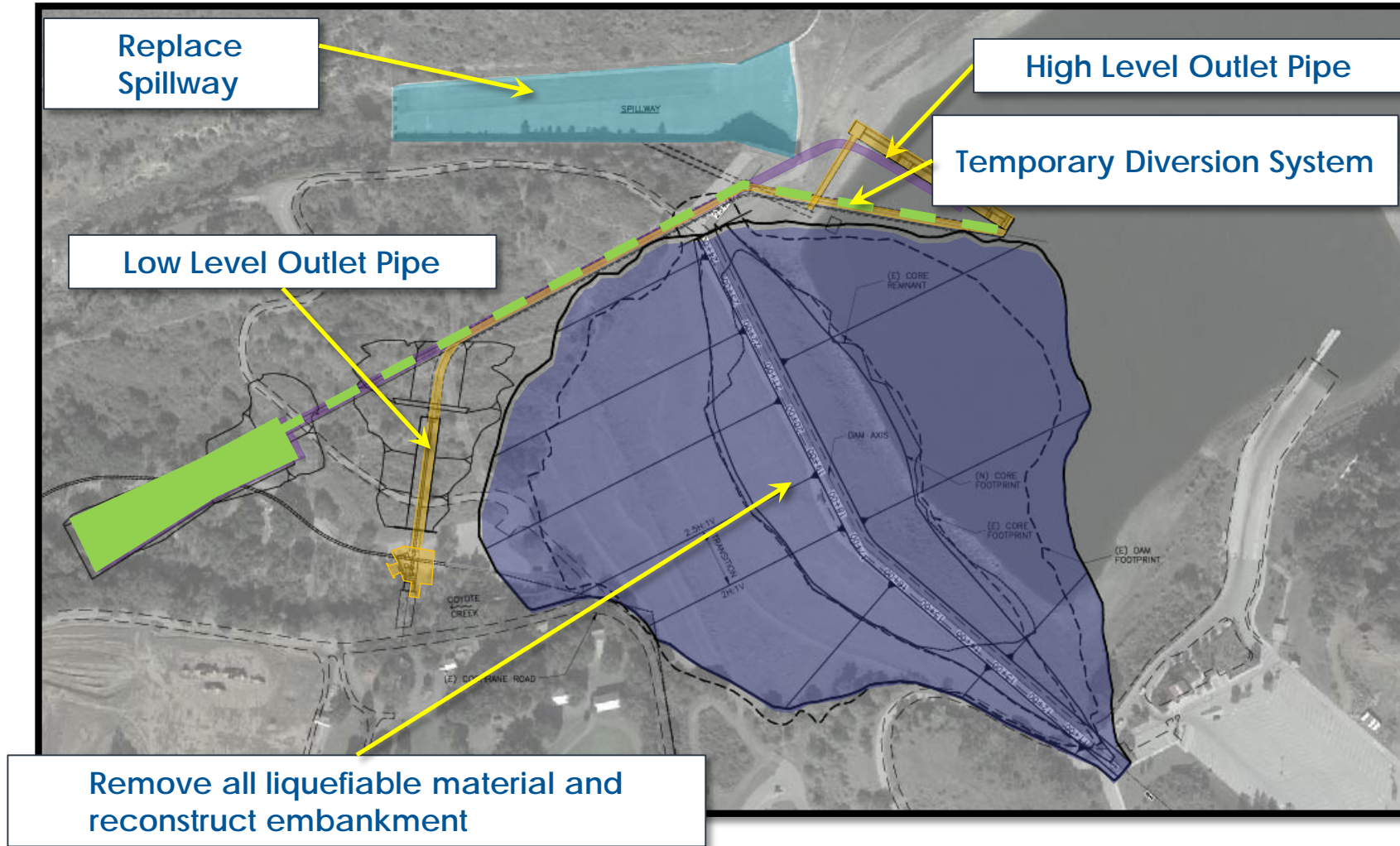
- **Public Safety:** Expeditiously complete the project to safeguard against loss of life and reduce property damage due to earthquake and/or subsidence.
- **Water Supply:** Ensure a resilient water system to benefit the community's access to safe, clean, and reliable water while supporting a healthy groundwater basin.
- **Environmental Enhancements:** Protect the creek habitat during construction and provide improved habitat after construction.
- **Financial Sustainability:** Use resources prudently to build a reliable, long lasting project for the community.

