ADDENDUM NO. 2

COUNTY OF KAUA'I DEPARTMENT OF WATER

PLANS, PROPOSAL, SPECIFICATIONS CONTRACT AND BOND FOR

JOB NO. 18-03, PLH-27, KŪHIŌ HIGHWAY (HARDY-OXFORD) 18" MAIN REPLACEMENT LĪHU'E, KAUA'I, HAWAI'I

NOTICE TO PROSPECTIVE PROPOSERS

This addendum is hereby made a part of the PLANS, PROPOSAL, SPECIFICATIONS, CONTRACT AND BOND for the subject project and it shall amend the said contract documents in the following respects:

Item 1

Department's Responses to Questions/Comments/Material Substitutions.

End of Addendum No. 2

Please submit questions for this solicitation at www.publicpurchase.com.

Joseph E. "Joe" Tait Manager and Chief Engineer Chief Procurement Officer December 20, 2024

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. 2

Receipt Acknowledged:

Organization

Received by

Date

Title

(ADDENDUMS MUST BE ACKNOWLEDGED AND INCLUDED WITH OFFER)

ADDENDUM NO. 2

Question 1:

What is the engineers estimate for this project?

<u>Response</u>: Please see attached.

Question 2:

Clarify if the existing 16" Asbestos Cement water line can be abandoned in place.

Response:

The existing 16" AC pipe within Kūhiō Highway and the intersection of Kūhiō Highway and Poinciana Street must be removed. The existing AC pipe within Poinciana Street is to be inactivated in-place.

Question 3:

Clarify if CLSM is used in backfilling the trench along Kuhio Hwy (State ROW) if the 16" AC Cement water line and 6" CI pipes are to be demolished and disposed.

Response:

Where existing water lines removed, backfill trench with CLSM and restore surface per Water Line Trench Section detail on Sheet C-505.

Question 4:

Is there a staging area for storing materials & equipment.

Response:

The staging area is the Contractor's means and methods. Contractor is responsible for obtaining all applicable permits and approvals.



CONSTRUCTION COST CONSULTANT



Cost Estimate for:

PROJECT NAME:	DEPARTMENT OF WATER, COUNTY OF KAUAI
	KUHIO HIGHWAY (HARDY-OXFORD) 16" MAIN REPLACEMENT LIHUE WATER SYSTEM
LOCATION:	LIHUE, KAUAI, HAWAII
DATE:	7/16/2024
PROJECT NO.:	JOB NO. 18-03
JUA NO.:	18-056
PREPARED FOR:	BELT COLLINS HAWAII LLC
SUBMITTAL:	FINAL DESIGN

OFFER SCHEDULE

JOB NO. 18-03, WP2020 JOB NO. PLH-27, KAUA'I, HAWAI'I

OFFER SCHEDULE KŪHIŌ HIGHWAY (HARDY-OXFORD) 16" MAIN REPLACEMENT LĪHU'E, KAUA'I, HAWAI'I

ITEM NO.	DESCRIPTION		UNIT PRICE		TOTAL	
1	1	LS	Mobilization & Demobilization (Not to exceed 6% of final offer)		\$	449,010
2	1	LS	Demolition, including demolition of		\$	614,925
3	4,232	SY	existing A.C. pavement Cold Maning Existing A.C.	\$ 44	\$	187,084
4	3,499	SY	2" Thick A.C. Pavement Hot Mix State Design Mix IV for pavement restoration and driveway pavement, including base course, in place complete.	\$ 216	\$	757,364
5	733	SY	2" Thick A.C. Pavement Hot Mix State Design Mix V for pavement resurfacing, in place complete.	\$ 193	\$	141,500
6	1,523	LF	18" Ductile Iron Pipe Waterline; Cl. 52, including all appurtenances, in place complete.	\$ 2,740	\$	4,172,997
7	41	LF	16" Ductile Iron Pipe Waterline; Cl. 52, including all appurtenances, in place complete.	\$ 2,762	\$	113,244
8	131	LF	6" Ductile Iron Pipe Waterline; Cl. 52, including all appurtenances, in place complete.	\$ 1,202	\$	157,399
9	40	LF	2" Polyvinyl Chloride Waterline; Sch. 80, including all appurtenances, in place complete.	\$ 168	\$	6,723
10	1	LS	& AWWA C110), in place 18" Resilient Wedge Gate Valve		\$	461,663
11	5	EA	MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 27,350	\$	136,752
12	2	EA	16" Resilient Wedge Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 17,156	\$	34,312
13	1	EA	8" Gate Valve MJxFE with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 3,541	\$	3,541
14	4	EA	6" Gate Valve MJxFE with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 2,051	\$	8,205
15	1	EA	2" Gate Valve MJxFE with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 1,402	\$	1,402
16	2	EA	including all appurtenances, in	\$ 2,017	\$	4,034

17	13	EA	Single Service Lateral and assembly, including all appurtenances, in place complete.	\$ 11,491	\$ 149,382
18	3	EA	Double Service Lateral and assembly, including all appurtenances, in place complete.	\$ 17,368	\$ 52,103
19	4	EA	Fire Hydrant, including all appurtenances, in place complete.	\$ 9,956	\$ 39,825
20	4	EA	2-1/2" Brass Cleanout and Riser, including all appurtenances, in place complete.	\$ 1,290	\$ 5,162
21	1	LS	Waterline to Existing 2" PVC Waterline at Sta. 6+88.0± o/s 39.39' LT, including all		\$ 7,426
22	1	LS	Connection of New 6" Ductile Iron Waterline to Existing 6" Cast Iron Waterline at Sta. 10+35.0± o/s 6.1' RT, including all appurtenances, in place complete.		\$ 21,733
23	1	LS	Connection of New 18" Ductile Iron Waterline to Existing 16" Asbestos Cement Waterline at Sta. 0+00, including all appurtenances, in place complete.		\$ 8,551
24	1	LS	to Existing 16" Asbestos Cement Waterline at Sta.15+22.6±, including all appurtenances, in		\$ 26,848
25	1	LS	Chlorination and flushing of water pipelines, including removal of temporary risers and incidental work, all in accordance with the specifications.		\$ 110,585
26	1	LS	Temporary traffic control.		\$ 260,745
			TOTAL SUM OFFER (Items 1 to 26 inclusive)		\$ 7,932,515

(Key: LS = lump sum, SF=square feet, CY= cubic yards, LF= lineal feet, EA= each, SY=square yards, Allow. =

PROJECT NOTES & BASIS OF COST ESTIMATE

J<u>UNO</u>

 PROJECT:
 KUHIO HIGHWAY (HARDY-OXFORD) 16" MAIN REPLACEMENT LIHUE WATER SYSTEM

 LOCATION:
 LIHUE, KAUAI, HAWAII
 PROJECT NO.: JOB NO. 18-03

 ARCHITECT:
 BELT COLLINS HAWAII LLC
 SUBMITTAL:
 FINAL DESIGN

 QTY BY:
 C. FUJIKI
 PRICES BY:
 H. GARCIA

 ESTIMATE NO.:
 18-056

 DATE:
 7/16/2024

 CHECKED BY:
 H. GARCIA

 DATE CHECKED:
 7/16/2024

PROJECT NOTES & BASIS OF COST ESTIMATE

BASIS OF ESTIMATE:

Project Type:	Replacement
Estimate Purpose:	Construction Budget Determination
Estimate Level:	Final Submittal
Method:	Quantity Take Off

ESTIMATING TEAM & QUALITY CONTROL:

Lead Estimator:	H. Garcia, CCP, Senior Estimator
Estimator(s):	C. Fujiki, Senior Estimator
Quality Control:	B. Katayama, Chief Estimator

SUBCONSULTANT ESTIMATES PROVIDED BY:

Civil - Sitework/ Imprv: J. Uno & Associates, Inc. Civil - Utilities: J. Uno & Associates, Inc.

REFERENCED DOCUMENTS:

Name of Drawings:	240606_Hardy-Oxford Plans
Level of Drawings:	Final Design
Provided By:	Belt Collins Hawaii LLC
Date Provided:	June 2024

CONTRACT & BIDDING ASSUMPTIONS:

Contract:Design-Bid-BuildBidding Situation:Non-restrictive, competitive bids from a minimum of 4 to 5 qualified prime contract bidders.
If the number of bidders amounts to less than this minimum amount, cost increases may occur.

CONSTRUCTION SCHEDULE & DURATION:

Bid Date:	October 1, 2025
Bid Award Date:	December 1, 2025
Construction Start Date	: March 1, 2026
Construction End Date:	August 1, 2026
Estimated Duration:	5 Months

COST BASIS:

Material Costs:	Based on historical local data & vendor quotes.
Labor Costs:	Prevailing wage union rates & fringe benefits.
Labor Productivity:	Based on historical local data & vendor quotes.
Equipment Costs:	Based on historical local data & vendor quotes.

MARKUPS:

Design Contingency:	Allowance to cover various construction cost increases due to design incompleteness and design and detail changes
Prime Contractor:	Prime contractor markups include field overhead, home office expenses, profit, bonds and insurance.
Sub Contractor(s):	Sub contractor markups include field overhead, home office expenses and profit.
Bonds & Insurances:	The estimate includes Bonds & Insurances.
Taxes:	The estimate includes Hawaii General Excise Tax (GET) on the overall contract amount.
Escalation to Midpoint:	The estimate includes Escalation to the Approximate Midpoint of Construction.

