

# IAO STREAM FLOOD CONTROL PROJECT REPAIRS *WAILUKU, MAUI, HAWAII*

## PUBLIC INFORMATION MEETING (3 OF 3)

Jessie Paahana, Environmental Coordinator  
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Honolulu District

26 August 2021



US Army Corps  
of Engineers®





# MEETING INFO

Purpose: Share known details of the proposed structural repairs at two locations within the Iao Stream Flood Control Project channel

## Agenda:

- 1) Housekeeping/Introductions (5 min)
- 2) Review Documents Overview (15 min)
- 3) Proposed Action (15 min)
- 4) Project Schedule (5 min)
- 5) Open for comment (15 min)
- 6) Close (5 min)





# HOUSEKEEPING

- **WebEx features**

- Mute/Double Mute
- Chat
- Raise Hand

- **Ways to comment:**

- Orally
- WebEx Chat
- Email to  
CEPOH-PLANNING@usace.army.mil

- **COMMENT PERIOD ENDS 9/13**

The screenshot shows a web browser displaying the Honolulu District Public Notices page. The URL is <https://www.poh.usace.army.mil/Media/Public-Notices/>. The page features a navigation bar with links to About, Business With Us, Missions, Locations, Careers, Media, Library, Contact, and Coronavirus. The main content area is titled "Public Notices Manager" and includes a pagination control showing 1 to 20 pages. The current page (12) displays a public notice dated August 12, 2021, titled "Public Notice of Availability of Draft Engineering Documentation Report and Draft Environmental Assessment for Review: Iao Stream FCP". The notice includes an expiration date of 9/13/2021 and a detailed description of the draft Environmental Assessment (EA) and Engineering Documentation Report (EDR) for the Iao Stream FCP project. Below the notice, there are buttons for "Draft EDR (Aug 2021)", "Draft EA (Aug 2021)", and "Iao Stream FCP Site". A "Public Notice Archive" section on the left lists years from 2010 to 2006.

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1 2 3 4 5 6 7 8 9 10 ... 20

12  
AUG 2021

**Public Notice of Availability of Draft Engineering Documentation Report and Draft Environmental Assessment for Review: Iao Stream FCP**

**Expiration date: 9/13/2021**

Interested parties are hereby notified that the Honolulu District, U.S. Army Corps of Engineers (Corps) has prepared a draft Environmental Assessment (EA) to assess the significance of the potential impacts of the proposed action on the quality of the human environment in accordance with the Council on Environmental Quality's National Environmental Policy Act Implementing Regulations at 40 CFR Parts 1500 to 1508, as amended. In addition, the Corps has prepared a draft Engineering Documentation Report (EDR) Amendment to evaluate and recommend repairs required to address a design deficiency at an existing federal project.

[Draft EDR \(Aug 2021\)](#) [Draft EA \(Aug 2021\)](#)

[Iao Stream FCP Site](#)

[Public Notice of Availability of Draft Engineering Documentation Report and Draft Environmental Assessment for Review](#)

Public Notices

- 2021 (4)
- 2020 (2)
- 2019 (4)
- 2018 (15)
- 2017 (7)
- 2016 (8)
- 2015 (5)
- 2014 (13)
- 2013 (13)
- 2012 (13)
- 2011 (14)

