

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

PUBLIC INFORMATION MEETING (3 OF 3)

Jessie Paahana, Environmental Coordinator
Jessica Brunty, Lead Engineer
Civil & Public Works Branch
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**

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12 AUG 2021

Public Notice of Availability of Draft Engineering Documentation Report and Draft Environmental Assessment for Review: lao 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 \(Aug 2021\)](#)
[lao Stream FCP Site](#)
[Public Notice of Availability of Draft Engineering Documentation Report and Draft Environmental Assessment for Review](#)

Public Notice Archive

2010
2009
2008
2007
2006



INTRODUCTIONS

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

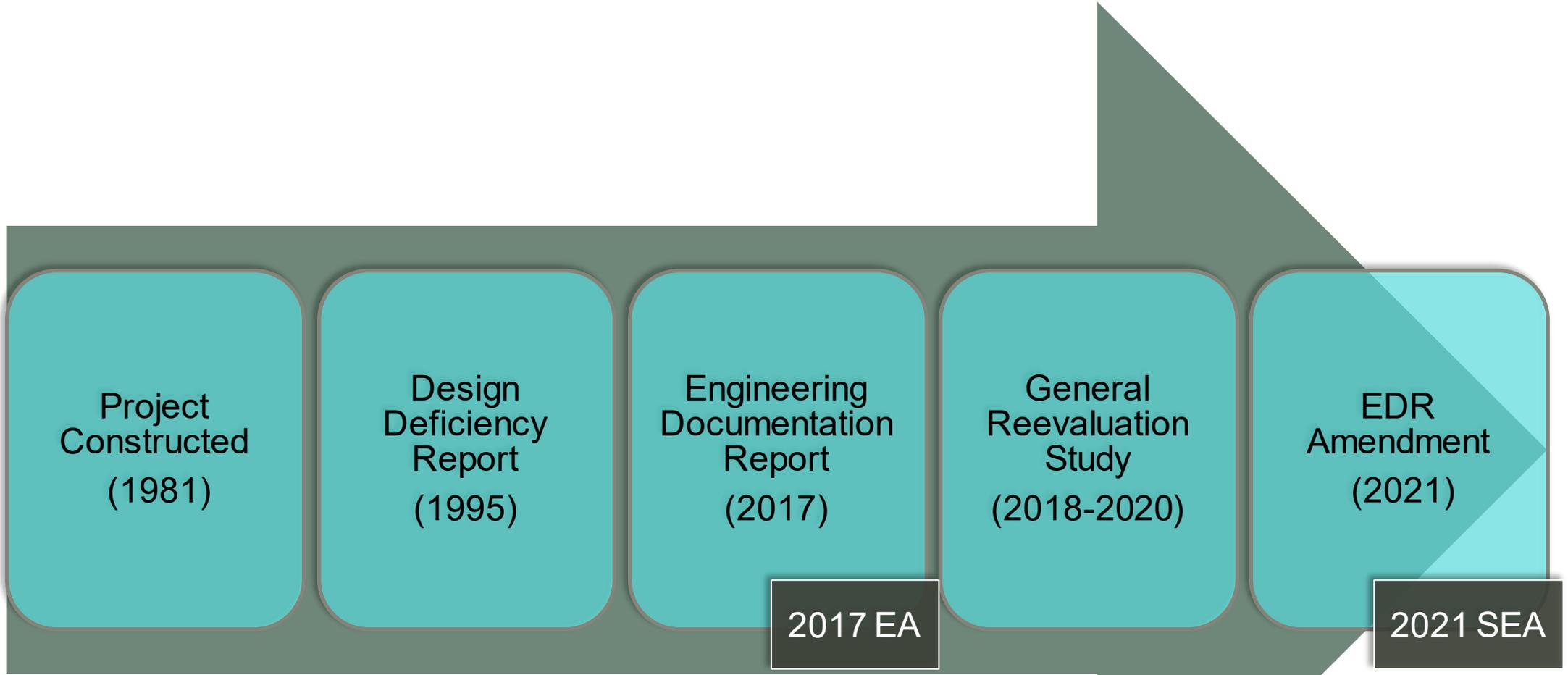
2. *SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT*

- 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



Project
Constructed
(1981)

Design
Deficiency
Report
(1995)

Engineering
Documentation
Report
(2017)