RECEIVED ON:

July 16, 2024 July 16, 2024

PROJECT NOTES & BASIS OF COST ESTIMATE

JUNO	
& ASSOCIATES	

KUHIO HIGHWAY (HARDY-OXFORD) 16" MAIN REPLACEMENT LIHUE WATER SYSTEM PROJECT: ESTIMATE NO.: 18-056 LOCATION: LIHUE, KAUAI, HAWAII PROJECT NO.: JOB NO. 18-03 DATE: 7/16/2024 BELT COLLINS HAWAII LLC ARCHITECT: SUBMITTAL: FINAL DESIGN CHECKED BY: H. GARCIA PRICES BY: H. GARCIA C. FUJIKI DATE CHECKED: 7/16/2024

PROJECT NOTES & BASIS OF COST ESTIMATE

ESTIMATE ASSUMPTIONS:

QTY BY:

Phasing:	Assume no phasing of project scope through construction.
Access Restrictions:	Assume no access restrictions to contractor throughout duration of work.
Workhours:	Assume all work within Kuhio Highway will be night work, Poinciana St. work will be during nomal working hours.
Geotechnical:	Assume existing soil retains adequate load bearing properties for the proposed foundations.
Labor:	Assume Oahu based labor with travel to Kauai weekly.
Environmental:	Assume no contaminated soils.

EXCLUDED COSTS:

- 1. Soft Costs
- 2. Furniture, Fixtures & Equipment (FF&E) Unless Otherwise Noted
- 3. Owner's Construction Contingency (Change Orders From Unforeseen Conditions)
- 4. Owner's Scope Contingency (Change Orders From Owner's Scope Changes)
- This estimate does not include cost adjustment factors related to the COVID-19 pandemic currently taking place throughout 5. the world. The effects of COVID-19 are changing daily at a rapid pace and are still being analyzed. Adjustments to the estimate may be made at a later date as more conclusive information is received from authorities and experts in the field.

GENERAL NOTE:

This estimate is an opinion of probable construction cost created by J. Uno & Associates, Inc. It is based on delivered information, documentation and prices assumed to be true, accurate and valid at the time of estimation. J. Uno & Associates uses proprietary procedures and formulae in producing this estimate, and it represents our experience and qualifications as construction cost professionals generally familiar with the industry in respective areas. This estimate makes no guarantee as to final quantities, specifications and prices of materials and procedures. Actual project costs are determined by variable market factors outside the scope of this estimate. J. Uno & Associates, Inc. shall not be held liable for design changes made after this estimate has been submitted, nor for errors and omissions not exposed during a normal design review process. The recipient of this estimate is urged to review it carefully and address any discrepancies. This estimate shall not be altered without prior consent from J. Uno & Associates.

		A	R	Е	А	A N	A	ALY	S	IS			
	PROJECT:	KUHIO HIGHWAY (HARI)Y-O)	(FOR	D) 16"	' MAIN RE	PLA	CEMENT	LIHU	E WATER SYSTE	Μ	ESTIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAWAII						PROJECT	NO.	: JOB NO. 18-03	3	DATE:	7/16/2024
	ARCHITECT:	BELT COLLINS HAWAII L	LC					SUBMIT	TAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI						PRICES B	Y:	H. GARCIA	C	ATE CHECKED:	7/16/2024
						E	NCL	.OSED		UNEN	CLOSED	TOTAL	AREA
	[DESCRIPTION				AREA		% FAC	FOR	AREA	% FACTOR	TOTAL	UOM
PROJECT A	PROJECT AREA												
KUHIO HIGHWAY REPAIRS			12,2	00	1	.00%	,)	50%	12,200	GSY			
POI	INCIANA STREI	ET REPAIRS				3,3	00	1	.00%	,)	50%	3,300	GSY
TO	TAL, SUPPORT	ING FACILITIES,										15,500	GSY

PROJECT AREA CALCULATION NOTES

SECONDARY FACILITIES

If the Secondary Facility is a structure, it is calculated using the ASF/ASM method for Primary Facilities above. For sitework and other unenclosed spaces, they are determined using a non-adjusted square foot (SF) or square meter (SM) method.

C	0 S	Т	A N A	LYS	S I S			
PROJECT: KUHIO HIGHWAY (HA	ARDY-OXFC	ORD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	1 E	STIMATE NO.:	18-056
IUNO LOCATION: LIHUE, KAUAI, HAWA	AII		I	PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
AASSOCIATES ARCHITECT: BELT COLLINS HAWA	II LLC		9	SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI			1	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
			MATERIA	AL/SUB	LABOR/	′EQPT	ТОТ	AL
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPROVEMENT</u>	<u>rs</u>							
02. DEMOLITION, INCLUDING DEMO OF AC PA	VEMENT							
DEMOLITION Sawcut and Remove Curbs and Sidewalks	363	sf			\$25.00	\$9,065	\$25.00	\$9,065
Cut and Cap Existing Piping	505	ea			\$23.00 \$510.00	\$9,005	\$23.00 \$510.00	\$ <i>9,</i> 005 \$2,550
Remove Manhole	1	ea			\$510.00 \$510.00	\$2,550	\$510.00 \$510.00	\$2,550 \$510
Remove 8" 1/4 Bend	1	ea			\$127.50	\$128	\$127.50	\$128
Remove Concrete Block	19	ea			\$170.00	\$3,230	\$170.00	\$3,230
Remove Fire Hydrants	3	ea			\$255.00	\$765	\$255.00	\$765
Hauling to Disposal	32	су			\$22.50	\$724	\$22.50	\$724
Disposal Fees	39	ton	\$119.00	\$4,598			\$119.00	\$4,598
ACM DEMOLITION								
Remove Exist. Piping, ACM	1,880	lf			\$127.50	\$239,700	\$127.50	\$239,700
Hauling to Oahu	97	су			\$270.00	\$26,236	\$270.00	\$26,236
Disposal Fees, ACM	117	ton	\$300.00	\$34,982			\$300.00	\$34,982
TEMPORARY EROSION & SEDIMENT CONTR	OL							
Compost Filter Sock	972	lf	\$16.00	\$15,552		\$2,203	\$18.27	\$17,755
Curb Inlet Protection	20	ea	\$125.00	\$2,500		\$1,700	\$210.00	\$4,200
Drain Inlet Protection	10	ea	\$80.00	\$800		\$1,275	\$207.50	\$2,075
Maintenance, Erosion Control	80	hr			\$170.00	\$13,600	\$170.00	\$13,600
SUBTOTAL, ESTIMATED DIRECT COST,							-	\$360,118
DIRECT MARKUPS LOCATION FACTOR							5.00%	\$18,006
DESIGN CONTINGENCY, SUBTOTAL, ESTIMATED DIRECT COST TO PRIME	-						-	\$378,124
	,							1,
PRIME CONTRACTOR MARKUPS							34 5504	604 402
PRIME CONTRACTOR'S JOOH,							21.55%	\$81,493
PRIME CONTRACTOR'S HOOH, PRIME CONTRACTOR'S PROFIT,							5.00% 10.00%	\$22,981 \$48,260
BOND,							0.50%	\$48,260 \$2,654
INSURANCE,							1.00%	\$5,335
G.E. TAX,							4.7120%	\$25,390
ESCALATION TO MOC,							8.98%	\$50,687
SUBTOTAL,	1	LS						\$614,925
								-

		C	O S	Т	A N A	L Y S	S I S			
	PROJECT:	KUHIO HIGHWAY (H	ARDY-OXFC	DRD) 16'	' MAIN REPLA	CEMENT LIHUE	WATER SYSTEM	I E	STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAW	411			PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAWA	AII LLC			SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI				PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERI	AL/SUB	LABOR /	EQPT	ТОТ	AL
	DESCRIPTIO	NC	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<u>03.</u> COLD	PLANING EXIS	RK/ IMPROVEMEN								
	<u>SURFACES</u> t Exist. AC Paver	mont	2,116	lf			\$11.00	\$23,276	\$11.00	\$23,276
		Pavement, 2" thk.	4,232	sy			\$11.00 \$12.50	\$52,900	\$12.50	\$23,270 \$52,900
	g to Disposal	avenient, 2 tink.	235	cy			\$22.50	\$5,290	\$22.50	\$5,290
Dispos	5 1		282	ton	\$119.00	\$33,574	•	+-)	\$119.00	\$33,574
DIRECT MA	ESTIMATED DI RKUPS NTINGENCY,	RECT COST,							-	\$115,040
		RECT COST TO PRIM	Ε,						-	\$115,040
-	ITRACTOR MAR								21.55%	\$24,793
	ITRACTOR'S HO								5.00%	\$6,992
	ITRACTOR'S PRO								10.00%	\$14,682
BOND,									0.50%	\$808
INSURANCE	,								1.00%	\$1,623
G.E. TAX,									4.7120%	\$7,725
ESCALATIO	Ν ΤΟ ΜΟϹ,								8.98%	\$15,421
SUBTOTAL,			4,232	SY					\$44.21	\$187,084

