

**PROFESSIONAL SERVICES
SUPPLEMENTAL AGREEMENT #4
FOR
SECONDARY COLORADO RIVER RAW WATER LINE
OWNER’S REPRESENTATIVE**

**STATE OF TEXAS §
 §
COUNTY OF TRAVIS §**

This Supplemental Agreement No. 4 to a contract for Professional Services is made by and between the City of Pflugerville, Texas ("City") and CP&Y dba STV (“Consultant”). City and Consultant may be referred to herein singularly as “Party” or collectively as the “Parties.”

WHEREAS, the City and Consultant executed an Agreement for Professional Services (“Agreement”) on the 26th day of May 2022 for the Owner’s Representative Services for the Secondary Colorado River Raw Water Line Project (“Project”) in the amount of \$1,430,440.00; and

WHEREAS, the City and Consultant entered into a Supplemental Agreement # 1 for Professional Services on the 18th day of May 2023 for the Project in the amount of \$0.00, to add schedule overage Owner Representative services to the Agreement; and

WHEREAS, the City and Consultant entered into a Supplemental Agreement # 2 for Professional Services on the 11th day of August 2023 for the Project in the amount of \$34,580.00, to add Owner Representative services for Bid Package #1 Construction Phase Services to the Agreement; and

WHEREAS, the City and Consultant entered into a Supplemental Agreement # 3 for Professional Services on the 5th day of February 2024 for the Project in the amount of \$0.00, to add Owner Representative services for the supporting the Eminent Domain process to the Agreement; and

WHEREAS, the City and Consultant desire to enter into a Supplemental Agreement #4 for Professional Services on the 19th day of March 2024 for the Project in the amount of \$3,751,002.00, to add Owner Representative and Construction Management and Inspection for Bid Packages 2 through 4 Construction Phase Services to the Agreement; and

WHEREAS, it has become necessary to amend the Agreement to modify the provisions for the Scope of Services, Fee and Schedule; and

NOW, THEREFORE, premises considered, the City and the Consultant agree that said Agreement is amended as follows:

1.

Article III. Scope of Services and Attachment 1 shall be amended as set forth in the attached Addendum to Attachment 1 (Item I. Basic Services and Item IV. Schedule).

Article IV. Compensation to Consultant and Attachment 1, shall be amended by increasing by \$3,751,002.00 the amount payable under the Agreement for a total of \$5,216,022.00, as shown by the attached Addendum to Attachment 1 (Item V. Fee Schedule).

2.

Except as amended hereby and as previously amended as indicated above, the terms of the Agreement shall remain unchanged and in full force and effect.

EXECUTED and **AGREED** to as of the dates indicated below.

**CITY OF
PFLUGERVILLE**

CONSULTANT

(Signature)



(Signature)

Printed Name: Sereniah Breland

Printed Name: Marisa Vergara, PE

Title: City Manager

Title: Senior Vice President

Date: _____

Date: 3/18/2024

APPROVED AS TO FORM:



Charles E. Zech
City Attorney

DENTON NAVARRO RODRIGUEZ BERNAL SANTEE & ZECH, P.C.

**ADDENDUM TO ATTACHMENT 1
SCOPE OF SERVICES
SUPPLEMENTAL AGREEMENT #4
SECONDARY COLORADO RIVER RAW WATER LINE -
OWNER'S REPRESENTATIVE**

PFLUGERVILLE, TEXAS

BACKGROUND

The City of Pflugerville's (Owner) has retained CP&Y, Inc. dba STV Infrastructure, Inc. (Consultant) to provide Owner's Representative Services to serve as the Owner's liaison between the Design Consultants, Construction Contractor, Texas Water Development Board (TWDB), and other stakeholders for the Secondary Colorado River Raw Water Line Project (Project).

This Supplemental Agreement includes acting as the City's Owner's Representative for the Construction phase of the Secondary Colorado River Raw Water Line Project. During the Construction Phase STV will also provide Construction Management and Inspection services in connection with the above-referenced project.

I. Basic Services – Construction Phase Services

A. Project Management

This task consists of ongoing project management tasks through the construction phase of the Project and is anticipated to be the duration of the project at twenty-six (26) months.

1. Project Meetings and Workshops
 - a. Monthly Owner's Representative / City Progress meetings (1 per month)
 - b. Weekly team progress coordination meetings (1 per week)
 - c. Internal team coordination
2. Project Administration
 - a. Owner Weekly Project Status Updates: Track documents and transmittals to the Owner, through the construction contractor(s) and Design Consultant and update City weekly on outstanding items requiring City input with a prioritization on critical path tasks.
 - b. Monthly project status report and invoicing (26 months)
3. Project Controls
 - a. Implement and maintain an Electronic Document Management software. Autodesk Construction Cloud software will be utilized and includes providing licenses to the City, Engineer, and Contractor(s).
 - b. Provide training, as needed, on the selected project management software to City and Project Team staff.

