



Attachment B

Drainage Calculations- Form C

Freeway Management System Phase 3 Unit 1 Drainage Calculations

DRAINAGE AREA	C	Area		*T _c	CF	I ₁₀	Q ₁₀	Discharge Point No.	Discharge Point Name	Discharge Point Location		Receiving Water Classification
		(SF)	(acres)	(min)	(min)	(in/hr)	(cfs)			Lat.	Long.	
DA-1	0.46	17,984	0.41	12.00	2.2	2.5	1.05	1	T Makalena Gulch	21.38903	-158.00051	Class 2, Inland
DA-2	0.68	44,026	1.01	7.50	2.5	2.5	4.27	1	T Makalena Gulch	21.38903	-158.00051	Class 2, Inland
DA-3	0.52	58,773	1.35	6.00	2.7	2.5	4.74	2	T Makalena Gulch	21.39884	-157.99997	Class 2, Inland
DA-4	0.74	50,491	1.16	4.00	2.9	2.6	6.47	3	Waiawa Stream	21.41603	-157.99154	Class 2, Inland
DA-5	0.40	9,974	0.23	4.00	2.9	2.5	0.66	4	Waiawa Stream	21.40699	-157.98988	Class 2, Inland
DA-6	0.95	2,168	0.05	2.00	3.2	2.5	0.38	5	Waiawa Stream	21.40936	-157.9902	Class 2, Inland
DA-7	0.75	13,909	0.32	0.50	3.4	2.5	2.05	6	Waiawa Stream	21.40627	-157.98974	Class 2, Inland
DA-8	0.73	14,179	0.33	2.00	3.2	2.5	1.89	7	Waiawa Stream	21.40524	-157.98986	Class 2, Inland
DA-9	0.75	3,223	0.07	3.00	3.1	2.5	0.43	8	Waiawa Stream	21.4047	-157.98971	Class 2, Inland
DA-10	0.75	27,592	0.63	7.50	2.5	2.5	2.95	9	Waiawa Stream	21.40142	-157.98817	Class 2, Inland
DA-11	0.41	190,278	4.37	27.00	1.5	2.5	6.78	10	Waiawa Stream	21.3979	-157.98442	Class 2, Inland
DA-12	0.44	50,086	1.15	16.50	1.9	2.5	2.41	11	Waiawa Stream	21.39765	-157.98419	Class 2, Inland
DA-13	0.52	24,752	0.57	9.00	2.4	2.5	1.79	11	Waiawa Stream	21.39765	-157.98419	Class 2, Inland
DA-14	0.48	36,362	0.83	6.00	2.7	2.5	2.71	12	Waiawa Stream	21.39339	-157.97814	Class 2, Inland
DA-15	0.65	4,290	0.10	12.00	2.4	2.5	0.35	12	Waiawa Stream	21.39339	-157.97814	Class 2, Inland
DA-16	0.59	3,914	0.09	10.00	2.3	2.5	0.31	13	Waiawa Stream	21.3979	-157.98442	Class 2, Inland
DA-17	0.41	19,517	0.45	10.00	2.3	2.4	1.01	14	Kalihi Stream	21.33213	-157.89007	Class 2, Inland
DA-18	0.58	11,300	0.26	5.00	2.8	2.4	1.02	14	Kalihi Stream	21.33213	-157.89007	Class 2, Inland
DA-19	0.49	5,773	0.13	11.00	2.2	2.4	0.34	14	Kalihi Stream	21.33213	-157.89007	Class 2, Inland

Totals 13.51 acres

41.61 cfs