	C O S	Т	A N A	LYS	IS			
PROJECT: KUHIO HIGHWAY	(HARDY-OXF	ORD) 16	" MAIN REPLACI	EMENT LIHUE	WATER SYSTEM	1 E	STIMATE NO.:	18-056
IUNO LOCATION: LIHUE, KAUAI, HA	WAII		F	ROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
ARCHITECT: BELT COLLINS HA	WAII LLC		S	UBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI			F	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
			MATERIA	L/SUB	LABOR /	/ EQPT	ТОТ	AL
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPROVEMI</u> 04. 2" THICK AC PAVEMENT HOT MIX STAT								
PAVED SURFACES								
Haul Material to Site	578	су			\$20.42	\$11,796	\$20.42	\$11,796
Aggregate Subbase, 6" thk.	289	cy	\$40.00	\$11,556	\$110.00	\$31,778	\$150.00	\$43,333
Base Course, 6" thk.	289	су	\$45.00	\$13,000		\$47,667	\$210.00	\$60,667
Asphaltic Conc. Pavement, 4" thk., Trend	h 1,733	sy	\$85.00	\$147,333	\$28.06	\$48,630	\$113.06	\$195,963
Asphaltic Conc. Pavement, 2" thk.	1,766	sy	\$47.50	\$83,869	\$25.25	\$44,583	\$72.75	\$128,452
MARKING & SIGNAGE Pavement Markings, 4" Wide Pavement Markings, 12" Wide Crosswalk Markings, 12" Wide Pavement Arrow Simbol	3,129 10 150 10	lf ea lf ea	\$0.50 \$40.00 \$20.00 \$25.00	\$1,564 \$400 \$3,000 \$250	\$2.25 \$85.00 \$48.00 \$280.00	\$7,040 \$850 \$7,200 \$2,800	\$2.75 \$125.00 \$68.00 \$305.00	\$8,604 \$1,250 \$10,200 \$3,050
Blue Reflective Marking SUBTOTAL, ESTIMATED DIRECT COST,	9	ea	\$40.00	\$360	\$85.00	\$765	\$125.00 _	\$1,125 \$452,644
DIRECT MARKUPS LOCATION FACTOR, MATERIALS DESIGN CONTINGENCY, SUBTOTAL, ESTIMATED DIRECT COST TO PR	ME,						5.00% _	\$13,067 \$465,711
PRIME CONTRACTOR MARKUPS PRIME CONTRACTOR'S JOOH, PRIME CONTRACTOR'S HOOH, PRIME CONTRACTOR'S PROFIT, BOND, INSURANCE, G.E. TAX, ESCALATION TO MOC, SUBTOTAL,	3,499	SY					21.55% 5.00% 10.00% 0.50% 1.00% 4.7120% 8.98% \$216.45	\$100,370 \$28,304 \$59,438 \$3,269 \$6,571 \$31,272 \$62,428 \$757,364

	C O S	Т	A N A	L Y S	IS			
PROJECT: KUHIO HIC	GHWAY (HARDY-OXF	ORD) 16	" MAIN REPLACI	EMENT LIHUE	WATER SYSTEM	1 E	STIMATE NO.:	18-056
LUNO LOCATION: LIHUE, KA	JAI, HAWAII		F	ROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
	INS HAWAII LLC		S	UBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI			F	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
			MATERIA		LABOR /		ТОТ	
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPRO</u>	VEMENTS							
05. 2" THICK AC PAVEMENT HOT MI	<u>STATE MIX V</u>							
PAVED SURFACES								
Haul Material to Site	122	су			\$20.42	\$2,494	\$20.42	\$2,494
Base Course, 6" thk.	122	су	\$45.00	\$5 <i>,</i> 498	\$165.00	\$20,158	\$210.00	\$25 <i>,</i> 655
Asphaltic Concrete Pavement, 2"	:hk. 733	sy	\$37.50	\$27,488	\$25.25	\$18,508	\$62.75	\$45,996
MARKING & SIGNAGE								
Pavement Markings, 4" Wide	201	lf	\$0.50	\$101	\$2.25	\$453	\$2.75	\$554
Pavement Markings, 12" Wide	8	ea	\$40.00	\$320	\$85.00	\$680	\$125.00	\$1,000
Crosswalk Markings, 12" Wide	150	lf	\$20.00	\$3,000	\$48.00	\$7,200	\$68.00	\$10,200
Pavement Arrow Simbol	5	ea	\$25.00	\$125	\$280.00	\$1,400	\$305.00	\$1,525
Blue Reflective Marking	2	ea	\$40.00	\$80	\$85.00	\$170	\$125.00	\$250
SUBTOTAL, ESTIMATED DIRECT COST,							-	\$85,179
DIRECT MARKUPS LOCATION FACTOR, MATERIALS DESIGN CONTINGENCY, SUBTOTAL, ESTIMATED DIRECT COST	TO PRIME,						5.00% -	\$1,831 \$87,010
PRIME CONTRACTOR MARKUPS PRIME CONTRACTOR'S JOOH, PRIME CONTRACTOR'S HOOH, PRIME CONTRACTOR'S PROFIT, BOND, INSURANCE, G.E. TAX, ESCALATION TO MOC, SUBTOTAL,	733	SY					21.55% 5.00% 10.00% 1.00% 4.7120% 8.98% \$193.04	\$18,752 \$5,288 \$11,105 \$611 \$1,228 \$5,843 \$11,664 \$141,500

		C	0 S	Т	A N A	LYS	IS			
	PROJECT:	KUHIO HIGHWAY (HA	RDY-OXFC	DRD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	1 E	STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAWAI	I			PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAWAI	I LLC			SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI				PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERI	AL/SUB	LABOR,	/ EQPT	Т О Т	ΓA L
	DESCRIPTI	ON	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
		RK/ IMPROVEMENT	<u>s</u>							
	ION EXCAVATIO									
	n Excavation, 30		1,356	су			\$110.00	\$149,187	\$110.00	\$149,187
Tempo	orary Shoring		1	ls	\$5,000.00	\$5,000	\$20,000.00	\$20,000	\$25,000.00	\$25,000
Haul E	xcess, Assume N	lon Hazmat	1,356	су			\$30.83	\$41,818	\$30.83	\$41,818
	BORROW Naterial to Site		558 558	cy cy	\$55.00	\$30,714	\$22.50 \$71.00	\$12,565 \$39,649	\$22.50 \$126.00	\$12,565 \$70,363
		th Material (CLSM)	927	су	\$180.00	\$166,777	\$118.33	\$109,640	\$298.33	\$76,303 \$276,417
	ng Tape, 6" Wid		1,553	lf	\$0.25	\$388	\$1.70	\$2,641	\$1.95	\$3,029
	prary AC Paveme		592	sy	\$45.00	\$26,653	\$35.00	\$20,730	\$80.00	\$47,382
	<u>R DISTRIBUTION</u> h Ductile Iron Pi	-	1,553	lf	\$1,101.53	\$1,711,179	\$85.00	\$132,044	\$1,186.53	\$1,843,223
SUBTOTAL,	, ESTIMATED DI	RECT COST,								\$2,468,984
DESIGN CO	FACTOR, MATEI	RIALS RECT COST TO PRIME							5.00%	\$97,036 \$2,566,019
PRIME CON	NTRACTOR MAR	<u>RKUPS</u>								
	NTRACTOR'S JOC	,							21.55%	\$553,029
	NTRACTOR'S HO								5.00% 10.00%	\$155,952 \$327 500
BOND,	VINACION S PRO	JEIT,							0.50%	\$327,500 \$18,013
INSURANCE	F								1.00%	\$18,013 \$36,205
G.E. TAX,	-,								4.7120%	\$172,305
	N TO MOC,								8.98%	\$343,974
SUBTOTAL,	,		1,523	LF						\$4,172,997
· · · · · · · · · · · · · · · · · · ·	•		_,•						, =,	, ,,-,-,-

