

**INTERGOVERNMENTAL AGREEMENT
BETWEEN
CITY OF TEMPE
AND
CITY OF MESA**

This Intergovernmental Agreement (“Agreement”) is made and entered into this _____ day of _____ 2021, (“Effective Date”), by and between the City of Tempe (“Tempe” or “City of Tempe”), a municipal corporation duly organized and existing under the laws of the State of Arizona, and the City of Mesa (“Mesa” or “City of Mesa”), a municipal corporation duly organized and existing under the laws of the State of Arizona. The entities are referred to jointly herein as “Parties” and individually as “Party”. This Agreement constitutes the entire understanding and agreement of the Parties.

RECITALS

- A. Arizona Revised Statutes (A.R.S.), § 11-951 through § 11-954, provides that public agencies may enter into intergovernmental agreements for the provisions of services or for joint and cooperative action.
- B. Tempe is empowered by Tempe City Charter Section 1.03 to enter into this Agreement and has authorized the undersigned to execute this Agreement on behalf of the City.
- C. Mesa is empowered by Mesa City Charter Section 103 to enter into this Agreement and has authorized the undersigned to execute this Agreement on behalf of the City.
- D. The Parties have an existing Intergovernmental Agreement, dated December 26, 1979 (hereinafter “1979 IGA”), for operation and maintenance of a jointly used trunk sewer along the Western Canal within the City of Tempe (“Western Canal Interceptor”) (1979 IGA attached as “**Exhibit A**”).
- E. The Parties desired to engage in a project to rehabilitate portions of the shared Western Canal Interceptor (the “Western Canal Work”). A Map of the Western Canal Interceptor is attached as “**Exhibit B**”.
- F. Completion of the Western Canal Work will require extensive by-pass pumping, which will result in traffic disruption in the area of Baseline Road and Kyrene Road.
- G. Mesa is the sole owner of a 54-inch sewer segment that is approximately 180 feet long that is located near the portion of the Western Canal Interceptor that is to be rehabilitated (hereinafter “the Mesa Sewer”). The location of the Mesa Sewer is identified on the map attached as “**Exhibit B**”.
- H. Mesa desires to rehabilitate the Mesa Sewer (the “Mesa Sewer Work”), which will also require by-pass pumping and the potential for traffic disruption in the area of Baseline and Kyrene Road.

- I. Completing the Mesa Sewer Work concurrently with the Western Canal Work as part of a single project will benefit Mesa by saving the costs of future by-pass pumping, and benefit Tempe by reducing the amount of traffic disruption in the area of the Project.
- J. The Parties have therefore determined that the Mesa Sewer Work can be completed concurrent with the Western Canal Work (collectively the “Project”), with the costs of bypass pumping and the Western Canal Work being shared by the Parties, Mesa being responsible for the costs of the Mesa Sewer Work, and Tempe being responsible for certain work which benefits Tempe.
- K. The Parties wish to enter into this Agreement to memorialize their understanding regarding their rights and responsibilities as to the Project.

NOW, THEREFORE, in consideration of the foregoing recitals, which are incorporated herein, and the covenants and promises set forth below, the City of Tempe and the City of Mesa hereby mutually agree as follows:

AGREEMENT

- 1. **Purpose.** The purpose of this Agreement is to set forth the rights and responsibilities of the parties regarding the Project. The Parties agree that Tempe will be the lead agent with respect to the Project. As Lead Agent, Tempe will be responsible for administering and managing the design and construction of the Project in accordance with the terms of the 1979 IGA as supplemented by this Agreement, including acting as the contracting party with any and all contractors, obtaining all necessary permits, and supervising such contractors working on the Project. Tempe will involve Mesa in administration and management, and coordinate inspection of the progress of the Project with Mesa as set forth herein.
- 2. **Procurement.** Tempe will procure the services necessary to complete the Project, including the Mesa Sewer Work, in accordance with all Applicable Law, including A.R.S. Article 2, Title 34, as amended. To that end, Tempe has received a Construction Manager at Risk/Guaranteed Maximum Price 95% Proposal for the Project dated May 12, 2021. The Cover Letter, Scope of Work, and Schedule of Values are attached as “**Exhibit C**”. Tempe shall have the authority to enter into a contract with the Exhibit C Contractor, using Tempe’s own form of contract, provided it gives Mesa a reasonable opportunity to review and comment on final form prior to execution. Tempe shall ensure that the Contractor shall be fully licensed and bonded for payment and performance so as to be in full compliance with the provisions of A.R.S. Article 2, Title 34, as amended.
- 3. **Cost Allocations, Costs, Change Orders and Reimbursement.**
 - 3.1 **Estimated Costs and Allocations.** The Estimated Costs and Cost Sharing Allocation amounts for the Project, including the Western Canal Work and Mesa Sewer Work, are set forth in the attached “**Exhibit D**” which is hereby fully incorporated within

this Agreement by reference. Tempe and Mesa agree to pay their respective Cost Sharing Allocation amounts as set forth in Exhibit D. The Parties agree that the final costs may vary by plus or minus three percent (3%) from those contained within Exhibit B (which represents the 95% GMP estimate), and are also subject to increase for Change Orders as provided in Section 3.2 of this Agreement, and the Estimated Costs and Cost Sharing Allocation amounts set forth in Exhibit D will be adjusted in a corresponding manner.

- 3.2 Change Orders. Tempe shall notify in Mesa writing of any change order requests related to the Total GMP Cost or any part thereof (“Change Orders”). Should Mesa object to any requested Change Order, it shall respond in writing within five (5) business days of receipt of such notice. Tempe shall give due consideration to any objection from Mesa but shall have sole discretion (which shall not be exercised unreasonably) to execute any commercially reasonable change order. Notwithstanding the preceding, Tempe agrees that it must obtain written approval from Mesa before executing any change orders that (1) materially alter the Scope of Work or the Approved Construction Documents agreed to by the Parties, or (2) alter the Total GMP Cost of the Project (excluding the Administrative and Overhead Costs) by more than ten percent (10%), or the Mesa Sewer Work Cost by more than twenty percent (20%).
- 3.3 Advance of Costs. Tempe shall pay upfront all costs associated with the project, including applicable permit fees (if any), construction administration, and construction of the Project.
- 3.4 Reimbursement. Mesa will reimburse to Tempe its Cost Sharing Allocation amounts based on the costs actually incurred and in amounts up to the amounts referenced in Section 3.1 and set forth in Exhibit D to this Agreement based on the GMP Proposal plus any applicable Change Orders. Mesa will reimburse such amounts within 30 days of Mesa receiving payment requests from Tempe.