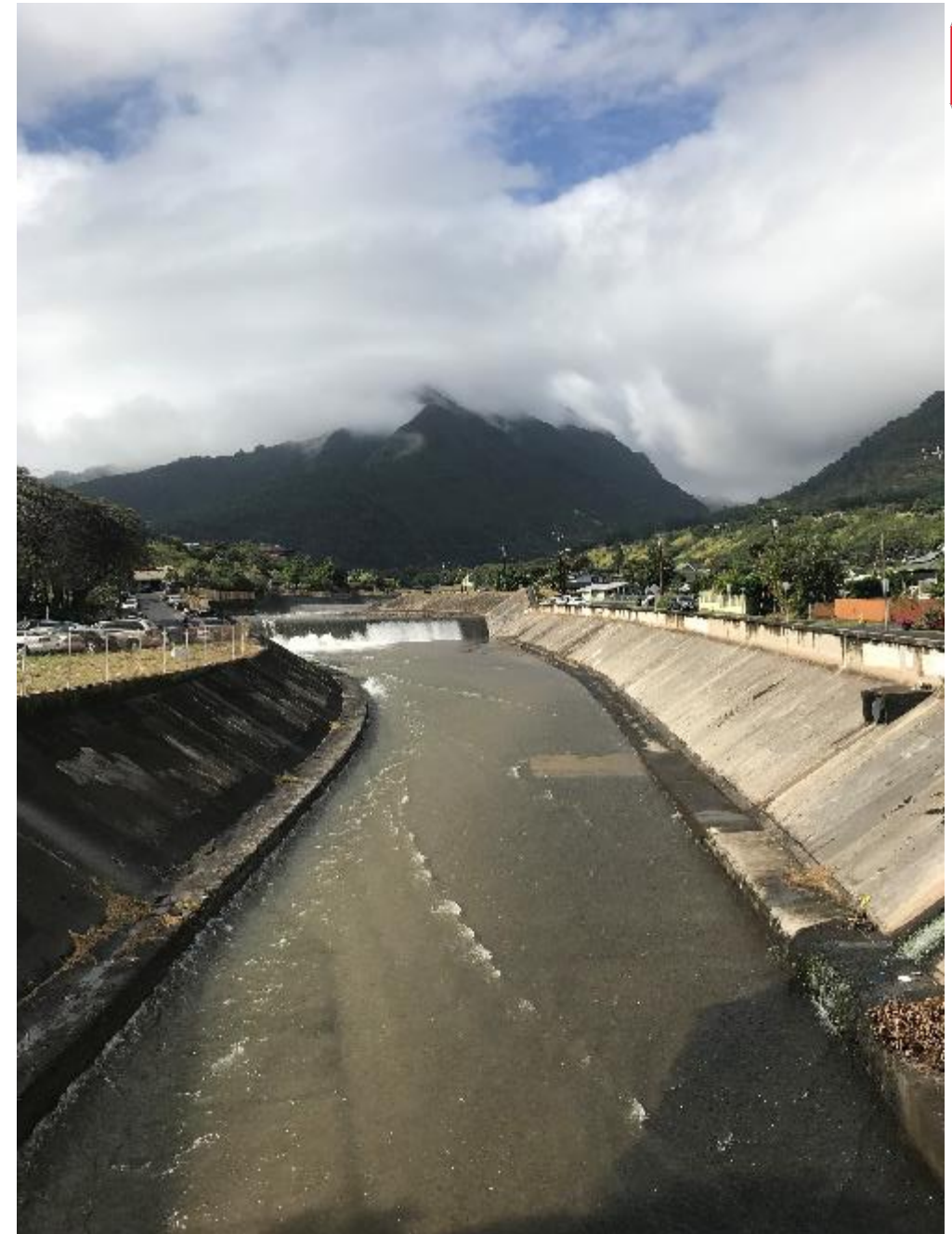
Public Notice Archive

2010  
2009  
2008  
2007  
2006



# INTRODUCTIONS

- Nani Shimabuku, Project Manager,  
Civil Works Branch, Honolulu District  
([Lorayne.p.Shimabuku@usace.army.mil](mailto:Lorayne.p.Shimabuku@usace.army.mil))
- Jessica Brunty, Lead Engineer,  
Civil Works Technical Branch,  
Honolulu District  
([Jessica.r.wiggs@usace.army.mil](mailto:Jessica.r.wiggs@usace.army.mil))
- Jessie Paahana,  
Environmental Coordinator,  
Civil Works Branch, Honolulu District  
([Jessie.k.Paahana@usace.army.mil](mailto:Jessie.k.Paahana@usace.army.mil))