C O S T A N A L Y S I S PROJECT: KUHIO HIGHWAY (HARDY-OXFORD) 16" MAIN REPLACEMENT LIHUE WATER SYSTEM ESTIMATE NO.: Description DATE: ACHITECT: BELT COLLINS HAWAII LLC SUBBITIAL: FINAL DESIGN CHECKED BY: QTY BY: C. FUJIKI PROJECT NO.: JUNIT COST TOTAL DATE CHECKED DESCRIPTION QTY UNIT MATERIAL / SUB LABOR / EQPT TOTAL DESCRIPTION QTY UNIT MATERIAL / SUB LABOR / EQPT TOTAL DESCRIPTION QTY UNIT MATERIAL / SUB LABOR / EQPT TOTAL INIT COST TOTAL UNIT COST TOTAL UNIT COST TOTAL UNIT COST COMMON EXCAVATION Trench Excavation, 24" Wide 32 cy \$10.00 \$3,466 \$110.00 Temporary Shoring 1 Is \$2,000.00 \$2,000 \$8,000.00 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy<	TOTAL \$3,466
ARCHITECT: BELT COLLINS HAWAII LLC SUBMITTAL: FINAL DESIGN CHECKED BY: QTY BY: C. FUJIKI PRICES BY: H. GARCIA DATE CHECKED: DESCRIPTION QTY UNIT MATERIAL/SUB LABOR/EQPT TOTAL UNIT COST TOTAL UNIT COST TOTAL UNIT COST TOTAL UNIT COST CS CIVIL - SITEWORK/ IMPROVEMENTS COMMON EXCAVATION Trench Excavation, 24" Wide 32 cy \$110.00 \$3,466 \$110.00 Temporary Shoring 1 is \$2,000.00 \$2,000 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$30.83 \$971 \$30.83 FILL & BORROW Haul Material to Site 31 cy \$255.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$889 \$126.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Tem	H. GARCIA 7/16/2024 T A L TOTAL \$3,466
ARCHITECT: BELT COLLINS HAWAII LLC SUBMITTAL: FINAL DESIGN CHECKED BY: QTY BY: C. FUJIKI PRICES BY: H. GARCIA DATE CHECKED: DESCRIPTION QTY UNIT MATERIAL/SUB LABOR / EQPT T.O.T C(S) CIVIL - SITEWORK/ IMPROVEMENTS MATERIAL/SUB LABOR / EQPT T.O.T OT 16" DUCTILE IRON PIPE WATERLINE, CL. 52 COMMON EXCAVATION Trench Excavation, 24" Wide 32 cy \$110.00 \$3,466 \$110.00 Temporary Shoring 1 Is \$2,000.00 \$2,000 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$30.83 \$971 \$30.83 FILL & BORROW Haul Material to Site 31 cy \$255.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$388 \$71.00 \$889 \$126.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pav	7/16/2024 T A L TOTAL \$3,466
DESCRIPTION QTY MATERIAL/SUB LABOR/EQPT TOT UNIT UNIT UNIT COST TOTAL UNIT COST TOTAL UNIT COST (CS) CIVIL - SITEWORK/ IMPROVEMENTS UNIT COST TOTAL UNIT COST TOTAL UNIT COST (CS) CIVIL - SITEWORK/ IMPROVEMENTS COMMON EXCAVATION Trench Excavation, 24" Wide 32 cy \$110.00 \$3,466 \$110.00 Trench Excavation, 24" Wide 32 cy \$100.00 \$3,466 \$110.00 Temporary Shoring 1 Is \$2,000.00 \$2,000 \$8,000.00 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$30.83 \$971 \$30.83 FILL & BORROW Haul Material to Site 31 cy \$22.50 \$701 \$22.50 Pipe Cushion 13 cy \$45.00 \$838 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1,322 \$116.00	<u>F A L</u> TOTAL \$3,466
DESCRIPTION QTY UNIT UNIT COST TOTAL UNIT COST TOTAL UNIT COST (CS) CIVIL - SITEWORK/ IMPROVEMENTS 07. 16" DUCTILE IRON PIPE WATERLINE, CL. 52 COMMON EXCAVATION Trench Excavation, 24" Wide 32 cy \$110.00 \$3,466 \$110.00 Temporary Shoring 1 Is \$2,000.00 \$2,000 \$8,000.00 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$30.83 \$971 \$30.83 FILL & BORROW Haul Material to Site 31 cy \$22.50 \$701 \$22.50 Pipe Cushion 13 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1,322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$3,834 \$1,042.64	TOTAL \$3,466
(CS) CIVIL - SITEWORK/ IMPROVEMENTS 07. 16" DUCTILE IRON PIPE WATERLINE, CL. 52 COMMON EXCAVATION Trench Excavation, 24" Wide 32 cy \$110.00 \$3,466 \$110.00 Temporary Shoring 1 is \$2,000.00 \$2,000 \$8,000.00 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$30.83 \$971 \$30.83 FILL & BORROW Haul Material to Site 31 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Pipe Cushion 13 cy \$55.00 \$689 \$71.00 \$1,322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$71.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	\$3,466
O7. 16" DUCTILE IRON PIPE WATERLINE, CL. 52 COMMON EXCAVATION Trench Excavation, 24" Wide 32 cy \$110.00 \$3,466 \$110.00 Temporary Shoring 1 Is \$2,000.00 \$2,000 \$8,000.00 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$2000 \$2,000 \$8,000 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$2000 \$22.50 \$701 \$30.83 FILL & BORROW Haul Material to Site 31 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1.322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	. ,
Trench Excavation, 24" Wide 32 cy \$10.00 \$3,466 \$110.00 Temporary Shoring 1 Is \$2,000.00 \$8,000.00 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$2,000 \$8,000.00 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$200 \$8,000.00 \$8,000 \$10,000.00 Haul Material to Site 31 cy \$22.50 \$701 \$22.50 Pipe Cushion 13 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1,322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$3,834 \$1,042.64 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	. ,
Temporary Shoring 1 Is \$2,000 \$8,000.00 \$8,000 \$10,000.00 Haul Excess, Assume Non Hazmat 32 cy \$30.83 \$971 \$30.83 FILL & BORROW 31 cy \$22.50 \$701 \$22.50 Pipe Cushion 13 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$13,222 \$116.00 Warning Tape, 6" Wide 45 If \$0.255 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$71.8 \$35.00 \$3,834 \$1,042.64	. ,
Haul Excess, Assume Non Hazmat 32 cy \$30.83 \$971 \$30.83 FILL & BORROW Haul Material to Site 31 cy \$22.50 \$701 \$22.50 Pipe Cushion 13 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1,322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	
FILL & BORROW Haul Material to Site 31 cy \$22.50 \$701 \$22.50 Pipe Cushion 13 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1,322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	\$10,000
Haul Material to Site 31 cy \$22.50 \$701 \$22.50 Pipe Cushion 13 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1,322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	\$971
Pipe Cushion 13 cy \$55.00 \$689 \$71.00 \$889 \$126.00 Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1,322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$71.8 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	
Backfill, Import 19 cy \$45.00 \$838 \$71.00 \$1,322 \$116.00 Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	\$701
Warning Tape, 6" Wide 45 If \$0.25 \$11 \$1.70 \$77 \$1.95 Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	\$1,579
Temporary AC Pavement, 2" thk. 16 sy \$45.00 \$718 \$35.00 \$558 \$80.00 WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	\$2,160
WATER DISTRIBUTION 16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	\$88
16-inch Ductile Iron Pipe, Class 52 45 If \$957.64 \$43,190 \$85.00 \$3,834 \$1,042.64	\$1,276
SUBTOTAL, ESTIMATED DIRECT COST,	\$47,023
	\$67,263
DIRECT MARKUPS LOCATION FACTOR, MATERIALS 5.00% DESIGN CONTINGENCY,	\$2,372
SUBTOTAL, ESTIMATED DIRECT COST TO PRIME,	\$69,635
PRIME CONTRACTOR MARKUPS	
PRIME CONTRACTOR'S JOOH, 21.55%	\$15,008
PRIME CONTRACTOR'S HOOH, 5.00%	\$4,232
PRIME CONTRACTOR'S PROFIT, 10.00%	\$8,887
BOND, 0.50%	\$489
INSURANCE, 1.00%	\$983
G.E. TAX, 4.7120%	\$4,676
ESCALATION TO MOC, 8.98%	\$9,335
SUBTOTAL, 41 LF \$2,762.05	\$113,244

C	0 S	Т	A N A	LYS	I S			
PROJECT: KUHIO HIGHWAY (HAF	RDY-OXFC	DRD) 16	" MAIN REPLACE	MENT LIHUE	WATER SYSTEM	E	STIMATE NO.:	18-056
IUNO LOCATION: LIHUE, KAUAI, HAWAII			Р	ROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
ARCHITECT: BELT COLLINS HAWAII	LLC		S	UBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI			Р	RICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
			MATERIA		LABOR /	EQPT	тот	
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPROVEMENTS</u>	<u>i</u>							
08. <u>6" DUCTILE IRON PIPE WATERLINE, CL. 52</u>								
<u>COMMON EXCAVATION</u> Trench Excavation, 24" Wide	101	CV/			\$103.75	\$10,444	\$103.75	\$10,444
Temporary Shoring	101	cy Is	\$2,000.00	\$2,000	\$103.75		\$10,000.00	\$10,444 \$10,000
Haul Excess, Assume Non Hazmat	101	су	\$2,000.00	<i>γ</i> 2,000	\$8,000.00 \$22.50	\$2,265	\$10,000.00 \$22.50	\$2,265
had Excess, Assume Non Huzmat	101	Cy			<i>J22.50</i>	<i>72,203</i>	<i>Ç22.50</i>	<i>72,203</i>
FILL & BORROW								
Haul Material to Site	84	су			\$20.42	\$1,718	\$20.42	\$1,718
Pipe Cushion	40	су	\$55.00	\$2,202	\$66.00	\$2,642	\$121.00	\$4,843
Controlled Low Strength Material (CLSM)	44	су	\$180.00	\$7,939	\$110.00	\$4,851	\$290.00	\$12,790
Backfill, Import	60	су	\$45.00	\$2,713	\$66.00	\$3,978	\$111.00	\$6,691
Temporary AC Pavement, 2" thk.	51	sy	\$45.00	\$2,293	\$35.00	\$1,783	\$80.00	\$4,076
WATER DISTRIBUTION								
6-inch Ductile Iron Pipe, Class 52	144	lf	\$266.04	\$38,337	\$17.00	\$2,450	\$283.04	\$40,786
Reinforced Concrete Jacket	6	lf	\$30.00	\$180	\$35.00	\$210	\$65.00	\$390
SUBTOTAL, ESTIMATED DIRECT COST,							-	\$94,003
DIRECT MARKUPS LOCATION FACTOR, MATERIALS DESIGN CONTINGENCY,							5.00%	\$2,783
SUBTOTAL, ESTIMATED DIRECT COST TO PRIME,								\$96,787
PRIME CONTRACTOR MARKUPS PRIME CONTRACTOR'S JOOH,							21.55%	\$20,859
PRIME CONTRACTOR'S HOOH,							5.00%	\$5,882
PRIME CONTRACTOR'S PROFIT,							10.00%	\$12,353
BOND,							0.50%	\$679
INSURANCE,							1.00%	\$1,366
G.E. TAX,							4.7120%	\$6,499
ESCALATION TO MOC,							8.98%	\$12,974
SUBTOTAL,	131	LF					\$1,201.52	\$157,399