Anderson Dam Existing Components



Anderson Dam Seismic Retrofit Project Components

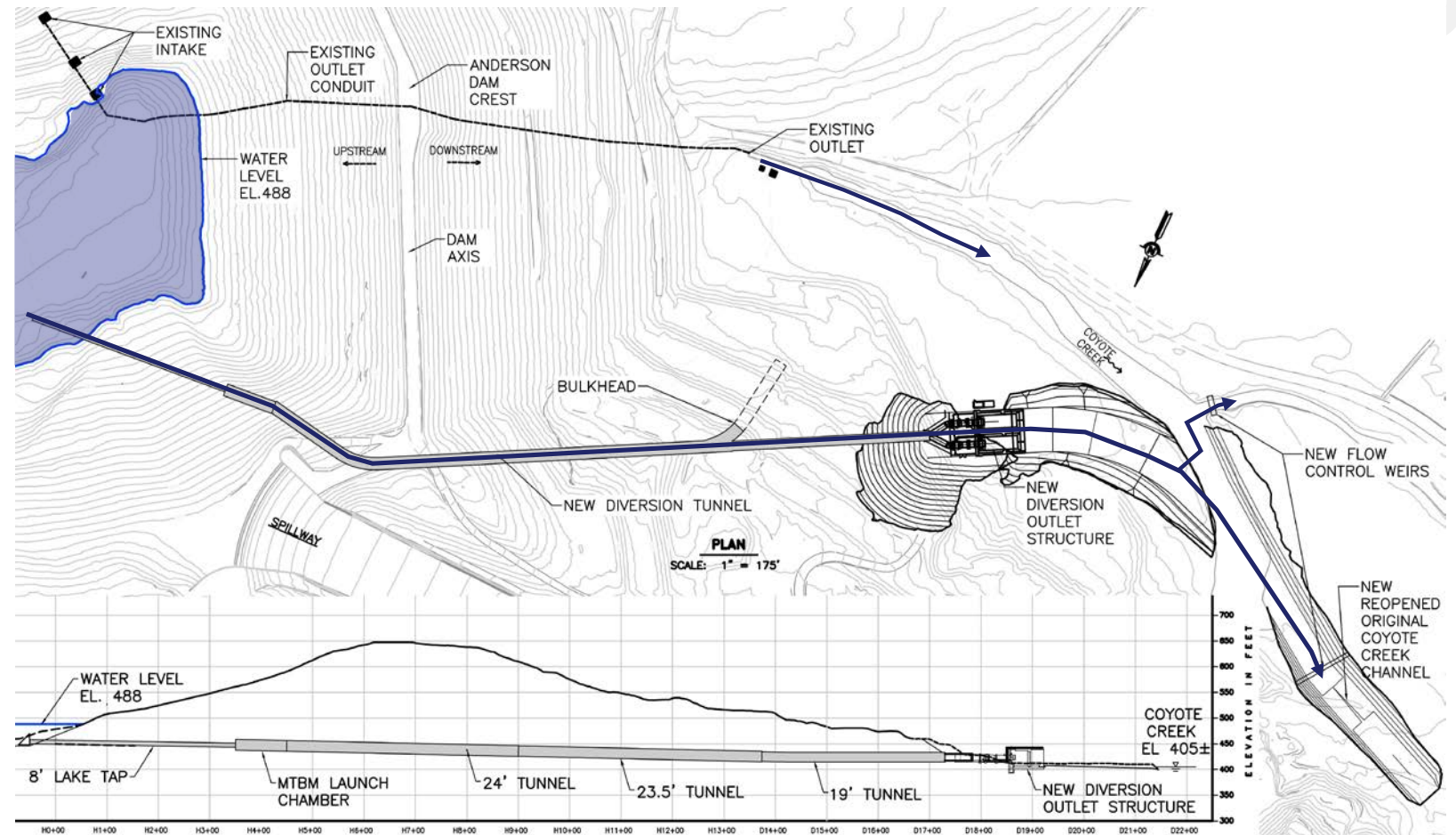
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February 20, 2020 FERC Directive - Interim Risk Reduction Measures

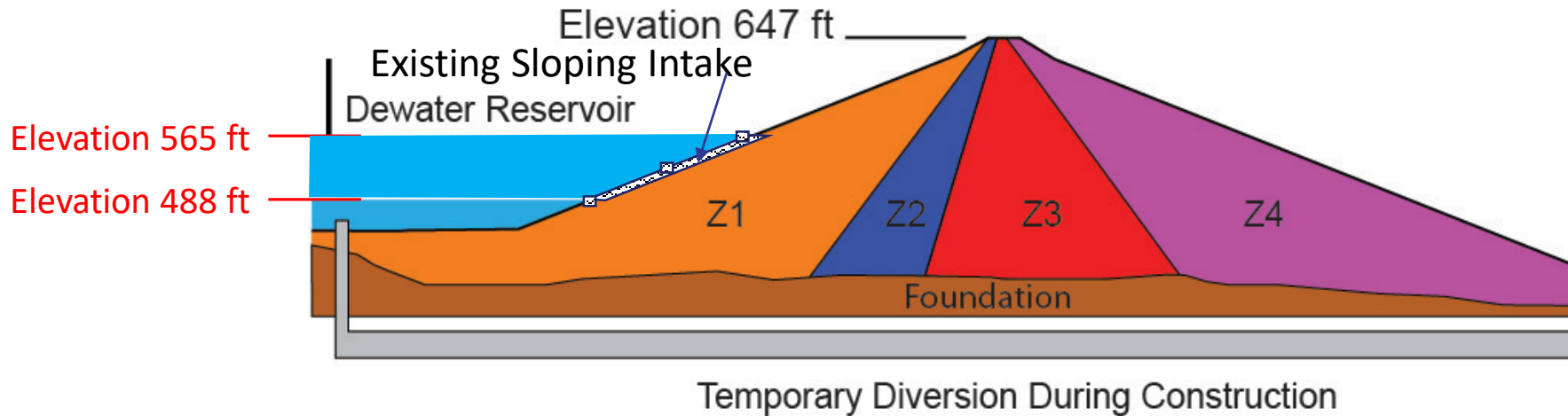
- 1) Lower reservoir to new restriction (El. 565')
- 2) Take all necessary measures to safely prepare and drain the reservoir to El. 488'
- 3) Oct. 1 - Begin draining reservoir to dead pool (El. 488')
- 4) Develop plan to maintain dead pool elevation in event of significant inflow
- 5) Expedite design and construction of new Outlet Tunnel
- 6) Secure permits and complete design of larger Seismic Retrofit Project



