



Wishkah Rd Floodwall

Grays Harbor County

kpff

- Introduction
- Background
- Alternatives
- Additional Features
- Construction Summary
- Related Projects

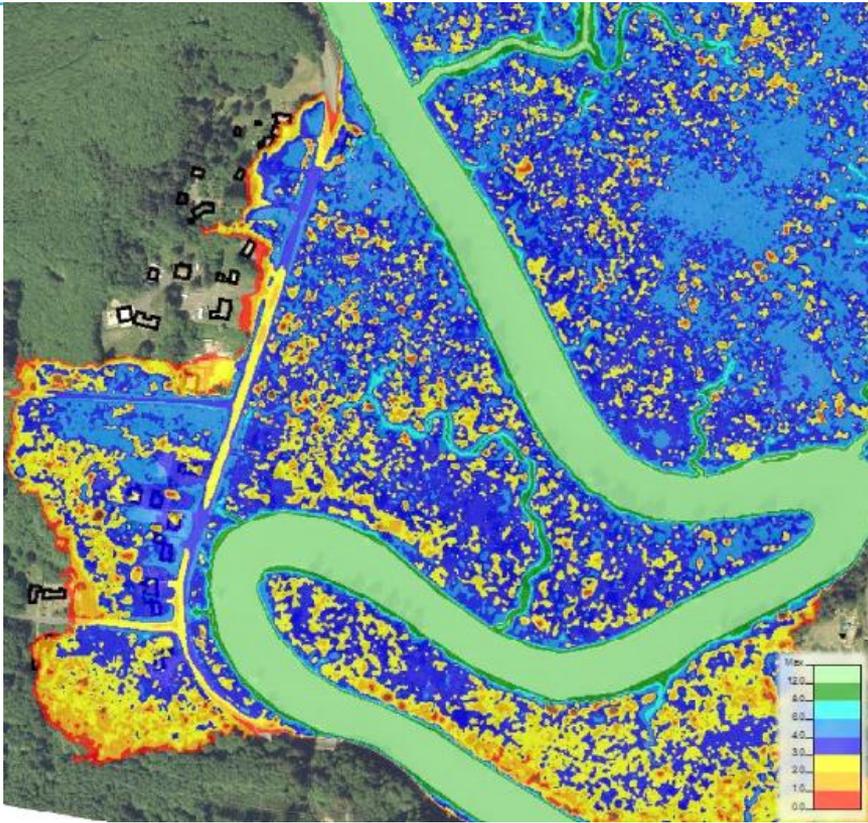


GOAL: reduce major flooding and maintain emergency vehicle access

