

Reservoir 3 Cover Repair Project Using Progressive Design-Build

Project Review Committee Presentation



Presentation Overview

City of Everett Introductions

John Nottingham

Project Description / Schedule

Randy Loveless

City Reasons for Progressive DB Delivery

John Nottingham

Team Qualifications and Experience

John Nottingham

RCW 39.10 Requirements

Pat Tangora

Closing

John Nottingham

Project Team Introduction

John Nottingham Senior Project Manager, City of Everett

Randy Loveless Project Manager, City of Everett

Bill Fisher Construction Inspector, City of Everett

Tim Benedict Deputy City Attorney, City of Everett

Pat Tangora Design Build Procurement and Contracting
Advisor, Brown and Caldwell

Tadd Giesbrecht Project Manager, Brown and Caldwell

Patrick Weber Design Build Technical Advisor, Brown and
Caldwell

Reservoir 3

- In ground 20-million-gallon concrete reservoir
- Originally constructed in 1920, 4-acre concrete beam and panel roof added in 1987
- Central distribution hub that connects critical water system components with 70% of City's in-town water flowing through this hub

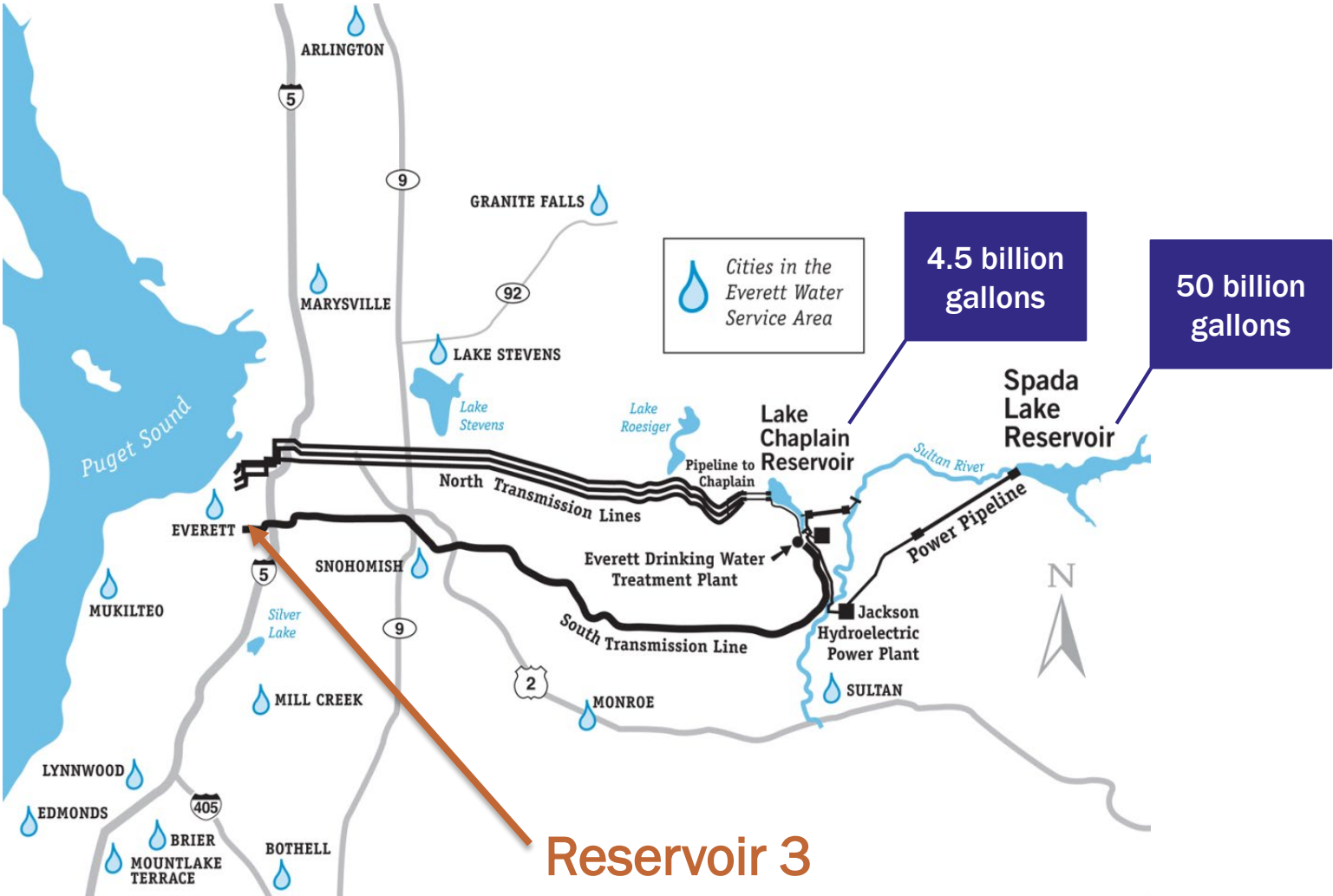


Reservoir 3

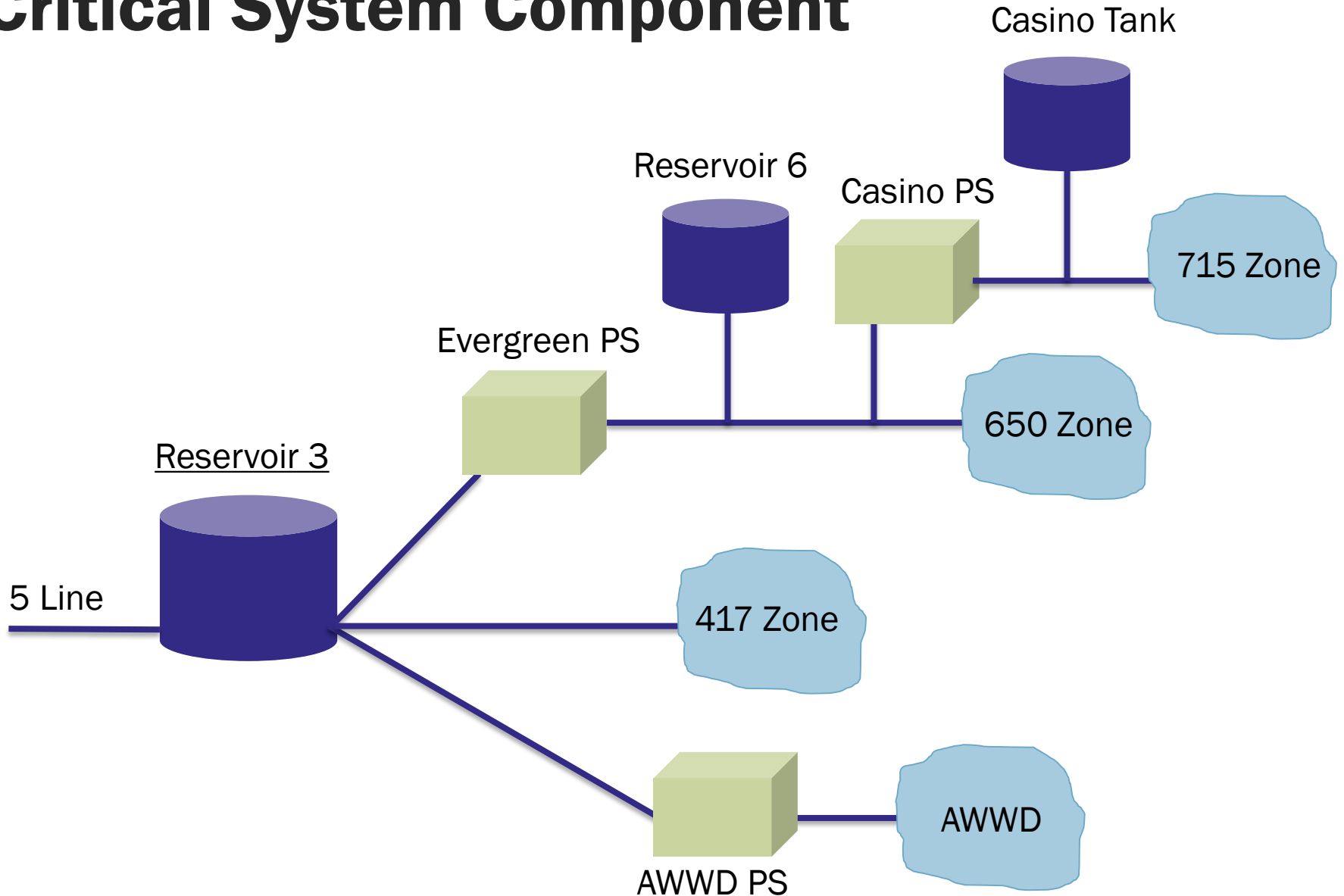
- Potable water reservoir – no opportunity for additional treatment before water enters the system from the reservoir
- Water passing through the reservoir is supplied to other water purveyors such as the Alderwood Water District, Silver Lake Water and Mukilteo Water District



