



Lower Satsop Restoration & Protection Program

PHASE I -- KEYS ROAD FLOOD PROTECTION PRELIMINARY DESIGN AND JARPA

April 6, 2020



Grays Harbor
Conservation
District

your window to healthy lands



Project Funding

- \$450K increase in Capital Budget
- \$450K match from OCB
- Currently determining most efficient funding flow (mechanics, timing, options, etc.).

24 **Sec. 3023.** 2019 c 413 s 3093 (uncodified) is amended to read as
25 follows:

26 **FOR THE DEPARTMENT OF ECOLOGY**

27 2019-21 Chehalis Basin Strategy (40000209)

28 The appropriation in this section is subject to the following
29 conditions and limitations:

30 (1)(a) Up to ((\$23,757,000)) \$24,007,000 of the appropriation is
31 for advancing the long-term strategy for the Chehalis basin projects
32 to reduce flood damage and restore aquatic species including project
33 level environmental review, data collection, engineering design of
34 future construction projects, feasibility analysis, and engagement of

p. 76

ESSB 6248.PL

1 state agencies, tribes, the office of Chehalis basin, and other
2 parties.

3 (b) Of the amount provided in this subsection, up to \$250,000 is
4 for contracting with an independent third party to assess the
5 financial impacts on landowners whose property could become the site
6 of a flood retention structure and temporary reservoir project,
7 including, but not limited to, timber valuation, construction of
8 alternative transportation networks, and lost timber production
9 associated with the project.

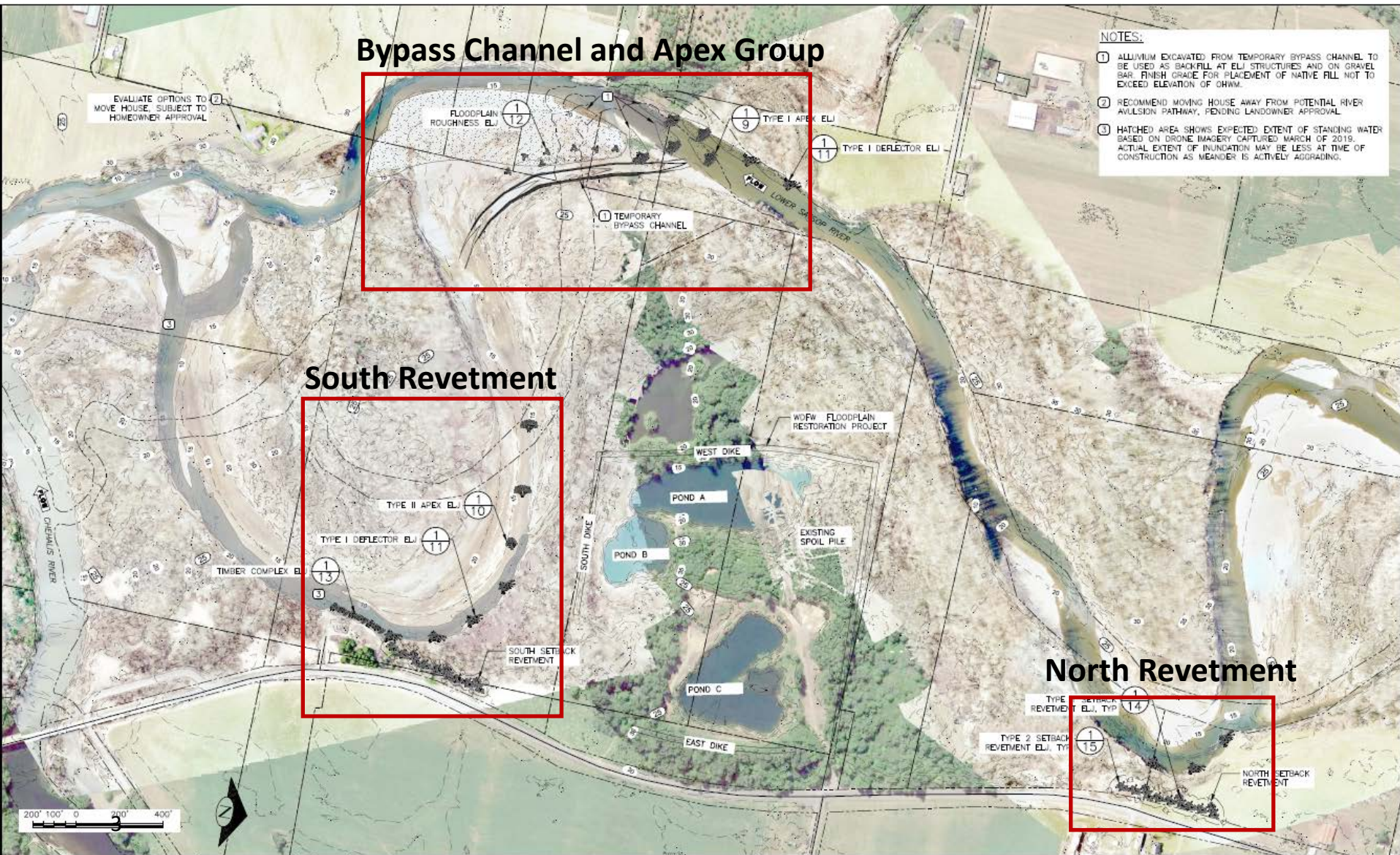
10 (2)(a) Up to ((\$49,450,000)) \$49,900,000 of the appropriation is
11 for construction of local priority flood protection and habitat
12 restoration projects.