- c. Utilize the selected project management software: develop workflows, set communications protocol, and contract administration procedures, establish progress meeting schedule.
- d. Develop Project Implementation Plan
- e. Provide final documentation in electronic form as part of project closeout.

B. Owners Representative Support

This task includes support services provided to the City for technical matters, council briefings, and management and coordination with funding agency(s) associated with funding of the project. Consultant will serve as the City's Owner's Representative/liaison for the funding agency(s). This task shall extend through the anticipated duration of the project (twenty-six (26) months).

1. Technical Oversight/Review Support Services
 - a. Provide technical reviews of up to 45 critical submittals (15 for BP 2 and 15 for each BP 3&4), concurrent with the design consultant's review.
 - b. Provide Technical reviews of up to 60 RFIs for BP 2-4.
2. Environmental Support During Construction Phase
 - a. Attend monthly construction progress meetings as needed to provide technical support to resolve environmental issues that come up during construction.
 - b. Assist in developing solutions for environmental concerns that arise during construction.
3. Council Briefing Support Services
 - a. Assist in the preparation of council briefing presentations for project specific updates. (1 per quarter)
 - b. Attend council briefing sessions (1 per quarter)
4. WIFIA funding compliance
 - a. Monitor and verify compliance with alternative funding requirements as part of the monthly pay requests. (included under pay app effort)
 - b. Conduct quarterly onsite wage rate interviews as required by the WIFIA funding program.
 - c. Quarterly reporting of AIS, certified payroll, and wage-rate compliance interview(s) documentation, project status updates, and other deliverables to be submitted to the City's funding support consultant.
 - d. Prepare for and facilitate annual and project close-out site visits by WIFIA staff.
 - e. Prepare project closeout documentation following final site visit and submit to the City's funding support consultant.
 - f. General coordination with the City's funding support consultant.

C. Construction Management

This task encompasses services required to perform construction management tasks as the City's Owner's Representative during construction. The construction management task shall extend from the time contractor proposals are opened through final invoice approval and is anticipated last 24 months.

1. Pre-construction support
 - a. Evaluate contractor proposals and provide feedback to the City.
 - b. Coordinate with selected contractors to ensure all documentation required by the Contract Documents has been properly executed prior to NTP of the contract.
 - c. Schedule and conduct the pre-construction meeting(s); record and disseminate minutes from pre-construction meeting(s).
 - d. Provide agenda for meeting(s): Key milestone dates, pay application procedures, schedule, public notification issues and procedures, utility coordination issues, traffic control, permitting, property owner notification and coordination, temporary facilities, contractors' use of selected Project Management program, safety program expectations, risk etc.
 - e. Weekly review and status updates related to property acquisition in coordination with 7Arrows and FNI.
 - f. Attend up to 20 landowner/developer coordination meetings easement acquisition discussions on behalf of the City to document decisions.
2. Construction Administration and Management services
 - a. Act as the City's on-site representative administering the contract for construction and providing overall project documentation and maintaining record of decisions and changes made.
 - b. Meetings: Schedule and conduct construction progress meetings; record minutes from construction progress meetings and distribute via the selected Project Management program to: City Project Manager, Design Consultant and Contractor(s) throughout the duration of the project.
 - (i) Schedule bi-monthly meetings with each construction contractor, to review the following: work progress and schedule, outstanding issues, status of submittals and responses shop drawings unforeseen issues and changes to the work One meeting per month to include City, Design Consultant, and Contractor(s). One meeting per month between CM and contractor(s), City and Design consultant optional.
 - (ii) Coordinate up to 2 additional meetings per month as necessary to discuss and resolve problems and provide guidance in a timely manner.
 - (iii) Coordinate/monitor the following: utility relocation activities for compliance, utility installation verification, reporting, record management and as-built drawings.
 - (iv) Attend up to 48 utility coordination, construction, and stakeholder meetings and record actions/decisions made.
 - (v) Obtain copy of ROW permits and plans to monitor progress of specialty inspections and critical utility services or relocations per permits/plans.