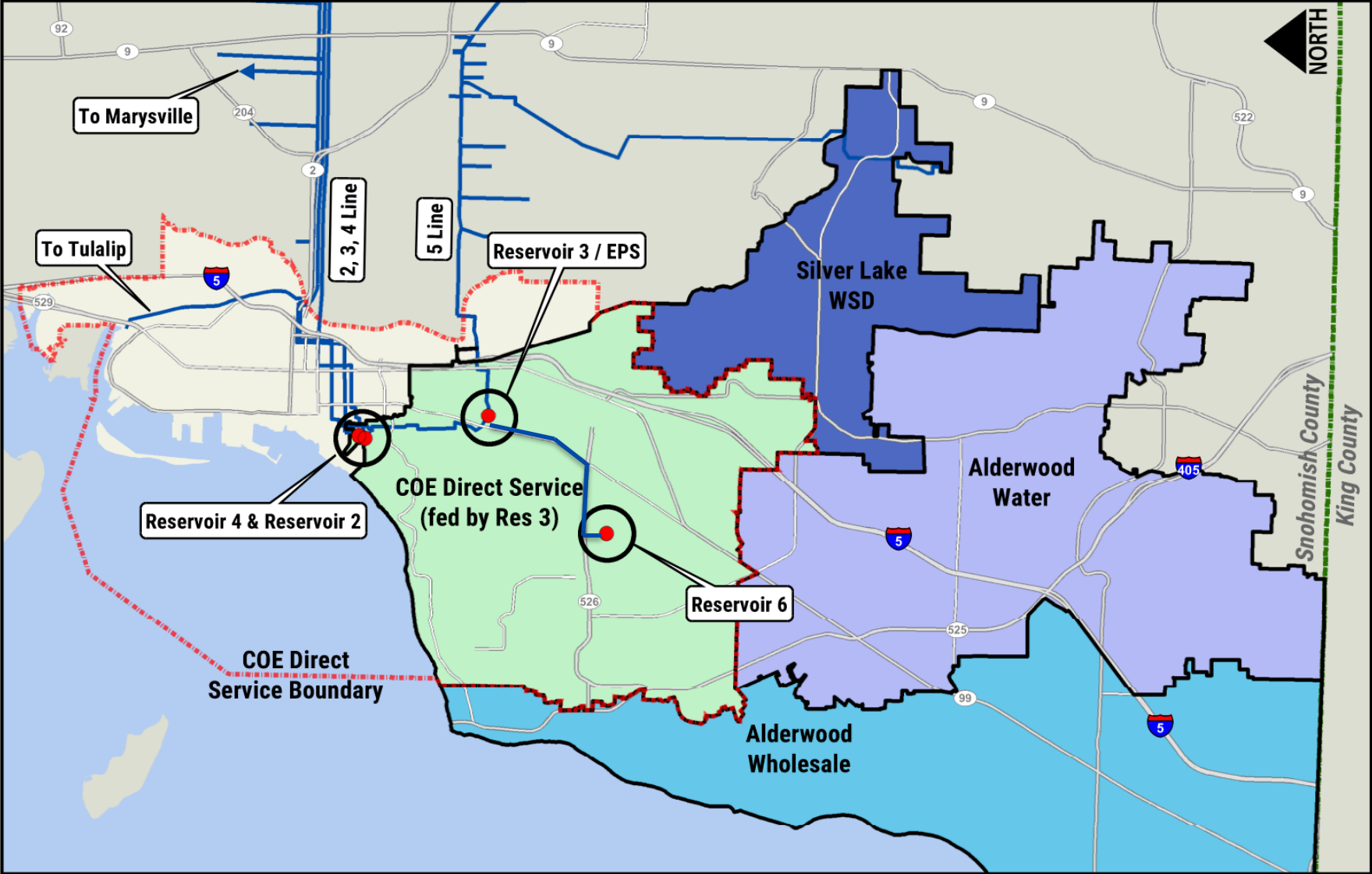
Regional Water System



Critical System Component

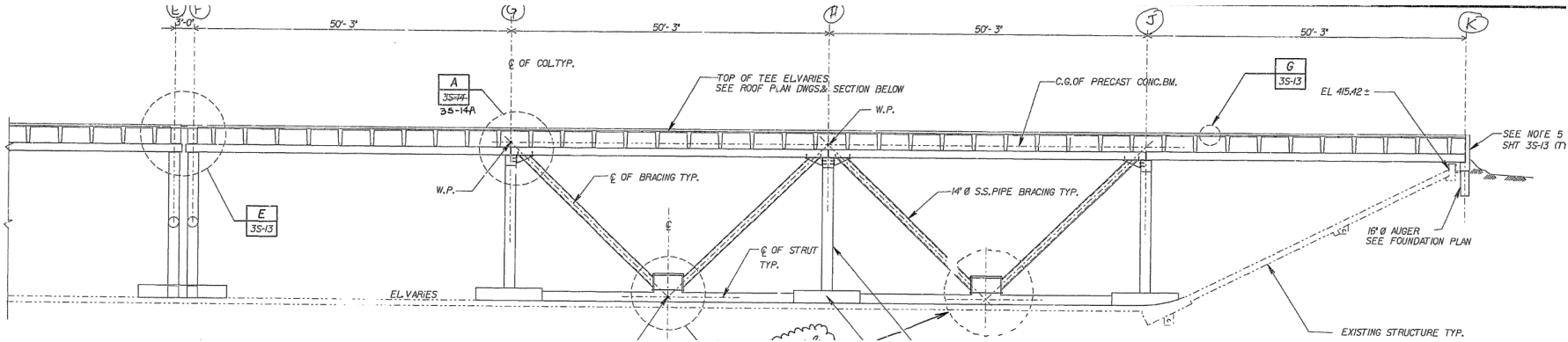


Reservoir 3 Service Area

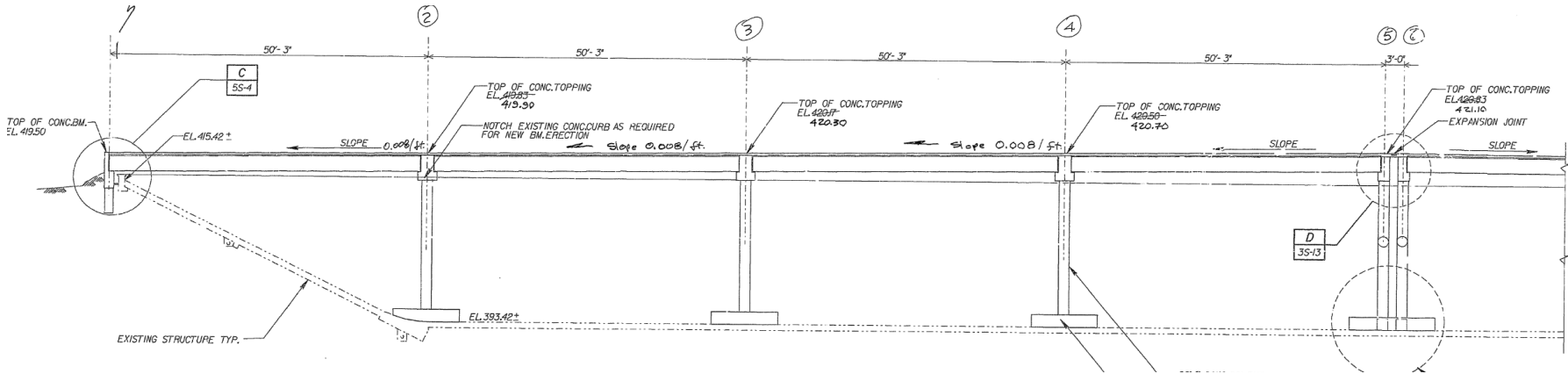


Project Description and Schedule

Reservoir 3 Structural System



North-South Partial X-Section



East-West Partial X-Section

Reservoir 3 Repair Project

- Significant damage to interior concrete structure
- Seismic deficiencies
- Limited access



