

**USACE Portland District (NWP) FFDRWG Update Form**  
**June 1, 2016**

## **PROJECT INFORMATION**

Project Title	Lamprey Minor Fishway Modifications
SCT Reference Number	
Project Manager (PM)	Mike Turaski (NWP, 503-808-4704)
Technical Lead (TL) Minor Modifications	Sarah Knowles (NWP, 503-808-4980)
Biologist/Coordination	Ricardo Walker (NWP, 503-808-4709)

## **PROJECT DESCRIPTION**

The scope of this project includes relatively small-scale modifications to adult fish ladders to improve lamprey passage conditions at Bonneville, The Dalles, and John Day Dams. Examples of such modifications include floor diffuser plating, rounding corners, and modifications to entrance weir crests. This is a multi-year, phased project. Generally, the PDT will focus on modifying a single ladder per year:

- Bonneville (BON) WA Shore Ladder: Lower ladder diffuser plating and entrance weir improvements to include lamprey orifices (includes closure device, and video monitoring mounts), rest boxes, and entrance weir improvements (completed; IWW 16/17).
- **BON Bradford Island Ladder: Orifice ramps through weirs 54-67 as needed and lamprey orifices through serpentine weirs (out for solicitation June 2017; Install IWW 17/18). Wetted wall installation.**
- The Dalles (TDA) East Ladder: Entrance weir improvements (IWW 17/18).
- TDA North Ladder: Lower ladder diffuser plating/ramping and entrance weir improvements (design late FY17; install IWW 18/19).

## **SCHEDULE, PROGRESS, AND KEY ISSUES (List)**

1. The Washington shore minor modifications completed IWW 16/17.
2. Proposed Bradford Island minor modifications:
  - Lamprey orifices, orifice ramps, rest boxes, wetted wall and video mounting infrastructure.
  - Out for solicitation June 2017 with a tentative award of August 2017 and install winter maintenance period 17/18.

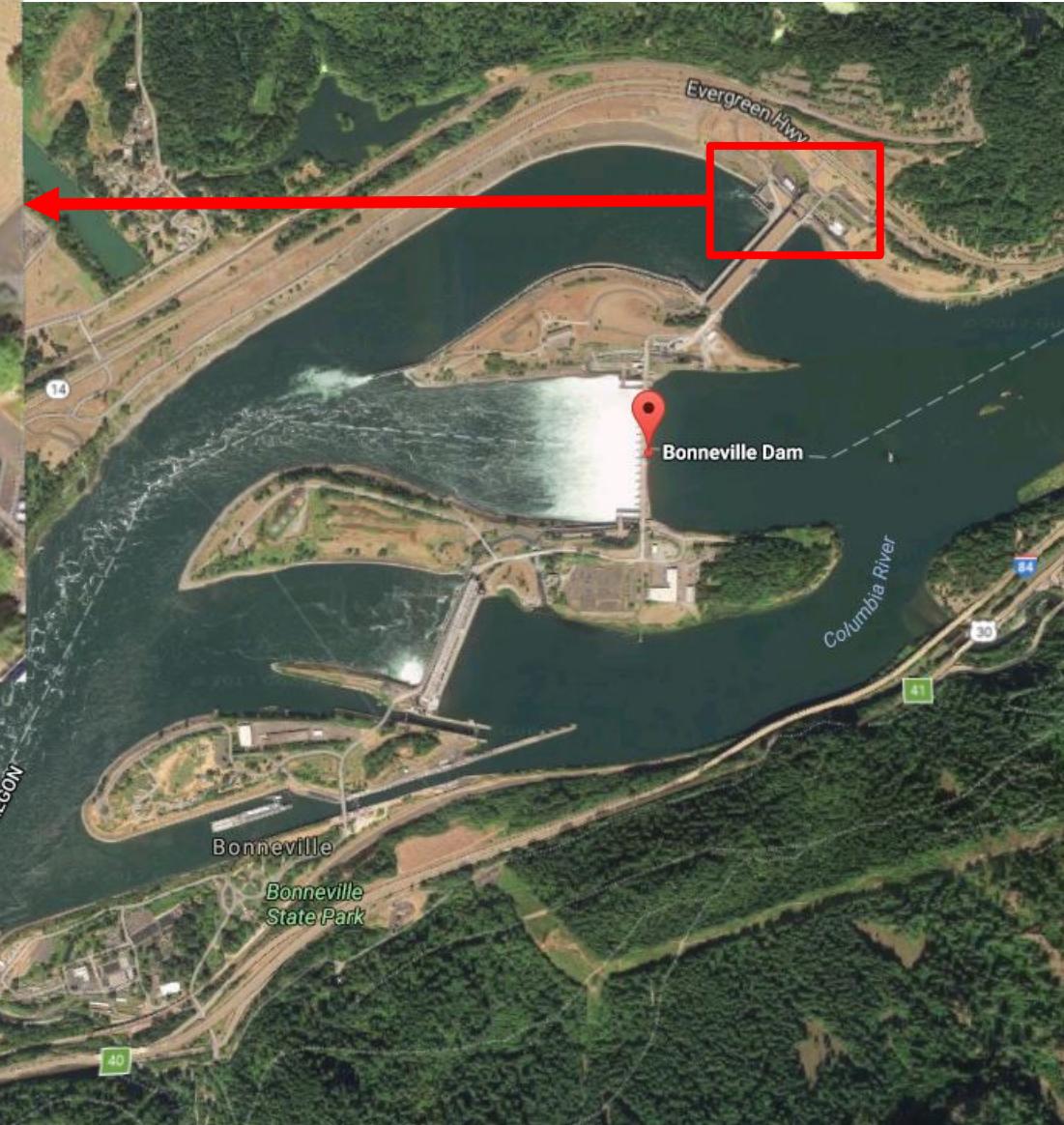
3. Weir cap modification plan.

