# ADDENDUM NO. 1

COUNTY OF KAUA'I DEPARTMENT OF WATER

PLANS, PROPOSAL, SPECIFICATIONS CONTRACT AND BOND FOR

JOB NO. 09-01, K-01, K-12
KALĀHEO WATER SYSTEM IMPROVEMENTS
PACKAGE A – 0.5 MG YAMADA RESERVOIR
PACKAGE B – 0.1 MG CLEARWELL RESERVOIR
PACKAGE C – WATER MAIN INSTALLATION
KALĀHEO, 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

Receipt of Questions/Comments/Material Substitutions.

### End of Addendum No. 1

If there are any questions, please contact Michael K. Hinazumi by email at <a href="mailto:mhinazumi@kauaiwater.org">mhinazumi@kauaiwater.org</a> .

Joseph E. "Joe" Tait Manager and Chief Engineer April 11, 2022

### ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. 1

Receipt Acknowledged:		
Organization	Received by	
Date	Title	
(Plea	se sign and return this acknowledgement.)	

#### ADDENDUM NO.

### Item No. 1

QUESTION: Is there a specification section for the booster pump system?

ANSWER: The specification section for the booster pump system can be found in Section SP-15 - Hydropneumatic Booster Pump Package in Appendix O: Special Provisions.

QUESTION: The Invitation For Bids states that bids will be received in the Admin Office of Department of Water and it also states to submit the offer through Public Purchase. Please clarify which one.

ANSWER: Please submit bids via www.publicpurchase.com.

QUESTION: Is there an engineering estimate for this project?

ANSWER: See attached.

# RECAPITULATION OPINION OF PROBABLE COST JOB NO. K-01, K-12

# KALĀHEO WATER SYSTEM IMPROVEMENTS PACKAGE A,B, C KALĀHEO WATER SYSTEM KALĀHEO, KAUA'I, HAWAI'I

### **RECAPITULATION**

	SAY	\$ 21,300,000.00
Grand Total		\$ 21,261,431.00
Package C		\$ 8,124,625.00
Package B		\$ 6,112,163.00
Package A		\$ 7,024,643.00

1 of 1 5/5/2021



SUBJECT: Opinion of Probable Construction Cost By: KHY

FILE: M:\Kauai DW:\2011740100 Kalaheo Water System\Design\Cost Estimates\[Yamada Reservoir Cost Estimate 04.20.21.xbx]OPC (2)

Item	Estimated				
No.	Quantity	Units	Description	Unit Price	Total
5/5/2021	print date				
1	1	LS	Mobilization & Demobilization (Not to exceed 6% of the sum of all items excluding proposal price of this item)	\$ 295,849	\$ 295,849
2	14,000	CY	Site excavation, including clearing and grubbing, demolition, and hauling and disposal of excess material.	\$ 80	\$ 1,120,000
			Clearing and grubbing.	\$ 282,000	
			Demolition, including removal and disposal of existing structures and A.C. pavement	\$ 20,000	
3	350	LF	4-foot high chain-link fence, including DWS 2500 concrete footing and all appurtenances, in place complete.	\$ 45	\$ 15,750
4	730	LF	6-foot high chain-link fence topped with extension arm and three strands of barbed wire, including DWS 2500 concrete footing and all appurtenances, in place complete.	\$ 60	\$ 43,800
5	1	EA	20-foot wide double-swing 6-foot high chainlink gate topped with extension arm and three strands of barbed wire, including DWS 2500 concrete footing, sign, and all appurtenances, in place complete.	\$ 5,500	\$ 5,500
6	1,000	SY	2" thick A.C. Pavement, Hot Mix State Design Mix V, for pavement restoration, driveway pavement, and site pavement, including base and subbase courses, in place complete.	\$ 235	\$ 235,000
7	200	CY	Aggregate base course for unpaved areas, in place complete.	\$ 260	\$ 52,000
8	381	LF	Reinforced Concrete Retaining Wall-A, in place complete.	\$ 2,100	\$ 800,100
9	243	LF	Reinforced Concrete Retaining Wall-B, in place complete.	\$ 640	\$ 155,520
10	300	LF	Concrete gutter, in place complete.	\$ 80	\$ 24,000
11	30	LF	12" Ductile Iron Pipe Waterline; Cl. 53, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 280	\$ 8,400



