

**County of Kauai
Department of Public Works
Lihue, Hawaii**

ENGINEER'S PRELIMINARY DETAIL ESTIMATE

for

**POIPU ROAD SAFETY AND MOBILITY PROJECT
KOLOA ROAD TO EAST OF KELEKA ROAD**

USDOT RAISE Grant Application

District of Koloa

Island of Kauai

June 15, 2021

COST ESTIMATE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.1000	Clearing and Grubbing (Approx. 14 Acres)	15	ACRES	\$ 5,000.00	\$ 73,700.00
202.1000	Removal of Structures and Obstruction	L.S.	L.S.	L.S.	\$ 306,640.00
203.1000	Excavation and Embankment (Roadway and Sidewalk)	10,788	C.Y.	\$ 60.00	\$ 647,280.00
203.2000	Select Material for Planting Soil (1")	1,831	C.Y.	\$ 45.00	\$ 82,400.00
206.1000	Excavation and Backfill for Drainage Facilities	1,089	C.Y.	\$ 50.00	\$ 54,450.00
209.1000	Installation, Maintenance, Monitoring, and Removal of BMPs	L.S.	L.S.	L.S.	\$ 580,800.00
209.2000	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	\$ 60,000.00
301.1000	Hot Mix Asphalt Base Course (ACB)	2,213	C.Y.	\$ 300.00	\$ 663,900.00
304.1000	Aggregate Base (Roadway)	1	C.Y.	\$ 200.00	\$ 200.00
304.2000	Aggregate Base (Sidewalk)	2,731	C.Y.	\$ 200.00	\$ 546,200.00
304.3000	Aggregate Base (Pull-in Bus Stop Pad and Roundabout Apron)	909	C.Y.	\$ 200.00	\$ 181,800.00
305.1000	Aggregate Subbase Course (Roadway)	3,089	C.Y.	\$ 200.00	\$ 617,800.00

COST ESTIMATE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
401.2000	HMA Pavement, State Mix No. V (Roadway)	7,707	Tons	\$ 160.00	\$ 1,233,120.00
411.1000	Concrete Pavement (Pull-in Bus Stop Pad and Roundabout Apron)	1,438	C.Y.	\$ 650.00	\$ 934,700.00
413.1000	Stamped Concrete (Fully Mountable Center Apron for Roundabout)	140	S.Y.	\$ 250.00	\$ 35,000.00
415.0100	Coldplaning of Existing Pavement	65,799	S.Y.	\$ 10.00	\$ 657,990.00
501.0100	Metal Bus Shelter	11	EA.	\$ 10,000.00	\$ 110,000.00
503.0100	Concrete Drainage Headwall	10	EA.	\$ 20,000.00	\$ 200,000.00
604.5000	Type G4 Drainage Inlet, Assume 4 Feet Deep (DPW Std, Det. D-38)	40	EA.	\$ 10,000.00	\$ 400,000.00
604.7000	Standard Frame and Grate (DPW Std. Det. D-39)	80	EA.	\$ 1,000.00	\$ 80,000.00
610.1000	Reinforced Concrete Driveway, 4-Inches	17	C.Y.	\$ 650.00	\$ 11,200.00
613.1000	Adjusting Centerline and Reference Survey Monuments	L.S.	L.S.	L.S.	\$ 15,000.00
624.1000	Water Systems (FH relocations/Adjustments)	L.S.	L.S.	L.S.	\$ 105,000.00
625.1000	Sewer Systems (Adjusting Sewer Manhole Frame and Cover)	L.S.	L.S.	L.S.	\$ 80,000.00

