



KCWD90

Seismic Upgrade of Pump Stations 4, 5 & 6

WHAT?

Seismic Upgrade of Pump Stations 4, 5 & 6

- ◇ These pump stations work together to serve High Valley and Windsor Highlands.
- ◇ Pump Stations were built in the 1960's



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Who?

- ◇ The District received 5 bidders on the project in October 2024.
- ◇ The District contracted with
Harkness Construction, LLC
of Enumclaw, Washington,
on 11/29/2024.
- ◇ Estimated Construction Cost = \$1.5M



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When?

A “Notice to Proceed” was issued to Harkness Construction on December 10, 2024.

- ◇ Construction has been delayed due to a 4-month delay in obtaining new power panels.
- ◇ Construction is expected to start in April 2025, and be completed in 120 working days, or Fall of 2025.



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Why?

- ◇ May Valley Road travels the same path as the southern most fault of the Seattle Fault line.
- ◇ There is only one access road from May Valley to High Valley. Earthquakes in the area could “cut-off” water customers in High Valley from the rest of the system.
 - ◇ 250 homes are served by PS 4, 5 & 6
- ◇ PS 4, 5 & 6 work together to serve High Valley and have to be upgraded together



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What's Included?

1. New Buildings (PS 4 & 5)
2. New Power Services
3. New Pumps (each station has two new pumps)
4. New Flow Meter (calculates amount of water coming from a PS)
5. New Telemetry Equipment (aka SCADA; allows for remote monitoring and operation of Pump Station)
6. Flexible Connections (to allow movement during an earthquake)
7. New Meter Roof (to minimize wildfire risk)
8. New Permanent Generator
9. New Heat Pump (to heat efficiently and cool pumps on hot days)



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How Much?

◇ Total Estimated Project Cost = \$2,885,000

◇ FEMA & State Funding = \$1,245,000 (43%)

◇ District Funding = 1,640,000 (57%)

◇ **Typically:** FEMA funding = 70%, State Funding = 12.5%, District Funding = 12.5%

◇ This project has grown over time. The District added new pumps, new heat pump and a new roof to the scope of the project.

◇ Construction Inflation has been crazy. Our estimate to upgrade the power for all three pump stations was \$210,000. Actual bid was \$675,000.

◇ The District purchased the pumps, generators and telemetry separately to try to control and reduce overall project costs.