SUBJECT: Opinion of Probable Construction Cost By: KHY

FILE: M:\Kauai DW:\2011740100 Kalaheo Water System\Design\Cost Estimates\[Yamada Reservoir Cost Estimate 04.20.21.xbx]OPC (2)

Item	Estimated				
No.	Quantity	Units	Description	Unit Price	Total
5/5/2021	print date				
12	230	LF	12" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 275	\$ 63,250
13	120	LF	8" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 230	\$ 27,600
14	1	LS	Ductile Iron Fittings (ANSI A-21.10 & AWWA C110), including unclassified trench excavation and backfill, in place complete.	\$ 50,000	\$ 50,000
15	6	EA	12" Gate Valve MJxMJ with C.I. Valve Box and Cover, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 6,000	\$ 36,000
16	3	EA	8" Gate Valve MJxMJ with C.I. Valve Box and Cover, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 4,100	\$ 12,300
17	7	EA	2-1/2" Brass Cleanout and Riser, includingunclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 4,000	\$ 28,000
18	2	EA	12" Check Valve Assembly, including check valve, vault, vault cover, unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 10,000	\$ 20,000
19	1	EA	4" Altitude Valve, including valve, vault, vault cover, unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 15,000	\$ 15,000
20	1	EA	Special drain inlet for grass area 11.00' to 11.99' deep, including unclassified trench excavation and backfill, in place complete.	\$ 15,000	\$ 15,000
21	1	EA	County DPW shallow drain manhole detail D- 18 for pavement areas with grated cover, 8.00' to 8.99' deep, including unclassified trench excavation and backfill, in place complete.	\$ 10,000	\$ 10,000



SUBJECT: Opinion of Probable Construction Cost By: KHY

FILE: M:\Kauai DW/2011740100 Kalaheo Water System\Design\Cost Estimates\[Yamada Reservoir Cost Estimate 04.20.21.xbx]OPC (2)

Item No.	Estimated Quantity	Units	Description	Unit Price	Total
5/5/2021	print date	OTINO	Decemption	0111111100	Total
22	2	EA	County DPW standard drain manhole detail D-22 for pavement areas with grated cover, 8.00' to 8.99' deep, in place complete.	\$ 10,000	\$ 20,000
23	1	EA	State standard drain manhole, Type A, for pavement areas, with grated cover, 19.00'-19.99', including unclassified trench excavation and backfill, in place complete.	\$ 30,000	\$ 30,000
24	270	LF	18" Reinforced Concrete Pipe Drainline, Class III, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 320	\$ 86,400
25	75	LF	18" Corrugated High Density Polyethylene Drainline, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 260	\$ 19,500
26	35	LF	12" Ductile Iron Pipe Drainline, CI. 53, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 280	\$ 9,800
27	250	LF	6" corrugated, perforated HDPE drain line, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 60	\$ 15,000
28	15	LF	6" corrugated HDPE drain line, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 60	\$ 900
29	1	EA	CRM outlet headwall, inclusive of 4-foot high chain-link fence and concrete rubble pavement, in place complete.	\$ 30,000	\$ 30,000
30	1	EA	0.5 Million Gallon reinforced concrete reservoir tank, including all appurtenances, in place complete.	\$ 1,850,000	\$ 1,850,000
31	1	LS	Chlorination and flushing of water system, including removal of temporary risers and incidental work, all in accordance with the specifications.	\$ 32,000	\$ 32,000



SUBJECT: Opinion of Probable Construction Cost By: KHY

FILE: M:\Kauai DW/2011740100 Kalaheo Water System\Design\Cost Estimates\[Yamada Reservoir Cost Estimate 04.20.21.xbx]OPC (2)