13 (b) Of the amount provided in this subsection, up to \$450,000 is
14 for a state match for equal funding from the office of the Chehalis
15 basin for the Lower Satsop Restoration and Protection Program Keys
16 Road Protection Project.

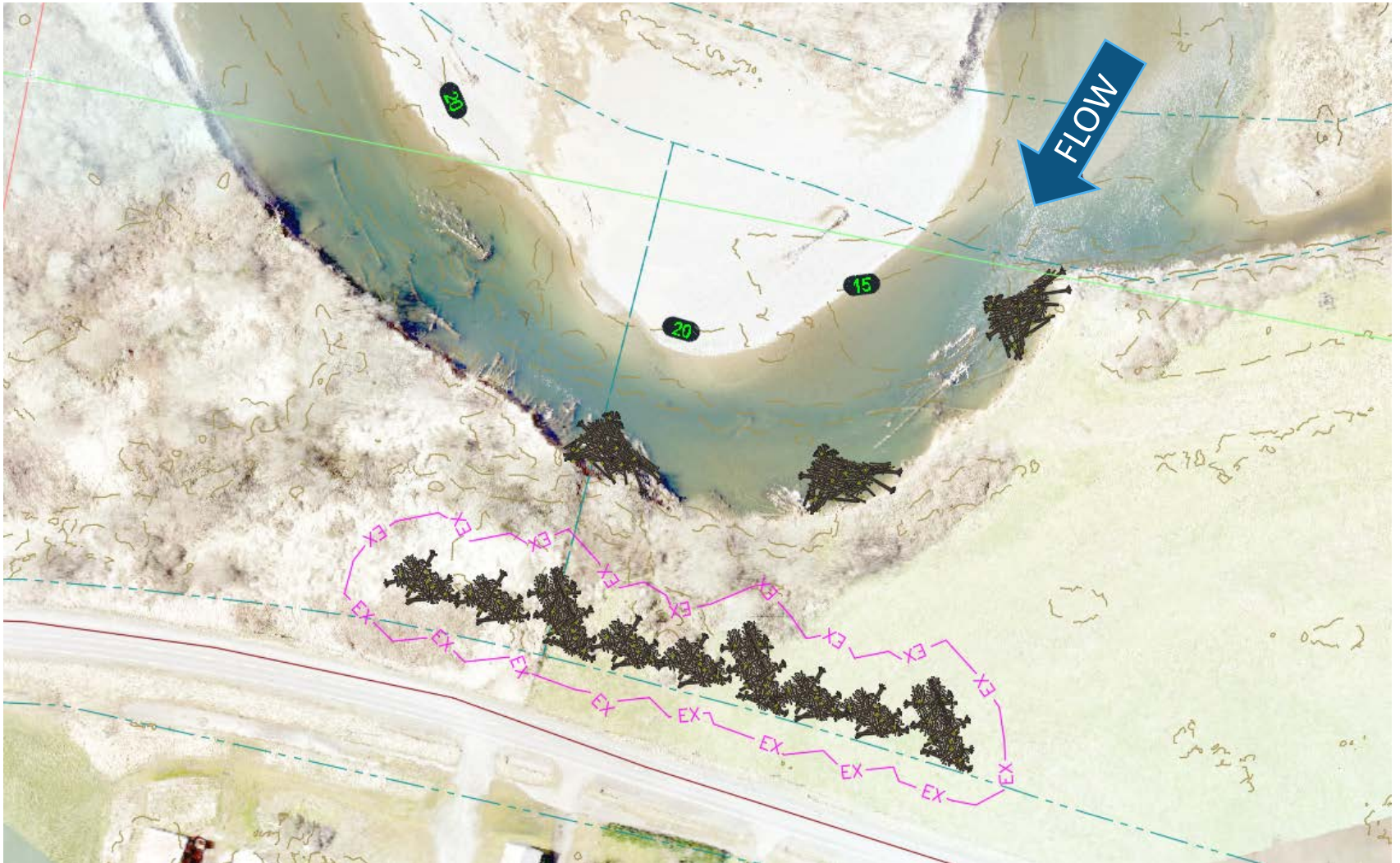
JARPA Overview – NWP 13 Bank Stabilization