Tempe will request reimbursement payment from Mesa at three stages of the Project: 1) upon completion and closeout of the Project design phase contracts; 2) upon completion and billing by contractor for fifty percent (50%) of the construction work; and 3) upon completion and closeout of all Project contracts. All requests for payment reimbursement will be supported with copies of all project invoices. The final request for payment will also include 1) sealed record drawings of the Project, including the rehabilitated Mesa Sewer; 2) a working electronic copy of post-construction CCTV video of the installed and accepted pipe lining of the Mesa Sewer; 3) construction photographs of the Mesa Sewer Work, and 4) a copy of the "Certificate of Final Completion" for the entire Project.

- 3.5 Cost Responsibility. Tempe will be solely responsible for payment of the Tempe Cost Sharing Allocation amounts and shall hold Mesa harmless regarding any claims related to same. Mesa shall be solely responsible for payment of the Mesa Cost Sharing Allocation amounts and shall hold Tempe harmless regarding any

claims resulting from failure to reimburse Tempe in accordance with the terms of this Agreement.

- 3.6 Appropriation. Both Parties hereby covenant that they have obtained appropriations adequate to fulfill their payment obligations under this Agreement.

4. **Scope of Work and Plans and Specifications.**

The Parties have reviewed and approved the Scope of Work (the “Scope”) as set forth in the GMP Proposal, the 95% Plans and Technical Specifications for the Project No. 3221021B submitted April 7, 2021, along with the Design Drawings of the same date (collectively the “Approved Construction Documents”). Tempe will provide Mesa with at least five (5) business days to review and provide comments on any revisions or amendments to the Scope or the Approved Construction Documents in the manner set forth for Change Orders as provided in Section 3.4.

5. **Construction.**

- 5.1 Construction of the Project. Tempe shall perform such duties as may be necessary to act as Lead Agent on the Project and provide for the completion of construction of the Project in a good and workmanlike manner and all in full compliance with the Approved Construction Documents and all applicable laws, including but not limited to monitoring the completion of the Scope in accordance with the Approved Construction Documents by the Contractor.

- 5.2 Inspection by Mesa. Tempe shall permit Mesa’s Representative and agents to enter upon the Project and to inspect the Project and all materials to be used in the construction thereof and will cause the Contractor and all subcontractors to cooperate with Mesa’s Representative and agents during such inspections. Tempe will make reasonable efforts to coordinate with Mesa regarding times when key construction activities and Tempe inspections of the Project (particularly such activities related to the Mesa Sewer Work) are to be performed so as to allow Mesa to perform quality assurance inspections. Mesa accepts sole responsibility for the costs it incurs for Inspections under this Section, including costs, for all inspection and materials testing for the Mesa Sewer. All Mesa personnel shall have appropriate personal protective equipment during inspections. Mesa will hold Tempe harmless from all costs and claims that arise out of Mesa’s inspection and approval of the Mesa Sewer Work, unless such costs or claims are due to intentionally wrongful or grossly negligent actions or inactions of Tempe. Mesa shall be provided an opportunity to inspect during the following events (and at other reasonable opportunities):

- Installation and removal of the bypass pump port on the Mesa Sewer (Baseline Road 54” sewer main), including the cutting and subsequent repair of the pipe. Additionally, the pipe coupon that is removed must be retained, and not re-installed until it can be inspected by a Mesa representative;

- Installation of multiple steps for the cured-in-place pipe (CIPP) liner in the Mesa Sewer, including pipe preparation, liner installation, and post-installation inspection and testing; and
- Installation of the protective coating in Mesa's manhole, including surface preparation, coating installation and post-installation testing.

5.3 Mesa Sewer Work Final Inspection, Contractor Warranties and Ownership. Prior to final acceptance of the Mesa Sewer Work, Tempe shall coordinate an opportunity to inspect the work with Mesa, and thereafter provide for completion of any punch list items identified by Mesa or Tempe during such inspection. Following final acceptance, Tempe shall assign to Mesa all Contractor and subcontractor warranties and guarantees related to the Mesa Sewer as provided in Section 5.5. Notwithstanding the preceding, Tempe agrees that ownership of the Mesa Sewer shall at all times remain with Mesa, (without need for any further documentation). Tempe shall transfer and assign any and all warranties associated with the Mesa Sewer upon completion and acceptance of the work.

5.4 Books and Records Maintained by Tempe. Tempe shall at all times keep accurate and complete books, records and accounts with respect to all of the activities related to the Project, such books, records and accounts to be maintained at Tempe's principal place of business. Mesa shall have the right, without hindrance or delay, but only upon five (5) business days prior written notice and during normal business hours, to inspect, audit, check and make extracts from the books, records and accounts, including, without limitation, all journals, orders, receipts and any correspondence and other data relating to the books, records and accounts related to the Project as may be maintained, generated or stored.

5.5 Disclaimer of Warranties/Limitation of Liability. Tempe makes no express warranties related to the Project and expressly disclaims any implied warranties, provided however, that Tempe shall be responsible for securing warranties/guaranties from the Contractors and all subcontractors for all work performed on the Project for a Period of not less than two (2) years from completion. Tempe shall not be liable to Mesa for incidental, consequential, direct, indirect, special, and/or punitive damages or any other damages arising out of or related to Tempe's obligations as Lead Agent under this Agreement, except in the event of its gross negligence or willful misconduct.

6. **Insurance.** Tempe agrees that any contractors procured to provide services on the Project will be contractually required to obtain appropriate levels of insurance coverage, including workers' compensation insurance and such public liability insurance as is reasonably necessary to protect against claims, losses or judgments that might arise out of negligent acts or omissions occurring during the course of the Project. Additionally, Tempe shall require in the construction contract that in connection with the Project, the Contractor name Mesa as an additional insured under the insurance policies.

7. **Indemnification.** Each party (as “Indemnitor”) agrees to defend, indemnify, and hold harmless the other party (as “Indemnatee”) from and against any and all claims, losses, liability, costs, or expenses (including reasonable attorney’s fees) (hereinafter collectively referred to as “Claims”) arising out of the bodily injury of any person or property damage, but only to the extent that such Claims which result in vicarious/derivative liability to the Indemnatee are caused by the act, omission, negligence, misconduct, or other fault of the Indemnitor, its officers, officials, agents, employees, or volunteers.
8. **Term of Agreement.** The term of this Agreement shall begin on the date of execution by the Parties and shall terminate two years after Mesa’s final acceptance of the Mesa Sewer, or ten years from the Effective Date, whichever occurs sooner.
9. **Interpretation of Agreement.**
- 9.1 **Entire Agreement.** This Agreement and the 1979 IGA constitute the entire understanding between the parties pertaining to the subject matter contained herein, and all other prior or contemporaneous agreements and understandings, oral or written, are hereby superseded and merged herein.
- 9.2 **Amendment.** This Agreement shall not be modified, amended, altered, or changed, except by written agreement signed by both parties.
- 9.3 **Construction and Interpretation.** All provisions of this Agreement shall be construed to be consistent with the intention of the parties as expressed in the Recitals contained herein.
- 9.4 **Waiver.** No waiver, whether written or tacit, of any remedy or provision of this Agreement shall be deemed to constitute a waiver of any other provision hereof or a permanent waiver of the provision concerned, unless otherwise stated in writing by the Party to be bound thereby.
- 9.5 **Relationship of the Parties.** Neither Party shall be deemed to be an employee or agent of the other Party to this Agreement.
- 9.6 **Severability.** In the event that any provisions of this Agreement or the application thereof is declared invalid or void by statute or judicial decision, such action shall have no effect on other provisions and their application which can be given effect without the valid or void provision or application, and to this extent the provisions of the Agreement are severable. In the event that any provision of this Agreement is declared invalid or void, the Parties agree to meet promptly upon request of the other Party in an attempt to reach an agreement on a substitute provision.
10. **Authority.** Tempe and Mesa each represent, warrant and covenant to the other that they have the right to enter into and make this Agreement.