		C	0 S	Т	A N A	L Y S	I S			
	PROJECT:	KUHIO HIGHWAY (HA	ARDY-OXFC	DRD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	/ E	STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAWA	JI			PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAWA	II LLC		:	SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI				PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERIA	AL/SUB	LABOR	/ EQPT	ТОТ	
	DESCRIPTI	ION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
		RK/ IMPROVEMENT								
		IDE WATERLINE, SCH.	80							
	ION EXCAVATIO Excavation, 12		5	су			\$103.75	\$507	\$103.75	\$507
	orary Shoring	wide	1	ls	\$200.00	\$200	\$500.00	\$507	•	\$307 \$700
Haul Ex			1 5	су	¢200.00	<i>γ</i> 200	\$300.00 \$22.50	\$300 \$110	•	\$700 \$110
Tidul L	ACE33		J	Cy			JZZ.JU	ŞIIO	ŞZZ.30	Ĵ110
FILL &	BORROW									
	laterial to Site		5	су			\$20.42	\$100	\$20.42	\$100
Pipe Cu	ushion		2	cy	\$55.00	\$136	\$66.00	\$163	\$121.00	\$299
Contro	lled Low Streng	gth Material (CLSM)	2	cy	\$180.00	\$436	\$110.00	\$266	\$290.00	\$702
Tempo	orary AC Pavem	ent, 2" thk.	13	sy	\$45.00	\$600	\$35.00	\$467	\$80.00	\$1,067
\ \ /\\TE	R DISTRIBUTION									
	Waterline, SCF		40	lf	\$5.75	\$230	\$8.50	\$340	\$14.25	\$570
SUBTOTAL,	ESTIMATED DI	IRECT COST,							-	\$4,054
DESIGN CO	FACTOR, MATE NTINGENCY,	RIALS I RECT COST TO PRIME	.,						5.00% _	\$80 \$4,134
										1 00 -
	ITRACTOR'S JO	,							21.55%	\$891
	ITRACTOR'S HO								5.00%	\$251 ¢528
BOND,	ITRACTOR'S PR	Uril,							10.00% 0.50%	\$528 \$29
INSURANCE	-								1.00%	\$29 \$58
G.E. TAX,	-,								4.7120%	\$38 \$278
ESCALATIO									8.98%	\$554
SUBTOTAL,			40	LF					\$168.08	\$6,723

		C	O S	Т	A N A	L Y S	I S			
	PROJECT:	KUHIO HIGHWAY (H	IARDY-OXFO	DRD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	M E	STIMATE NO.:	18-056
LUNO	LOCATION:	LIHUE, KAUAI, HAW	All		1	PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAW	AII LLC		5	SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI			1	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERIA	AL/SUB	LABOR	/ EQPT	тот	AL
	DESCRIPTIO	NC	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
10. DUCTII FITTING 18" 16" 6" SUBTOTAL, DIRECT MA	LE IRON FITTING 35 ESTIMATED DI RKUPS	RECT COST,	<u>TS</u> 1 1 1	ls Is Is	\$256,677 \$6,478 \$5,750.49	\$256,677 \$6,478 \$5,750	\$510 \$510 \$510.00	\$510 \$510 \$510	\$257,187 \$6,988 \$6,260.49 -	\$257,187 \$6,988 \$6,260 \$270,436
DESIGN CO	FACTOR, MATER NTINGENCY, ESTIMATED DI	RIALS RECT COST TO PRIM	E,						5.00% -	\$13,445 \$283,881
PRIME CON PRIME CON	N TO MOC,)Н, ОН,	1	LS					21.55% 5.00% 10.00% 0.50% 1.00% 4.7120% 8.98%	\$61,182 \$17,253 \$36,232 \$1,993 \$4,005 \$19,062 \$38,054 \$461,663

C	0 S	Т	A N A	L Y S	IS			
PROJECT: KUHIO HIGHWAY (HA	ARDY-OXFO	DRD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	1 E	STIMATE NO.:	18-056
UNO LOCATION: LIHUE, KAUAI, HAWA	411		F	PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
ARCHITECT: BELT COLLINS HAWA	AII LLC		9	SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI			F	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
			MATERIA	-	LABOR		тот	
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPROVEMEN</u>	<u>TS</u>							
11. 18" RESILIENT WEDGE GATE VALVE WATER DISTRIBUTION 18"	5	еа	\$15,045.75	\$75,229	\$1,020.00	\$5,100	\$16,065.75	\$80,329
			. ,	. ,	. ,	. ,	-	
SUBTOTAL, ESTIMATED DIRECT COST,								\$80,329
DIRECT MARKUPS LOCATION FACTOR, MATERIALS DESIGN CONTINGENCY,							5.00%	\$3,761
SUBTOTAL, ESTIMATED DIRECT COST TO PRIMI	Ε,						-	\$84,090
PRIME CONTRACTOR MARKUPS PRIME CONTRACTOR'S JOOH,							21.55%	\$18,123
PRIME CONTRACTOR'S HOOH,							5.00%	\$5,111
PRIME CONTRACTOR'S PROFIT,							10.00%	\$10,732
BOND,							0.50%	\$590
INSURANCE,							1.00%	\$1,186
G.E. TAX,							4.7120%	\$5,647
ESCALATION TO MOC,							8.98%	\$11,272
SUBTOTAL,	5	EA					\$27,350.39	\$136,752
12. 16" RESILIENT WEDGE GATE VALVE								
WATER DISTRIBUTION								
16" Gate Valve w/ Valve Box	2	ea	\$10,463.85	\$20,928	\$510.00	\$1,020	\$10,973.85	\$21,948
SUBTOTAL, ESTIMATED DIRECT COST,							-	\$21,948
DIRECT MARKUPS LOCATION FACTOR, MATERIALS							5.00%	\$1,046
DESIGN CONTINGENCY, SUBTOTAL, ESTIMATED DIRECT COST TO PRIMI	Ε,						-	\$22,994
PRIME CONTRACTOR MARKUPS								
PRIME CONTRACTOR'S JOOH,							21.55%	\$4,956
PRIME CONTRACTOR'S HOOH,							5.00%	\$1,397
PRIME CONTRACTOR'S PROFIT,							10.00%	\$2,935
BOND,							0.50%	\$161
INSURANCE, G.E. TAX,							1.00% 4.7120%	\$324 \$1,544
ESCALATION TO MOC,							4.7120/0	44 <i>ر</i> 1,344
SUBTOTAL,	2	EA					\$17,155.93	\$34,312

		C	C S	Т	A N A	LYS	i I S			
	PROJECT:	KUHIO HIGHWAY (H	IARDY-OXFO	DRD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	M E	STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAW	All			PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAW	AII LLC			SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI				PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERI	AL/SUB	LABOR	/ EQPT	T 0 T	Γ Α L
	DESCRIPTI	ON	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<u>13.</u> <u>8" GA</u> <u>WATEI</u>			1	ea	\$1,587.75	\$1,588	\$510.00	\$510	\$2,097.75	\$2,098
SUBTOTAL,	, ESTIMATED DI	RECT COST,							-	\$2,098
DESIGN CO	FACTOR, MATER	RIALS RECT COST TO PRIM	IE,						5.00%	\$79 \$2,177
PRIME CON PRIME CON PRIME CON BOND, INSURANCE G.E. TAX,	N TO MOC,)н, ОН,	1	EA					21.55% 5.00% 10.00% 1.00% 4.7120% 8.98% \$3,540.58	\$469 \$132 \$278 \$15 \$31 \$146 \$292 \$3,541

C	0 S	Т	A N A	LYS	S I S			
PROJECT: KUHIO HIGHWAY (H	IARDY-OXF	DRD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	1 E	STIMATE NO.:	18-056
LUNO LOCATION: LIHUE, KAUAI, HAW	All			PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
ARCHITECT: BELT COLLINS HAW	AII LLC				FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI		1		PRICES BY:	H. GARCIA		ATE CHECKED:	7/16/2024
DESCRIPTION	QTY	UNIT	MATERIA UNIT COST	AL/SUB TOTAL	LABOR, UNIT COST	TOTAL	T O T UNIT COST	A L TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPROVEMEN</u> 14. <u>6" GATE VALVE</u>	<u>TS</u>							
<u>WATER DISTRIBUTION</u> 6" Gate Valve w/ Valve Box	4	ea	\$897.75	\$3,591	\$318.75	\$1,275	\$1,216.50	\$4,866
SUBTOTAL, ESTIMATED DIRECT COST,							-	\$4,866
DIRECT MARKUPS LOCATION FACTOR, MATERIALS DESIGN CONTINGENCY,							5.00%	\$180
SUBTOTAL, ESTIMATED DIRECT COST TO PRIM	Ε,						-	\$5,046
PRIME CONTRACTOR MARKUPS PRIME CONTRACTOR'S JOOH,							21.55%	\$1,087
PRIME CONTRACTOR'S HOOH,							5.00%	\$307
PRIME CONTRACTOR'S PROFIT, BOND,							10.00% 0.50%	\$644 \$35
INSURANCE,							1.00%	\$35 \$71
G.E. TAX,							4.7120%	\$339
ESCALATION TO MOC,							8.98%	\$676
SUBTOTAL,	4	EA					\$2,051.34 	\$8,205
15. 2" GATE VALVE WATER DISTRIBUTION								
2" Gate Valve w/ Valve Box	1	ea	\$591.30	\$591	\$318.75	\$319	\$910.05	\$910
SUBTOTAL, ESTIMATED DIRECT COST,							-	\$910
DIRECT MARKUPS LOCATION FACTOR, MATERIALS DESIGN CONTINGENCY,							5.00%	\$30
SUBTOTAL, ESTIMATED DIRECT COST TO PRIM	Ε,						-	\$940
PRIME CONTRACTOR MARKUPS PRIME CONTRACTOR'S JOOH,							21.55%	\$203
PRIME CONTRACTOR'S HOOH,							5.00%	\$57
PRIME CONTRACTOR'S PROFIT,							10.00%	\$120
BOND,							0.50%	\$7
INSURANCE,							1.00%	\$13
G.E. TAX, ESCALATION TO MOC,							4.7120%	\$63
SUBTOTAL,	1	EA					-	\$1,402