Valley Water Response

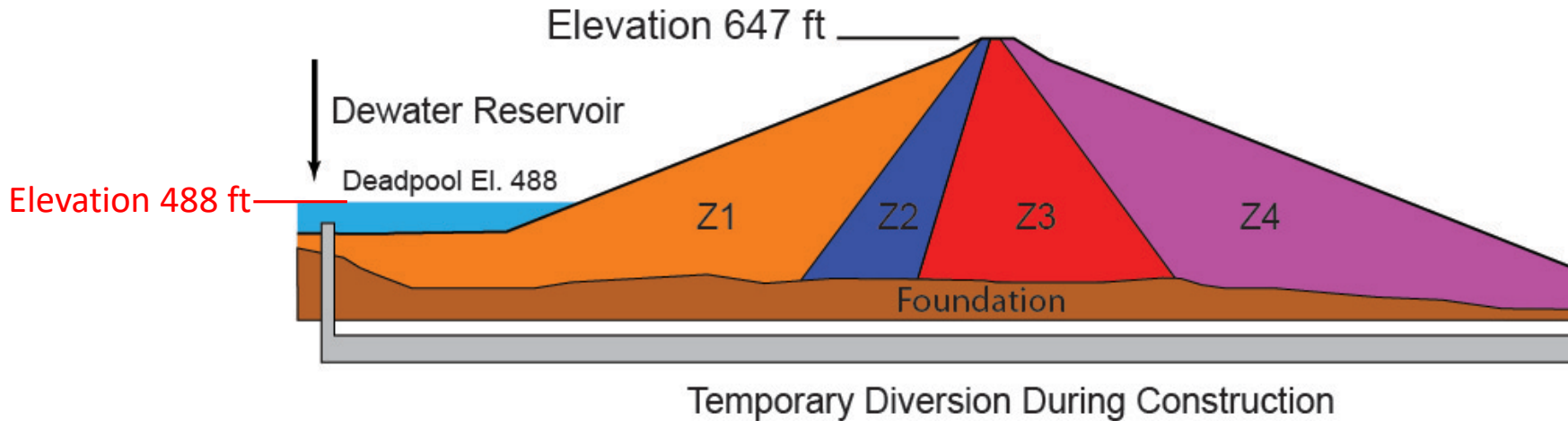
- Ensure immediate compliance with new reservoir level restriction
- Create Anderson Dam Tunnel Project (ADTP) to expedite design and construction of the outlet tunnel
- Create Federal Energy Regulatory Commission Order Compliance Project (FOCP) to safely drain and maintain the lowest practicable reservoir operating level while minimizing water supply and environmental impacts
- Board of Directors approval of FOCP preliminary project description

FOCP - Initial Reservoir Lowering



- 1) Lower Reservoir to Elevation 565' – In compliance
- 2) October 1 – Begin draining reservoir to Elevation 488'
 - Dewatering Plan to accomplish order and address impacts underway.

FOCP– Expedited Outlet Construction (ADTP)



- 3) Expedite Construction of New Outlet Tunnel - ADTP
 - Plan for design and construction submitted to FERC 3/20/2020
 - Begin construction in early 2021
 - Tunnel construction 18-24 months from commencement

- 4) Other Measures to Draw Down Safely
 - Downstream flood protection mitigation
 - Embankment and outlet monitoring until outlet tunnel complete
 - Enact necessary mitigation measures to minimize water supply and environmental impacts

Necessary Permits

- **Federal**

- FERC: Amendment to Exemption for Licensing
- USACE: CWA Section 404 Permit
- USFWS: Incidental take permit (VHP – see below)
- NMFS: Incidental take permit (steelhead trout)

- **State**

- DSOD: New dam application
- CDFW: LSAA
- VHP: Incidental take authorization (covered species for state and federal ESA)
- SWRCB: General Construction NPDES Stormwater Permit
- SWRCB/SFRWQCB: CWA Section 401 Water Quality Certification
- SHPO: Section 106 of the NHPA

- **Local** – municipal approvals, encroachment permits, temporary rights of way.

Project Schedule

