

**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 BUILD Grant Application**

**District of Koloa**

**Island of Kauai**

**May 1, 2020**

<b>COST ESTIMATE</b>					
<b>ITEM NO.</b>	<b>ITEM</b>	<b>APPROX. QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
201.1000	Clearing and Grubbing (Approx. 14 Acres)	14	ACRES	\$ 5,000.00	\$ 70,000.00
202.1000	Removal of Structures and Obstruction	L.S.	L.S.	L.S.	\$ 286,200.00
203.1000	Excavation and Embankment (Roadway and Sidewalk)	10,728	C.Y.	\$ 60.00	\$ 643,680.00
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	134	C.Y.	\$ 50.00	\$ 6,700.00
209.1000	Installation, Maintenance, Monitoring, and Removal of BMPs	L.S.	L.S.	L.S.	\$ 525,200.00
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)	2,206	C.Y.	\$ 300.00	\$ 661,800.00
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)	3,088	C.Y.	\$ 200.00	\$ 617,600.00
401.2000	HMA Pavement, State Mix No. V (Roadway)	7,552	Tons	\$ 160.00	\$ 1,208,320.00
411.1000	Concrete Pavement (Pull-in Bus Stop Pad and Roundabout Apron)	1,438	C.Y.	\$ 650.00	\$ 934,700.00
415.0100	Coldplaning of Existing Pavement	64,124	S.Y.	\$ 10.00	\$ 641,240.00
501.0100	Metal Bus Shelter	11	EA.	\$ 10,000.00	\$ 110,000.00

<b>COST ESTIMATE</b>					
<b>ITEM NO.</b>	<b>ITEM</b>	<b>APPROX. QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
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.	\$ 80,000.00
625.1000	Sewer Systems (Adjusting Sewer Manhole Frame and Cover)	L.S.	L.S.	L.S.	\$ 80,000.00
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.	\$ 299,250.00
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.	\$ 315,000.00
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

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629.0300	8-Inch Pavement Striping (Thermoplastic Extrusion), White	1,881	L.F.	\$ 5.00	\$ 9,410.00
629.0400	4-Inch Pavement Striping (Thermoplastic Extrusion), Double Yellow	10,222	L.F.	\$ 12.00	\$ 122,670.00
629.0500	4-Inch Pavement Striping (Thermoplastic Extrusion), White	62,165	L.F.	\$ 5.00	\$ 310,830.00
629.0600	Type C Pavement Marker	1,249	E.A.	\$ 7.00	\$ 8,750.00
629.0700	Type D Pavement Marker	1,138	E.A.	\$ 7.00	\$ 7,970.00
629.0800	Type H Pavement Marker	198	E.A.	\$ 7.00	\$ 1,390.00
629.0900	Pavement Symbol (Thermoplastic Extrusion), Bike Lane Marking	92	E.A.	\$ 200.00	\$ 18,400.00
629.1000	Pavement Arrow (Thermoplastic Extrusion)	50	E.A.	\$ 150.00	\$ 7,500.00
629.1100	Pavement Word (Thermoplastic Extrusion)	18	E.A.	\$ 150.00	\$ 2,700.00
629.1100	Crosswalk Marking (Thermoplastic Extrusion), 24-Inch Stripe, 10-Ft. Wide	3,210	L.F.	\$ 40.00	\$ 128,400.00
634.1000	Portland Cement Concrete Sidewalk	16,389	S.Y.	\$ 85.00	\$ 1,393,070.00
638.1000	Portland Cement Concrete Curb (DPW Std. Det. R-1)	19,480	L.F.	\$ 50.00	\$ 974,000.00
638.2000	Portland Cement Concrete Curb and Gutter (DPW Std. Det. R-4)	3,624	L.F.	\$ 70.00	\$ 253,680.00
641.1000	Hydro-mulch Seeding, Landscape and Swale (Grassing)	65,896	S.Y.	\$ 40.00	\$ 2,635,840.00
643.1000	Maintenance of Existing Landscape Areas	F.A.	F.A.	F.A.	\$ 100,000.00

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645.1000	Traffic Control	L.S.	L.S.	L.S.	\$ 600,000.00
645.2000	Additional Police Officers, Additonal Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	\$ 200,000.00
648.1000	Field-Posted Drawings	L.S.	L.S.	L.S.	\$ 10,000.00
650.1000	Concrete Curb Ramp	54	EA.	\$ 20,000.00	\$ 1,080,000.00
696.1000	Field Office Trailer (Not to Exceed \$32,000.00)	F.A.	F.A.	F.A.	\$ 64,000.00
696.2000	Project Site Laboratory Trailer (Not to Exceed \$22,000.00)	F.A.	F.A.	F.A.	\$ 44,000.00
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.	\$ 1,060,620.00
<b>Sum of All Items</b>					<b>\$ 18,737,650.00</b>
Contingency (5%)					\$ 936,890.00
<b>Subtotal</b>					<b>\$ 19,674,540.00</b>
Construction Engineering (15%)					\$ 2,951,181.00
<b>Total</b>					<b>\$ 22,625,730.00</b>

**SUMMARY**

Category	Contract Items	Contingencies	Construction Engineering	Total Project Cost	Participating Cost	Federal Share	County Share
Reconstruction Type Code 04	\$ 18,737,650.00	\$ 936,890.00	(\$2,951,181.00)	\$19,674,540.00	\$19,674,540.00	\$17,707,086.00	\$1,967,454.00
KIUC - MOU Type Code 43							
Construction Eng. Type Code 17							
Consult. (CM/CSS)			\$2,360,944.80		\$2,360,944.80	\$2,124,850.32	\$236,094.48
Consult. (Post Des.)			\$92,780.00		\$92,780.00	\$83,502.00	\$9,278.00
Staff Non-Labor			\$261,361.72		\$261,361.72	\$235,225.55	\$26,136.17
Subtotal			\$2,715,086.52		\$2,715,086.52	\$2,443,577.87	\$271,508.65
Staff Labor			\$236,094.48		\$236,094.48	\$212,485.03	\$23,609.45
Total	\$0.00	\$0.00	\$2,951,181.00	\$2,951,181.00	\$2,951,181.00	\$2,656,062.90	\$295,118.10
<b>Total Construction Cost</b>	<b>\$18,737,650.00</b>	<b>\$936,890.00</b>	<b>\$2,951,181.00</b>	<b>\$22,625,730.00</b>	<b>\$22,625,730.00</b>	<b>\$20,363,148.90</b>	<b>\$2,262,572.10</b>

Federal Funds Requested (90%) - \$20,363,149  
 County Funds Requested (10%) - \$2,262,572