3. Document Management and Control
 - a. Utilize the selected Project Management software to receive, route, track and log Contractor communications, Submittals, Change Orders, RFIs, Pay Applications and Citizen Complaint/Resolution Log, and permits; communicate with Contractor the status of submittal reviews; review submittal and RFI log in the selected Project Management program to ensure timely responses; notify City Project Manager, Contractor, and Design Consultant of time critical issues.
 - b. Maintain records of decisions, actions, and activities with regards to construction operations using the selected project management software and appropriate tracking logs.
 - c. Assemble and maintain notes, comments, sketches, and supportive data relative to the Project to facilitate the review of drawings and their conformance to the final as-built conditions. Review Contractor's record keeping monthly to ensure completeness, timeliness, and progress.
4. Manage Construction
 - a. Provide full-time, onsite construction management to represent the City and provide oversight of the project contractor(s) activities.
 - b. Serve as liaison between Owner's project team, design consultant, and construction contractor(s) throughout the construction phase of the Project.
 - c. Manage on-site inspections staff to ensure production work activities are observed and documented.
 - d. As field problems arise, notify/consult with the Design Engineer and City Project Manager of proposed solutions to resolve problems.
 - e. Notify the City Project Manager and Design Consultant of any failure of the Contractor to take measures to repair and bring work into compliance.
 - f. Immediately notify the City Project Manager and Design Consultant in the event of an on-site accident. Ensure Contractor follows emergency response protocols and provides documentation and required by the contract documents.
 - g. Review as-built documents monthly, as part of the pay application review with the contractor(s).
 - h. Monitor and ensure adherence to approved project baseline schedule. Review contractors' schedule(s) monthly, ensure compliance with City's intended schedule, and provide recommendations as needed to retain and regain schedule if needed.
 - i. Recommend alternate project sequencing/scheduling to keep project on schedule.
 - j. Maintain Resolution Log and respond to citizen complaints in The City's Project Management program software. Consult with City Project Manager and Design Engineer/Architect in advance of scheduled major work operations, tests, inspections or start of important phases of project. Schedule Pre-Activity meetings with appropriate City Staff to document and ensure plan of action identified is maintained and serves to reduce the impact of construction to City operations and is planned and executed accordingly.
 - k. Prepare monthly summary report of construction activities (Construction Activity Reports) with outstanding issues outlined for review. Monthly progress information associated with the project will be submitted to the Project Manager for review and approval.

- c. Evaluate Contractor's response/proposal for merit, cost, time, accuracy, and price practicality. Negotiate with Contractor on City's behalf, if requested.
 - d. Prepare Change Order and documentation including signatures of Contractor, Engineer, and Construction Manager for delivery to City.
9. Construction Materials Testing Laboratory Results (see assumption "C")
- a. Conduct a pre-construction coordination meeting with the City's selected 3rd party Construction Materials Testing lab with the Construction Contractor to outline expectations, communication protocols, frequency of tests, and optimization of work.
 - b. Review test reports for compliance with Contract Documents. Log, track and retain test reports in the selected Project Management Software. Review results with Contractor. Monitor and track corrective action and re-testing for compliance.
 - (i) Review lab test reports and log failures.
 - (ii) Review invoicing from Laboratory and ensure correct invoicing to the project and to daily activities.
10. Project Completion and Closeout
- a. Provide list of deliverables for substantial completion walk-through/inspection. Schedule and conduct project walk-through upon receipt of Contractor's notification of substantial completion. Include City Project Manager, Design Consultant and others as directed. Coordinate with Design Consultant on preparation of a list of non-conforming work based on visual inspections and track via the selected Project Management program. Record and monitor contractors' corrective efforts and schedule. Schedule final completion inspection for any remaining corrections.
 - b. Coordinate and obtain Engineer of Record's signature and seal on Substantial Completion certificate and Final Completion and Acceptance certificate via the selected Project Management program. Ensure all documents required for the City's acceptance of the project are obtained and submitted in a timely fashion for the prompt completion of the project.
 - c. Review and forward any Operation and Maintenance documents required from the Contractor to the Engineer of Record and S&C consultant for review. Ensure Contractors' closeout documents are uploaded to the selected Project Management program. Coordinate with the contractor(s) to ensure training required for City staff to operate equipment is scheduled and completed. Review for completeness and accuracy, including affidavits of final payment, final pay estimates, as built records, redlines and drawings. Once received, notify the Design Engineer and City Project Manager when completed.
 - d. Conduct Project Close-Out Meeting.
 - e. Upon completion of the work, prepare a final progress payment including a balancing change order zeroing out all unused quantities utilizing the selected Project Management program. Identify and reconcile SOV quantities and make approved changes to the Contract Time.
 - f. Review and coordinate with Design Consultant to provide Engineer of Record recommendation for Substantial Completion and Final Acceptance. (See Close-out Section)
 - g. Compile contractor(s) redlines, daily logs, RFIs, final approved submittals in an organized file for delivery to City in electronic format.

- h. Consult with City on potential Warranty items requiring repair or replacement. Warranty issues that arise after final completion can be addressed as supplemental service. (See item II.E below)
11. Start-up and Commissioning Oversight and Coordination
- a. General coordination with the Design Consultant and the Construction Contractor(s) for Start-Up and Commissioning activities.
 - b. Review the contractor's system start-up and commissioning plan(s) and provide feedback.
 - c. Facilitate up to 2 pre-commissioning meetings to coordinate Start-up and commissioning activities between the pump station and pipeline contracts.
 - d. Attend up to 5 onsite facility start-up meetings for BP 1 and 2 conducted by the Contractor.
 - e. Attend up to 4 onsite pipeline start-up meetings for BP 3 and 4 conducted by the Contractor(s).
 - f. Review of the Contractor, Process Control System Integrator (PCSI), and Application Services provider's Instrumentation and Controls submittals.
 - g. Review of the Contractors I&C testing plan
 - h. Provide engineer to attend factory witness test for Process control and instrumentation hardware (2 days)
 - i. Provide engineer to attend up to 2 on-site start-up meetings to oversee and troubleshoot I&C integration.
 - j. Provide engineer to attend final acceptance test and walk through.