- **Cultural Resources:** Not anticipated to encounter archaeological sites or expected to affect any NRHP-eligible historic properties.
- **Abbreviated BE**
 - ▶ Bull Trout, Marbled Murrelet, Streaked Horned-Lark, Yellow Billed Cuckoo: May Affect, Not Likely to Adversely Affect
 - ▶ Fisher: No effect
- **Wetlands and Critical Areas:** Temporary impacts to 0.33 acres of wetland.
- **Flood Impacts:** Local improvements in floodplain connectivity. No impacts to flood conveyance or inundation extent at reach scale.

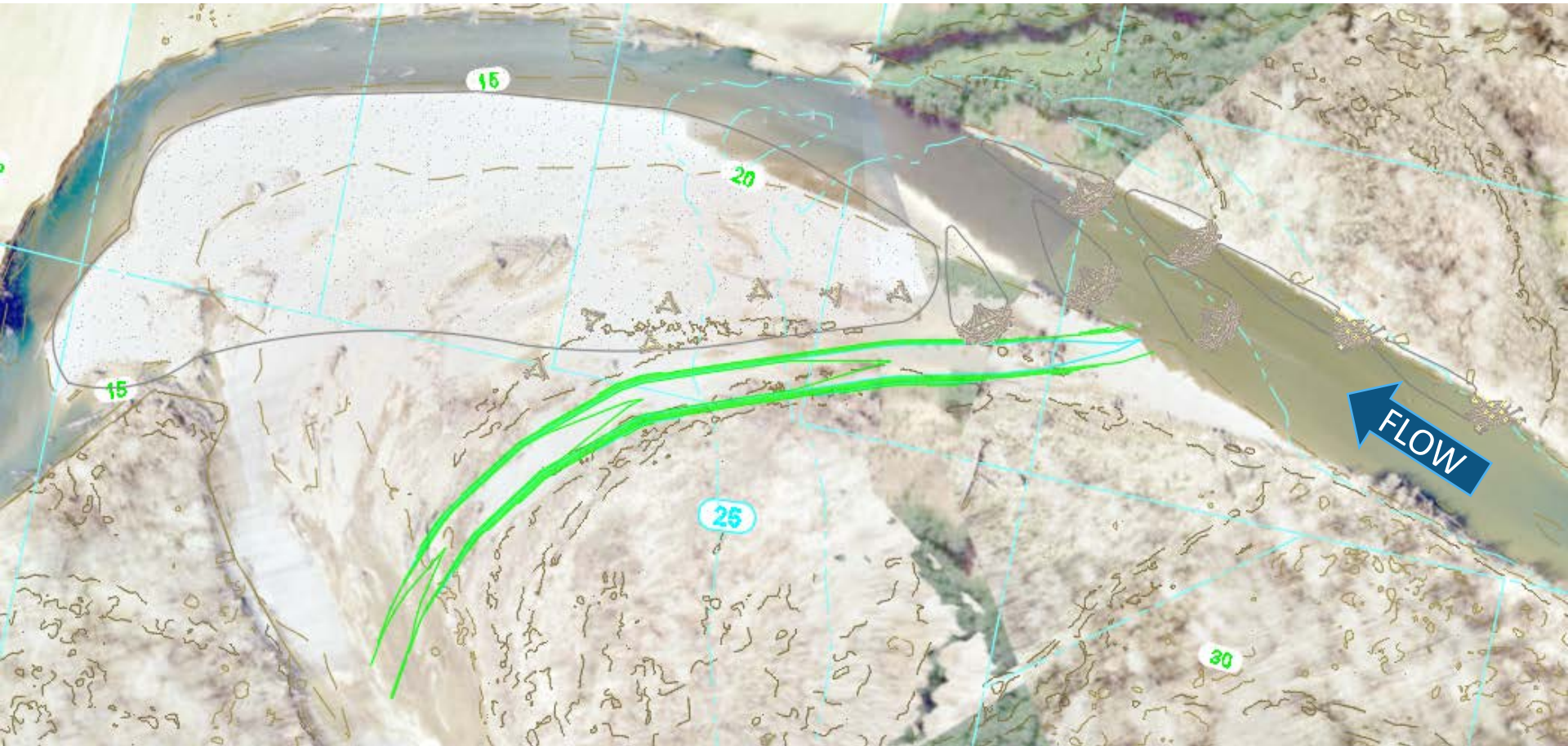
2020 Flood Protection Overview



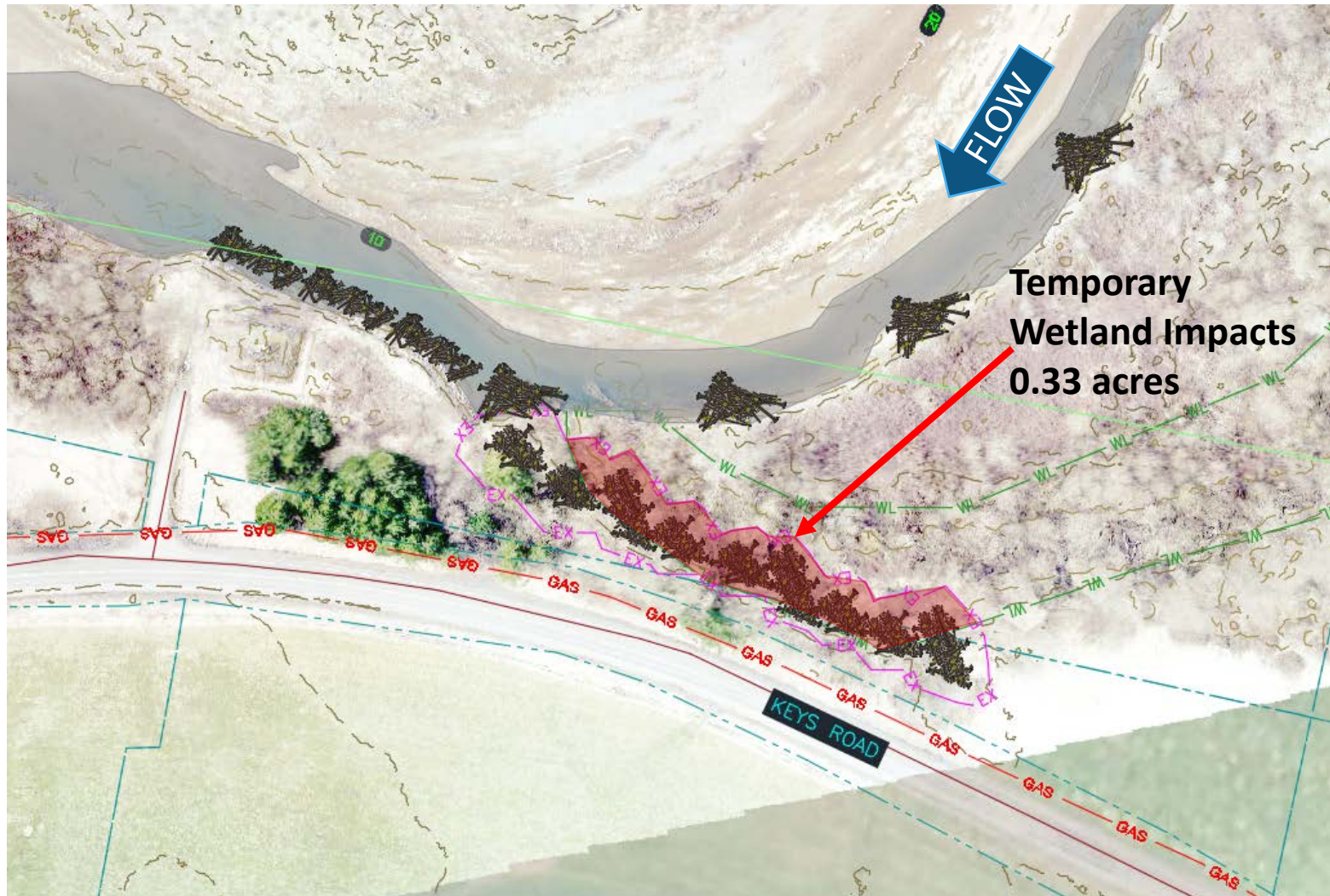
North Setback Revetment



Bypass Channel and Apex Group



South Setback Revetment



Construction Timeline

- Permitting may affect timeline
- Put out to bid by mid-May
- Construction to begin mid-July
- In-water work window August 1 -31
- Setback Revetment could be constructed outside of fish window
- Will require close coordination with WDFW as they finish Phase II of their Lower Satsop Floodplain Restoration Project.

2021 Reach Scale Design

- Have applied for \$1.8M in grant funding to support reach-scale design and construction
 - ▶ 2020 – 2021 ASRP
 - ▶ 2021 – 2022 WCRRI
- Goal is to (a) build on investment in East Fork Satsop by improving connectivity between critical habitats and (b) achieve reach-scale effect on sediment dynamics.