# REVIEW DOCUMENTS



## 1. ENGINEER DESIGN REPORT (EDR) *AMENDMENT*

- Engineering Document
- 2017 EDR
- →Updated modelling→Updated repairs
- Purpose: document Corps' engineering analysis, preliminary concept design, updated cost estimates, economic and safety analysis for proposed repairs to address design deficiency

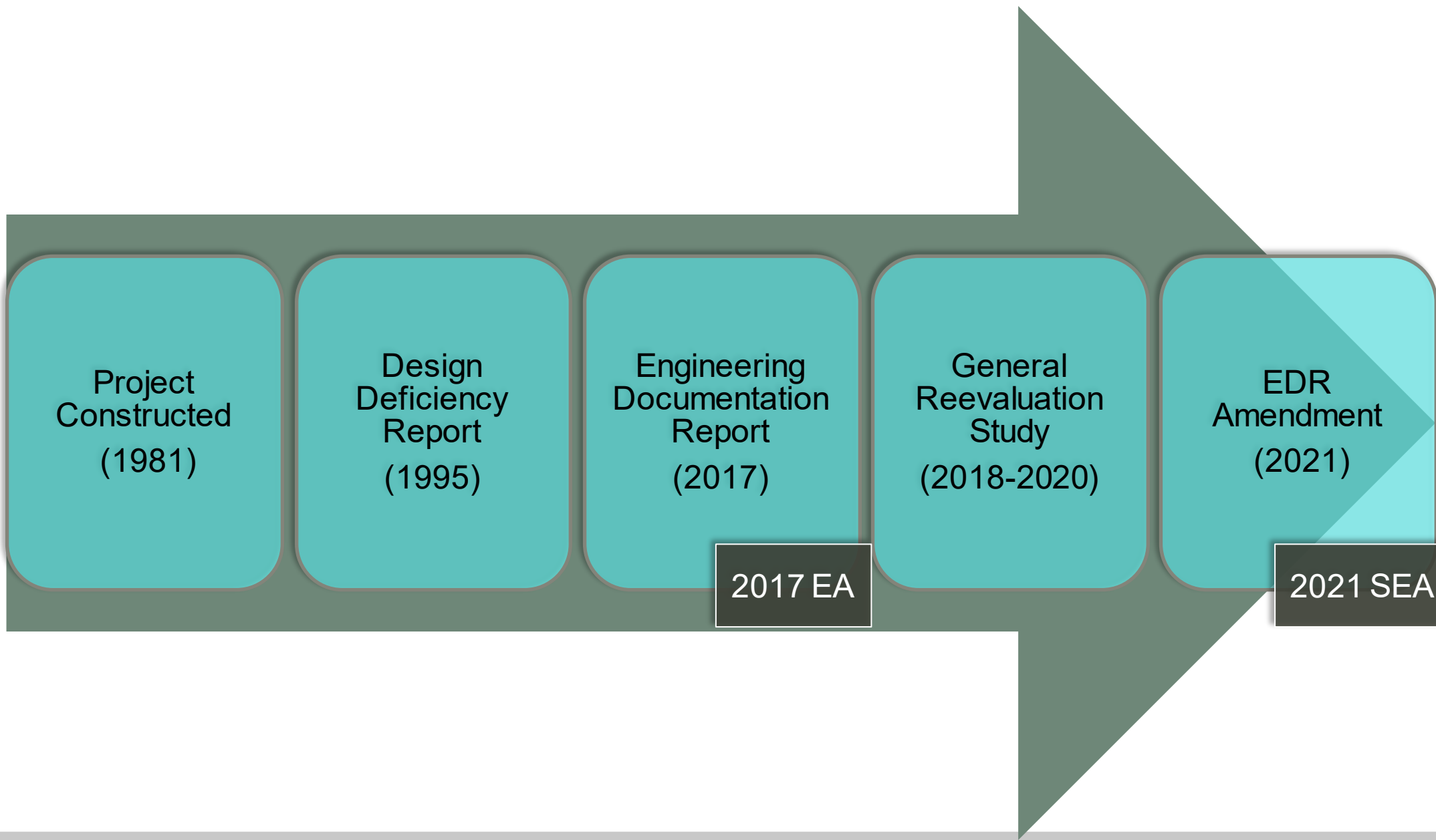
## 2. *SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT*

