

Attachments

***Attachment A - Project Site Maps, Construction Plans/Drawings, Flow Chart, and SWPPP
(Sections C.8, C.9, & C.11)***

PROJECT SITE MAPS, CONSTRUCTION PLANS/DRAWINGS, FLOW CHART, AND SWPPP

Contents

Attachment A – 1: Project Site Maps

Attachment A – 2: Construction Plans/Drawings

Attachment A – 3: Quantity of Storm Water Discharge Calculations

Attachment A – 4: Storm Water Flow Chart

***Attachment A – 5: Storm Water Pollution Prevention Plan (SWPPP) and In-Water Pollution
Prevention Plan (IWPPP)***

Attachment A – 1: Project Site Maps

Figure 1, Project Location

Figure 2, Boundary Map

Figure 3. Soil Classifications

Figure 4. Discharge Locations

Figure 5. Flood Zones

Figure 1, Project Location

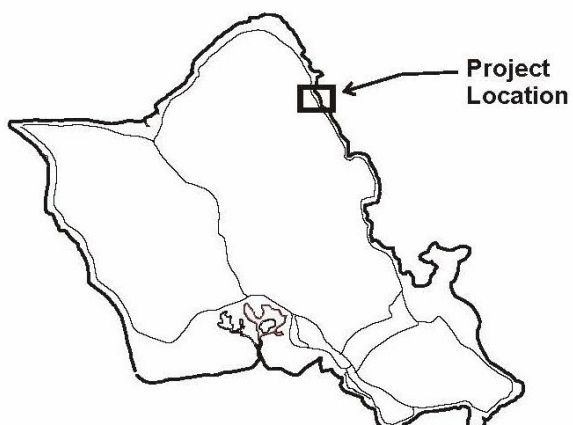
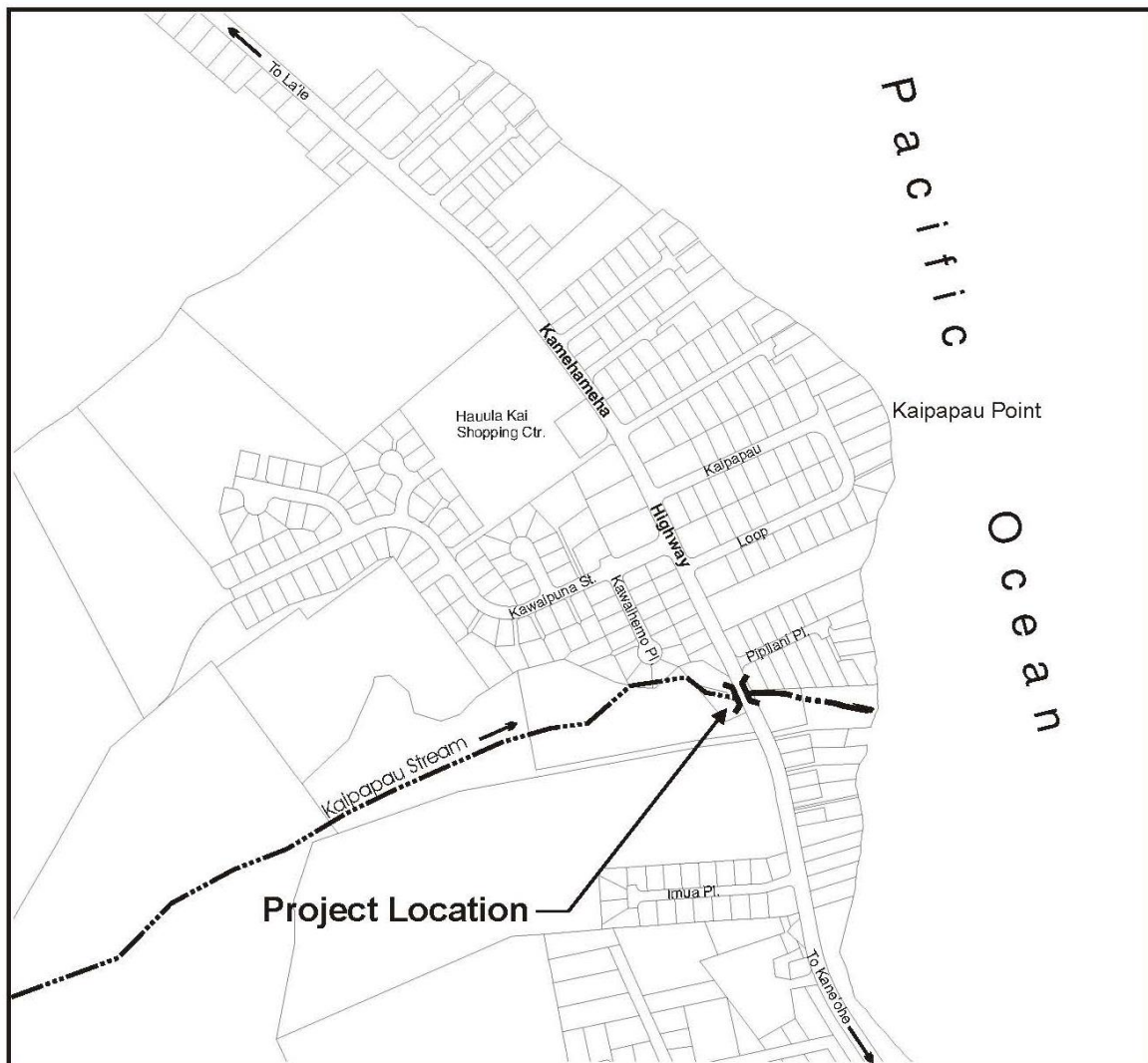