Item	Estimated				
No.	Quantity	Units	Description	Unit Price	Total
5/5/2021	print date				
32	1	LS	Furnish and install electrical equipment, and wiring, including but not limited to providing trenching and backfill, pullboxes power, control and instrumentation ducts, cables, junction boxes, connections to power control and instrumentation devices, painting testing, and all appurtenant electrical work in place complete and in accordance with the plans and specifications.	\$ 50,000	\$ 50,000
33	1	LS	SCADA system, including but not limited to software programming of existing RTU; modifications to existing master SCADA; and all appurtenant SCADA work; in place complete, and accordance with the plans and specifications, ready for operation.	\$ 50,000	\$ 50,000
			Subtotal		\$ 5,226,669
			Contingency @ 20%		\$ 1,045,334
			Subtotal		\$ 6,272,003
			Escalation @12% (to 2023)		\$ 752,640
			TOTAL		\$ 7,024,643



PROJECT: Clearwell Reservoir 0.1 MG Tank

CLIENT: Kaua'i Department of Water

SUBJECT: Opinion of Probable Construction Cost

By: akv

2011.74.0100

5/5/2021

FILE:

M:\Kauai DW\2011740100 Kalaheo Water System\Design\Cost Estimates\[Clearwell Tank Cost Estimate 04.20.21.xlsx]OPC (2)

**Opinion of Probable Construction Cost** 

Item	Estimated				
No.	Quantity	Units	Description	Unit Price	Total
34	1	LS	Mobilization and Demobilization. (Not to exceed 6% of the sum of all items excluding proposal price of this item)	\$ 260,000	\$ 260,000
35	2,254	CY	Site excavation, including hauling and disposal of excess material	\$ 310.00	\$ 698,740
36	315	LF	6-foot high chain-link fence topped with extension arm and three strands of barbed wire, including DWS 2500 concrete footing, all appurtenances, in place complete.	\$ 60	\$ 18,900
37	1	EA	16-foot wide double-swing 6-foot high chainlink gate topped with extension arm and three strands of barbed wire, including DWS 2500 concrete footing, sign, and all appurtenances, in place complete.	\$ 5,000	\$ 5,000
38	1,385	SY	6" Thick Concrete Pavement for pavement restoration, driveway pavement, and site pavement in place complete.	\$ 240	\$ 332,400
39	760	SY	2" Thick AC Pavement Hot Mix State Design Mix IV for site pavement in place complete.	\$ 130	\$ 98,800
40	360	CY	Aggregate base course for Access Road and Paved Area, in place complete	\$ 500	\$ 180,000
41	29,700	SF	Cellular confinement construction access, for a complete job.	\$ 32.00	\$ 950,400
42	1	EA	Reinforced Concrete Retaining Wall, in place complete	\$ 350	\$ 350
43	135	LF	Concrete swale, in place complete.	\$ 54	\$ 7,290
44	960	LF	Concrete curb and gutter, in place complete.	\$ 75	\$ 72,000
45	50	LF	Concrete header, in place complete.	\$ 55	\$ 2,750
46	3	EA	Gutter diversion, in place complete.	\$ 3,800	\$ 11,400
47	2	EA	GRP transition, in place complete	\$ 1,600	\$ 3,200
48	1,275	LF	8" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place	\$ 230	\$ 293,250
49	40	LF	8" Ductile Iron Pipe Waterline; Cl. 53, including unclassified trench excavation, backfill, and all appurtenances, in place	\$ 240	\$ 9,600
50	225	LF	1-1/2" Copper Pipe Waterline; Type K, including unclassified trench excavation and backfill, fittings, and all appurtenances, in place complete.	\$ 75	\$ 16,875



PROJECT: Clearwell Reservoir 0.1 MG Tank

CLIENT: Kaua'i Department of Water

SUBJECT: Opinion of Probable Construction Cost

 $\label{eq:file:mates} \textbf{FILE:} \qquad \qquad \\ \textbf{M:} \textbf{Kauai DW:} 2011740100 \ \textbf{Kalaheo Water System:} \textbf{Design:} \textbf{Cost Estimates:} \textbf{[Clearwell Tank Cost Estimate 04:20:21.xlsx]OPC (2)} \\$ 