- Environmental NEPA Document
- 2017 EA + FONSI
- →Updated repairs→Updated analysis
- Purpose: document Corps' consideration of environmental effects of proposed repairs to address design deficiency

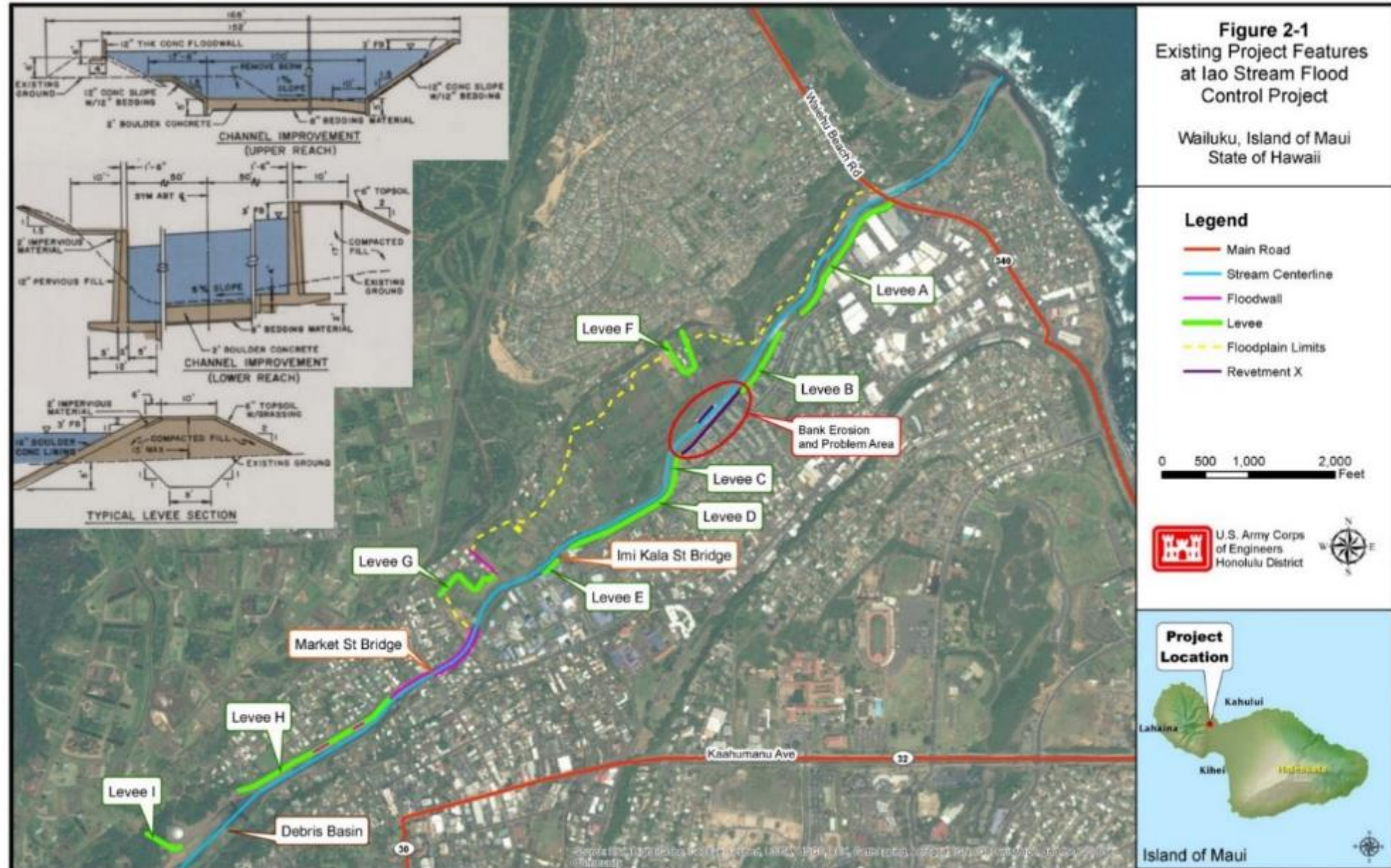
► BOTH require public review  
Review Comment Period Closes **9/13/2021**