D. Construction Observation Services

Provide a Construction Inspection team for observation and documentation of construction activities to ensure conformance to the Contract Documents and adherence to the Contractor(s) approved Quality Control Plan.

1. Observation team structure as follows:
- a. Bid Package 2 (Pump Station) – Part time onsite observation and documentation of work activities through final completion (Fee is based on the 16-month construction duration provided by the Design Consultant's Master schedule)
 - b. Bid Package 2 (Pump Station) – Specialty inspections as outlined below.
 - (i) Comprehensive review of project documents associated with the HVAC improvements and up to 2 specialty inspections of the HVAC system.
 - (a) One interim inspection of the HVAC system
 - (b) One inspection at substantial completion of the HVAC system
 - (c) Periodic review of progress photos for conformance to contract documents.
 - (ii) Comprehensive review of the project documents associated with the structural improvements and up to 5 specialty structural/mechanical inspections.
 - (a) Rebar and concrete pour observations for elevated generator pad columns

- (b) Rebar and anchor bolt placement and concrete pour observations for elevated generator slab
 - (c) Rebar and concrete pour observations for aerial pipe supports.
 - (d) Aerial pipe catwalk installation
 - (iii) Comprehensive review of the project documents associated with the electrical improvements and up to 5 specialty electrical inspections.
 - (a) Generator grounding and conduit routing inspection
 - (b) Final conduit routing review prior to control panel installation
 - (c) Pump motor grounding and conduit routing
 - (d) Switchboard grounding and conduit routing
 - c. Bid Package 3 (Pipeline) – Full time onsite observation and documentation of work activities through final completion (Fee is based on the 21-month construction duration provided by the Design Consultant’s Master schedule)
 - d. Bid Package 4 (Pipeline) – Full time onsite observation and documentation of work activities through final completion (Fee is based on 18-month construction duration provided by the Design Consultant’s Master schedule)
 - e. All packages – Part time Field Engineer to support the Construction Manager, Inspectors, and Specialty Inspectors.
2. Observation services as follows:
- a. Notify the Construction Manager if Contractor’s work is not in compliance with the Contract Documents or Specifications.
 - b. Issue Advisory Notices to Contractor for work that is not in compliance with approved construction documents.
 - c. Issue Non-Compliance Reports to Contractor if non-conforming work is not brought into compliance or if plan of action to bring work into compliance is not conducted in a timely manner.
 - d. Inspect and observe the materials and equipment being incorporated into the work to assure that they are handled, stored, and installed in accordance with the Contract Documents and specifications. Report to the Construction Manager regarding these activities.
 - e. Identify, record, and notify Construction Manager of any problems or failures to meet performance requirements in a timely manner to minimize delay in the progress of the project.
 - f. Prepare and maintain daily progress log or daily construction reports, photographs, records, and track quantities installed daily utilizing the City’s Project Management software.
 - g. Ensure Contractor reviews and approves daily reports and quantities.
 - h. Verify Contractor has obtained necessary permits and is maintaining any Traffic Control, public notification and Storm Water Pollution Prevention Plans, facilities, equipment, or arrangements in accordance with the contract documents.
 - i. Attend and participate in progress meetings.
 - j. Immediately notify the Construction Manager in the event of an on-site accident. Record and note conditions, activities, and witness to the event.

- k. Consult with the Construction Manager in advance of scheduled major work operations, tests, inspections or start of important phases of project.
- l. Attend Pre-Activity meetings, document and ensure plan of action identified is maintained and serves to reduce the impact of construction to City operations and is planned and executed accordingly.
- m. Population, review, and maintenance of CMT logs.
- n. Coordination of up to 15 specialty site observations.
 - (i) Includes 3rd party continuity testing observation, structural steel inspection, micro tunnelling operations, shrink wrap pull tests, etc.
 - (ii) Specialty tunneling observation(s) will be coordinated with the Design Consultant's trenchless expert.
- o. Provide onsite observation and documentation of final restoration, SWWWP compliance, punch list closeout, demobilization between substantial and final completion. (Fee based on two inspectors overseeing final completion activities over a 4-month duration for final completion)

II. Supplemental Services

The services described below require authorization by the Owner prior to proceeding with work.