11. **Arizona State Agency Provisions.**

- 11.1 **Nondiscrimination.** The Parties agree to comply with all applicable state and federal laws, rules, regulations and executive orders governing equal employment opportunity, immigration, nondiscrimination, including the Americans with Disabilities Act, and affirmative action.
- 11.2 **Conflict of Interest.** This Agreement is subject to Section 38-511, Arizona Revised Statutes. This Agreement may be canceled if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement is an employee, consultant, or agent of any other Party to this Agreement.
- 11.3 **Arbitration.** Notice is provided of Sections 12-1518 and 12-133, Arizona Revised Statutes.
- 11.4 **Notices.** Any notice, consent or other communication or modification (“Notice”) required or permitted under this Agreement shall be in writing and shall be given by registered or certified mail or in person to the following individuals. The date of receipt of such Notices shall be the date the Notice shall be deemed to have been given.

For the City of Mesa: Water Resources Director
 City of Mesa
 640 North Mesa Drive
 P.O Box 1466
 Mesa, Arizona 85211-1466

For the City of Tempe: City Engineer
 City of Tempe
 31 East 5th Street, Garden Level
 Tempe, Arizona 85281

[SIGNATURE PAGE TO FOLLOW]

IN WITNESS WHEREOF, Tempe and Mesa have caused their duly authorized representatives to execute this Agreement on their behalf this _____ day of _____, 20____

CITY OF TEMPE, a municipal corporation
of the State of Arizona

Corey D. Woods, Mayor

ATTEST:

Carla R. Reece, City Clerk

APPROVED AS TO FORM: In accordance with the requirements of A.R.S. §11-952(D), the undersigned attorney acknowledges that (i) s/he has reviewed the above Agreement on behalf of the CITY OF TEMPE and (ii) as to the City of Tempe only, has determined that this Agreement is in proper form and within the powers granted to the City of Tempe under the laws of the State of Arizona.

Judith R. Baumann, City Attorney

CITY OF MESA, a municipal corporation
of the State of Arizona

Chris Brady, City Manager

ATTEST:

DeeAnn Mickelson, City Clerk

APPROVED AS TO FORM: In accordance with the requirements of A.R.S. §11-952(D), the undersigned attorney acknowledges that (i) s/he has reviewed the above Agreement on behalf of the CITY OF MESA and (ii) as to the City of Mesa only, has determined that this Agreement is in proper form and within the powers granted to the City of Mesa under the laws of the State of Arizona.

Jim Smith, City Attorney

EXHIBIT A

Contract 1299

AGREEMENT

THIS AGREEMENT made and entered into this 26TH day of December 1979, by and between the CITY OF TEMPE, a municipal corporation of the State of Arizona, hereinafter referred to as TEMPE, and the CITY OF MESA, a municipal corporation of the State of Arizona, hereinafter referred to as MESA:

WITNESSETH:

WHEREAS, the Regional Wastewater Plan for Maricopa County as prepared by the Corps of Engineers and approved by the Maricopa Association of Governments and the United States Environmental Protection Agency includes the construction of a sanitary interceptor sewer extending easterly from the Ninety-First Avenue Wastewater Treatment Plant along the Southern Avenue/Baseline Road corridor through the city of Tempe and into the city of Mesa, said interceptor sewer hereinafter referred to as the Southern Avenue Interceptor; and,

WHEREAS, Tempe is desirous of constructing a sanitary trunk sewer along the proposed route for the Southern Avenue Interceptor from Southern Avenue and Priest Drive to Baseline Road and the Western Canal as shown on Exhibit "A" and hereinafter referred to as the trunk sewer; and,

WHEREAS, it is necessary for Tempe to construct the trunk sewer prior to the proposed construction of the Southern Avenue Interceptor from Southern Avenue and Priest Drive to the Ninety-First Avenue Treatment Plant; and,

WHEREAS, Tempe desires to construct that portion of the trunk sewer between points "A" and "D" on Exhibit "A" as part of the Southern Avenue Interceptor with capacity for Mesa, Tempe and the Towns of Gilbert and Guadalupe as set forth in the Maricopa Association of Governments Regional Wastewater Study and Report; and,

WHEREAS, the best interest of Tempe, Mesa and the Towns of Gilbert and Guadalupe will be served by the construction of said portion of the Southern Avenue Interceptor along the only remaining feasible and economical route; and,

WHEREAS, the construction of the trunk sewer by Tempe would force the Southern Avenue Interceptor construction into a much more difficult and costly alignment, and,

WHEREAS, Tempe and Mesa shall pay the cost for the Southern Avenue Interceptor as hereinafter set forth, and,

WHEREAS, Tempe and Mesa shall pay operation and maintenance costs in proportion to the capacity used by each,

NOW, THEREFORE, in consideration of the respective rights, privileges and obligations of the parties hereinafter set forth, IT IS AGREED as follows:

I

(A) Tempe and Mesa have available sufficient funds to pay their respective share of that portion of the Southern Avenue Interceptor designated as that sewer facility between points "A" and "D" on Exhibit "A" including engineering, legal, construction, right-of-way acquisition and all other related costs.

(B) Plans and specifications have been completed for said portion of the Southern Avenue Interceptor and Tempe shall proceed with construction at the earliest practicable date provided, however, Mesa may elect to withdraw its participation hereunder if construction is not commenced by March 1, 1980.

(C) Southern Avenue Interceptor shall be operated and maintained by Tempe until such time that it becomes an integral part of the Regional Wastewater System at which time it will be operated and maintained by the designated operational authority.

(D) All construction of the Southern Avenue Interceptor shall be done under plans and specifications prepared by and under engineering supervision furnished by engineers engaged by Tempe and the cost shall be paid through and by Tempe under the cost sharing plan described hereafter in this contract.