2011.74.0100

5/5/2021

By: akv

Opinion of Probable Construction Cost

Item	Estimated					
No.	Quantity	Units	Description	ı	Unit Price	Total
51	1	LS	Ductile Iron Fittings (ANSI A-21.10 & AWWA C110), included unclassified trench excavation and backfill, in place complete.	\$	40,000	\$ 40,000
52	8	EA	8" Gate valve MJ x MJ with C.I. valve box and cover, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$	4,100	\$ 32,800
53	1	EA	1" Air/Vacuum Relief Valve, including all appurtenances, in place complete.	\$	4,500	\$ 4,500
54	1	LS	Connection for New 8" D.I. Water line to existing 8" Asbestos Concrete Water line, including unclassified excavation, transition coupling, and appurtenances, in place complete.	\$	20,000	\$ 20,000
55	1	EA	County DPW standard drain inlet, Type G-2, for pavement area, 4.00' to 4.99', including unclassified trench excavation and backfill, in place complete.	\$	10,700	\$ 10,700
56	1	EA	County DPW standard drain inlet, Type G-2, for pavement area, 5.00' to 5.99', including unclassified trench excavation and backfill, in place complete.	\$	10,700	\$ 10,700
57	130	LF	6" corrugated, perforated HDPE drain line, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$	60	\$ 7,800
58	25	LF	6" corrugated HDPE drain line, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$	60	\$ 1,500
59	25	LF	12" Ductile Iron Drainline, including unclassified trench excavation, backfill, and	\$	280	\$ 7,000
60	90	LF	all appurtenances, in place complete. 12" PVC Drainline, including unclassified trench excavation, backfill, and all	\$	230	\$ 20,700
61	1	EA	appurtenances, in place complete. CRM headwall, inclusive of 4-foot high chainlink fence, in place complete.	\$	30,000	\$ 30,000
62	13	LF	4-feet high chain link fence on top of headwall, including all appurtenances, in place complete.	\$	45	\$ 585
63	1	LS	o.1 Million Gallon reinforced concrete reservoir tank, including all appurtenances, in place complete.	\$	905,000	\$ 905,000



PROJECT: Clearwell Reservoir 0.1 MG Tank

Kaua'i Department of Water

5/5/2021

CLIENT:

2011.74.0100

SUBJECT:

Opinion of Probable Construction Cost

By: akv

FILE: M:\Kauai DW\2011740100 Kalaheo Water System\Design\Cost Estimates\[Clearwell Tank Cost Estimate 04.20.21.xlsx]OPC (2)

**Opinion of Probable Construction Cost** 

ltem	Estimated						
No.	Quantity	Units	Description		Unit Price		Total
64	1	LS	Chlorination and flushing of water system, including removal of temporary risers and incidental work, all in accordance with the specifications.	\$	32,000	\$	32,000
65	1	LS	Furnish and install electrical equipment, and wiring, including but not limited to trenching and backfill, pullboxes, power, control and instrumentation ducts, cables, junction boxes, connections to power, control and instrumentation devices, painting, testing, and all appurtenant electrical work in place complete and in accordance with the plans and specifications	\$	85,000	\$	85,000
66	1	LS	Furnish and install telephone equipment, and wiring, including but not limited to trenching and backfill, pullboxes, testing, and all appurtenant electrical work in place complete and in accordance with the plans and specifications.	\$	54,000	\$	54,000
67 68	1	FA LS	Hawaiian Telcom (HTEL) cost sharing SCADA system, including but not limited to software programming of existing RTU; modifications to existing master SCADA; and all appurtenant SCADA work; in place complete, and accordance with the plans and specifications, ready for operation.	\$	161,000	\$	21,500 161,000
69 70	1	LS LS	Control Building, in place complete. Hydroneumatic booster pump, in place complete.	\$ \$	110,000 32,000	\$ \$	110,000 32,000
			Subtotal			\$	4,547,740
			Contingency @ 20%			\$	909,548
			Subtotal			\$	5,457,288
			Escalation @12% (to 2023) TOTAL			\$ \$	654,875 6,112,163