- A. City Staff Augmentation
- B. Public Relations
- C. Provide services for additional CMI services if Package 3 and Package 4 are awarded to two different contractors.
 - 1. Additional construction meetings for one additional package (bimonthly).
 - 2. Additional technical reviews of up to 15 critical submittals concurrent with the design consultant's review, as requested by the City.
 - 3. Additional pre-construction services.
 - 4. Additional construction administration services.
 - 5. Additional construction management services.
 - 6. Additional document management and control.
 - 7. Additional project schedule and pay application review.
 - 8. Additional change management coordination.
 - 9. Additional log population and management efforts (action item, decision, CMT, risk).
 - 10. Additional project completion/closeout and start-up and commissioning coordination.
- D. Recommend and provide additional construction observation staff, as needed, to support additional pipe installation headings and/or excessive work hours by the awarded contractor(s).
- E. Warranty Period Support
 - a. Schedule, arrange and coordinate a One-Year Walk-through of the project to review status of the work 30 days prior to expiration of the One Year Maintenance period for each Bid Package.
 - b. Provide staff to conduct and participate in the warranty inspections.
Coordinate with Design Consultant to prepare list of non-conforming work for presentation to the City Project Manager, Design Consultant and Contractor(s) via The City's Project Management program.
 - c. Coordinate repairs of non-conforming work with Contractor.
 - d. Submit final report on completed warranty repairs via the selected Project Management program.
- F. USFW Migratory Bird Treaty Act Compliance
 - 1. Provide migratory bird nest surveys during nesting season (March 15-September 15) prior to vegetation clearing for compliance with the Migratory Bird Treaty Act, as enforced by USFWS and TPWD. This assumes clearing activities will take place outside of the 2024 migratory bird nesting season on BP 4 and that migratory bird surveys will be required for BP 3 for 1 month in 2024 and 6 months in 2025.
- G. Environmental support for TWDB and/or EPA requirements
 - 1. Provide on-call hazardous materials testing and evaluation for unforeseen issues.

2. Provide on-call environmental services to address unforeseen issues that arise during construction that require additional permitting or federal agency coordination.
- H. Support generator procurement efforts that extend beyond the anticipated project duration(s)
 - I. Additional administrative support for any alternative funding outside of the WIFIA program.
 - J. Additional meetings not covered under the Project Management and Owner's Representative tasks above.

III. Assumptions

- A. This scope of work assumes that there will be one Contractor awarded both package 3 and package 4. If package 3 and package 4 are awarded individually, additional services Item C outlines the additional effort required for coordination with the third Contractor.
- B. The City's Design Consultant will be providing construction phase engineering services and will be responsible for items such as: responding to Construction Contractor(s) submittals, RFI's, and other clarification documents and requests related to the project design. This shall include site visits and other approvals.
- C. Construction Contractor(s) responsible for managing the City's 3rd party Construction Materials Testing lab and notifying the CMCI team when the testing activities will take place.
- D. Any additional assistance associated with litigation, mediation, arbitration, dispute review boards, or other legal and/or administration proceedings between the Owner and other entities associated with the project are not included in this contract but can be provided as an Additional Service at the Owner's request.
- E. Onsite office facilities will be provided to the CMCI staff through the City's contract with the Construction Contractor.
- F. Assumptions for the duration of each task are based on the Design Consultant's Master Schedule. Extensions to the durations of these tasks as a result of project delays shall be eligible for compensation via supplemental agreement.
- G. Development of reporting standards and templates for City wide WIFIA reporting will be provided under separate contract.

Item IV. Schedule

City of Pflugerville
Secondary Colorado River Raw Water Line - Owner's Representative
PSSA #4 - Owner's Representative and CMCI Construction Phase Services

Project Schedule

BASIC SERVICES - SCR RWL

Task No.	Task	2023							2024							2025							2026														
		J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
I.A	Project Management	PSSA #2 Extension							PSSA #3 EXT																												
I.B	Owners Representative	PSSA #2 Extension							PSSA #3 EXT																												
I.C	Funding Support	PSSA #2 Extension																																			
I.C	Construction Management																																				
I.D.1	Construction Observation - Package 2 - Award 8/20/2024																																				
I.D.2	Construction Observation - Package 3 - Award 8/6/2024																																				
I.D.3	Construction Observation - Package 4 - Award 8/6/2024																																				

Item V. Fee Schedule

Secondary Colorado River Raw Water Line - Owner's Representative PSSA #4 - Owner's Representative and CMCI Construction Phase Services