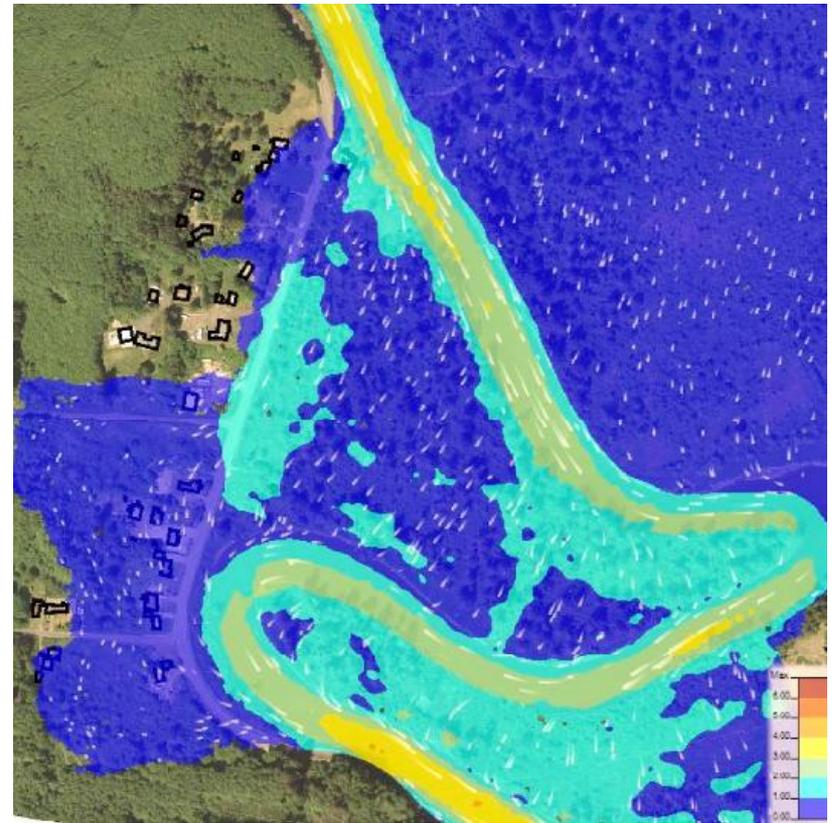


- Began 2013 by AMEC
- RFP Reissued in March 2016
- KPFF Selected in April 2016



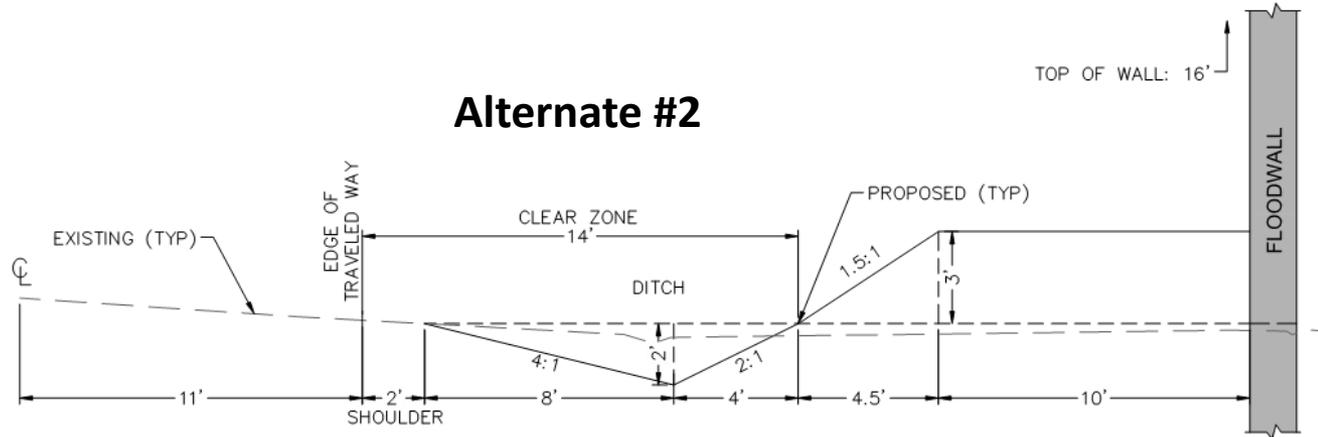


Current Flooding (Max Depth 3 to 4 feet)

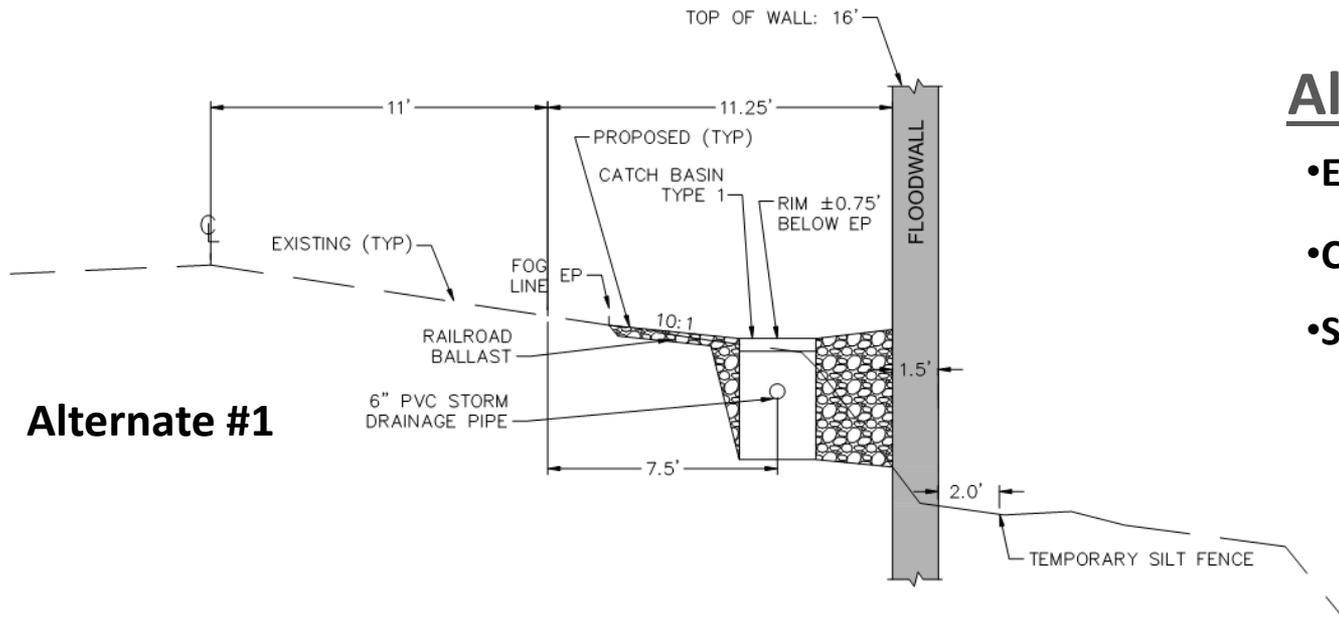


Current Flooding (Max Velocity 1 to 2 ft/sec)