Reservoir 3 Repair Project



Bidding, Design and Construction Challenges

- Difficult access and limited time window:
 - Limits ability to fully define necessary repairs
 - Limits potential bidders / proposers' ability to fully understand the work and provide a fixed price



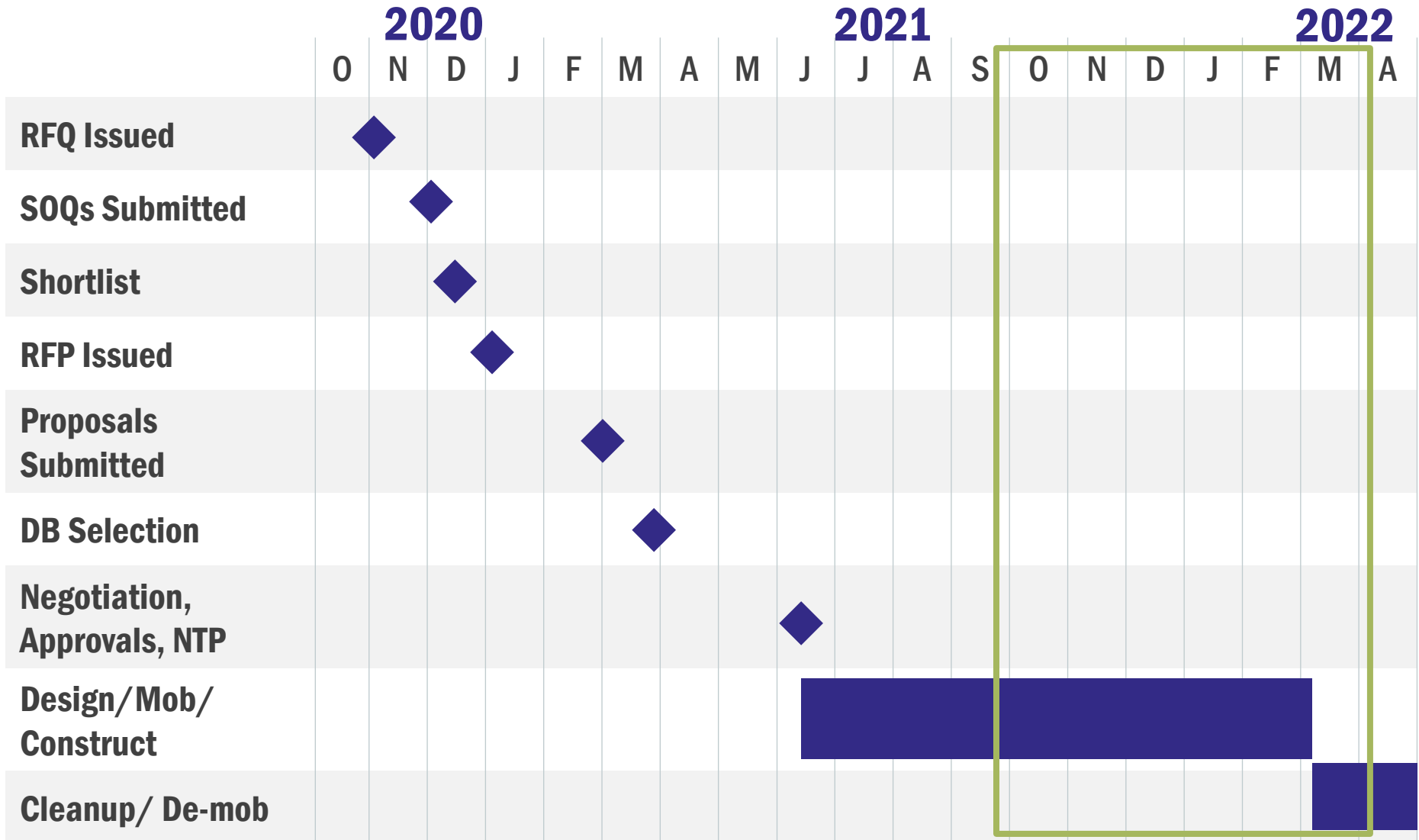
Bidding, Design and Construction Challenges