COST ESTIMATE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
626.1000	Adjusting Standard Valve Boxes	L.S.	L.S.	L.S.	\$ 140,000.00
626.2000	Adjusting Utility Box Frame and Cover	L.S.	L.S.	L.S.	\$ 100,000.00
626.3000	Light Pole Relocation	L.S.	L.S.	L.S.	\$ 975,000.00
626.4000	Utility Pole Relocation	L.S.	L.S.	L.S.	\$ 399,250.00
626.5000	Misc. Utility Work	L.S.	L.S.	L.S.	\$ 428,600.00
626.6000	New Light Poles at Roundabout	L.S.	L.S.	L.S.	\$ 490,000.00
629.0100	12-Inch Pavement Striping (Thermoplastic Extrusion), White	481	L.F.	\$ 8.00	\$ 3,850.00
629.0200	12-Inch Pavement Striping (Thermoplastic Extrusion), Yellow	85	L.F.	\$ 8.00	\$ 680.00
629.0300	8-Inch Pavement Striping (Thermoplastic Extrusion), White	1,909	L.F.	\$ 5.00	\$ 9,550.00
629.0400	4-Inch Pavement Striping (Thermoplastic Extrusion), Double Yellow	10,378	L.F.	\$ 12.00	\$ 124,540.00
629.0500	4-Inch Pavement Striping (Thermoplastic Extrusion), Yellow	178	L.F.	\$ 5.00	\$ 890.00
629.0600	4-Inch Pavement Striping (Thermoplastic Extrusion), White	62,789	L.F.	\$ 5.00	\$ 313,950.00

COST ESTIMATE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.0700	Type C Pavement Marker	1,249	E.A.	\$ 7.00	\$ 8,750.00
629.0800	Type D Pavement Marker	1,157	E.A.	\$ 7.00	\$ 8,100.00
629.0900	Type H Pavement Marker	198	E.A.	\$ 7.00	\$ 1,390.00
629.1000	Pavement Symbol (Thermoplastic Extrusion), Bike Lane Marking	92	E.A.	\$ 200.00	\$ 18,400.00
629.1100	Pavement Arrow (Thermoplastic Extrusion)	50	E.A.	\$ 150.00	\$ 7,500.00
629.1200	Pavement Word (Thermoplastic Extrusion)	18	E.A.	\$ 150.00	\$ 2,700.00
629.1100	Crosswalk Marking (Thermoplastic Extrusion), 24-Inch Stripe, 10-Ft. Wide	3,310	L.F.	\$ 40.00	\$ 132,400.00
630.1000	New Signs	L.S.	L.S.	L.S.	\$ 8,200.00
634.1000	Portland Cement Concrete Sidewalk	16,569	S.Y.	\$ 85.00	\$ 1,408,370.00
638.1000	Portland Cement Concrete Curb (DPW Std. Det. R-1)	20,770	L.F.	\$ 50.00	\$ 1,038,500.00
638.2000	Portland Cement Concrete Curb and Gutter (DPW Std. Det. R-4)	3,624	L.F.	\$ 70.00	\$ 253,680.00
638.3000	Concrete Thru Gutter	30	L.F.	\$ 100.00	\$ 3,000.00

COST ESTIMATE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
638.4000	Concrete Curb (Mountable for Roundabout)	126	L.F.	\$ 100.00	\$ 12,600.00
641.1000	Hydro-mulch Seeding, Landscape and Swale (Grassing)	66,856	S.Y.	\$ 40.00	\$ 2,674,240.00
643.1000	Maintenance of Existing Landscape Areas	F.A.	F.A.	F.A.	\$ 100,000.00
645.1000	Traffic Control	L.S.	L.S.	L.S.	\$ 900,000.00
645.2000	Additional Police Officers, Additonal Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	\$ 300,000.00
648.1000	Field-Posted Drawings	L.S.	L.S.	L.S.	\$ 10,000.00
650.1000	Concrete Curb Ramp	57	EA.	\$ 20,000.00	\$ 1,140,000.00
696.1000	Field Office Trailer (Not to Exceed \$32,000.00)	F.A.	F.A.	F.A.	\$ 32,000.00
696.2000	Project Site Laboratory Trailer (Not to Exceed \$22,000.00)	F.A.	F.A.	F.A.	\$ 22,000.00
699.1000	Mobilization (Not to exceed 6% of the sum of all items excluding the bid price of this item)	L.S.	L.S.	L.S.	\$ 1,124,720.00
Sum of All Items					\$ 19,870,040.00
Escalation (2%)					\$ 993,510.00
Contingency (5%)					\$ 1,043,180.00
Subtotal					\$ 21,906,730.00
Construction Engineering (15%)					\$ 3,286,009.50
Total					\$ 25,192,740.00