		C	O S	Т	A N A	LYS	I S			
	PROJECT:	KUHIO HIGHWAY (H	IARDY-OXFO	ORD) 16'	" MAIN REPLA	CEMENT LIHUE	WATER SYSTEI	M E	STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAW	All			PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAW	AII LLC			SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI				PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERI	AL/SUB	LABOR	/ EQPT	Т О Т	AL
	DESCRIPTI	ON	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
16. 1" AIR WATE Air Rel SUBTOTAL	R DISTRIBUTION R DISTRIBUTION lease Valve, 1" ., ESTIMATED DI	RECT COST,	<u>TS</u> 2	еа	\$877.50	\$1,755	\$318.75	\$638	\$1,196.25	\$2,393 \$2,393 \$2,393 \$88
	NTINGENCY,								5.0070	çõõ
	,	RECT COST TO PRIM	Ε,							\$2,480
PRIME CON PRIME CON PRIME CON BOND, INSURANCI G.E. TAX,	N TO MOC,)н, ОН,	2	EA					21.55% 5.00% 10.00% 0.50% 1.00% 4.7120% 8.98% \$2,016.76	\$535 \$151 \$317 \$17 \$35 \$167 \$332 \$4,034

C	0 S	Т	A N A	LYS	I S			
PROJECT: KUHIO HIGHWAY (H	ARDY-OXFC	DRD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	I E	STIMATE NO.:	18-056
IUNO LOCATION: LIHUE, KAUAI, HAW		•			JOB NO. 18-03		DATE:	7/16/2024
ASSOCIATES ARCHITECT: BELT COLLINS HAWA	AII LLC		9	SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI			I	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
			MATERIA	L/SUB	LABOR /	EQPT	ТОТ	AL
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPROVEMEN</u>	<u>TS</u>							
17. SINGLE SERVICE LATERAL AND ASSEMBLY								
TRENCHING AND BACKFILL								
Trench Excavation	77	су			\$103.75	\$7,993	\$103.75	\$7,993
Temporary Shoring	1	ls	\$500.00	\$500	\$5,000.00	\$5,000	\$5,500.00	\$5,500
Haul Material to Site	77	су	¢55 00	ć0.47	\$20.42	\$1,573	\$20.42	\$1,573
Pipe Cushion	15	су	\$55.00	\$847 \$2,772	\$66.00	\$1,017	\$121.00	\$1,864
Backfill, Import Haul Excess	62 77	су	\$45.00	\$2,773	\$66.00 \$22.50	\$4,068 \$1,733	\$111.00 \$22.50	\$6,841 \$1,733
Restore Curbs and Sidewalks	300	cy sf	\$12.00	\$3,595	\$22.50 \$31.67	\$1,755 \$9,487	\$22.50 \$43.67	\$1,755
Restore Curbs and Sidewarks	500	31	Ş12.00	JJ,JJJ	\$51.07	<i>,</i> ,407	Ş 4 5.07	J13,005
LATERALS RECONNECTIONS								
Lateral Reconnections	13	ea	\$1,200.00	\$15,600	\$510.00	\$6,630	\$1,710.00	\$22,230
Lateral Piping, 1"	520	lf	\$45.00	\$23,400	\$10.20	\$5,304	\$55.20	\$28,704
SUBTOTAL, ESTIMATED DIRECT COST,							-	\$89,520
<u>DIRECT MARKUPS</u> LOCATION FACTOR, MATERIALS DESIGN CONTINGENCY,							5.00%	\$2,336
SUBTOTAL, ESTIMATED DIRECT COST TO PRIM	Ε,						-	\$91,856
PRIME CONTRACTOR MARKUPS								
PRIME CONTRACTOR'S JOOH,							21.55%	\$19,797
PRIME CONTRACTOR'S HOOH,							5.00%	\$5,583
PRIME CONTRACTOR'S PROFIT,							10.00%	\$11,724
BOND,							0.50%	\$645
INSURANCE,							1.00%	\$1,296
G.E. TAX,							4.7120%	\$6,168
ESCALATION TO MOC,							8.98%	\$12,313
SUBTOTAL,	13	LS					\$11,490.89	\$149,382

		C	0 S	Т	A N A	LYS	I S			
	PROJECT:	KUHIO HIGHWAY (H	ARDY-OXFC	ORD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	1 E	STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAW	AII	-		PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAW	AII LLC			SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI				PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERI	AL/SUB	LABOR/	′EQPT	тот	AL
	DESCRIPTI	ON	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<u>(CS)</u> <u>CI</u>	VIL - SITEWOI	RK/ IMPROVEMEN	<u>TS</u>							
<u>18.</u> DOUBL	LE SERVICE LAT	ERAL AND ASSEMBL	<u>Y</u>							
	HING AND BAC	<u>KFILL</u>								
	Excavation		36	су			\$103.75	\$3,689	\$103.75	\$3,689
	orary Shoring		1	ls	\$500.00	\$500	\$5,000.00	\$5,000	\$5,500.00	\$5,500
	laterial to Site		36	су	4== 0.0	4004	\$20.42	\$726	\$20.42	\$726
Pipe Cu			7	су	\$55.00	\$391	\$66.00	\$469	\$121.00	\$860
	l, Import		28	су	\$45.00	\$1,280	\$66.00	\$1,877	\$111.00	\$3,157
Haul E>			36	cy	¢12.00	ά τ ες	\$22.50	\$800	\$22.50	\$800 \$2,751
Restore	e Curbs and Sid	ewalks	63	sf	\$12.00	\$756	\$31.67	\$1,995	\$43.67	\$2,751
LATERA	ALS RECONNEC	TIONS								
Lateral	Reconnections	5	3	ea	\$1,500.00	\$4,500	\$510.00	\$1,530	\$2,010.00	\$6 <i>,</i> 030
Lateral	Piping, 1-1/2"		120	lf	\$55.00	\$6,600	\$10.20	\$1,224	\$65.20	\$7,824
SUBTOTAL,	ESTIMATED DI	RECT COST,							-	\$31,338
DIRECT MA	RKUPS FACTOR, MATE	RIALS							5.00%	\$701
	NTINGENCY,								0100/0	ψ, o Ξ
		RECT COST TO PRIM	Ε,						-	\$32,039
	ITRACTOR MAR								21.55%	\$6,905
	ITRACTOR'S JOC								5.00%	\$6,905 \$1,947
	ITRACTOR'S NO								10.00%	\$1,947 \$4,089
BOND,		,							0.50%	\$225
INSURANCE	<u>,</u>								1.00%	\$452
G.E. TAX,									4.7120%	\$2,151
ESCALATIO	N TO MOC,								8.98%	\$4,295
SUBTOTAL,			3	LS					\$17,367.81	\$52,103

		C	0 S	Т	A N A	LYS	I S			
	PROJECT: K	UHIO HIGHWAY (H	ARDY-OXFC	DRD) 16	" MAIN REPLACE	EMENT LIHUE	WATER SYSTEM	VI E	STIMATE NO.:	18-056
IUNO	LOCATION: LI	HUE, KAUAI, HAWA	AII		F	ROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT: BI	ELT COLLINS HAWA	II LLC		S	UBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY: C.	. FUJIKI			F	PRICES BY:	H. GARCIA	D/	ATE CHECKED:	7/16/2024
					MATERIA		LABOR	-	ТОТ	
	DESCRIPTION		QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<u>(CS)</u> <u>C</u>	IVIL - SITEWORK/	IMPROVEMEN	<u>rs</u>							
<u>19.</u> <u>FIRE H</u> FIRE H	IYDRANT IYDRANTS									
	ydrant Assembly, 4.0	ט'	1	ea	\$3,437.50	\$3,438	\$1,020.00	\$1,020	\$4,457.50	\$4,458
Fire Hy	ydrant Assembly, 6.5	5'	2	ea	\$3,987.50	\$7,975	\$1,020.00	\$2,040	\$5,007.50	\$10,015
Fire Hy	ydrant Assembly, 7'		1	ea	\$4,125.00	\$4,125	\$1,020.00	\$1,020	\$5,145.00	\$5,145
Fire Hy	ydrant Marker		4	ea	\$144.00	\$576	\$85.00	\$340	\$229.00	\$916
Fire Hy	ydrant Extension Pie	ece	4	ea	\$588.00	\$2 <i>,</i> 352	\$170.00	\$680	\$758.00	\$3,032
SUBTOTAL	, ESTIMATED DIREC	T COST,							-	\$23,566
	<mark>ARKUPS</mark> FACTOR, MATERIAL DNTINGENCY,	S							5.00%	\$923
SUBTOTAL	, ESTIMATED DIREC	T COST TO PRIMI	Ξ,						-	\$24,489
PRIME CON	NTRACTOR MARKUI	<u>PS</u>								
PRIME CON	NTRACTOR'S JOOH,								21.55%	\$5,278
PRIME CON	NTRACTOR'S HOOH,								5.00%	\$1,488
	NTRACTOR'S PROFIT	,							10.00%	\$3,125
BOND,	_								0.50%	\$172
INSURANCI	Ε,								1.00%	\$346
G.E. TAX,									4.7120%	\$1,644
	IN TO MOC,		4	EA					8.98%	\$3,283
SUBTOTAL	•		4	EA					\$9,956.24	\$39,825