Item No Estimated				T.I.I		
Quanti	ty	Description		Unit Price		Total
1	LS	Mobilization & Demobilization (not to exceed 6% of the sum of all items excluding proposal price of this item)			,	331,000.00
1	LS	Clearing and Grubbing			•	382,000.00
10000	SY	Cold Planing Existing A.C. Pavement	\$	30.00	\$	300,000.00
35	SY	4" Thick Concrete Pavement for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.	\$	225.00	\$	7,630.00
2300	SY	2" Thick A.C. Pavement Hot Mix State Design Mix V for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.	\$	275.00	\$	632,500.00
10000	SY	2" Thick A.C. Pavement Hot Mix State Design Mix V for pavement resurfacing, in place complete.	\$	85.00	\$	850,000.00
830	LF	12" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$	250.00	\$	207,500.00
7197	LF	8" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$	230.00	Ś	1,655,310.00
	Quanti  1  1 10000 35  2300  10000	1 LS 10000 SY 2300 SY 10000 SY 10000 LF	Quantity       Description         1       LS         Mobilization & Demobilization (not to exceed 6% of the sum of all items excluding proposal price of this item)         1       LS         Clearing and Grubbing         10000       SY         Cold Planing Existing A.C. Pavement         35       SY         4" Thick Concrete Pavement for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.         2300       SY         2" Thick A.C. Pavement Hot Mix State Design Mix V for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.         10000       SY       2" Thick A.C. Pavement Hot Mix State Design Mix V for pavement resurfacing, in place complete.         830       LF       12" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.         7197       LF       8" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench	Quantity       Description         1       LS       Mobilization & Demobilization (not to exceed 6% of the sum of all items excluding proposal price of this item)         1       LS       Clearing and Grubbing         10000       SY       Cold Planing Existing A.C. Pavement       \$	Quantity       Description       Unit Price         1       LS       Mobilization & Demobilization (not to exceed 6% of the sum of all items excluding proposal price of this item)         1       LS       Clearing and Grubbing         10000       SY       Cold Planing Existing A.C. Pavement \$ 30.00         35       SY       4" Thick Concrete Pavement for trench pavement, including base and subbase courses, in place complete.       \$ 225.00         2300       SY       2" Thick A.C. Pavement Hot Mix State Design Mix V for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.       \$ 275.00         10000       SY       2" Thick A.C. Pavement Hot Mix State Design Mix V for pavement resurfacing, in place complete.       \$ 85.00         830       LF       12" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.       \$ 250.00         7197       LF       8" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all	Quantity       Description       Unit Price         1       LS       Mobilization & Demobilization (not to exceed 6% of the sum of all items excluding proposal price of this item)         1       LS       Clearing and Grubbing         10000       SY       Cold Planing Existing A.C. Pavement       \$ 30.00         35       SY       4" Thick Concrete Pavement for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.       \$ 225.00         2300       SY       2" Thick A.C. Pavement Hot Mix State Design Mix V for trench pavement restoration and driveway pavement, including base and subbase courses, in place complete.       \$ 275.00         10000       SY       2" Thick A.C. Pavement Hot Mix State Design Mix V for pavement resurfacing, in place complete.       \$ 85.00         830       LF       12" Ductile Iron Pipe Waterline; CI. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.       \$ 250.00         7197       LF       8" Ductile Iron Pipe Waterline; CI. 52, including unclassified trench excavation, backfill, and all

Item No	Estimat		Description	Unit Price		Total
	Quant	ity	Description	Offic Price		TOtal
79	3500	LF	6" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 210.00	\$	735,000.00
80	34	LF	3" Ductile Iron Pipe Waterline; Cl. 52, including unclassified trench excavation, backfill, and all appurtenances, in place complete.	\$ 180.00	, \$ -	8,568.00
81	1	LS	Ductile Iron Fittings (ANSI A-21.10 & AWWA C110), in place complete.		\$	140,000.00
82	5	Ea.	12" Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 6,000.00	<b>\$</b>	30,000.00
83	5	Ea.	8" Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 4,100.00	\$	20,500.00
84	5	Ea.	6" Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 3,000.00	\$	15,000.00
85	9	Ea.	6" Gate Valve MJxFE with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 3,000.00	, \$	27,000.00
86	1		3" Gate Valve MJxMJ with C.I. Valve Box and Cover, including all appurtenances, in place complete.	\$ 3,000.00	<b>,</b> \$	3,000.00
87	15	Ea.	1" Air/Vacuum Relief Valve, including all appurtenances, in place complete.	\$ 4,500.00	\$	67,500.00