FIGURE 1
PROJECT LOCATION
Kaipapa'u Stream Bridge Replacement
Ko'olaupoko District, O'ahu, Hawai'i



0 1000 2000
Feet

R. M. TOWILL CORPORATION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(48)	2020	19	149



1. *For additional finished grade elevations, see sht. C-20.*
2. *For bridge deck elevations, see structural drawings.*
3. *For grading work under bridge, see sht. C-19.*
4. *The contractor shall be responsible for obtaining grading permit from the City and County of Honolulu, Department of Planning and Permitting.*

Graphic Scale:

1" = 20'

20' 10' 0 20' 40'

Scale in Feet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY GRADING, EROSION &
SEDIMENT CONTROL PLAN**

Kamehameha Highway
Kaipapau Stream Bridge Replacement
Federal Aid Project No. BR-083-1(48)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. OBSERVATION OF CONSTRUCTION IS SET FORTH IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES, ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

4/30/20

SIGNATURE _____ LIC. EXPIRATION _____
R. M. TOWILL CORPORATION

Scale: As Noted Date: April 2019

SHEET No. C-18 OF SHEETS

Figure 3. Soil Classifications

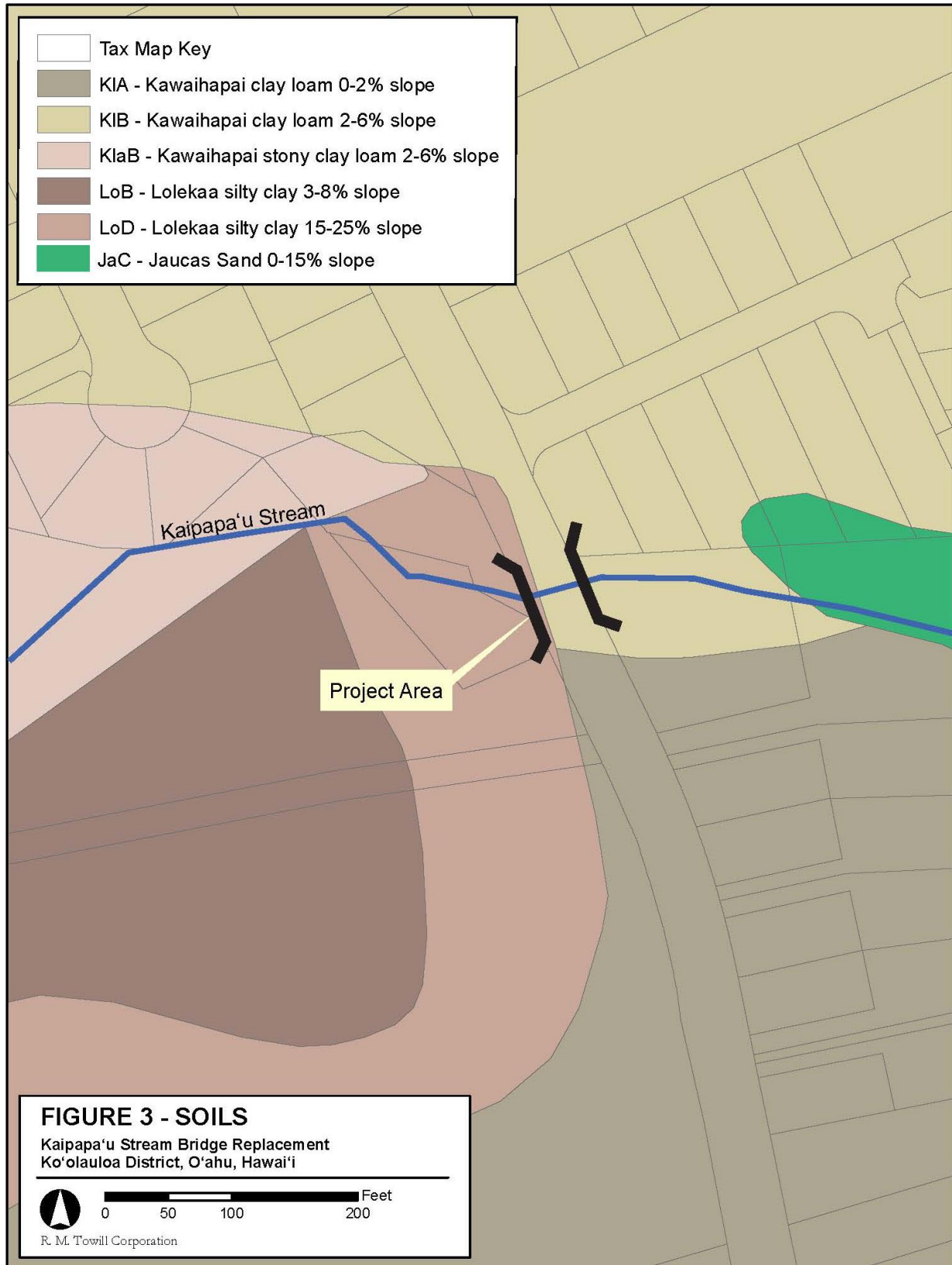
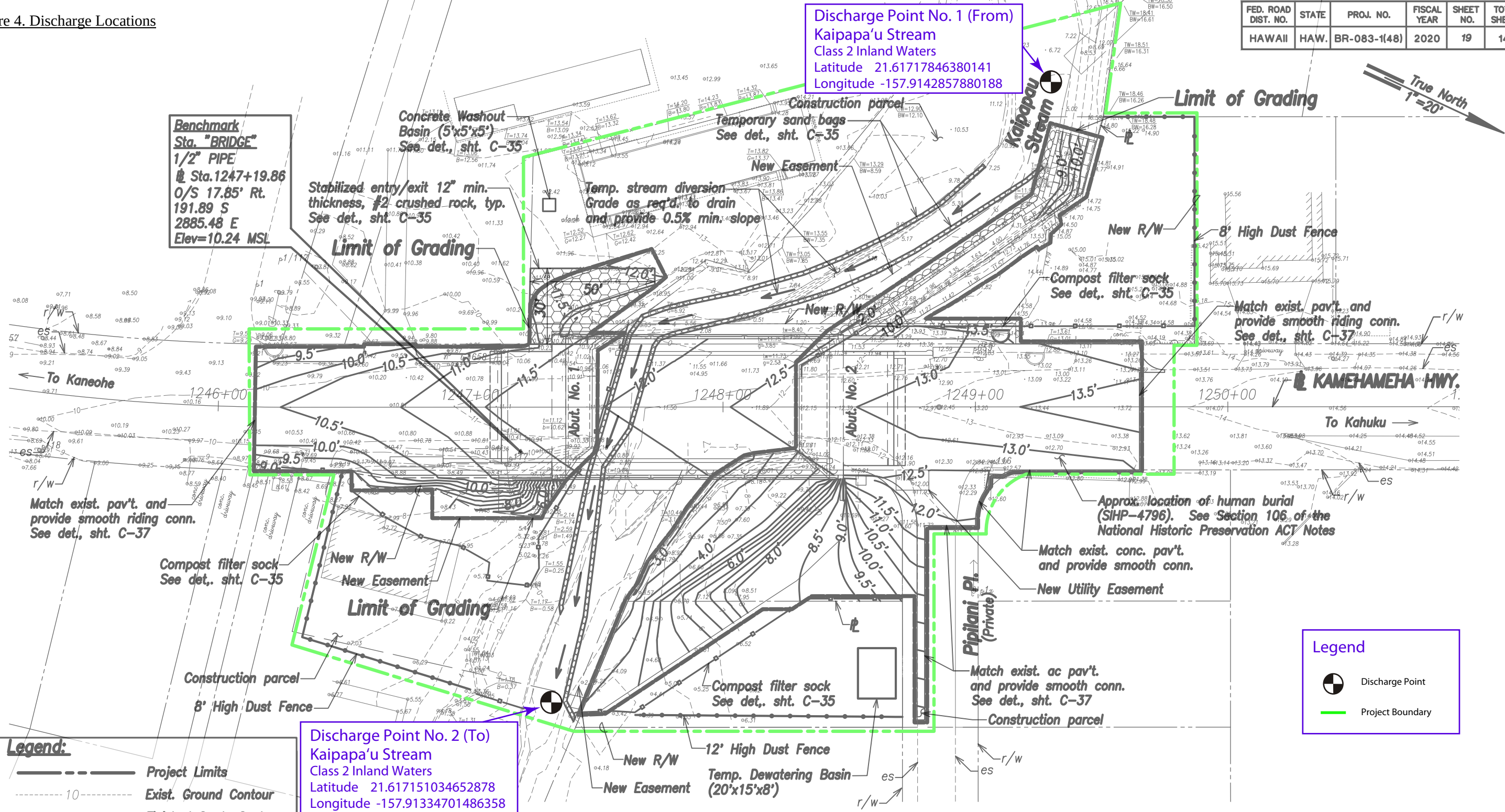