		C	C O S	Т	A N A	LYS	5 I S			
PR	ROJECT:	KUHIO HIGHWAY (H	IARDY-OXFC	ORD) 16	" MAIN REPLAC	CEMENT LIHUE	WATER SYSTEM	M E	STIMATE NO.:	18-056
	OCATION:	LIHUE, KAUAI, HAW	All			PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES AR	RCHITECT:	BELT COLLINS HAW	AII LLC			SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
Q	TY BY:	C. FUJIKI				PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERI	AL/SUB	LABOR	/ EQPT	ТОТ	AL
	DESCRIPTIO	ON	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
19. 2-1/2" BRA CLEANOUT	ASS CLEANO S									
2-1/2" Bras	ss Clean Out	t	4	ea	\$270.00	\$1,080	\$510.00	\$2 <i>,</i> 040	\$780.00	\$3,120
SUBTOTAL, EST	IMATED DI	RECT COST,							-	\$3,120
DIRECT MARKU LOCATION FACT DESIGN CONTIN	FOR, MATER	RIALS							5.00%	\$54
SUBTOTAL, EST	IMATED DI	RECT COST TO PRIM	IE,							\$3,174
PRIME CONTRA PRIME CONTRA PRIME CONTRA PRIME CONTRA BOND,	CTOR'S JOC CTOR'S HO)Н, ОН,							21.55% 5.00% 10.00% 0.50%	\$684 \$193 \$405 \$22
INSURANCE,									1.00%	\$45
G.E. TAX,									4.7120%	\$213
ESCALATION TO) MOC,		_						8.98%	\$425
SUBTOTAL,			4	EA					\$1,290.43	\$5,162

		C	O S	Т	A N A	LYS	I S			
	PROJECT:	KUHIO HIGHWAY (H	ARDY-OXF	ORD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	1 E	STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAW	AII		I	PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAW	AII LLC		9	SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI			I	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERIA	1	LABOR		ТОТ	
	DESCRIPTI	ON	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<u>(CS)</u> <u>CI</u>	VIL - SITEWO	RK/ IMPROVEMEN	TS							
		V 2" PVC WATERLINE	<u>E</u>							
	DRARY APPURTI	<u>ENANCE</u>	1		¢200.00	¢200	6255 00	ĊOFF	¢455.00	ĊAFF
•	w/ 1" CO ete Block		1	ea ea	\$200.00 \$150.00	\$200 \$150	•	\$255 \$128	\$455.00 \$277.50	\$455 \$278
CONCIE	ELE BIOCK		T	ea	\$150.00	\$100	Ş127.30	Ş120	\$277.30	<i>Ş</i> 270
CONNE	ECTION TO KALI	RD.								
	eve, 12" Long		2	ea	\$83.75	\$168	\$127.50	\$255	\$211.25	\$423
16" Plu	ıg w/ 2" IPT Tap)	1	ea	\$1,875.00	\$1,875	\$255.00	\$255	\$2,130.00	\$2,130
Concre	ete Block		1	ea	\$150.00	\$150	\$127.50	\$128	\$277.50	\$278
MATER	RIALS TO INACT	<u>IVATE</u>								
2" Plug	5		1	ea	\$120.00	\$120	\$255.00	\$255	\$375.00	\$375
Concre	ete Block		1	ea	\$150.00	\$150	\$127.50	\$128	\$277.50	\$278
SUBTOTAL,	ESTIMATED DI	RECT COST,							-	\$4,215
DIRECT MA	RKUPS									
	FACTOR, MATE	RIALS							5.00%	\$141
	NTINGENCY,		-						5.00%	\$211
SUBIUTAL,	ESTIVIATED DI	RECT COST TO PRIM	IE,							\$4,566
PRIME CON	ITRACTOR MAR	RKUPS								
	ITRACTOR'S JOC								21.55%	\$984
PRIME CON	ITRACTOR'S HO	OH,							5.00%	\$278
PRIME CON	ITRACTOR'S PRO	OFIT,							10.00%	\$583
BOND,									0.50%	\$32
INSURANCE	Ξ,								1.00%	\$64
G.E. TAX,									4.7120%	\$307
ESCALATIO				10					8.98%	\$612
SUBTOTAL,	,		1	LS						\$7,426

	C	0 S	Т	A N A	LYS	IS			
PROJECT: KI	UHIO HIGHWAY (HA		DRD) 16	" MAIN REPLACE			1 E	STIMATE NO.:	18-056
IUNO LOCATION: LI	HUE, KAUAI, HAWA	All		P	ROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
	ELT COLLINS HAWA	II LLC		S	UBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C.	FUJIKI			P	RICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
				MATERIA		LABOR		ТОТ	
DESCRIPTION		QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/</u>	IMPROVEMENT	<u>rs</u>							
22. CONNECTION OF NEW 6"	DI								
CONNECTION 3A, STA 10+									
TEMPORARY APPURTENAI	NCE								
8" Cap w/ 2" CO		1	ea	\$520.00	\$520	\$255.00	\$255	\$775.00	\$775
16" Cap w/ 4" CO		1	ea	\$820.00	\$820	\$255.00	\$255	\$1,075.00	\$1,075
Concrete Block		2	ea	\$150.00	\$300	\$127.50	\$255	\$277.50	\$555
CONNECTION TO E/W8									
8" Sleeve, 12" Long		1	ea	\$347.50	\$348	\$255.00	\$255	\$602.50	\$603
Transition Coupling, 8" Dia	a.	1	ea	\$350.00	\$350	\$127.50	\$128	\$477.50	\$478
Concrete Block		3	ea	\$150.00	\$450	\$127.50	\$383	\$277.50	\$833
MATERIALS TO INACTIVAT	<u>'E</u>								
16" Plug w/ 4" CO		1	ea	\$1,875.00	\$1,875	\$51.00	\$51	\$1,926.00	\$1,926
Concrete Block w/ Structu	ral Struts	1	ea	\$300.00	\$300	\$510.00	\$510	\$810.00	\$810
CONNECTION 3B, STA 10+	<u>53.90</u>								
TEMPORARY APPURTENAL	NCE								
16" Cap w/ 4" CO @ STA 1	.0+53.9	1	ea	\$820.00	\$820	\$255.00	\$255	\$1,075.00	\$1,075
Concrete Block @ STA 10+	53.9	1	ea	\$150.00	\$150	\$127.50	\$128	\$277.50	\$278
CONNECTION TO E/W8									
16" Sleeve, 12" Long @ ST	A 10+53.9	2	ea	\$1,358.75	\$2,718	\$510.00	\$1,020	\$1,868.75	\$3,738
SUBTOTAL, ESTIMATED DIREC	T COST,							-	\$12,144
DIRECT MARKUPS									
LOCATION FACTOR, MATERIAL	S							5.00%	\$613
DESIGN CONTINGENCY,								5.00%	\$607
SUBTOTAL, ESTIMATED DIREC	T COST TO PRIME	,						-	\$13,364
PRIME CONTRACTOR MARKU	<u>PS</u>								
PRIME CONTRACTOR'S JOOH,								21.55%	\$2,880
PRIME CONTRACTOR'S HOOH,								5.00%	\$812
PRIME CONTRACTOR'S PROFIT	,							10.00%	\$1,706
BOND,								0.50%	\$94
INSURANCE,								1.00%	\$189
G.E. TAX,								4.7120%	\$897
ESCALATION TO MOC,								8.98%	\$1,791
SUBTOTAL,		1	LS						\$21,733