II

(A) Mesa agrees to pay Tempe its respective share of the cost to be determined as a percent of the total cost to construct that portion of the Southern Avenue Interceptor between points "A" and "D" on Exhibit "A" including engineering, legal, construction, right-of-way acquisition and all other related costs. Said percent to be determined by dividing the average daily flow as projected for Mesa in the Maricopa Association of Governments Regional Wastewater Study and Report by the total average daily flow contribution as follows:

Segment A-B	<u>(7.4 mgd/13.25 mgd = 55.85%)</u>
Segment B-C	<u>(7.4 mgd/13.25 mgd = 55.85%)</u>
Segment C-D	<u>(7.4 mgd/13.2 mgd = 56.06%)</u>

(B) Mesa shall remit its respective share of the cost for ninety percent (90%) of the completed work payable on a monthly basis commencing thirty (30) days from start of construction with final payment due and payable upon satisfactory completion and acceptance of the work.

(C) Tempe agrees to initially assume the cost for both the towns of Gilbert and Guadalupe.

III

A separate agreement between Tempe and Mesa shall be entered prior to the extension of the Southern Avenue Interceptor into Mesa.

IV

(A) The above-described project shall be constructed and supervised during construction by Tempe and Tempe or its contractor shall have complete charge and full supervision of the work.

(B) The contract for said project shall be awarded by Tempe after it has been determined that the low bid is satisfactory and acceptable to Tempe and Mesa.

(C) All work in connection with said project may be reviewed by engineers representing Mesa. It is expressly understood and agreed by the parties hereto that all communications to the contractor(s) shall be made by Tempe. All work shall be performed in accordance with standards satisfactory to Tempe and Mesa. Tempe shall provide inspection, staking and field supervision during construction.

(D) Mesa reserves the right to inspect and examine all invoices, contractor's affidavits, waivers of lien and all other records and documents in connection with the payment for materials, labor, equipment and all other fees, costs and expenses incurred in connection with the construction of said project.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the date first above written.

CITY OF TEMPE, ARIZONA, a
Municipal Corporation

By Harry E. Mitchell
Mayor

ATTEST:

Pauline J. Jupp
City Clerk

CITY OF MESA, ARIZONA, a
Municipal Corporation

By C. N. R.
City Manager

ATTEST:

Lois L. Lora
City Clerk

APPROVAL OF TEMPE CITY ATTORNEY

I hereby state that I have reviewed the proposed intergovernmental agreement, between the CITY OF MESA, and the CITY OF TEMPE, and declare the agreement to be in proper form and within the powers and authority granted to the City under the laws of the State of Arizona.

No opinion is expressed as to the authority of the remaining parties, other than the City, to enter into said agreement.

DATED this 4th day of December, 1979.


C. BRAD WOODFORD
Assistant City Attorney

EXHIBIT B



3221021B
Western Canal Interceptor Rehabilitation



EXHIBIT C



May 17, 2021

Jenny Lopez, P.E. – Senior Civil Engineer
City of Tempe – Engineering Division
31 E Fifth Street, Garden Level
Tempe, AZ 85281

RE: Name: Western Canal Interceptor Rehabilitation
Project No.: 3221021B

SUBJECT: Construction Manager at Risk – Guaranteed Maximum Price (GMP) No. 1

Dear Mrs. Lopez,

B&F Contracting, Inc. respectfully submits, for your review and approval, our Guaranteed Maximum Price (GMP) No. 1 proposal, dated 5/17/2021 for Western Canal Interceptor Rehabilitation Project. Project Number 3221021B.

B&F proposes to complete the work associated with GMP No. 1 for a not-to-exceed amount of \$2,470,848.20.

Included in this package are the following documents:

- GMP Cost Summary
- Schedule of Values
- General Conditions
- Scope of Work
- Plans and Specifications
- Direct Cost Report
- GMP-1 Schedule
- Response to comments.

We are excited about the opportunity to work with the City of Tempe and look forward to a successful project. If you or your team have any questions or comments regarding the above items, please contact Josh Onstott at (623)238-3792

Sincerely,

Josh Onstott

Josh Onstott – Senior Project Manager
Jonstott@bfcontracting.com
B&F Contracting, Inc.

SCOPE OF WORK FOR CONSTRUCTION PHASE

Western Canal Interceptor Rehabilitation

Project No. 3221021B (05/03/2021)

PROJECT OVERVIEW

The City of Tempe selected B&F Contracting, Inc. to provide construction service through the CMAR delivery method. B&F is providing a price for the Western Canal Interceptor Project based on 95% plans dated April 7th, 2021. The project scope includes a new polymer diversion structure, CIPP lining of 42" and 54" pipe and FRP end seals at dissimilar materials on the new pipe connections. All work associated with the rehabilitation will need complete bypass of flows. The proposed price has the cost for a complete system bypass to dry the lineup for this work via 3 separate bypass setups for the duration of this work.

SCOPE OF WORK ITEMS: *Highlighted Relate to Comments from the Review.*

1. Mobilization & Demobilization

- a. Costs for mobilization & Demobilization
- b. Subcontractors Mobilization
- c. All temp pipe and pumps delivery

2. Removal of 60" Diameter Manhole

- a. Removal of the manhole loaded offsite with shoring and dump fees.

3. Remove Existing Junction Structure

- a. Remove existing structure demo offsite and disposal
- b. Shoring

4. Remove Sanitary Sewer Pipe

- a. Remove pipe segments at the existing Structure
- b. Shoring
- c. Demo and haul off site with dump fees

5. Abandon Existing Structure

- a. Equipment and Labor to complete work
- b. Shoring
- c. Material to backfill structure

6. Provide and Remove By-Pass Pumping

- a. Mobilization of all equipment for bypass including pipe, pumps, and appurtenances.
- b. Crews to trench piping across roadways
- c. Plates for crossings
- d. Labor and equipment to run the bypass for 45 calendar days.
- e. Basic odor control efforts by tarping pits.
- f. Sound attenuated pumps
- g. Double plugs and installation of the plug. Continuous monitoring of the plugs.
- h. All pipe to convey flows, manifolds, trenching, plates, suction stingers, water ramps, fuel cells, light towers, secondary containment, spill kits, and pressure test pipe prior to pumping.
- i. Removal of discharge manhole cone to accommodate the discharge piping
SE33N4MH0010
- j. Engineered Flow Management Plan

7. Install and Remove Suction Pits Including Coupons on 54" on Baseline Rd East of Manhole NW03S4MH0031

- a. Labor and Equipment to install suction pits
- b. Cut coupons from top of pipe
- c. T-Lock Patch coupons
- d. Concrete for the cap on the coupons
- e. Shoring and Plates.
- f. Removal labor and equipment
- g. The project will have 2 suction coupons and suction pits to position the pumps around and allow level pumping during the daily with the diurnal flows. Pump's utilizations will be rotated for cleaning and routine maintenance, so the goal will be to have pumps even distanced to avoid vortexing in the suction pit on the large bypass setup. This work will only be on the 54" pipe in baseline road. The Kyrene bypass will be complete out of a manhole with 2 each pump on primary on redundant. Each pit will have three pumps around each suction pit.