Figure 4. Discharge Locations

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-083-1(48)	2020	19	149



Legend:

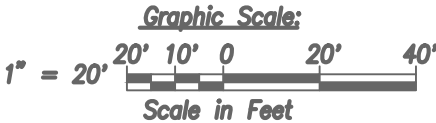
- Project Limits
- 10' --- Exist. Ground Contour
- 10' --- Finished Grade Contour
- Limit of Grading
- Dust Fence
- Compost Filter Sock
- Top of Bank
- Bottom of Bank
- Fill Condition
- Cut Condition
- Drainage Flow Direction
- Stabilized Entry/Exit

Discharge Point No. 2 (To)
Kaipapau Stream
Class 2 Inland Waters
Latitude 21.617151034652878
Longitude -157.91334701486358

Notes:

- For additional finished grade elevations, see sht. C-20.
- For bridge deck elevations, see structural drawings.
- For grading work under bridge, see sht. C-19.
- The contractor shall be responsible for obtaining grading permit from the City and County of Honolulu, Department of Planning and Permitting.

ROADWAY GRADING, EROSION & SEDIMENT CONTROL PLAN
Scale: 1"=20'



Legend

- Discharge Point
- Project Boundary

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY GRADING, EROSION & SEDIMENT CONTROL PLAN

Kamehameha Highway
Kaipapau Stream Bridge Replacement
Federal Aid Project No. BR-083-1(48)

