

Attachment A – Maps and Flow Chart (Sections G.3 and G.4)*MAPS AND FLOW CHART**Attachment A- Contents***Figure 1 – Project Location****Figure 2 – Site Layout Plan****Figure 3 – Dewatering Flow Chart**

Attachment A, Figure 1
Project Location (Item G.3.)

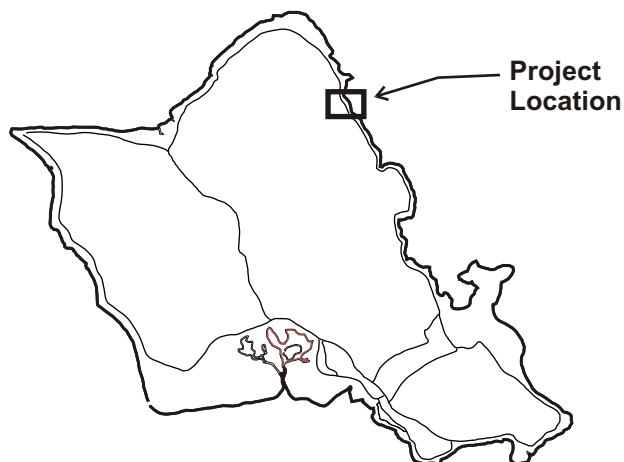
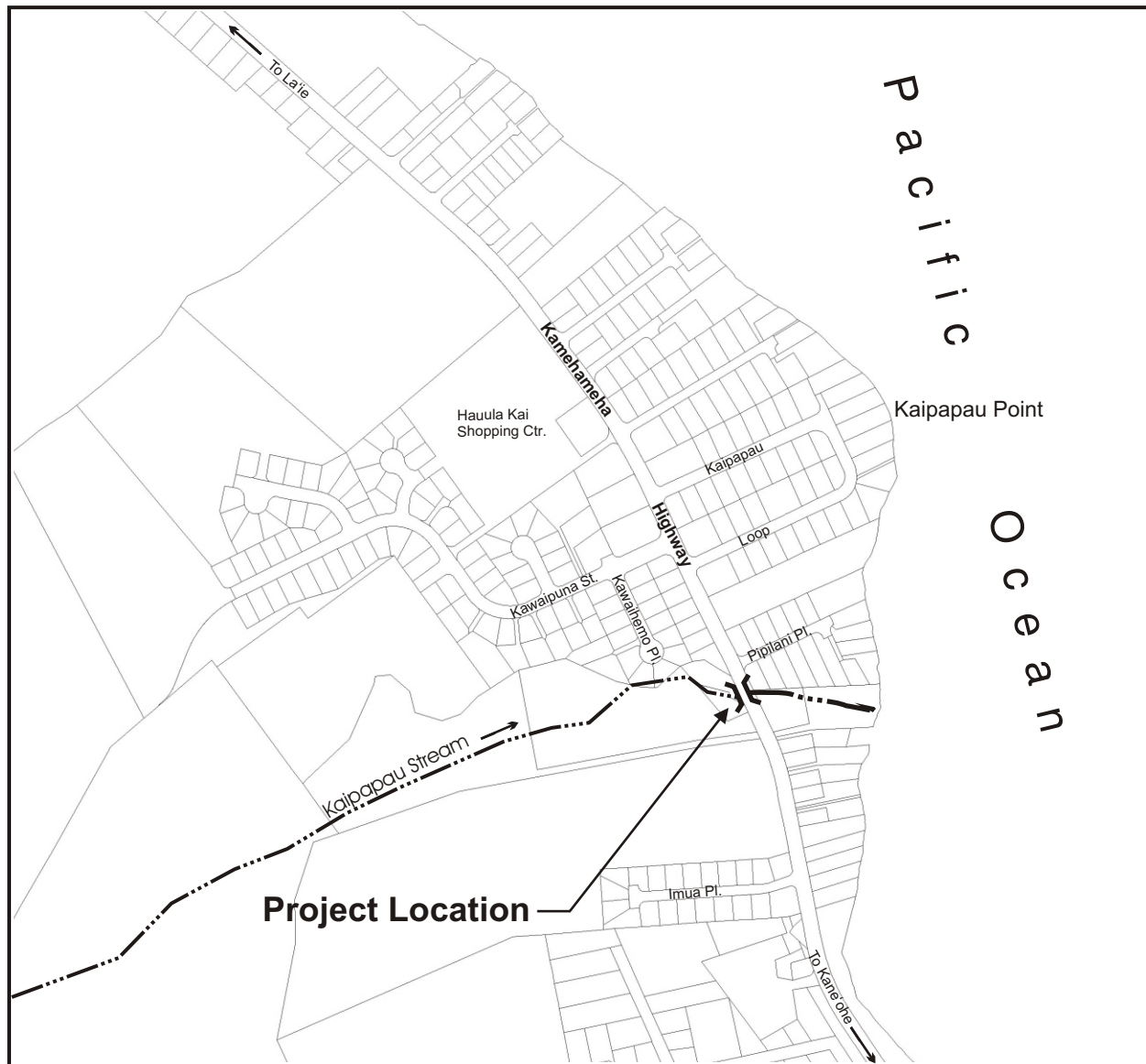