General
Reevaluation
Study
(2018-2020)

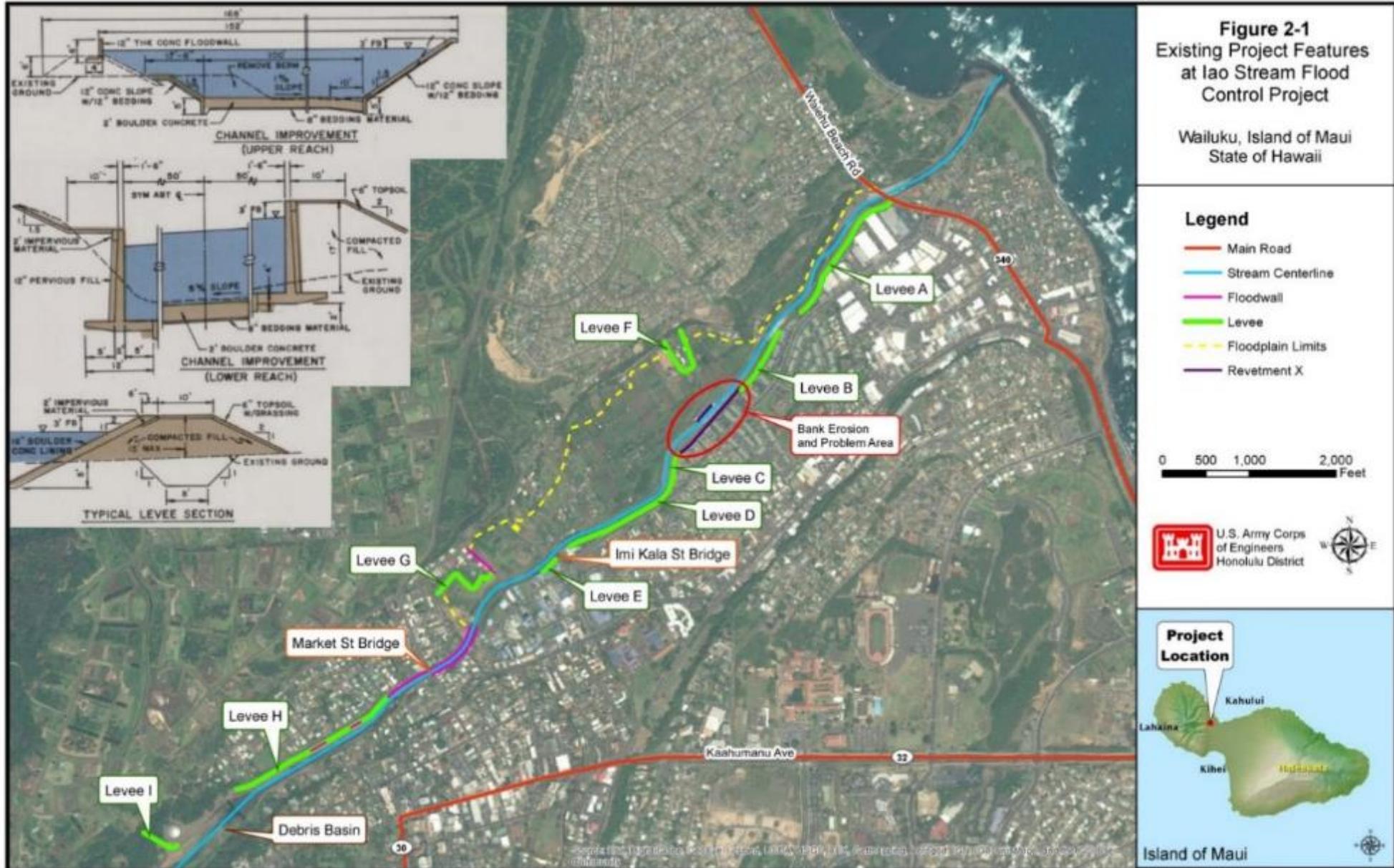
EDR
Amendment
(2021)

