

# **ATTACHMENT A**

## **Kewalo Basin Location and Site Maps**

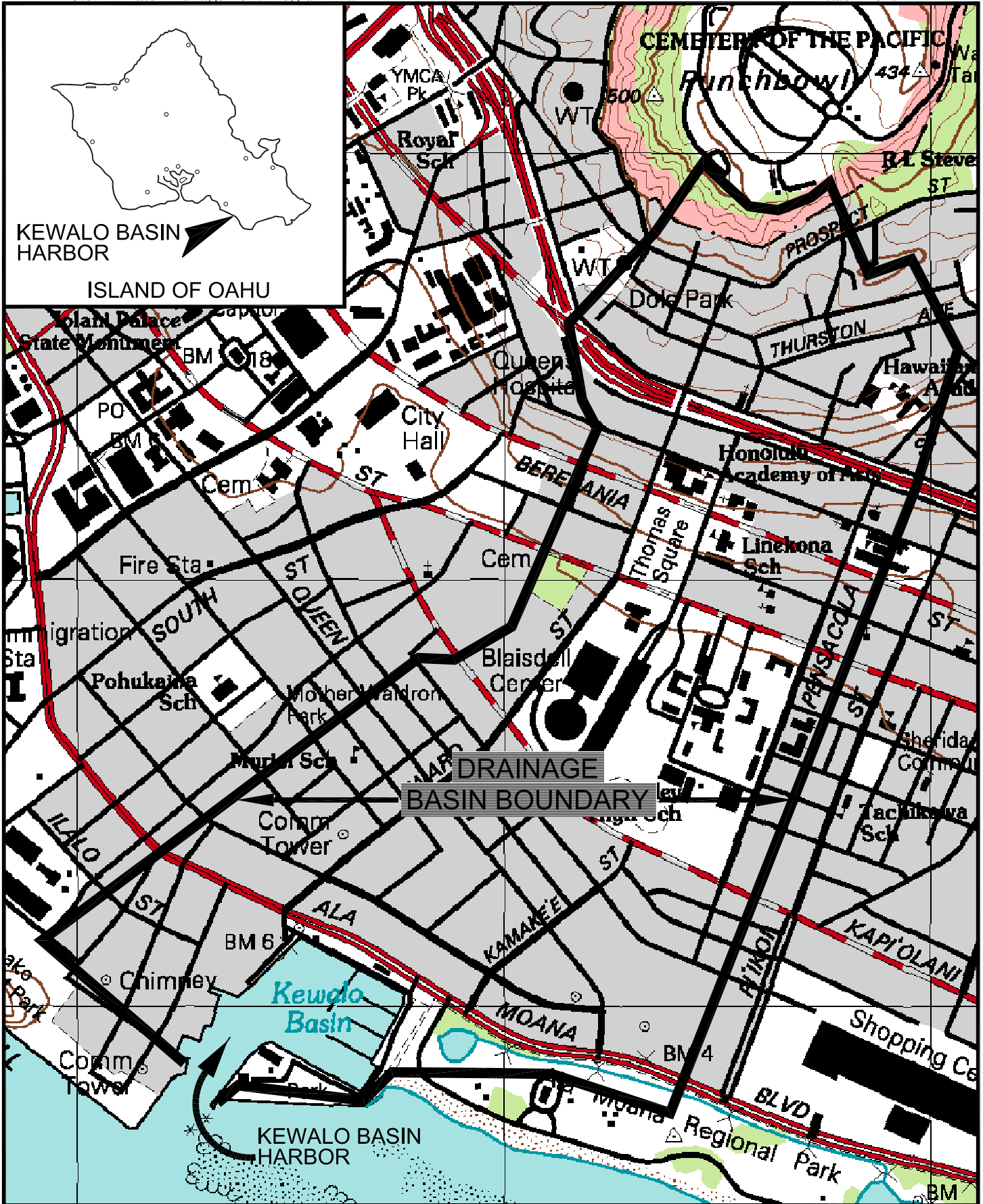
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A1: Kewalo Location Map