# ENGINEERING HISTORY



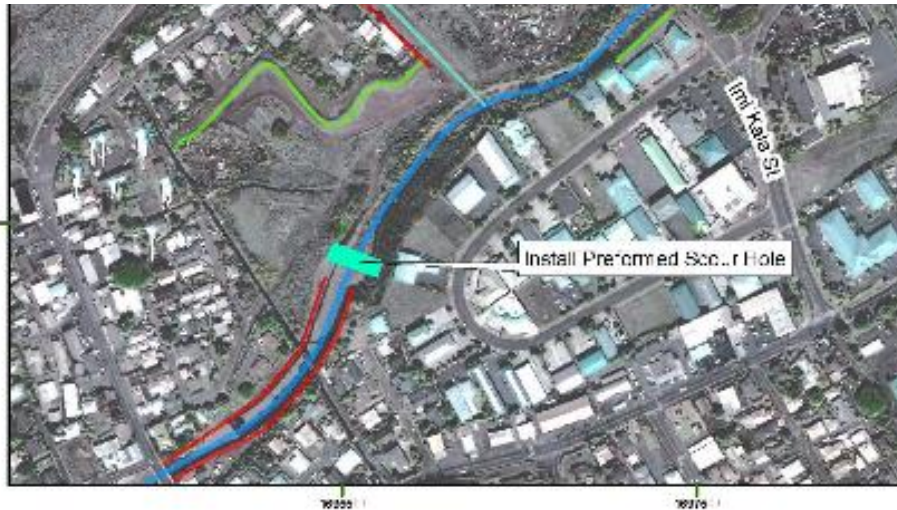
# IAO STREAM FCP





# ALTERNATIVES

- No Action Alternative
- Alternative 2: Remove Revetment X
- Alternative 6: Install Pre-Formed Scour Hole
- Alternative 11: Non-Structural Plan (Flood Warning System)
- **Alternative 12\*: Combination Plan (Alternatives 2 + 6 + 11)**



