

EXHIBIT A
CITY OF FLAGSTAFF WATER SERVICES DEPARTMENT
WILDCAT HILL WATER RECLAMATION PLANT (WHWRP) DIGESTER COMPLEX DESIGN AND BID SERVICES
CITY PROJECT NO. 2021-122
ENGINEERING SERVICES FEE PROPOSAL - DETAILED DESIGN AND BID PHASE SERVICES - FINAL
AUGUST 22, 2022

TASKS	ESTIMATED CAROLLO MANHOURS AND PROJECT COSTS												
	Project Principal	Project Manager	Cost Estimator	Senior Project Professional	Lead Project Professional	Project Professional	Assistant Project Professional	Senior CADD Technician	Assistant CADD Technician	Graphics	Admin / Doc Processing	Carollo Manhours Per Task	Carollo Labor Cost Per Task
TASK 1 – PROJECT MANAGEMENT													
Task 1.1 - Project Control and Reporting (16 Months)		64										64	\$ 17,811
Task 1.2 - Project Meetings													
Task 1.2.1 - Design Phase Kickoff Meeting (In-person)		8		8	8	8						32	\$ 6,830
Task 1.2.2 - Monthly Project Update Meetings (12 Virtual)		12		12	12	12						48	\$ 10,245
Task 1.2.3 - Design Submittal Review Workshops (30%, 60%, 90%, 3 In-person)		24		32	24	32	24					136	\$ 26,755
Task 1.3 - FWC and City Council Meetings (3 In-Person)	16	16		24	24					24		104	\$ 23,057
Task 1.4 - Project Schedule (16 Months)		8										8	\$ 2,226
Task 1.5 - Subconsultant Management (16 Months)		32										32	\$ 8,906
SUBTOTAL TASK 1 – PROJECT MANAGEMENT	16	164	0	76	68	52	24	0	0	24	0	424	\$ 95,830
TASK 2 – PRELIMINARY DESIGN													
Task 2.1 - Solids Loading Assessment		8		24			40					8	\$ 14,113
Task 2.2 - New Digestion Facilities Assessment		8			24	24	40					8	\$ 16,604
Task 2.3 - Support Facilities and Utilities Assessment		8				24	40					8	\$ 12,076
Task 2.4 - Electrical System Strategies		16										8	\$ 5,396
Task 2.5 - I&C and SCADA System Strategies		16										8	\$ 5,396
Task 2.6 - Existing Digestion Facilities Rehab and Replace Assessment		8		24	32		8					8	\$ 15,925
Task 2.7 - Geotechnical Investigation					8							8	\$ 1,509
Task 2.8 - Topographical Survey								8				8	\$ 1,434
Task 2.9 - Drainage Report		8				24						8	\$ 6,792
Task 2.10 - Design Technical Memorandum (Included above)												0	\$ -
Task 2.11 - Preliminary (30%) Design Review Submittal Package		24		112	136	136	136	152	240			12	\$ 156,473
Task 2.12 - Preliminary Design (30%) Cost Estimate		4	108				16						\$ 33,283
Task 2.13 - Basis of Design Report (30% Design)	4	16		16	16		80	8	8				\$ 25,491
SUBTOTAL TASK 2 – PRELIMINARY DESIGN	4	116	108	176	216	208	360	168	248	0	68	1,672	\$ 294,492
TASK 3 – DETAILED DESIGN													
Task 3.1 - Interim (60%) Design Review Submittal Package		48	120	184	232	232	240	232	360			24	\$ 290,908
Task 3.2 - Interim (90%) Design Review Submittal Package		48	136	192	240	240	240	320	464			32	\$ 329,927
Task 3.3 - Final (100%) Contract Documents		16	24	56	64	72	64	72	120			16	\$ 85,812
SUBTOTAL TASK 3 – DETAILED DESIGN	0	112	280	432	536	544	544	624	944	0	72	4,088	\$ 706,646