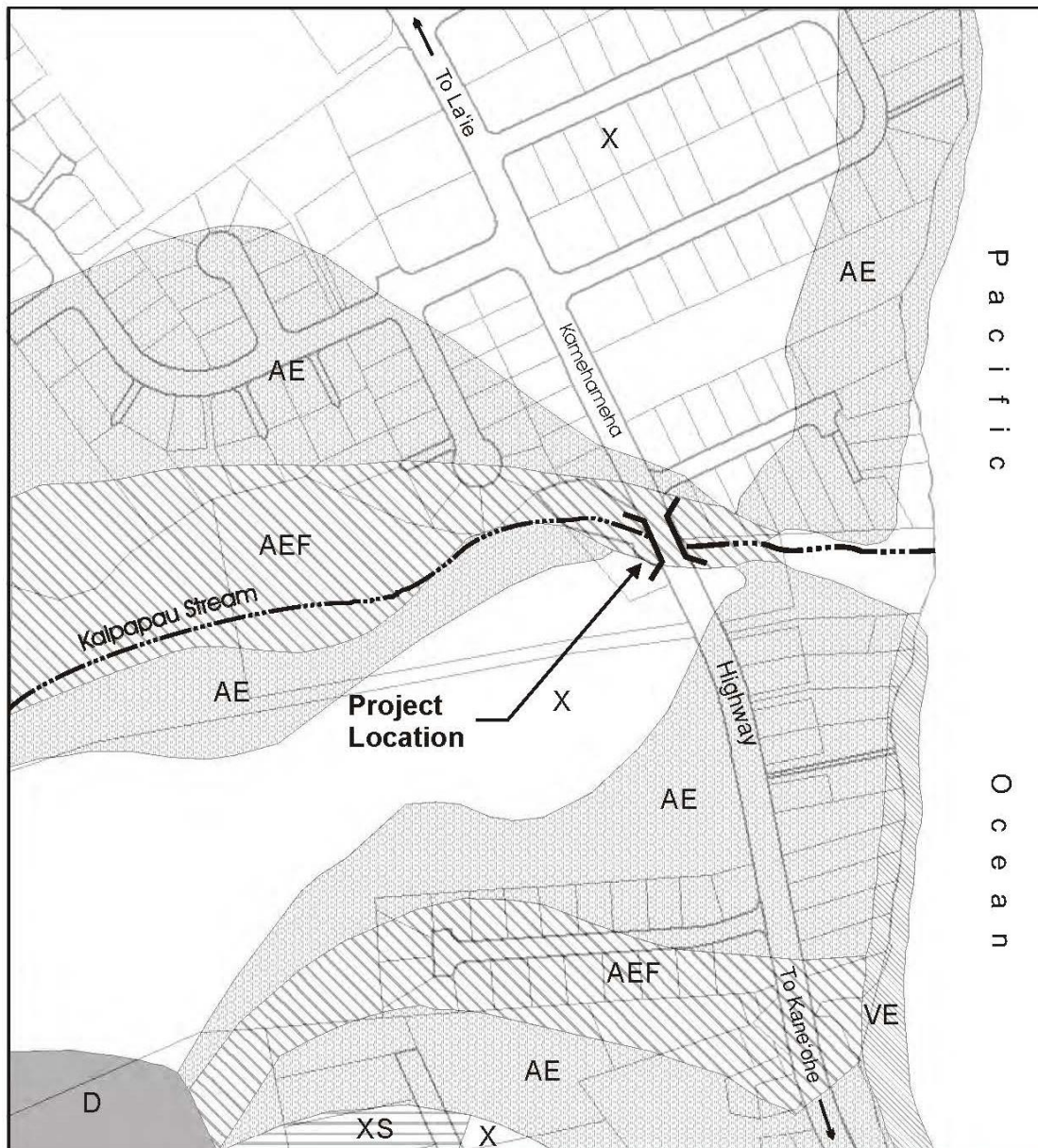
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Figure 5. Flood Zones



LEGEND

- X Areas outside the 1% annual chance flood plain.
- XS Areas with 1% annual chance of flooding with average depths of less than 1 foot with drainage areas of less than 1 square mile.
- D Areas in which flood hazards are undetermined.
- VE 1% annual chance of flooding that also have storm wave hazards.
- AE Areas with 1% annual chance of flooding.
- AEF The watercourse or portion of the flood plain which must be reserved in order to carry or discharge the regulatory flood without cumulatively increasing the flood elevation of the flood plain more than a foot at any given point.

FIGURE 5
FLOOD ZONE MAP
Kaipapa'u Stream Bridge Replacement
Ko'olauloa District, O'ahu, Hawai'i



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