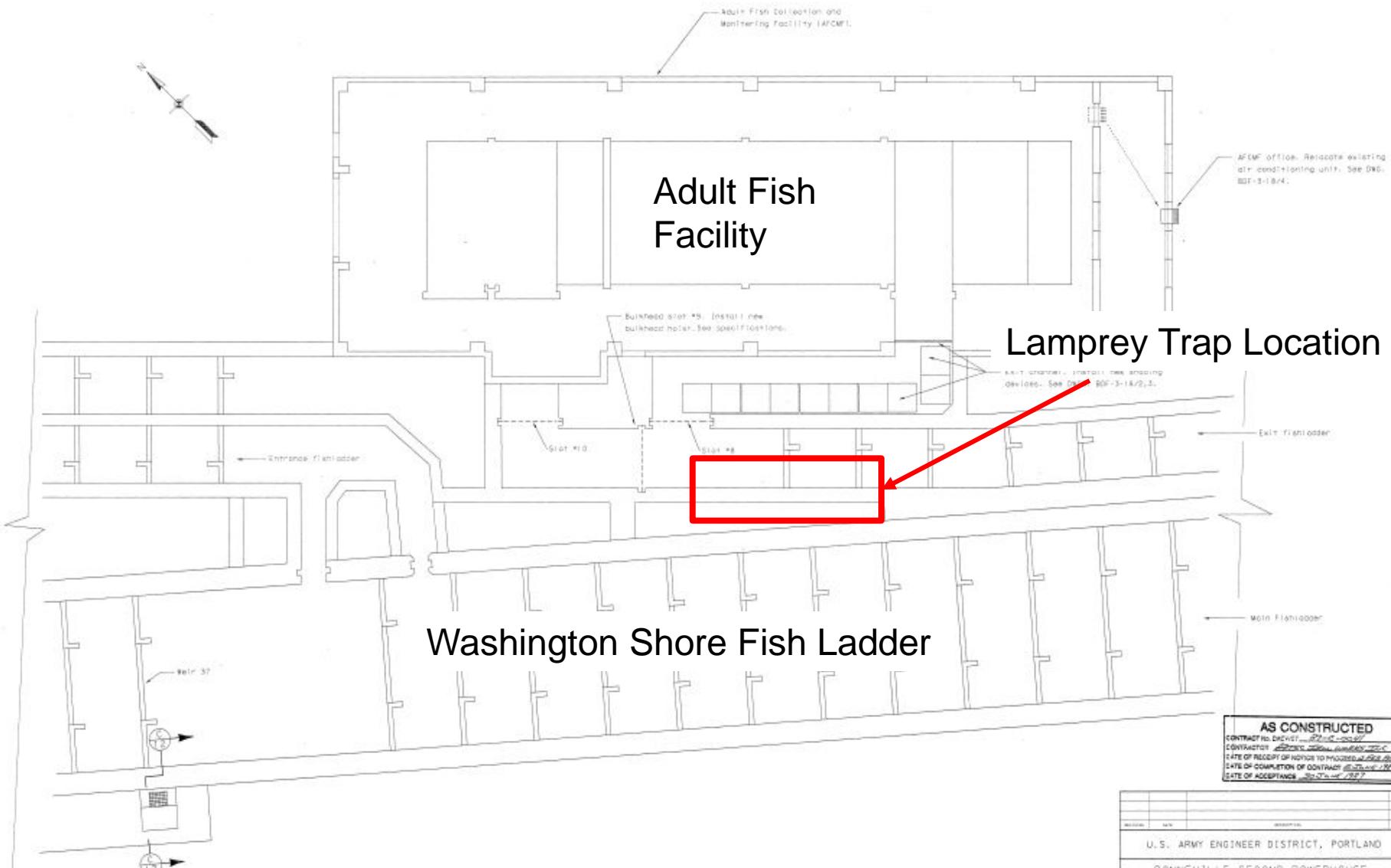
Weir Caps	Design	Fabrication	Current Schedule for Installation	Earliest Possible Installation
BON WA Shore	Complete	Complete	2018-19 (FY19)	2018-19 (FY19)
TDA East, west and south entrances (5 weirs)	TBD based on FY17 fund availability. Fabricate in FY17 would enable FY18 install.		2018-19 (FY19, post CRFM)	2017-18 (FY18)
TDA East, east entrance (3 weirs)			2018-19 (FY19, post CRFM)	2018-19 (FY19, post CRFM) Conflict w AWS work in FY18
TDA North (1 weir)			2018-19 (FY19, post CRFM)	2017-18 (FY18)