A2: Facility Site Map

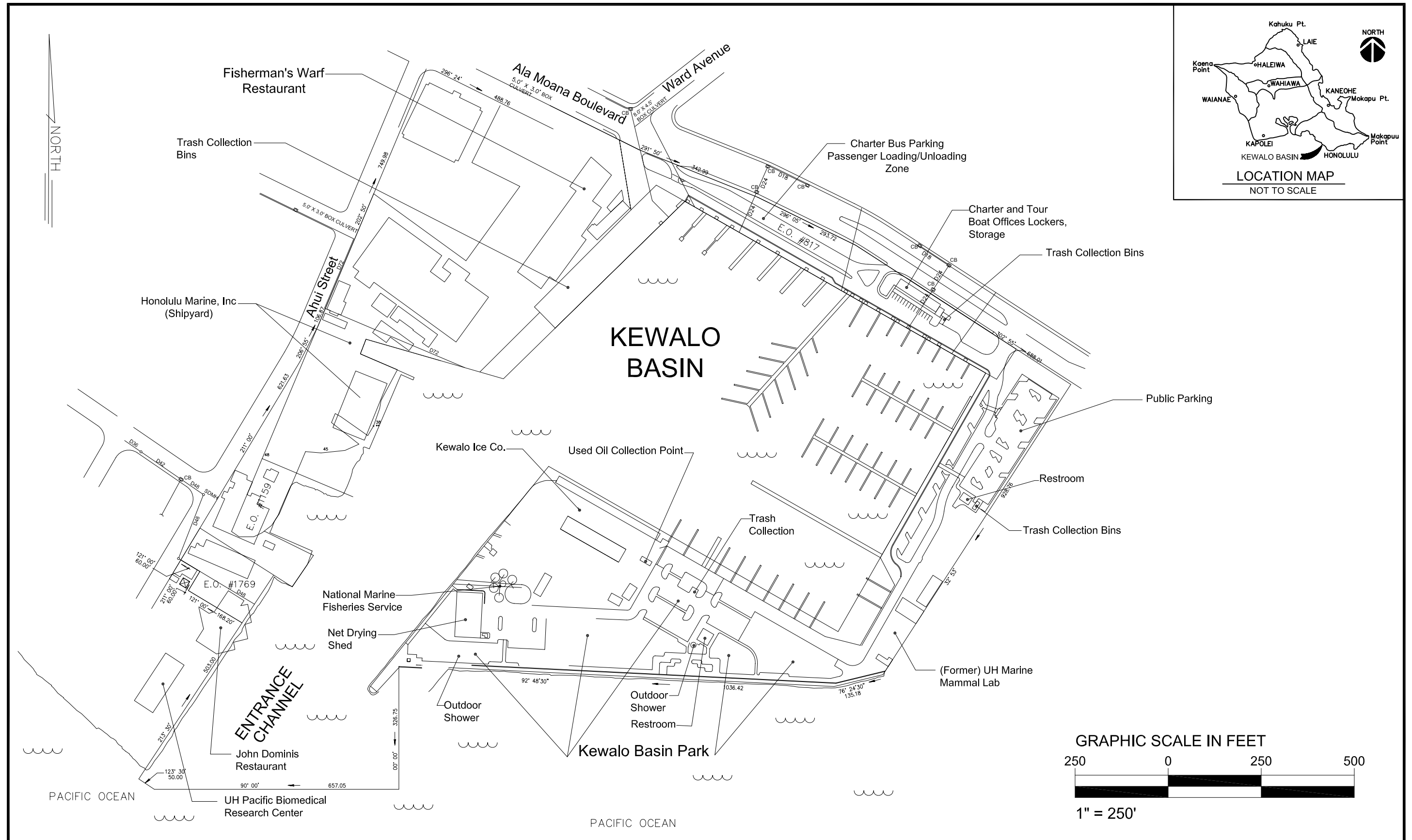
A3: Kewalo Outfall Map





KEWALO BASIN HARBOR STORM WATER MANAGEMENT PLAN  