- Waterproof liner integrity must be preserved
- Repair approach (and design) highly dependent on construction methods



















Schedule/Limited Construction Window

Period Reservoir 3 can be Offline

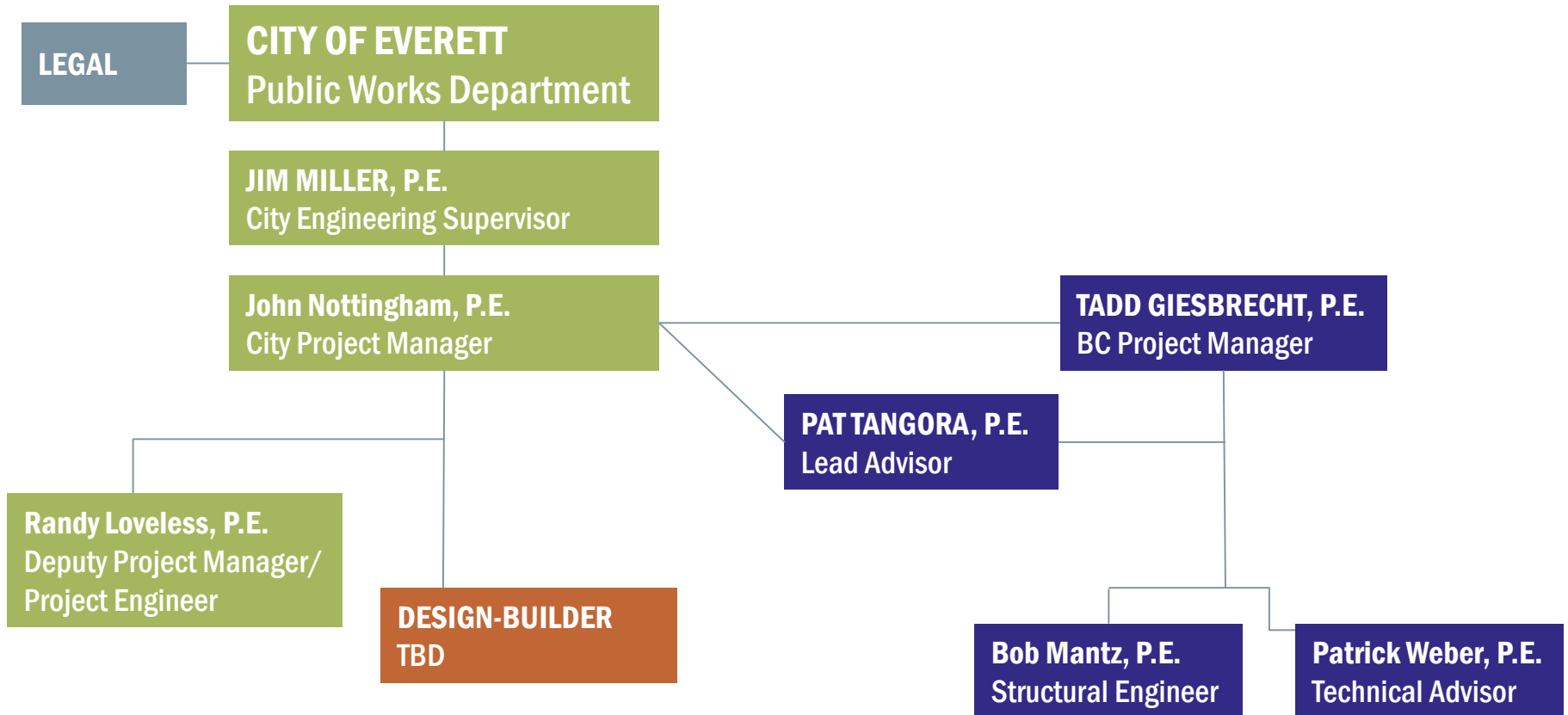


Why Select Progressive DB for this Project?