Revetment X



Install Pre-Formed Scour Hole





# ALTERNATIVE 2: REMOVE REVETMENT X

9



Photo taken upstream of Revetment X, facing Downstream



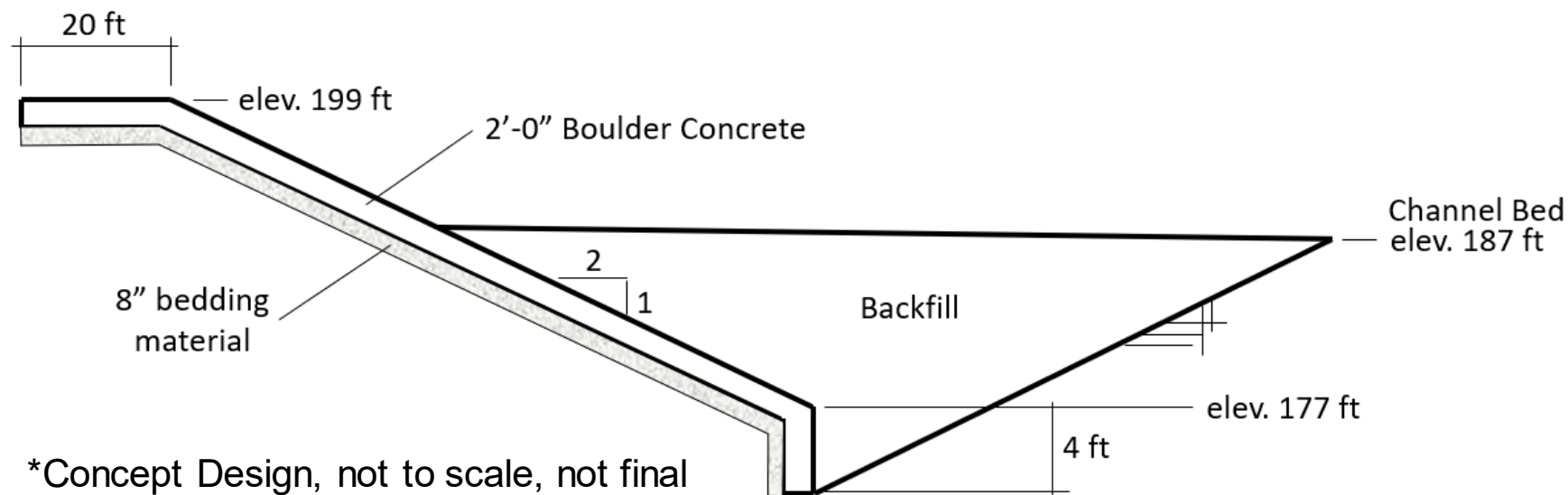
Photo taken from Right Bank, facing Left Bank and Upstream

# ALTERNATIVE 2: REMOVE REVETMENT X





# ALTERNATIVE 6: PRE-FORMED SCOUR HOLE





# ALTERNATIVE 11: FLOOD WARNING SYSTEM



- Non-Structural Plan
- Will coordinate w/County of Maui Department of Emergency Management to establish a central and/or field office w/necessary software and equipment
- Purpose: to provide notice to Wailuku community of impending flood



# ALTERNATIVE 12: COMBINATION PLAN



- *PREFERRED ALTERNATIVE*
- Combines Alternative 2 + 6 +11
- Geographically, Hydraulically Distinct
- Single contract



# ENVIRONMENTAL COMPLIANCE



- NEPA: Supplemental Environmental Assessment, Anticipated FONSI
  - Minimal work within existing footprint, minor modification, restores function
- Opportunities to comment:
  - Preparation of Draft EA (closed)
  - Draft EA (**open til 9/13**)
  - CZM Public Notice (**open til 9/7**)
  - Notice of Availability Final EA/FONSI (notification only, no comment)



# ENVIRONMENTAL COMPLIANCE



- Section 106, NHPA: *No Historic Properties Affected*
  - Consulting parties: SHPD, County of Maui, Office of Hawaiian Affairs, Aha Moku Council, Maui Hawaiian Civic Club, Hui o Na Wai Eha
  - Consultation letters signed 8/26, mailing 8/27
- Section 7, ESA w/USFWS: *No Effect*
- CZMA Federal Consistency Determination: *Consistent w/State CZM Policies & Objectives*
  - Initiated 7/27; Ongoing, seeking concurrence
- Section 401 CWA Letter of Confirmation: *Coordinating w/DOH to obtain 401 WQC in Design Phase*



# NEPA SCHEDULE



Task	Timeline
Draft SEA/EDRA Public Review (32 days)	8/12/21 – 9/13/21
Final EDRA and SEA/FONSI (anticipated)	9/30/21

*Next Step: If approved for construction, then design and construction phase*

# QUESTIONS? COMMENTS?





## COMMENT PERIOD CLOSSES SEPT 13<sup>TH</sup>!

- Comment today
- Comment by email to [CEPOH-Planning@usace.army.mil](mailto:CEPOH-Planning@usace.army.mil)