Alternate #2

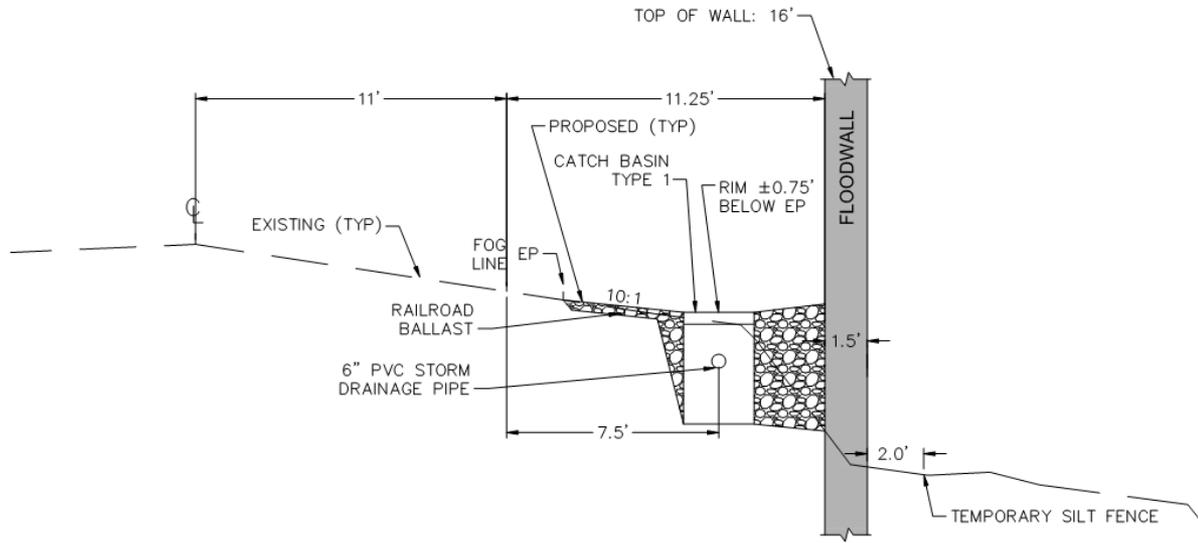


Alternate #1



Alternatives:

- Earthen Levee
- Concrete Wall
- Steel Sheet Piling



Benefits:

- Reduced Impact to Wetlands
- Simplified Permitting
- Reduced Impact to Private Property





Tide Gate & Check Valves:

- (2) 36-inch Self-Regulating Tide Gates
- (1) 24-inch Self-Regulating Tide Gate
- (11) Inline Check Valves





Property Restoration

- 27.5 acres purchased by GHC
- Mitigation Site for Wetland Impacts
- All trash & manmade debris removed
- Contaminated soil removal



Budget Summary:

- Total Funding = \$5,900,000
- Design & Construction Management = \$465,465
- Construction Contract = \$3,468,943.30

Schedule:

- Start of Construction – July 2017
- End of Construction – December 2017





FIRM Re-Mapping

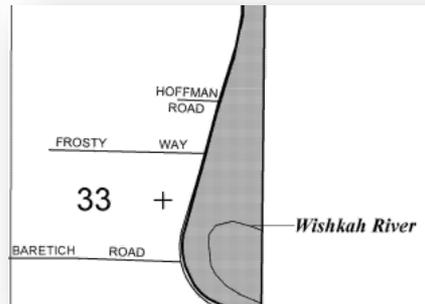
- 118 Structures mapped INCORRECTLY
- 98 Structures would be REMOVED from the floodplain
- 20 Structures would be ADDED to the floodplain
- 10 of these located behind the Wishkah Rd Floodwall

Impacts to Floodwall

- Wall height increased from to maximum of elevation 18.5'
- Required increase in sheet pile depth
- Allows for FEMA accreditation



Impacted Structures



Current FEMA FIRM Map