 HARBOR LOCATION AND DRAINAGE BASIN MAP

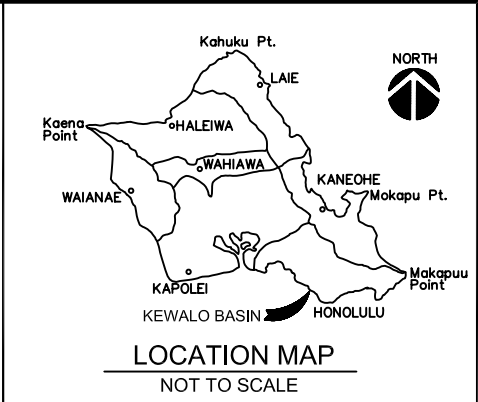
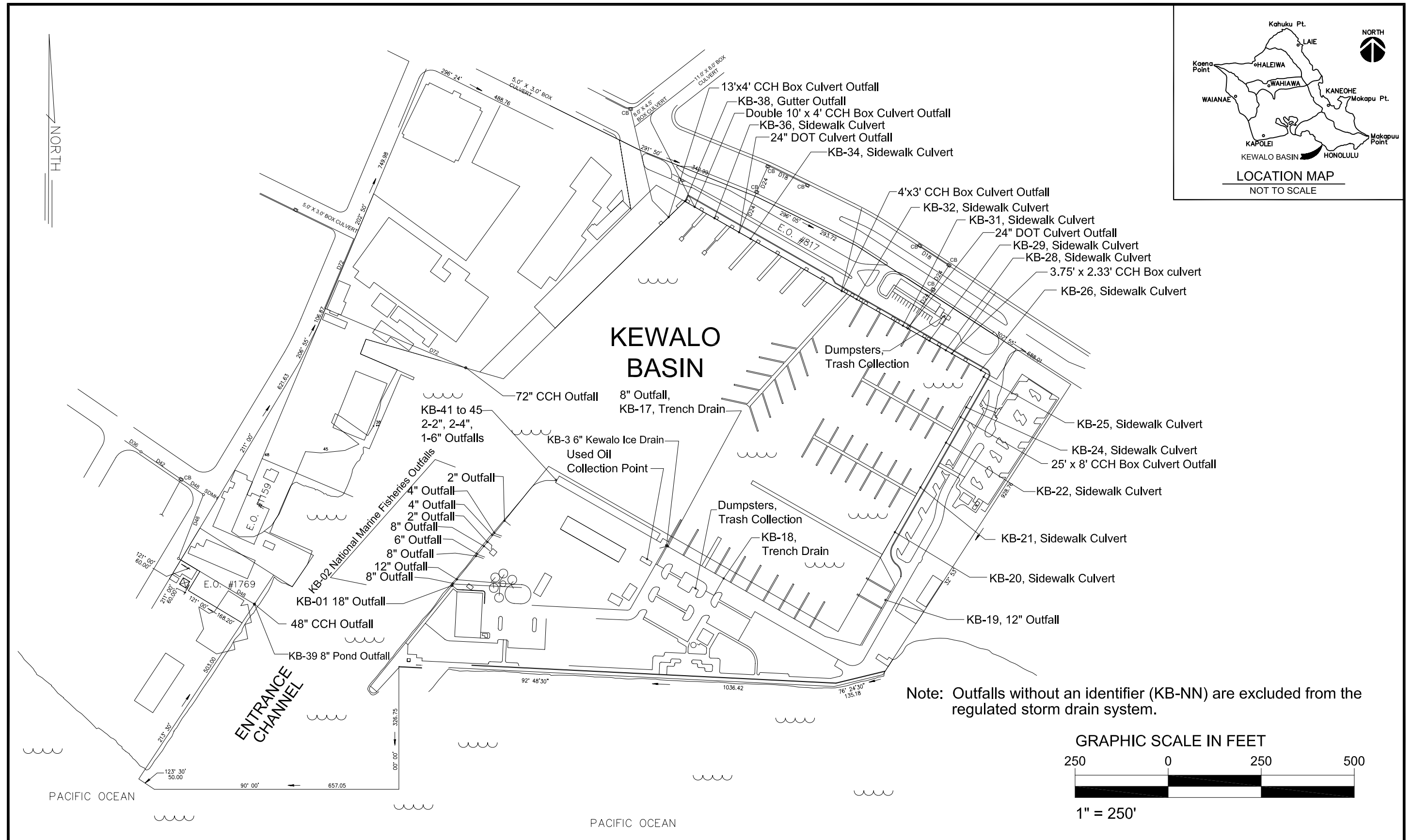