8. Clean Existing 42" Diameter Sewer Pipe

- a. Clean the existing pipe from debris for patch back and lining

9. Clean Existing 54" Diameter Sewer Pipe

- a. Clean the existing pipe from debris for patch back and lining

10. Install 42" PVC Sewer Pipe with Fernco Couplings

- a. Labor and equipment to install the new pipe at the structure from the Kyrene Interceptor
- b. Material to perform this work

11. Joint Repair at Existing 42" Pipe Tie-in (FRP)

- a. No cost in item moved to allowance due to inconsistent quotes and major scope gaps.

12. Install 54" PVC Sewer Pipe with Fernco Couplings

- a. Materials to complete tie ins
- b. Labor and equipment to complete the tie into the new structure.

13. Repair PVC T-Lock Prior To CIPP Lining

- a. Man, entry repair removing T-lock and grouting back

14. Remove Existing PVC T-lock On Manhole Base and Prep

- a. Labor & Equipment to perform the work

15. Small Patch PVC T-Lock Repair @ Existing Manhole in Roadway

- a. Labor & Equipment to perform the work

16. Modify & Repair Manhole Trough for CIPP Lining

- a. Labor & Equipment to perform the work

17. Remove Manhole Cone For CIPP

- a. Labor & Equipment to perform the work
- b. Materials to complete the FRP cone repairs
- c. Clarify 60% comments were based on one lining shot and the adder to not remove the one cone for that shot was \$11,000. Now complete several shots it is not longer is a viable option when you factor in the cost after speaking with the lining contractors. The second contract could not line through a cone at all so this method is more cost conscious but also will provide a superior product.

18. Install 42" CIPP Liner

- a. Subcontractors price to perform work

19. Install 54" CIPP Liner

- a. Subcontractors price to perform work

20. Pre & Post Pipe Rehabilitation CCTV Inspection

- a. Price to CCTV the line pre and post CIPP
- b. Cost to complete all CCTV assessment for the project.

21. Install Polymer Junction Structure and Manhole

- a. Labor and equipment to install the new Armorock Structure
- b. Material to perform this work
- c. Shoring cost for the duration of this work

22. Post Access Manhole Rehabilitation CCTV – Panorama

- a. Post Manhole Inspection video for each manhole on the project that work was completed on

ALLOWANCES:

- **Traffic Control** – Provide traffic control for the duration of the project. *Traffic control setups charge in estimate is to come to site a complete an initial setup for instant for a single lane closure. There are multiple for this project and best estimate off phasing was 10 to get our budget numbers. The work will be billed by the subcontractors bills as an allowance.*
- **Uniformed Off-Duty Officers** – Office duty officers as required by the COT traffic inspection
- **Remove & Replace Sidewalk / Multi Use Path** – B&F will work to preserve the path during construction though the heavy equipment and trucking often will cause damage to the existing concrete. In this case B&F will utilize this allowance to replace the damaged not covered in the GMP units.
- **Remove & Replace Curb and Gutter** – B&F will work to preserve all hardscapes during construction though the heavy equipment and trucking will often cause damage to the existing concrete. In this case B&F will utilize this allowance to replace the damaged not covered in the GMP units.
- **Remove & Replace Brick Pavers** – Remove and Replace any damage caused due to construction activities.
- **Remove & Replace AC Pavement** – Allowance to capture all AC replacement caused by bypass and construction activities.
- **Remove & Replace Landscaping** – Allowance will be to restore the area to its original condition after construction work is complete.
- **Replace Striping** – Restore all striping damaged by operations
- **Restore Traffic Loop Detectors** – Restore loop detectors at Kyrene if damaged with trenching bypass piping
- **Slurry Seal Asphalt Paving Patches** – Slurry seal pavement per the COT policy
- **Misc. Allowance (Pothole/Quality Control/Survey)** – Allowance to be billed on a T&M Basis for testing, pothole, and quality testing.
- **FRP Bench Rehabilitation & End Seal** – Due to incomplete quotes without unit pricing B&F is uncomfortable with providing a unit price at this point until the subcontractors can correctly correlate quantities from the plans with the quotes or have a complete quote that spells out the services that resembles the project scope of work. B&F will work with each supplier to further develop prior to construction and utilized unit rates from previous work in 2020 to establish a conservative allowance. *B&F will work closely with the contractors to establish unit rates prior to construction activities that are directly correspondent to the work being performed.*
- **PVCT-Lock Repair on 42-inch Pipe West of New Junction Structure (TEMPE)** – *This allowance will be utilized to cover any cost associated with work that results*

in the inspection of the 42-inch pipe coming northeast into the junction structure.

- ***Epoxy Coating and Stair Remove (MESA)*** – Removal of the stairs and repairing the cone of the manhole. Due to the small quantity, we did not get a bid for this work. On previous work the epoxy contractors have daily minimum to come onsite which is \$2,500. We are hoping to combine items on the project at one time to establish a better rate. This scope of work will be negotiated prior to mobilization for the repair. Currently on a manhole rehabilitation project the unit rates combined with over 48 total manholes with 7,203 SF of repairs the price for this work would be under \$1,000.00. We are confident will be less than \$2,500 but with the minimal quantity we put in a daily minimum charge just in case.

JOC/CMAR Proposal Calculations

ENTRY IN YELLOW FIELDS
ONLY

Proposal/General Conditions <i>(Cost of work, labor, material and equipment)</i>	\$ 1,825,122.31
	(1)
Subtotal	\$ 1,825,122.31
	(1)

Overhead & Profit *(Construction Fee) %	12%	\$ 219,014.68
<i>multiply with (1)</i>		(2)
Add (2) +(1)	\$ 2,044,136.99	
	Subtotal (3)	

*See MAIN LOG for O&P

Insurance * %	1.00%	\$ 20,441.37
<i>multiply with (3)</i>		(4)
add (3) + (4)	\$ 2,064,578.36	
	Subtotal (5)	

Taxes	5.265%	\$ 108,700.05
<i>(where applicable)</i>		(6)
<i>multiply or enter - tax on Mat and Eqp only</i>		
Add (5) + (6)	\$ 2,173,278.41	
	Subtotal (7)	

Pay and Performance Bond %	1.00%	\$ 21,732.78
<i>multiply with (7)</i>		(8)
TOTAL	\$ 2,195,011.19	
	(10)	
	[Add (7) + (8)]	

Add and specify allowances	\$275,837
	(11)
Project Total	\$2,470,848.20
	[add 10+11]