		C	0 S	Т	A N A	L Y S	I S			
	PROJECT:	KUHIO HIGHWAY (H	ARDY-OXFC	DRD) 16	" MAIN REPLAC	EMENT LIHUE	WATER SYSTEM	vi E	STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAWA	AII		I	PROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAWA	II LLC			SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI			I	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERIA	AL/SUB	LABOR	/ EQPT	тот	AL
	DESCRIPTI	ON	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
	<u>VIL - SITEWOF</u> ECTION OF NEW	RK/ IMPROVEMENT	<u>rs</u>							
	DRARY APPURTE									
	p w/ 4" CO	<u></u>	1	ea	\$1,107.00	\$1,107	\$255.00	\$255	\$1,362.00	\$1,362
	ete Block		1	ea	\$150.00	\$150	\$127.50	\$128	\$277.50	\$278
CONNE	ECTION TO E/W	18"								
18" Sle	eve, 12" Long		1	ea	\$1,576.15	\$1,576	\$510.00	\$510	\$2,086.15	\$2,086
Concre	ete Thrust Beam	i, 14' L	1	ea	\$800.00	\$800	\$170.00	\$170	\$970.00	\$970
Concre	ete Block		1	ea	\$150.00	\$150	\$127.50	\$128	\$277.50	\$278
SUBTOTAL,	ESTIMATED DI	RECT COST,							-	\$4,973
DIRECT MA	RKUPS									
LOCATION I	FACTOR, MATE	RIALS							5.00%	\$285
DESIGN CO	NTINGENCY,								-	
SUBTOTAL,	ESTIMATED DI	RECT COST TO PRIME	Ξ,							\$5 <i>,</i> 258
	TRACTOR MAR								/	4
	ITRACTOR'S JOC	,							21.55%	\$1,133
	ITRACTOR'S HO								5.00%	\$320
	ITRACTOR'S PRO	JHI,							10.00%	\$671
BOND,	_								0.50%	\$37
	-,								1.00%	\$74 ¢252
G.E. TAX,									4.7120%	\$353 \$705
ESCALATIO	,		4	LS					8.98%	\$705
SUBTOTAL,	,		1	LS						\$8,551

C	0 S	Т	A N A	L Y S	IS			
PROJECT: KUHIO HIGHWAY (H	ARDY-OXFO	DRD) 16	" MAIN REPLACE	MENT LIHUE	WATER SYSTEM	/ E	STIMATE NO.:	18-056
IUNO LOCATION: LIHUE, KAUAI, HAWA	AII		P	ROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
ARCHITECT: BELT COLLINS HAWA	AII LLC		S	UBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI			P	RICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
			MATERIA	L/SUB	LABOR	/ EQPT	T 0 T	ΓΑL
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPROVEMEN</u>	<u>TS</u>							
24. CONNECTION OF NEW 16" DI								
TEMPORARY APPURTENANCE								
16" Cap w/ 4" CO	1	ea	\$820.00	\$820	\$255.00	\$255	\$1,075.00	\$1,075
Concrete Block	1	ea	\$150.00	\$150	\$127.50	\$128	\$277.50	\$278
CONNECTION TO E/W16"								
16" Sleeve, 12" Long	1	ea	\$1,467.45	\$1,467	\$510.00	\$510	\$1,977.45	\$1,977
16" Transition Coupling	1	ea	\$850.00	\$850	\$255.00	\$255	\$1,105.00	\$1,105
16" Tee	1	ea	\$2 <i>,</i> 779.65	\$2 <i>,</i> 780	\$255.00	\$255	\$3 <i>,</i> 034.65	\$3 <i>,</i> 035
Concrete Block w/ Structural Struts	1	ea	\$300.00	\$300	\$510.00	\$510	\$810.00	\$810
MATERIALS TO INACTIVATE								
16" Plug w/ 4" CO	1	ea	\$2,025.00	\$2,025	\$255.00	\$255	\$2,280.00	\$2,280
16" Cap	1	ea	\$2,587.95	\$2,588	\$255.00	\$255	\$2,842.95	\$2,843
16" Transition Coupling	1	ea	\$850.00	\$850	\$258.00	\$258	\$1,108.00	\$1,108
Concrete Block	2	ea	\$150.00	\$300	\$127.50	\$255	\$277.50	\$555
Concrete Block w/ Structural Struts	1	ea	\$300.00	\$300	\$522.00	\$522	\$822.00	\$822
SUBTOTAL, ESTIMATED DIRECT COST,								\$15,888
DIRECT MARKUPS								
LOCATION FACTOR, MATERIALS							5.00%	\$622
DESIGN CONTINGENCY,	_							
SUBTOTAL, ESTIMATED DIRECT COST TO PRIM	Ε,							\$16,509
PRIME CONTRACTOR MARKUPS								
PRIME CONTRACTOR'S JOOH,							21.55%	\$3,558
PRIME CONTRACTOR'S HOOH,							5.00%	\$1,003
PRIME CONTRACTOR'S PROFIT,							10.00%	\$2,107
BOND,							0.50%	\$116
INSURANCE,							1.00%	\$233
G.E. TAX,							4.7120%	\$1,109
ESCALATION TO MOC,	-						8.98%	\$2,213
SUBTOTAL,	1	LS						\$26,848

		С	0 S	Т	ANA	LY	S S			
	PROJECT:	KUHIO HIGHWAY (H)RD) 16	" MAIN REPLA	CEMENT LIHU	E WATER SYSTEM		STIMATE NO.:	18-056
IUNO	LOCATION:	LIHUE, KAUAI, HAW					: JOB NO. 18-03		DATE:	7/16/2024
& ASSOCIATES	ARCHITECT:	BELT COLLINS HAW	AII LLC			SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
	QTY BY:	C. FUJIKI				PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
					MATERI	AL/SUB	LABOR/	EQPT	тот	
	DESCRIPTIO	NC	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<u>(CS)</u> <u>CI</u>	IVIL - SITEWOF	<u>RK/ IMPROVEMEN</u>	<u>TS</u>							
	RINATION AND F									
	RINATION & PRE	<u>SSURE TESTING</u>	1.00				6405.00	¢4.0.000	6405 00	† 4 C 000
Forem	an e Plumbers		160 160	hr hr			\$105.00	\$16,800	\$105.00	\$16,800
	e Plumbers e Plumbers		160	hr hr			\$85.00 \$85.00	\$13,600 \$13,600	\$85.00 \$85.00	\$13,600 \$13,600
Labore			160	hr			\$85.00 \$75.00	\$12,000	\$85.00 \$75.00	\$13,000 \$12,000
Labore			160	hr			\$75.00	\$12,000	\$75.00	\$12,000 \$12,000
								+,		+,
SUBTOTAL,	, ESTIMATED DI	RECT COST,							-	\$68,000
	NTINGENCY,	RECT COST TO PRIM	F						_	\$68,000
JUBIUIAL,	, ESTIMATED DI	RECT COST TO PRIM	ς,							308,000
	NTRACTOR MAR								21.55%	\$14,655
	ITRACTOR'S HO	•							5.00%	\$4,133
	ITRACTOR'S PRO	,							10.00%	\$8,679
BOND,		,							0.50%	\$477
INSURANCE	Ξ,								1.00%	\$959
G.E. TAX,	-								4.7120%	\$4,566
ESCALATIO	Ν ΤΟ ΜΟϹ,								8.98%	\$9,115
SUBTOTAL,	,		1	LS					-	\$110,585

(C O S	Т	A N A	L Y S	I S			
PROJECT: KUHIO HIGHWAY (I	ARDY-OXF	ORD) 16	" MAIN REPLACI	EMENT LIHUE	WATER SYSTEI	M E	STIMATE NO.:	18-056
LUNO LOCATION: LIHUE, KAUAI, HAW	/All		F	ROJECT NO.:	JOB NO. 18-03		DATE:	7/16/2024
ARCHITECT: BELT COLLINS HAW	AII LLC		S	SUBMITTAL:	FINAL DESIGN		CHECKED BY:	H. GARCIA
QTY BY: C. FUJIKI			F	PRICES BY:	H. GARCIA	D	ATE CHECKED:	7/16/2024
			MATERIA	L/SUB	LABOR	/ EQPT	Т О Т	AL
DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(CS) <u>CIVIL - SITEWORK/ IMPROVEMEN</u> 24. <u>TEMPORARY TRAFFIC CONTROL</u>	<u>ITS</u>							
TRAFFIC CONTROL								
Barricades, Precast Concrete Barrier Walls	200	lf	\$42.00	\$8,400			\$42.00	\$8,400
Barricades, Traffic Cones	100	ea	\$20.00	\$2,000			\$20.00	\$2,000
Flashing Arrows, 25 Lamps	1,000	hr	\$3.00	\$3,000			\$3.00	\$3,000
Lite Set	1,000	hr	\$8.00	\$8,000			\$8.00	\$8,000
Median Warning Sign Reflective Sheeting	10	ea	\$70.00	\$700			\$70.00	\$700
Prepare Traffic Control Plan	1	ea			\$500.00	\$500	\$500.00	\$500
Safety Barrels 36" Tall Traffic Barriers	20	ea	\$30.00	\$600			\$30.00	\$600
Two Flagman Crew	100	dy			\$1,360.00	\$136,000	\$1,360.00	\$136,000
SUBTOTAL, ESTIMATED DIRECT COST,								\$159,200
<u>DIRECT MARKUPS</u> LOCATION FACTOR, MATERIALS DESIGN CONTINGENCY,							5.00%	\$1,135
SUBTOTAL, ESTIMATED DIRECT COST TO PRIM	1E <i>,</i>							\$160,335
PRIME CONTRACTOR MARKUPS								
PRIME CONTRACTOR'S JOOH,							21.55%	\$34,555
PRIME CONTRACTOR'S HOOH,							5.00%	\$9,745
PRIME CONTRACTOR'S PROFIT,							10.00%	\$20,463
BOND,							0.50%	\$1,125
INSURANCE,							1.00%	\$2,262
G.E. TAX,							4.7120%	\$10,766
ESCALATION TO MOC,							8.98%	\$21,493
SUBTOTAL,	1	LS						\$260,745