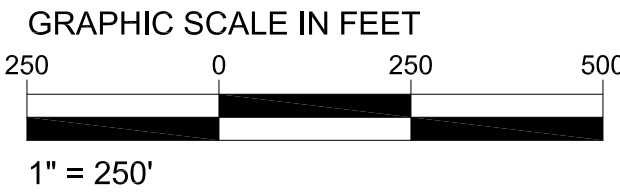
KEWALO BASIN HARBOR STORM WATER MANAGEMENT PLAN

### Kewalo Facility Site Map





Note: Outfalls without an identifier (KB-NN) are excluded from the regulated storm drain system.



KEWALO BASIN HARBOR STORM WATER MANAGEMENT PLAN  
**Kewalo Basin Outfall Map**





# **ATTACHMENT B**

## **Storm Drain System Outfall Listing**

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## Storm Drainage System Outfall Listing

*Note: Drainage outfalls without an outfall number in the first column (ex. KB-#) are shown for location only and not included in the regulated storm drain system.*

<b>Outfall No.</b>	<b>Owner and Description</b>	<b>Latitude (N)</b>	<b>Longitude (W)</b>	<b>Fluid Discharged</b>
KB-01	Hawaii Community Development Authority, 18" concrete pipe outfall	21° 17.494'	157° 51.530'	Storm runoff from parking areas of Kewalo Basin Park
KB-02*	NOAA Kewalo Research Facility, 8-inch iron outfall	21° 17.494'	157° 51.530'	salt water from marine animal habitat tanks
KB-02*	NOAA Kewalo Research Facility, 12-inch plastic outfall	21° 17.498'	157° 51.527'	Salt water overflow from marine animal habitat tanks
KB-02*	NOAA Kewalo Research Facility, 8-inch plastic outfall	21° 17.506'	157° 51.519'	Salt water overflow from marine animal habitat tanks
KB-02*	NOAA Kewalo Research Facility, 6-inch plastic outfall	21° 17.506'	157° 51.519'	Salt water overflow from marine animal habitat tanks
KB-02*	NOAA Kewalo Research Facility, 8-inch plastic outfall	21° 17.512'	157° 51.514'	Salt water overflow from marine animal habitat tanks
KB-02*	NOAA Kewalo Research Facility, 2-inch plastic outfall	21° 17.515'	157° 51.512'	Salt water overflow from marine animal habitat tanks
KB-02*	NOAA Kewalo Research Facility, 4-inch plastic outfall	21° 17.517'	157° 51.518'	Salt water overflow from marine animal habitat tanks
KB-02*	NOAA Kewalo Research Facility, 4-inch plastic outfall	21° 17.517'	157° 51.518'	Salt water overflow from marine animal habitat tanks
KB-02*	NOAA Kewalo Research Facility, 2-inch plastic outfall	21° 17.524'	157° 51.502'	Salt water overflow from marine animal habitat tanks
KB-41	Kewalo Ice Company, 4-inch iron outfall	21° 17.533'	157° 51.487'	Ice plant cooling water
KB-42	Kewalo Ice Company, 4-inch plastic outfall	21° 17.533'	157° 51.487'	Ice plant cooling water
KB-43	Kewalo Ice Company, 6-inch plastic outfall	21° 17.533'	157° 51.487'	Ice plant cooling water
KB-44	Kewalo Ice Company, 2-inch plastic outfall	21° 17.533'	157° 51.487'	Ice plant cooling water
KB-45	Kewalo Ice Company, 2-inch plastic outfall	21° 17.533'	157° 51.487'	Ice plant cooling water
KB-03	NOAA Kewalo Research Facility, 8-inch iron outfall	21° 17.516'	157° 51.453'	Salt water from marine mammal habitat tanks
KB-17	Hawaii Community Development Authority, trench drain	21° 17.516'	157° 51.453'	Storm runoff from Kewalo Basin Park