Issue	Design-Bid-Build	Fixed Price DB	Progressive DB
Critical Infrastructure	 Limited consideration of quals	 Thorough consideration of quals	 Thorough consideration of quals
Nature of Work	 Design and construction are segmented	 Best solutions are closely related to constructability. Allows for design and construction integration Single point of responsibility for Design & Const  Limited City input regarding liner integrity	 Best solutions are closely related to constructability. Allows for design and construction integration. Single point of responsibility for Design & Const
Difficult Access and Limited Window to Take Res 3 Off-line	 Makes it difficult and time consuming to fully define the nature of the work for bidders  Makes it nearly impossible for bidders to observe the required work to develop fixed price bids	 Makes it difficult and time consuming to fully define technical requirements in an RFP  Makes it nearly impossible for proposers to observe the required work to develop fixed price proposals	 Allows selection primarily on quals, to work closely with City to understand the work, and develop solutions and pricing  Allows for “rolling” design, pricing, and construction
Collaboration	 Very limited after low responsive, responsible bidder is selected	 Limited after fixed-price design-builder is selected	 Allows for collaboration throughout the design and pricing process

Team's Relevant Experience

Team Introduction



Team's Experience

PROJECT	TYPE	CITY OF EVERETT		BROWN AND CALDWELL		
		John Nottingham, PE	Jim Miller, PE	Pat Tangora, PE	Tadd Giesbrecht, PE	Patrick Weber, PE
Everett Clearwell Roof Replacement	FP DB		✓	✓	✓	✓
Everett Reservoir 6 Roof Replacement	FP DB	✓	✓	✓	✓	
Everett WPCF Phase A Expansion	GC/CM		✓	✓	✓	
Everett WPCF Phase C Expansion	GC/CM	✓	✓			
Tacoma Jefferson-Hood St Interceptor	P DB			✓		✓
Tacoma Central TP Expansion	FP DB			✓	✓	
Louisville MSD Southwestern Parkway CSO Basin Project	P DB			✓		
City of Nampa, ID Wastewater Treatment Plant Project Group F	P DB			✓		
City of Lewiston, ID Water Treatment Plant Upgrade	P DB			✓		
Walla Walla WTP Upgrade	GC/CM			✓		✓
Soquel Creek Pure Water, Reclaimed Water	P DB			✓		✓
Greater Cincinnati MSD, Mill Creek WWTP Diversion Project	P DB			✓		✓
SPU Cedar and Tolt WTPs	DBO			✓		

Project Meets RCW 39.10

Satisfies RCW 39.10.300

- Total Project cost of \$3.43M exceeds \$2M (RCW 39.10.300 (1)) ✓
- Highly specialized construction activities and DB approach critical for developing construction methodology (RCW 39.10.300 (1a)) ✓
- Project provides for greater innovation and **efficiency** between designer and builder (RCW 39.10.300 (1b)) ✓
- Significant savings in project delivery time would be realized (RCW 39.10.300 (1c)) ✓
 - Eliminates two separate procurement processes (for Design-Bid-Build)
 - Work packages can be developed on a rolling basis

Satisfies RCW 39.10.280

- Substantial fiscal benefit: less risk, greater opportunities for cost and schedule savings OR DBB not practical for meeting desired quality and schedule objectives (RCW 39.10.280 2a) ✓
- Qualified public body and consultant team with Fixed Price and Progressive DB experience (RCW 39.10.280 2c and 2d) ✓
- Resolved audit findings – Everett has had no audit findings (RCW 39.10.280 2e) ✓

Committee Questions

Questions

- What level of design has taken place to date?
- How will you ensure a level playing field for Progressive DB proposers with one engineering firm having previously completed significant pre-design work?
- Was heavy civil GC/CM considered? The project appears well suited for a substantial level of self-performance.
- What percentage of the evaluation criteria will be price based?

Closing

- Reservoir 3 repair project is ideal for delivering with Progressive DB
- The City has successfully implemented Fixed Price DB and GC/CM



Closing

- Highly qualified project team with significant Washington State alternative delivery experience and Progressive DB experience
- As demonstrated on past City DB projects, key advisors and team committed to the project through completion



Questions?