Fee Schedule

Project Phase	Task Description	Owner's PM	Permitting Advising	QA/QC / Tech. Advisor	Senior Engineer	PE III	PE I	Senior Controls	Admin	Sr. Environ. Planner	Field Biologist	Funding Specialist	Construction Manager	Field Engineer	Senior Inspector	Inspector	Total Labor Hours	Total Direct Labor Costs	STV Expenses	AAACE Subconsultant Cost	V&A Subconsultant Cost	Total Subconsultant Cost	Total Costs
		\$ 295.00	\$ 250.00	\$ 275.00	\$260.00	\$ 210.00	\$ 155.00	\$ 175.00	\$ 100.00	\$ 175.00	\$ 100.00	\$ 160.00	\$ 180.00	\$ 145.00	\$ 155.00	\$135.00							
I. BASIC SERVICES - SCR RWL																							
A. Project Management																							
1.	Meetings/Workshops	104		26	26	26	26	104				26					338	\$ 76,440.00				\$ -	\$ 76,440.00
2.	Project Administration	52							130				26				208	\$ 33,020.00				\$ -	\$ 33,020.00
3.	Project Controls	9			2	2	2	314	281				28	4		8	650	\$ 93,655.00				\$ -	\$ 93,655.00
TASK A. TOTALS																	1,196	\$ 203,115.00	\$ -	\$ -	\$ -	\$ -	\$ 203,115.00
B. Owner's Representative Support																							
1.	Technical Oversight/Review Support Services	80			80	80	140	40	80					140			640	\$ 118,200.00		\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 138,200.00
2.	Environmental Support During Construction Phase							40		100							140	\$ 24,500.00				\$ -	\$ 24,500.00
3.	Council Briefing Support Services (1 per Quarter)	48						18	9				48				123	\$ 26,850.00				\$ -	\$ 26,850.00
4.	WIFIA funding compliance	40						40	36				200				316	\$ 58,400.00	\$ 750.00			\$ -	\$ 59,150.00
TASK B. TOTALS																	1,219	\$ 227,950.00	\$ 750.00	\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 248,700.00
C. Construction Management																							
1.	Pre-Construction Support	8						10	8				52	22			100	\$ 17,460.00				\$ -	\$ 17,460.00
2.	Construction Administration and Management Services	20							277				450	108			855	\$ 130,260.00				\$ -	\$ 130,260.00
3.	Document Management and Control								345				213	268			826	\$ 111,707.00				\$ -	\$ 111,707.00
4.	Manage Construction	8			80								1,040	540	160		1,828	\$ 313,460.00				\$ -	\$ 313,460.00
5.	Coordinate work with external agencies	8	8						80				208	104			408	\$ 64,880.00				\$ -	\$ 64,880.00
6.	Project Schedule Reviews	8						45					136	56			245	\$ 42,835.00				\$ -	\$ 42,835.00
7.	Pay Applications								24				182	95			301	\$ 48,935.00				\$ -	\$ 48,935.00
8.	Change orders	16											144	144			304	\$ 51,520.00				\$ -	\$ 51,520.00
9.	Construction Materials Testing Lab Results								90				110	110			310	\$ 44,750.00				\$ -	\$ 44,750.00
10.	Project Completion and Closeout	8						120	120				240	80			568	\$ 90,160.00				\$ -	\$ 90,160.00
11.	Start-up and Commissioning Oversight and Coordination Expenses	16			60		48	36	20				120	40	100		440	\$ 78,960.00	\$ 5,000.00			\$ -	\$ 83,960.00
TASK C. TOTALS																	6,185	\$ 994,927.00	\$ 77,000.00	\$ -	\$ -	\$ -	\$ 1,071,927.00
D. Construction Observation Services																							
1.	Construction Observation Team												64	1,445			1,509	\$ -				\$ -	\$ -
a.	Package 2 Onsite Observation																264	\$ 221,045.00	\$ 14,800.00			\$ -	\$ 235,845.00
b.	Package 2 Specialty Inspections																84	\$ 40,920.00	\$ 7,000.00	\$ 8,000.00		\$ 8,000.00	\$ 63,920.00
c.	Package 3 Onsite Observation																72	\$ 519,270.00	\$ 40,000.00			\$ -	\$ 559,270.00
d.	Package 4 Onsite Observation																45	\$ 443,430.00	\$ 34,000.00			\$ -	\$ 477,430.00
e.	All Packages - Part Time Resident Engineer																45	\$ 6,525.00				\$ -	\$ 6,525.00
TASK D. TOTALS																	8,874	\$ 1,231,190.00	\$ 95,800.00	\$ 8,000.00	\$ -	\$ 8,000.00	\$ 1,342,990.00
I. BASIC SERVICES - SCR RWL TOTAL																	17,474	\$ 2,657,182.00	\$ 173,550.00	\$ 13,000.00	\$ 5,000.00	\$ 18,000.00	\$ 2,866,732.00
II. SUPPLEMENTAL SERVICES																							
A.	City Staff Augmentation	80	80			120			80								360	\$ 76,800.00				\$ -	\$ 76,800.00
B.	Public Relations	80							40								120	\$ 27,600.00				\$ -	\$ 27,600.00
C.	CMCI Services if Package 3 and 4 are awarded separately	44			28	28	48	54	240	16			240	60			758	\$ 121,730.00				\$ -	\$ 121,730.00
D.	Recommend and provide additional CI staff															1,880	1,880	\$ 253,800.00	\$ 20,000.00			\$ -	\$ 273,800.00
E.	Warranty Period Support	40						80	20				120	80			380	\$ 66,400.00				\$ -	\$ 66,400.00
F.	Migratory Bird Survey Requirements									116	740						896	\$ 99,700.00	\$ 15,000.00			\$ -	\$ 114,700.00
G.	Environmental Support TWDB Mitigation Requirements									80	160		40				280	\$ 37,200.00				\$ -	\$ 37,200.00
H.	Generator Procurement Efforts	40						80	40				160				320	\$ 58,600.00				\$ -	\$ 58,600.00
I.	Additional Funding Support (non-WIFIA)	24						60		24		200	80				388	\$ 68,180.00				\$ -	\$ 68,180.00
J.	Additional PM/OR Meetings	26						52	52			26	52	26			234	\$ 39,260.00				\$ -	\$ 39,260.00
II. SUPPLEMENTAL SERVICES - SCR RWL TOTAL																	5,616	\$ 849,270.00	\$ 35,000.00	\$ -	\$ -	\$ -	\$ 884,270.00
GRAND TOTAL		425	8	26	248	108	216	767	1,500	100	0	26	3,417	3,513	524	6,596	23,090	\$ 3,506,452	\$ 208,550	\$ 13,000	\$ 5,000	\$ 18,000	\$ 3,751,002.00