Item No	Estima	ted			
	Quant	tity	Description	Unit Price	Total
88	17	Ea.	Single Service Lateral and assembly, including all appurtenances, in place complete.	\$ 4,400.00	\$ 74,800.00
89	8	Ea.	Double Service Lateral and assembly, including all appurtenances, in place complete.	\$ 6,500.00	\$ 52,000.00
90	7	Ea.	Fire Hydrant, including all appurtenances, in place complete.	\$ 6,000.00	\$ 42,000.00
91	4	Ea.	2-1/2" Brass Cleanout and Riser, including all appurtenances, in place complete.	\$ 4,000.00	\$ 16,000.00
92	1	LS	Connection of New 3" Ductile Iron Waterline to Existing 3" PVC Waterline at WL C Sta. $56+71.0\pm o/s 2.1'\pm RT$ , including all appurtenances, in place complete.		\$ 12,500.00
93	1	LS	Connection of New 6" Ductile Iron Waterline B to Existing 6" Asbestos-Cement Waterline at WL B Sta. 11+61.3±, including all appurtenances, in place complete.		\$ 25,000.00
94	1	LS	Connection of New 12" Ductile Iron Waterline C to New 12" Ductile Iron Waterline at WL C Sta. (-) 0+3.7±, including all appurtenances, in place complete.		\$ 20,000.00

Item No	Estimated Quantity		Description		
item No				Unit Price	Total
95	1	LS	Connection of New 12" Ductile Iron Waterline C to Existing 6" Cast Iron Waterline at WL C Sta. 19+92.39 o/s 13.4' ± LT, including all appurtenances, in place complete.	\$	20,000.00
96	1	LS	Connection of New 6" Ductile Iron Waterline D to Existing 6" Cast Iron Waterline at WL D Sta. 0+00, including all appurtenances, in place complete.	\$	15,000.00
97	1	LS	Connection of New 6" Ductile Iron Waterline D to Existing 6" Ductile Iron Waterline at WL D Sta.33+43.3±, including all appurtenances, in place complete.	\$	15,000.00
98	1	LS	Connection of New 12" Ductile Iron Waterline E to New 12" Ductile Iron Waterline at WL E Sta. 0+00, including all appurtenances, in place complete.	\$	20,000.00
99	1	LS	Connection of New 8" Ductile Iron Waterline F to New 8" Ductile Iron Waterline at WL F Sta. 0+00, including all appurtenances, in place complete.	\$	20,000.00
100	1	LS	Connection of New 8" Ductile Iron Waterline F to Existing 8" Asbestos- Cement Waterline at WL F Sta.0+16.3±, including all appurtenances, in place complete.	\$	25,000.00

Item No	Estimated Quantity		Description	Unit Price		Total
101	1	LS	Connection of New 8" Ductile Iron Waterline G to New 8" Ductile Iron Waterline at WL G Sta. 0+00, including all appurtenances, in place complete.	\$_	20,000.00	
102	1	LS	Connection of New 8" Ductile Iron Waterline G to Existing 8" Existing Asbestos-Cement Waterline at WL G Sta.0+13.5±, including all appurtenances, in place complete.		\$_	25,000.00
103	1	LS	Chlorination and flushing of water pipelines, including removal of temporary risers and incidental work, all in accordance with the specifications.		\$_	210,000.00
104	580	LF	Tree Root Barrier, in place complete	\$35.00	\$ <u>_</u>	20,300.00
			Subtotal (Items 73 to 106, inclusive) Contingency, 20%		\$ _ \$ _	6,045,108.00 1,209,021.60
			Subtotal		\$_	7,254,129.60
			Escalation@12% (to 2023)			870,495.55
			Total Bid			8,124,625.15