FIGURE 1
PROJECT LOCATION
Kaipapa'u Stream Bridge Replacement
Ko'olaupua District, O'ahu, Hawai'i



0 1000 Feet 2000

R. M. TOWILL CORPORATION

Nov 2009

Attachment A, Figure 2
Site Layout Plan (Items G.3., G.6., G.7., G.8., & G.9.)

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

Discharge Point No. 1 (From)
Kaipapa'u Stream
Class 2 Inland Waters
Latitude 21.61717846380141
Longitude -157.9142857880188

Benchmark
Sta. "BRIDGE"
1/2" PIPE
Sta. 1247+19.86
O/S 17.85' Rt.
191.89 S
2885.48 E
Elev=10.24 MSL

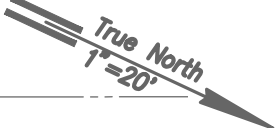
Stabilized entry/exit 12" min.
thickness, #2 crushed rock, typ.
See det., sht. C-35

Concrete Washout
Basin (5'x5')
See det., sht. C-35

Temporary sand bags
See det., sht. C-35

Temp. stream diversion
Grade as req'd to drain
and provide 0.5% min. slope

Limit of Grading



New R/W

8' High Dust Fence

Compost filter sock
See det., sht. C-35

Match exist. pav't and
provide smooth riding conn.
See det., sht. C-37

KAMEHAMEHA HWY.

To Kahuku

Approx. location of human burial
(SIHP-4796). See Section 106 of the
National Historic Preservation ACT Notes

Match exist. conc. pav't.
and provide smooth conn.

New Utility Easement

Match exist. ac pav't.
and provide smooth conn.
See det., sht. C-37

Construction parcel

Temp. Dewatering Basin
(20'x15'x8')

12' High Dust Fence

New R/W

New Easement

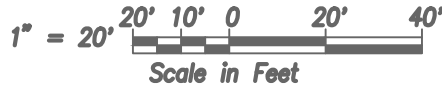
Discharge Point No. 2 (To)
Kaipapa'u Stream
Class 2 Inland Waters
Latitude 21.617151034652878
Longitude -157.91334701486358

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

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.

Graphic Scale:



Legend

- Discharge Point
- Location of Dewatering Basin
- Discharge Flow
- Anticipated Dewatering Locations

Legend:

- Project Limits
- Exist. Ground Contour
- 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

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)

Scale: As Noted Date: April 2019

SHEET No. C-18 OF SHEETS

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

4/30/20
LIC. EXPIRATION
R. M. TOWILL CORPORATION

Attachment A, Figure 3
Dewatering Flow Chart (Item G.4.)