Item V (cont.). Labor Hour Detail

**Secondary Colorado River Raw Water Line - Owner's Representative
PSSA #4 - Owner's Representative and CMI Construction Phase Services**

Labor Hour Detail

Project Phase	Task Description	Owner's PM	Permitting Advising	QA/QC / Tech. Advisor	Senior Engineer	PE III	PE I	Senior Controls	Admin	Sr. Environ. Planner	Field Biologist	Funding Specialist	Construction Manager	Field Engineer	Senior Inspector	Inspector	Total Labor Hours	
		\$ 295.00	\$ 250.00	\$ 275.00	\$260.00	\$ 210.00	\$ 155.00	\$ 175.00	\$ 100.00	\$ 175.00	\$ 100.00	\$ 160.00	\$ 180.00	\$ 145.00	\$ 155.00	\$135.00		
I. BASIC SERVICES - SCR RWL																		
A.	Project Management																	
1.	Meetings/Workshops	104		26	26	26	26	104				26					338	
2	Project Administration	52							130				26				208	
3	Project Controls	9			2	2	2	314	281				28	4		8	650	
																	TASK A. TOTALS	1,196
B.	Owner's Representative Support																	
1.	Technical Oversight/Review Support Services	80			80	80	140	40	80					140			640	
2	Environmental Support During Construction Phase							40		100							140	
3	Council Briefing Support Services (1 per Quarter)	48						18	9				48				123	
4	WIFIA funding compliance	40						40	36				200				316	
																	TASK B. TOTALS	1,219
C	Construction Management																	
1	Pre-Construction Support	8						10	8				52	22			100	
2	Construction Administration and Management Services	20							277				450	108			855	
3	Document Management and Control								345				213	268			826	
4	Manage Construction	8			80								1,040	540	160		1,828	
5	Coordinate work with external agencies	8	8						80				208	104			408	
6	Project Schedule Reviews	8						45					136	56			245	
7	Pay Applications								24				182	95			301	
8	Change orders	16											144	144			304	
9	Construction Materials Testing Lab Results								90				110	110			310	
10	Project Completion and Closeout	8						120	120				240	80			568	
11	Start-up and Comissioning Oversight and Coordination Expenses	16			60		48	36	20				120	40	100		440	
																	TASK C. TOTALS	6,185
D	Construction Observation Services																	
1	Construction Observation Team																	
a	Package 2 Onsite Observation												64	1,445			1,509	
b	Package 2 Specialty Inspections														264		264	
c	Package 3 Onsite Observation												84	168		3,554	3,806	
d	Package 4 Onsite Observation												72	144		3,034	3,250	
e	All Packages - Part Time Resident Engineer													45			45	
																	TASK D. TOTALS	8,874
																	I. BASIC SERVICES - SCR RWL TOTAL	17,474
II. SUPPLEMENTAL SERVICES																		
A.	City Staff Augmentation	80	80			120			80								360	
B.	Public Relations	80							40								120	
C.	CMI Services if Package 3 and 4 are awarded separately	44			28	28	48	54	240	16			240	60			758	
D.	Recommend and provide additional CI staff															1,880	1,880	
E.	Warranty Period Support	40						80	20				120	80		40	380	
F.	Migratory Bird Survey Requirements									116	740					40	896	
G.	Environmental Support TWDB Mitigation Requirements									80	160		40				280	
H.	Generator Procurement Efforts	40						80	40				160				320	
I.	Additional Funding Support (non-WIFIA)	24						60		24		200	80				388	
J.	Additional PM/OR Meetings	26						52	52			26	52	26			234	
																	II. SUPPLEMENTAL SERVICES - SCR RWL TOTAL	5,616
GRAND TOTAL		425	8	26	248	108	216	767	1,500	100	0	26	3,417	3,513	524	6,596	23,090	

Item V (cont.). Cost Summary

**Secondary Colorado River Raw Water Line - Owner's Representative
PSSA #4 - Owner's Representative and CMCI Construction Phase Services**