CITY OF TEMPE - ENTIRE GMP PROPOSAL
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
95% GMP PROPOSAL

	95% GMP PROJECT SUMMARY BREAKDOWN	SUMMARY AMOUNT
	CONSTRUCTION COSTS:	
A	Direct - (Labor, Equipment, Materials & Subcontractors)	\$ 1,662,368.15
B	Indirect - (Management, ST&S, Construction Water etc.)	\$ 162,754.16
C	SUBTOTAL (Construction Cost)	\$ 1,825,122.31
	CONSTRUCTION FEES AND TAXES	
D	II. General & Administrative Fee @ 4.5%	\$ 82,130.50
E	III. Profit Margin - @ 7.5%	\$ 136,884.17
F	IV. General Liability Insurance - @ 1%	\$ 20,441.37
G	V. Payment and Performance Bonds - @ 1%	\$ 21,732.78
H	VI. Arizona Gross Receipts Tax - Tempe @ (8.1 * 0.65 = 5.265%)	\$ 108,700.05
I	SUBTOTAL (Direct Construction Cost. + Gen Cond + OH&P + Insurance + Bonds + Tax)	\$ 2,195,011.19
J	Allowance	\$ 275,837.01
K	TOTAL GMP SUMMARY COST	\$ 2,470,848.20

Subtotal Construction Costs (C) = (A+B)

General & Administrative (D) = (C * 0.045)

Profit Margin (E) = (C*0.075)

General Liability Insurance (F) = ((C+D+E) * 0.01)

Payment & Performance Bond (G) = ((C+D+E+F+H) * 0.01)

Gross Receipt Taxes (H) = ((C+D+E+F) * 0.05265)

Allowances



CITY OF TEMPE (FULL PROJECT COMBINED)
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
GMP SCHEDULE OF VALUES

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST
1	Mobilization/Demobilization	1	LS	\$15,675.25	\$ 15,675.25
2.1	Remove Existing 60" Diameter Manhole	1	EACH	\$48,724.69	\$ 48,724.69
2.2	Remove Existing Junction Structure	1	EACH	\$62,285.96	\$ 62,285.96
2.3	Remove Sanitary Sewer Pipe	9	LF	\$1,242.84	\$ 11,185.56
2.4	Fill Existing Structure With ABC	1	LS	\$12,174.32	\$ 12,174.32
3.1	Provide And Remove By-Pass Pumping (TOTAL)	1.00	LS		\$ 623,162.54
3.1A	Installation and Removal	1.00	LS	\$ 102,271.80	\$ 102,271.80
3.1B	Bypass Equipment & Fuel	50.00	DY	\$ 5,017.93	\$ 250,896.50
3.1C	Bypass Pumping (3 Pump Systems, 3 Pumpwatch @ 24 HR/DY)	50.00	DY	\$ 4,470.00	\$ 223,500.00
3.1D	Trench Bypass Piping	1.00	LS	\$ 46,494.24	\$ 46,494.24
3.2	Install And Remove Suction Pits Including Coupons On 54" Pipe	2	EACH	\$35,736.20	\$ 71,472.40
4.1	Clean Existing 42 " Diameter Sewer Pipe	1,590	LF	\$3.00	\$ 4,770.00
4.2	Clean Existing 54" Diameter Sewer Pipe	180	LF	\$5.00	\$ 900.00
4.3	Install 42" PVC Sewer Pipe With Fernco Couplings	5	LF	\$3,149.31	\$ 15,746.55
4.4	Joint Repair At Existing 42" Pipe Tie-in (FRP)	1	EACH	\$0.00	\$ -
4.5	Install 54" PVC Sewer Pipe With Fernco Couplings	10	LF	\$2,211.91	\$ 22,119.10
4.6	Repair PVC T-Lock Prior To CIPP Lining	20	SF	\$247.01	\$ 4,940.20
4.7	Remove Existing PVC T-lock On Manhole Base And Prep	20	SF	\$147.00	\$ 2,940.00
4.8	Small Patch PVC T-Lock Repair @ Existing Manhole In Roadway	36	EACH	\$175.01	\$ 6,300.36
4.9	Modify And Repair Manhole Trough For CIPP Lining	5	EACH	\$4,103.57	\$ 20,517.85
4.10	Remove Manhole Cone For CIPP - Replace And Recoat Chimney	5	EACH	\$7,162.81	\$ 35,814.05
4.11	Install 42" CIPP Liner	1,590	LF	\$284.18	\$ 451,846.20
4.12	Install 54" CIPP Liner	180	LF	\$451.40	\$ 81,252.00
4.13	Pre & Post Pipe Rehabilitation CCTV Inspection	3,820	LF	\$1.50	\$ 5,730.00
5.1	Install Polymer Junction Structure And Manhole	1	EACH	\$163,811.07	\$ 163,811.07
5.2	Post Access Manhole Rehabilitation CCTV	5	EACH	\$200.01	\$ 1,000.05
Total Project Cost Prior to Allowances					\$ 1,662,368.15
A-1	Traffic Control	1	AL	\$40,387.57	\$ 40,387.57
A-2	Uniformed Off- Duty Officer	1	AL	\$18,000.52	\$ 18,000.52
A-3	Remove And Replace Sidewalk & Multi-Use Path	1	AL	\$10,727.60	\$ 10,727.60
A-4	Remove & Replace Concrete C&G	1	AL	\$4,461.60	\$ 4,461.60
A-5	Remove And Replace Brick Pavers	1	AL	\$6,987.59	\$ 6,987.59
A-6	Remove And Replace AC Pavement	1	AL	\$10,433.80	\$ 10,433.80
A-7	Remove And Replace Landscaping	1	AL	\$27,031.68	\$ 27,031.68
A-8	Replace Striping	1	AL	\$6,086.16	\$ 6,086.16
A-9	Replace Traffic Loops	1	AL	\$29,094.94	\$ 29,094.94
A-10	Slurry Seal	1	AL	\$14,123.46	\$ 14,123.46
A-11	Misc. Allowance (Quality Control/Survey/Pothole)	1	AL	\$25,000.73	\$ 25,000.73
A-12	FRP Bench And Pipe Seal Allowance	1	AL	\$76,002.21	\$ 76,002.21
A-13	T-Lock Repair Allowance for 42" Pipe (TEMPE)	1.00	AL	\$5,000.00	\$ 5,000.00
A-14	Epoxy Allowance and Step Removal (MESA)	1.00	AL	\$2,500.00	\$ 2,500.00
Total Allowance Budget					\$ 275,837.86