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	Project Principal	Project Manager	Cost Estimator	Senior Project Professional	Lead Project Professional	Project Professional	Assistant Project Professional	Senior CADD Technician	Assistant CADD Technician	Graphics	Admin / Doc Processing	Carollo Manhours Per Task	Carollo Labor Cost Per Task
TASK 4 – QUALITY MANAGEMENT													
Task 4.1 - Quality Management Plan		4				8					8	20	\$ 3,264
Task 4.2 - Technical Peer Reviews	8	4		4		4						20	\$ 5,113
Task 4.3 - Operability Reviews		4		16		4						24	\$ 5,491
Task 4.4 - Constructability Reviews		4		16		4						24	\$ 5,491
Task 4.5 - Detailed Quality Management Checks		264										264	\$ 73,471
SUBTOTAL TASK 4 – QUALITY MANAGEMENT	8	280	0	36	0	20	0	0	0	0	8	352	\$ 92,830
TASK 5 – PERMITTING ASSISTANCE													
Task 5.1 - City of Flagstaff Permitting Coordination		4				40						44	\$ 7,151
Task 5.2 - ATC Permit Coordination		4				40						44	\$ 7,151
SUBTOTAL TASK 5 – PERMITTING ASSISTANCE	0	8	0	0	0	80	0	0	0	0	0	88	\$ 14,302
TASK 6 – BID PHASE SERVICES													
Task 6.1 - Contractor Prequalification		8		16			24					48	\$ 9,170
Task 6.2 - Bid Services, Meetings, and Bidder Evaluation		16				40						56	\$ 10,490
SUBTOTAL TASK 6 – BID PHASE SERVICES	0	24	0	16	0	40	24	0	0	0	0	104	\$ 19,660
TASK 7 – FUNDING ASSISTANCE SERVICES													
Task 7.1 - Funding Assistance Services		8		40		40	80					168	\$ 28,264
SUBTOTAL TASK 7 – FUNDING ASSISTANCE SERVICES	0	8	0	40	0	40	80	0	0	0	0	168	\$ 28,264
TOTAL MANHOURS	28	712	388	776	820	984	1,032	792	1,192	24	148	6,896	\$ 1,252,024
<i>Hourly Billing Rates ⁽¹⁾</i>	<i>\$306.60</i>	<i>\$278.30</i>	<i>\$278.30</i>	<i>\$235.85</i>	<i>\$188.68</i>	<i>\$150.94</i>	<i>\$132.08</i>	<i>\$179.25</i>	<i>\$127.36</i>	<i>\$146.23</i>	<i>\$117.92</i>		
TOTAL NOT-TO-EXCEED LABOR COSTS	\$8,585	\$198,150	\$107,980	\$183,020	\$154,718	\$148,525	\$136,307	\$141,966	\$151,813	\$3,510	\$17,452		\$ 1,252,024

NOTES:	OTHER DIRECT COSTS (ODCs) - SUBCONSULTANTS ⁽³⁾	Markup
(1) Hourly rates include Direct Labor, Overhead, and Profit.	EIC Engineers	\$ 448,457 1.0 \$ 448,457
(2) Owner's Design Contingency is a budget for Supplemental Services (if desired)	Geotechnical Subconsultant	\$ 25,000 1.0 \$ 25,000
(3) Subconsultants include a 0% markup	Survey Subconsultant	\$ 10,000 1.0 \$ 10,000
	BASE PROJECT ENGINEERING SERVICES FEE (NOT-TO-EXCEED)	\$ 1,735,481
	TASK 8 - ALLOWANCES:	
	Task 8.1 - Owner's Design Contingency ⁽²⁾	\$ 50,000
	Task 8.2 - Miscellaneous Services and Other Direct Costs (ODCs)	\$ 5,000
	Task 8.3 - PONDUS Detailed Design Services (if required, assume 15 drawings)	\$ 100,000
	TOTAL ESTIMATED ENGINEERING SERVICES FEE (NOT-TO-EXCEED)	\$ 1,890,481