 - ▶ 35 in-channel structures
 - ▶ 130 acres of riparian planting
 - ▶ 10 acres of invasive species treatment
- Chehalis River Basin Flood Authority will be issuing (mid-May) a request for 2021-23 local project proposals. This could be potential funding source to understand and address erosion issues facing Monte-Elma Bridge.

2021 Reach Scale Design Concept

NOTES:

1. WORK ASSOCIATED WITH THE KEYS ROAD FLOOD PROTECTION PROJECT IS SHOWN IN GRAY. A CONCEPTUAL LAYOUT FOR THE LOWER SATSOP RESTORATION & PROTECTION PROGRAM - PHASE II, ARE SHOWN IN COLOR.
2. PLANTING AREAS SHOWN ARE ABOVE THE OHWM AND WOULD NEED TO BE ASSESSED FOR ECOLOGICAL CHARACTERISTICS SO THAT PLANT PALETTE COULD BE DEVELOPED.
3. INVASIVE SPECIES REMOVAL AREAS NEED TO BE IDENTIFIED AND MAPPED DURING A SITE RECONNAISSANCE VISIT.



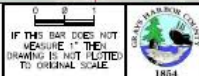
2021 Reach Scale Design Concept

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10



| NAME OR INITIALS AND DATE | DESCRIPTION |
|---------------------------|-----------------|
| DESIGNED: JLE | DATE: 4/15/2021 |
| DRAWN: JLE | DATE: 4/15/2021 |
| CHECKED: JLE | DATE: 4/15/2021 |
| APPROVED: JLE | DATE: 4/15/2021 |

LOWER SATSOP RESTORATION
AND PROTECTION, PHASE II

PRISM ID 20-1408
SHEET 2