DEWATERING EFFLUENT FLOW CHART

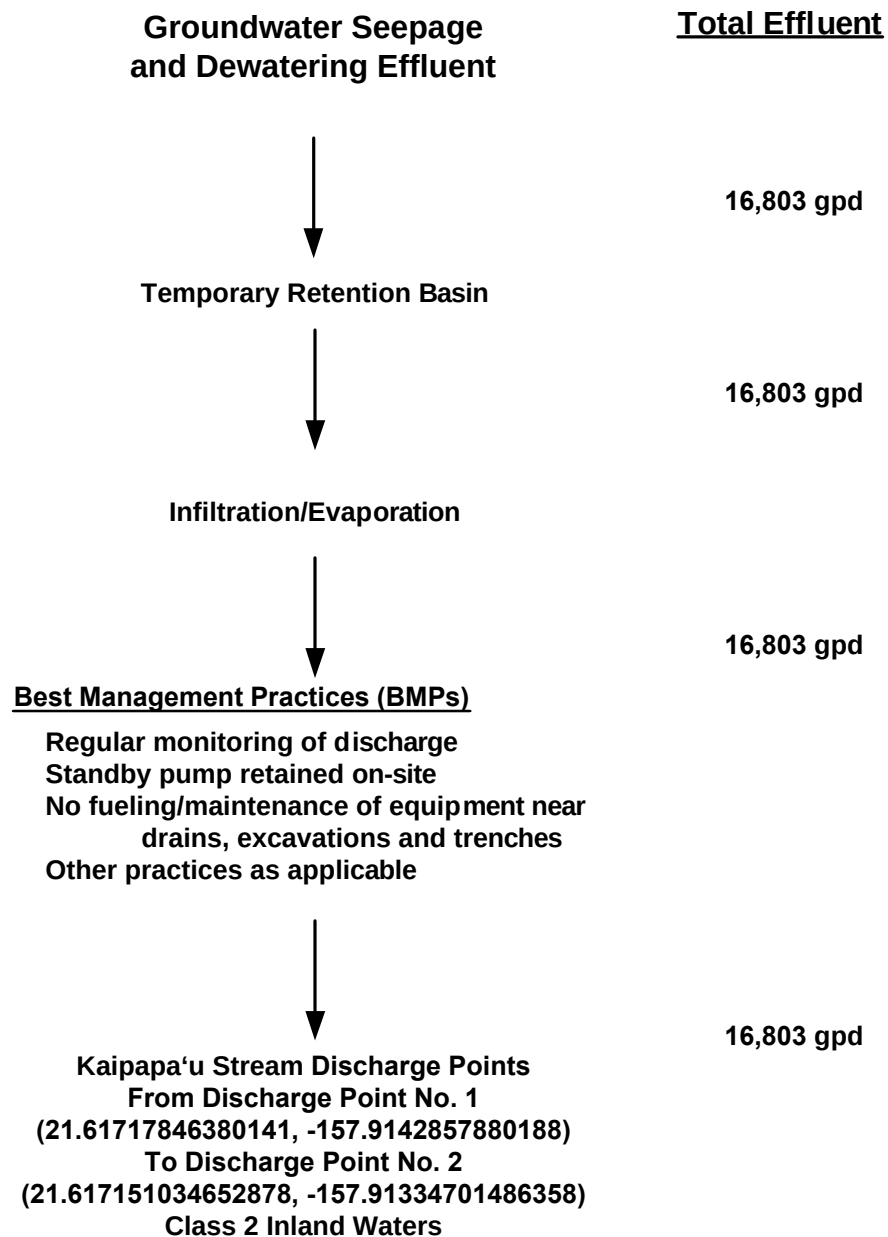


FIGURE 3
DEWATERING FLOW CHART
Kaipapa'u Bridge Replacement
Hau'ula, Ko'olauloa, O'ahu, Hawai'i