2017 EA

2021 SEA



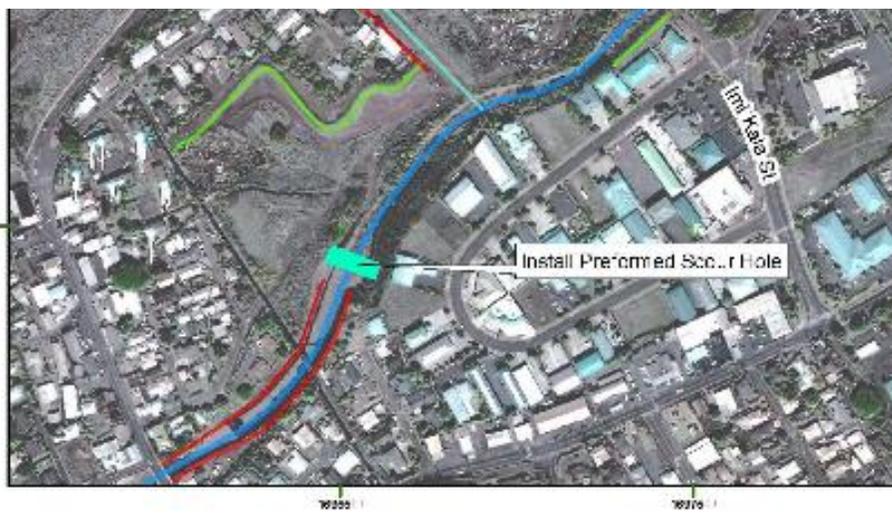
IAO STREAM FCP





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)**





ALTERNATIVE 2: REMOVE REVETMENT X



Photo taken upstream of Revetment X, facing Downstream



Photo taken from Right Bank, facing Left Bank and Upstream

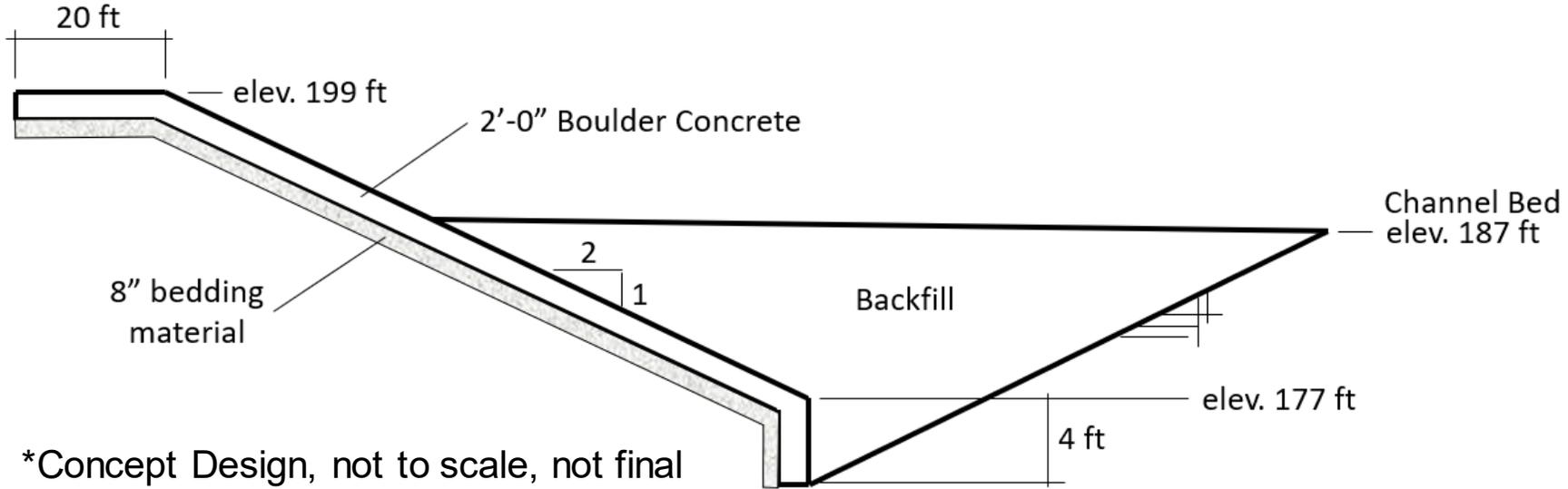


ALTERNATIVE 2: REMOVE REVETMENT X





ALTERNATIVE 6: PRE-FORMED SCOUR HOLE



*Concept Design, not to scale, not final





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 13TH!

- Comment today
- Comment by email to CEPOH-Planning@usace.army.mil