CITY OF TEMPE
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
95% GMP INDIRECT CONSTRUCTION COSTS

ITEM NO.	ITEM DESCRIPTION	QTY	Total % of Project	HOURS	UNIT	UNIT COST	TOTAL COST
1	PROJECT MANAGER WITH TRUCK	0.5	1.36%	264	HR	\$ 103.48	\$ 27,318.72
2	PROJECT SUPERINTENDENT WITH TRUCK	1	2.72%	528	HR	\$ 103.20	\$ 54,489.60
3	ASSITANT PROJECT MANAGER WITH TRUCK	1	2.25%	528	HR	\$ 85.33	\$ 45,054.24
4	SAFETY MANAGER WITH TRUCK	0.1	0.20%	48	HR	\$ 82.45	\$ 3,957.60
5	MISC. YARD TRASH DUMPSTERS	5	0.11%		EA	\$ 450.00	\$ 2,250.00
6	PORTABLE FIELD TOILETS (1 EA)	3	0.05%		MO	\$ 350.00	\$ 1,050.00
7	HANDWASHING STATION	2	0.02%		MO	\$ 175.00	\$ 350.00
8	CONSTRUCTION WATER	1000	0.28%		MG	\$ 5.53	\$ 5,530.00
9	HYDRANT METER/BACKFLOW	1	0.06%		LS	\$ 1,200.00	\$ 1,200.00
10	SMALL TOOLS (\$1.50 Dollars a Manhour)	1	0.39%	5223	MH	\$ 7,834.50	\$ 7,834.50
11	FIELD TECHNOLOGY (TABLETS/B2W TRACK/PROCORE)	3	0.03%		MO	\$ 175.00	\$ 525.00
12	FIELD RADIOS & CELL PHONES	3	0.03%		MO	\$ 225.00	\$ 675.00
13	CONEX BOX STORAGE CONTAINERS	3	0.04%		MO	\$ 300.00	\$ 900.00
14	RENTAL FENCING	3	0.14%		MO	\$ 950.00	\$ 2,850.00
15	PROJECT SAFETY SUPPLIES (\$1.5 Per Manhour)	1	0.39%	5223	MO	\$ 7,834.50	\$ 7,834.50
16	PROJECT ICE & DRINKING WATER	2.5	0.05%		MO	\$ 374.00	\$ 935.00

8.12%

TOTAL \$ 162,754.16



CITY OF TEMPE JOINT WORK PROPOSAL
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
95% GMP PROPOSAL

	95% GMP PROJECT SUMMARY BREAKDOWN	SUMMARY AMOUNT
	CONSTRUCTION COSTS:	
A	Direct - (Labor, Equipment, Materials & Subcontractors)	\$ 1,518,472.57
B	Indirect - (Management, ST&S, Construction Water etc.)	\$ 148,666.06
C	SUBTOTAL <i>(Construction Cost)</i>	\$ 1,667,138.63
	CONSTRUCTION FEES AND TAXES	
D	II. General & Administration Fee @ 4.5%	\$ 75,021.24
E	III. Profit Margin - @ 7.5%	\$ 125,035.40
F	IV. General Liability Insurance - @ 1%	\$ 18,671.95
G	V. Payment and Performance Bonds - @ 1%	\$ 19,851.58
H	VI. Arizona Gross Receipts Tax - Tempe @ (8.1 * 0.65 = 5.265%)	\$ 99,290.91
I	SUBTOTAL <i>(Direct Construction Cost. + Gen Cond + OH&P + Insurance + Bonds + Tax)</i>	\$ 2,005,009.71
J	Allowance	\$ 268,337.86
K	TOTAL GMP SUMMARY COST	\$ 2,273,347.57

Subtotal Construction Costs (C) = (A+B)

General & Administrative (D) = (C * 0.045)

Profit Margin (E) = (C*0.075)

General Liability Insurance (F) = ((C+D+E) * 0.01)

Payment & Performance Bond (G) = ((C+D+E+F+H) * 0.01)

Gross Receipt Taxes (H) = ((C+D+E+F) * 0.05265)



CITY OF TEMPE (JOINT WORK)
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
95% GMP SCHEDULE OF VALUES

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST
1	Mobilization/Demobilization	1.00	LS	\$15,675.25	\$ 15,675.25
2.1	Remove Existing 60" Diameter Manhole	1.00	EACH	\$48,724.69	\$ 48,724.69
2.2	Remove Existing Junction Structure	1.00	EACH	\$62,285.96	\$ 62,285.96
2.3	Remove Sanitary Sewer Pipe	9.00	LF	\$1,242.84	\$ 11,185.56
2.4	Fill Existing Structure With ABC	1.00	LS	\$12,174.32	\$ 12,174.32
3.1	Provide And Remove By-Pass Pumping (TOTAL)	1.00	LS		\$ 575,722.89
3.1A	Installation and Removal	1.00	LS	\$ 102,271.80	\$ 102,271.80
3.1B	Bypass Equipment & Fuel	45.00	DY	\$ 5,017.93	\$ 225,806.85
3.1C	Bypass Pumping (3 Pump Systems, 3 Pumpwatch @ 24 HR/DY)	45.00	DY	\$ 4,470.00	\$ 201,150.00
3.1D	Trench Bypass Piping	1.00	LS	\$ 46,494.24	\$ 46,494.24
3.2	Install And Remove Suction Pits Including Coupons On 54" Pipe	2.00	EACH	\$35,736.20	\$ 71,472.40
4.1	Clean Existing 42 " Diameter Sewer Pipe	1,590.00	LF	\$3.00	\$ 4,770.00
4.2	Clean Existing 54" Diameter Sewer Pipe	0.00	LF	\$5.00	\$ -
4.3	Install 42" PVC Sewer Pipe With Fernco Couplings	5.00	LF	\$3,149.31	\$ 15,746.55
4.4	Joint Repair At Existing 42" Pipe Tie-in (FRP)	1.00	EACH	\$0.00	\$ -
4.5	Install 54" PVC Sewer Pipe With Fernco Couplings	10.00	LF	\$2,211.91	\$ 22,119.10
4.6	Repair PVC T-Lock Prior To CIPP Lining	20.00	SF	\$247.01	\$ 4,940.20
4.7	Remove Existing PVC T-lock On Manhole Base And Prep	0.00	SF	\$147.00	\$ -
4.8	Small Patch PVC T-Lock Repair @ Existing Manhole In Roadway	0.00	EACH	\$175.01	\$ -
4.9	Modify And Repair Manhole Trough For CIPP Lining	4.00	EACH	\$4,103.57	\$ 16,414.28
4.10	Remove Manhole Cone For CIPP - Replace And Recoat Chimney	5.00	EACH	\$7,162.81	\$ 35,814.05
4.11	Install 42" CIPP Liner	1,590	LF	\$284.18	\$ 451,846.20
4.12	Install 54" CIPP Liner	0.00	LF	\$451.40	\$ -
4.13	Pre & Post Pipe Rehabilitation CCTV Inspection	3,180	LF	\$1.50	\$ 4,770.00
5.1	Install Polymer Junction Structure And Manhole	1.00	EACH	\$163,811.07	\$ 163,811.07
5.2	Post Access Manhole Rehabilitation CCTV	5.00	EACH	\$200.01	\$ 1,000.05
Total Project Cost Prior to Allowances					\$ 1,518,472.57
A-1	Traffic Control	1.00	AL	\$40,387.57	\$ 40,387.57
A-2	Uniformed Off- Duty Officer	1.00	AL	\$18,000.52	\$ 18,000.52
A-3	Remove And Replace Sidewalk & Multi-Use Path	1.00	AL	\$10,727.60	\$ 10,727.60
A-4	Remove & Replace Concrete C&G	1.00	AL	\$4,461.60	\$ 4,461.60
A-5	Remove And Replace Brick Pavers	1.00	AL	\$6,987.59	\$ 6,987.59
A-6	Remove And Replace AC Pavement	1.00	AL	\$10,433.80	\$ 10,433.80
A-7	Remove And Replace Landscaping	1.00	AL	\$27,031.68	\$ 27,031.68
A-8	Replace Striping	1.00	AL	\$6,086.16	\$ 6,086.16
A-9	Replace Traffic Loops	1.00	AL	\$29,094.94	\$ 29,094.94
A-10	Slurry Seal	1.00	AL	\$14,123.46	\$ 14,123.46
A-11	Misc. Allowance (Quality Control/Survey/Pothole)	1.00	AL	\$25,000.73	\$ 25,000.73
A-12	FRP Bench And Pipe Seal Allowance	1.00	AL	\$76,002.21	\$ 76,002.21
A-13	T-Lock Repair Allowance for 42" Pipe (TEMPE)	0.00	AL	\$5,000.00	\$ -
A-14	Epoxy Allowance and Step Removal (MESA)	0.00	AL	\$2,500.00	\$ -
Total Allowance Budget					\$ 268,337.86