2
SHEET 2 of 2

Mar 12, 2020

Contacts

| Organization | |
|--------------------------------------|--|
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| Grays Harbor Conservation District | <p>Anthony Waldrop 360/249-8532 ghcdwater@gmail.com</p> |
| WA Department of Fish and Wildlife | <p>Michelle Cramer 360/902-2610 Michelle.Cramer@dfw.wa.gov</p> |
| Natural Systems Design | <p>Miranda Smith 206/480-1127 miranda@naturaldes.com</p> <p>Matt Tiedemann matt@naturaldes.com 206/462-1245</p> |
| Chehalis River Basin Flood Authority | <p>Scott Boettcher 360/480-6600 scottb@sbgh-partners.com</p> |

Lower Satsop Restoration & Protection Program



(Keys Road Flooding, 1-07-2020, Port of Grays Harbor Photo)

-- PHASE I --

2020 Legislative Funding Request → **FUNDED!** See [here](#) (pg. 77).

- Rep. Brian Blake & Rep. Jim Walsh (submitted 11-12-2019) → Click [here](#).
- Sen. Dean Takko & Sen. Van De Wege (submitted 12-26-2019) → Click [here](#).
- Letter of Support:
 - Washington State Dairy Federation (submitted 2-04-2020) → Click [here](#).
 - Grays Harbor Voluntary Stewardship Program (submitted 2-14-2020) → Click [here](#).
 - Grays Harbor/Pacific County Farm Bureau (submitted 2-20-2020) → Click [here](#).

NEW! JARPA Submittal (Phase I) (submitted 3-27-2020) → Click [here](#).

Question/Discussion