4. Upper AFF lamprey trap design

**FFDRWG REVIEW NEEDED AT MEETING? (If YES, list discussion topics below)**

Yes, preliminary lamprey trap design and location.





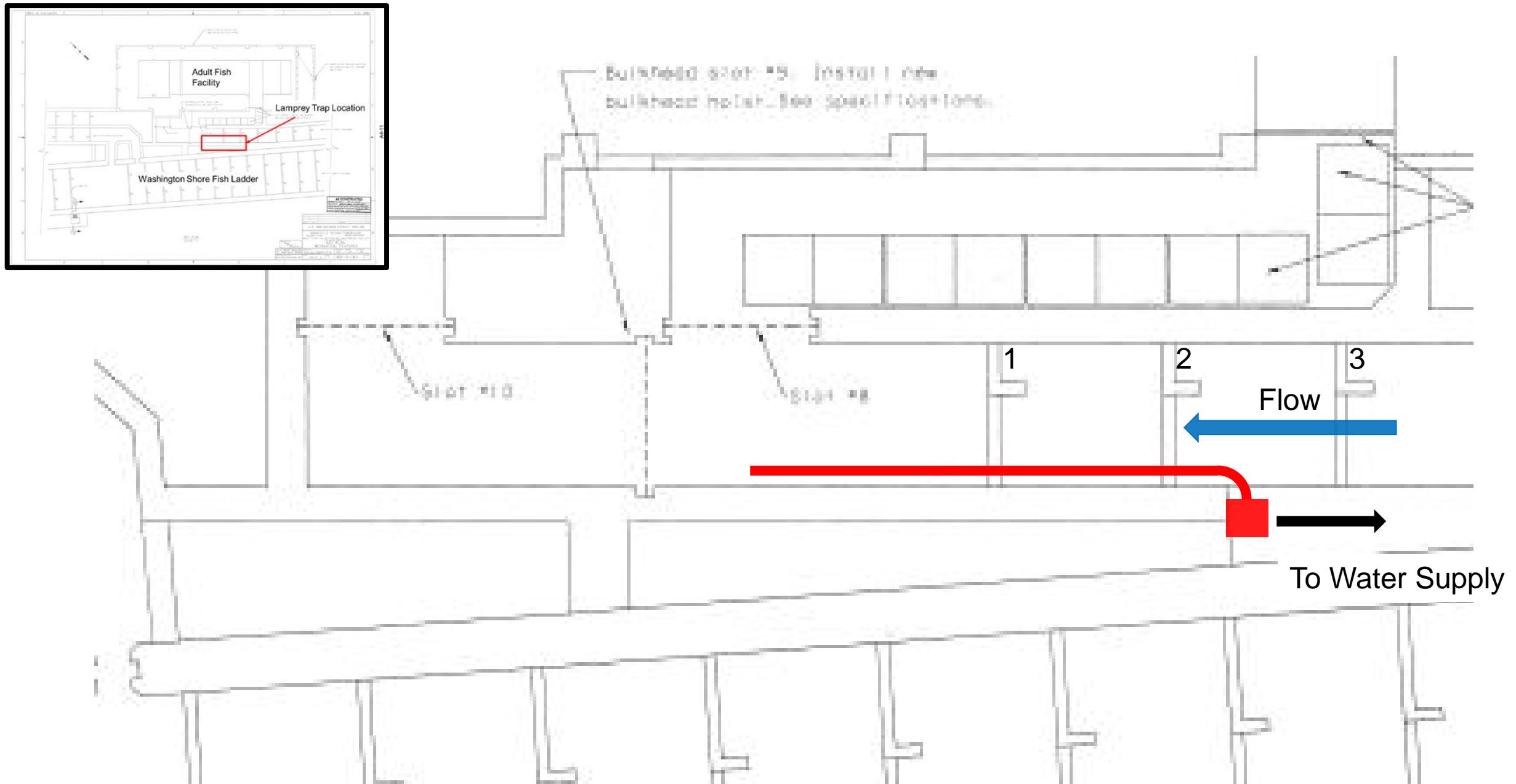
A4-11

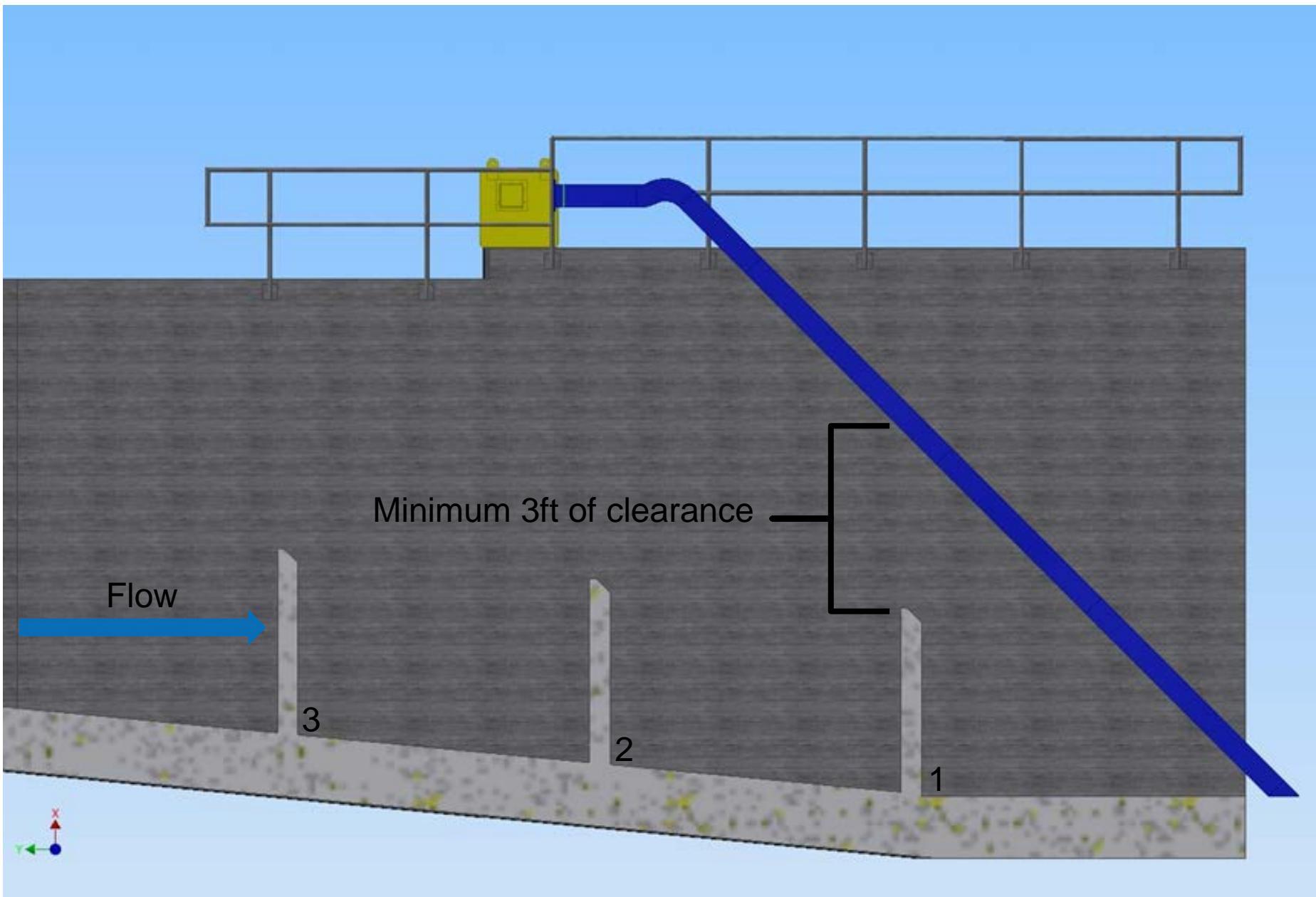
AS CONSTRUCTED  
CONTRACT NO. DME-107-0001  
CONTRACTOR *John C. Deere Co.*  
DATE OF RECEIPT OF NOTICE TO PROCEED 01-07-1987  
DATE OF COMPLETION OF CONTRACT 01-07-1987  
DATE OF ACCEPTANCE 01-07-1987

U.S. ARMY ENGINEER DISTRICT, PORTLAND  
BONNEVILLE SECOND POWERHOUSE  
COLUMBIA RIVER  
OREGON-WASHINGTON

ADULT FISH COLLECTION AND MONITORING FACILITY  
FOLLOW-ON PHASE III  
KEY PLAN  
MECHANICAL FEATURES

THIS PRINT REDUCED  
TO ONE-HALF SCALE  
Scales: 1/8" = 1'-0"  
Prepared by: NEAL W. HANSON, P.E.  
Reviewed by: *WILLIAM J. KELLY*  
Date: 1986 Oct. 8  
Drawing No.: BDF-3-18/1  
Plate:





- 18 inch fixed ramp
- Increase in average velocity from 0.8 ft/s to 1.0 ft/s (channel ladder velocity criteria 1.5 – 4 ft/s)

Missing from drawing

- Water supply pipe / hose (source AFF truck fill)
- Potential diffuser in floor of rest box
- Knee brace supports for the flume
- Flume to include a "jog" to avoid interference with the handrails