Cost Summary

Project Phase	Task Description	Total Labor Hours	Total Direct Labor Costs	STV Expenses	AACE Subconsultant Cost	V&A Subconsultant Cost	Total Subconsultant Cost	Total Costs
I. BASIC SERVICES - SCR RWL								
A.	Project Management							\$ -
1.	Meetings/Workshops	338	\$ 76,440.00				\$ -	\$ 76,440.00
2	Project Administration	208	\$ 33,020.00				\$ -	\$ 33,020.00
3	Project Controls	650	\$ 93,655.00				\$ -	\$ 93,655.00
		1,196	\$ 203,115.00	\$ -	\$ -	\$ -	\$ -	\$ 203,115.00
B.	Owner's Representative Support							\$ -
1.	Technical Oversight/Review Support Services	640	\$ 118,200.00		\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 138,200.00
2	Environmental Support During Construction Phase	140	\$ 24,500.00				\$ -	\$ 24,500.00
3	Council Briefing Support Services (1 per Quarter)	123	\$ 26,850.00				\$ -	\$ 26,850.00
4	WIFIA funding compliance	316	\$ 58,400.00	\$ 750.00			\$ -	\$ 59,150.00
		1,219	\$ 227,950.00	\$ 750.00	\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 248,700.00
C	Construction Management							\$ -
1	Pre-Construction Support	100	\$ 17,460.00				\$ -	\$ 17,460.00
2	Construction Administration and Management Services	855	\$ 130,260.00				\$ -	\$ 130,260.00
3	Document Management and Control	826	\$ 111,707.00				\$ -	\$ 111,707.00
4	Manage Construction	1,828	\$ 313,460.00				\$ -	\$ 313,460.00
5	Coordinate work with external agencies	408	\$ 64,880.00				\$ -	\$ 64,880.00
6	Project Schedule Reviews	245	\$ 42,835.00				\$ -	\$ 42,835.00
7	Pay Applications	301	\$ 48,935.00				\$ -	\$ 48,935.00
8	Change orders	304	\$ 51,520.00				\$ -	\$ 51,520.00
9	Construction Materials Testing Lab Results	310	\$ 44,750.00				\$ -	\$ 44,750.00
10	Project Completion and Closeout	568	\$ 90,160.00				\$ -	\$ 90,160.00
11	Start-up and Comissioning Oversight and Coordination Expenses	440	\$ 78,960.00	\$ 5,000.00			\$ -	\$ 83,960.00
		0	\$ -	\$ 72,000.00			\$ -	\$ 72,000.00
		6,185	\$ 994,927.00	\$ 77,000.00	\$ -	\$ -	\$ -	\$ 1,071,927.00
D	Construction Observation Services							\$ -
1	Construction Observation Team		\$ -				\$ -	\$ -
a	Package 2 Onsite Observation	1,509	\$ 221,045.00	\$ 14,800.00			\$ -	\$ 235,845.00
b	Package 2 Specialty Inspections	264	\$ 40,920.00	\$ 7,000.00	\$ 8,000.00		\$ 8,000.00	\$ 63,920.00
c	Package 3 Onsite Observation	3,806	\$ 519,270.00	\$ 40,000.00			\$ -	\$ 559,270.00
d	Package 4 Onsite Observation	3,250	\$ 443,430.00	\$ 34,000.00			\$ -	\$ 477,430.00
e	All Packages - Part Time Resident Engineer	45	\$ 6,525.00				\$ -	\$ 6,525.00
		8,874	\$ 1,231,190.00	\$ 95,800.00	\$ 8,000.00	\$ -	\$ 8,000.00	\$ 1,342,990.00
		17,474	\$ 2,657,182.00	\$ 173,550.00	\$ 13,000.00	\$ 5,000.00	\$ 18,000.00	\$ 2,866,732.00
II. SUPPLEMENTAL SERVICES								
A.	City Staff Augmentation	360	\$ 76,800.00					\$ 76,800.00
B.	Public Relations	120	\$ 27,600.00					\$ 27,600.00
C.	CMI Services if Package 3 and 4 are awarded separately	758	\$ 121,730.00					\$ 121,730.00
D.	Recommend and provide additional CI staff	1,880	\$ 253,800.00	\$ 20,000.00				\$ 273,800.00
E.	Warranty Period Support	380	\$ 66,400.00					\$ 66,400.00
F.	Migratory Bird Survey Requirements	896	\$ 99,700.00	\$ 15,000.00				\$ 114,700.00
G.	Environmental Support TWDB Mitigation Requirements	280	\$ 37,200.00					\$ 37,200.00
H.	Generator Procurement Efforts	320	\$ 58,600.00					\$ 58,600.00
I.	Additional Funding Support (non-WIFIA)	388	\$ 68,180.00					\$ 68,180.00
J.	Additional PM/OR Meetings	234	\$ 39,260.00					\$ 39,260.00
		5,616	\$ 849,270.00	\$ 35,000.00	\$ -	\$ -	\$ -	\$ 884,270.00
GRAND TOTAL		23,090	3,506,452	208,550	13,000	5,000	18,000	3,751,002.00