<b>Outfall No.</b>	<b>Owner and Description</b>	<b>Latitude (N)</b>	<b>Longitude (W)</b>	<b>Fluid Discharged</b>
KB-18	Hawaii Community Development Authority, trench drain	21° 17.499'	157° 51.424'	Storm runoff from Kewalo Basin Park
KB-19	University of Hawaii Marine Mammal Lab (now vacant site), 12" diameter	21° 17.480'	157° 51.353'	N/A (abandoned line)
KB-20	Hawaii Community Development Authority, sidewalk culvert	21° 17.520'	157° 51.341'	Storm runoff from park
KB-21	Hawaii Community Development Authority, sidewalk culvert	21° 17.540'	157° 51.330'	Storm runoff from park
KB-22	Hawaii Community Development Authority, sidewalk culvert	21° 17.559'	157° 51.318'	Storm runoff from park
	City and County of Honolulu, Ala Moana Park storm drain canal, box culvert, 25' x 8'	21° 17.571'	157° 51.311'	On- and offsite storm runoff, Ala Moana Park and extending through Kakaako up to Punchbowl
KB-24	Hawaii Community Development Authority, sidewalk culvert	21° 17.571'	157° 51.311'	Storm runoff from park
KB-25	Hawaii Community Development Authority, sidewalk culvert	21° 17'589'	157° 51.300'	Storm runoff from park
KB-26	Hawaii Community Development Authority, sidewalk culvert	21° 17.589'	157° 51.300'	Storm runoff from park
	City and County of Honolulu storm drain, box culvert, 3.75' x 2.33'	21° 17.600'	157° 51.317'	Storm runoff from Ala Moana Blvd.
KB-28	Hawaii Community Development Authority, sidewalk culvert	21° 17.600'	157° 51.320'	Storm runoff from roadway, trash collection area, charter office bldg area
KB-29	Hawaii Community Development Authority, sidewalk culvert	21° 17.605'	157° 51.328'	Storm runoff from roadways
	HDOT Highways Division storm drain culvert, 24" diameter	21° 17.609'	157° 51.338'	Offsite storm runoff from Ala Moana Blvd.
KB-31	Hawaii Community Development Authority, sidewalk culvert	21° 17.611'	157° 51.337'	Storm runoff from roadways
KB-32	Hawaii Community Development Authority, sidewalk culvert	21° 17.621'	157° 51.359'	Storm runoff from roadways
	City and County of Honolulu storm drain, box culvert 4' x 3'	21° 17.624'	157° 51.366'	Storm runoff from Ala Moana Blvd. and offsite public and private lands
KB-34	Hawaii Community Development Authority, sidewalk culvert	21° 17.647'	157° 51.408'	Storm runoff from access road and promenade
	HDOT Highways Division storm drain, box culvert, 24" diameter	21° 17.648'	157° 51.411'	Offsite storm runoff, Ala Moana Blvd.
KB-36	Hawaii Community Development Authority, sidewalk culvert	21° 17.659'	157° 51.428'	Storm runoff from access road and promenade
	City and County of Honolulu storm drain, double box culvert 10' x 4' each	21° 17.663'	157° 51.441'	Offsite storm runoff from Ward Ave, private and public lands

Outfall No.	Owner and Description	Latitude (N)	Longitude (W)	Fluid Discharged
KB-38	gutter outfall	21° 17.656'	157° 51.454'	Storm runoff from Kewalo Basin pavement
	City and County of Honolulu storm drain, box culvert 13' x 4'	21° 17.656'	157° 51.454'	Offsite storm runoff from Ward Ave, Ala Moana Blvd., private and public lands
	City and County of Honolulu, 72" storm drain	21° 17.591'	157° 51.526'	Offsite storm drainage from makai of Ala Moana Blvd.
	City and County of Honolulu, 48" storm drain	21° 17.487'	157° 51.622'	Offsite storm drainage from makai of Ala Moana Blvd.
KB-39	John Dominis Restaurant, 8" plastic pond drain	21° 17.487'	157° 51.622'	Circulation water from fish ponds

\*Note: National Marine Fisheries Service Drains (KB-02) are exempt from NPDES permitting