1. Other costs on Tempe or Mesa SOV.



CITY OF TEMPE (MESA WORK)
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
95% GMP PROPOSAL

	95% GMP PROJECT SUMMARY BREAKDOWN	SUMMARY AMOUNT
	CONSTRUCTION COSTS:	
A	Direct - (Labor, Equipment, Materials & Subcontractors)	\$ 143,475.58
B	Indirect - (Management, ST&S, Construction Water etc.)	\$ 14,046.98
C	SUBTOTAL <i>(Construction Cost)</i>	\$ 157,522.56
	CONSTRUCTION FEES AND TAXES	
D	II. General & Administration Fee @ 4.5%	\$ 7,088.52
E	III. Profit Margin - @ 7.5%	\$ 11,814.19
F	IV. General Liability Insurance - @ 1%	\$ 1,764.25
G	V. Payment and Performance Bonds - @ 1%	\$ 1,875.71
H	VI. Arizona Gross Receipts Tax - Tempe @ (8.1 * 0.65 = 5.265%)	\$ 9,381.68
I	SUBTOTAL <i>(Direct Construction Cost. + Gen Cond + OH&P + Insurance + Bonds + Tax)</i>	\$ 189,446.91
J	Allowances	\$ 2,500.00
K	TOTAL GMP SUMMARY COST	\$ 191,946.91

Subtotal Construction Costs (C) = (A+B)

General & Administrative (D) = (C * 0.045)

Profit Margin (E) = (C*0.075)

General Liability Insurance (F) = ((C+D+E) * 0.01)

Payment & Performance Bond (G) = ((C+D+E+F+H) * 0.01)

Gross Receipt Taxes (H) = ((C+D+E+F) * 0.05265)



CITY OF TEMPE
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
95% GMP SCHEDULE OF VALUES (MESA ONLY)

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST
3.1	Provide And Remove By-Pass Pumping (TOTAL)	5	Days	\$ 9,487.93	\$ 47,439.65
4.2	Clean Existing 54" Diameter Sewer Pipe	180	LF	\$ 5.00	\$ 900.00
4.7	Remove Existing PVC T-lock On Manhole Base And Prep	20	SF	\$ 147.00	\$ 2,940.00
4.8	Small Patch PVC T-Lock Repair @ Existing Manhole In Roadway	36	EACH	\$ 175.01	\$ 6,300.36
4.9	Modify And Repair Manhole Trough For CIPP Lining	1	EACH	\$ 4,103.57	\$ 4,103.57
4.12	Install 54" CIPP Liner	180	LF	\$ 451.40	\$ 81,252.00
4.13	Pre & Post Pipe Rehabilitation CCTV Inspection	360	LF	\$ 1.50	\$ 540.00
A.14	Epoxy Rehabilitation & Step Removal	1	LS	\$ 2,500.00	\$ 2,500.00
				TOTAL	\$ 145,975.58



CITY OF TEMPE (TEMPE ONLY WORK)
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
95% GMP PROPOSAL

	95% GMP PROJECT SUMMARY BREAKDOWN	SUMMARY AMOUNT
	CONSTRUCTION COSTS:	
A	Direct - (Labor, Equipment, Materials & Subcontractors)	\$ 420.00
B	Indirect - (Management, ST&S, Construction Water etc.)	\$ 41.12
C	SUBTOTAL <i>(Construction Cost)</i>	\$ 461.12
	CONSTRUCTION FEES AND TAXES	
D	II. General & Administration Fee @ 4.5%	\$ 20.75
E	III. Profit Margin - @ 7.5%	\$ 34.58
F	IV. General Liability Insurance - @ 1%	\$ 5.16
G	V. Payment and Performance Bonds - @ 1%	\$ 5.49
H	VI. Arizona Gross Receipts Tax - Tempe @ (8.1 * 0.65 = 5.265%)	\$ 27.46
I	SUBTOTAL <i>(Direct Construction Cost. + Gen Cond + OH&P + Insurance + Bonds + Tax)</i>	\$ 554.57
J	Allowance	\$ 5,000.00
K	TOTAL GMP SUMMARY COST	\$ 5,554.57

Subtotal Construction Costs (C) = (A+B)

General Conditions Home Office Overhead (D) = (C * 0.045)

Profit Margin (E) = (C*0.075)

General Liability Insurance (F) = ((C+D+E) * 0.01)

Payment & Performance Bond (G) = ((C+D+E+F+H) * 0.01)

Gross Receipt Taxes (H) = ((C+D+E+F) * 0.05265)



CITY OF TEMPE
WESTERN CANAL INTERCEPTOR REHABILITATION CMAR
CIP 3221021B
(95% GMP SCHEDULE OF VALUES TEMPE)

ITEM NO.	ITEM DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST
4.13	Pre & Post Pipe Rehabilitation CCTV Inspection	280	LF	\$ 1.50	\$ 420.00
A-13	42-inch PVC T-Lock Allowance	1	AL	\$ 5,000.00	\$ 5,000.00
				TOTAL	\$ 5,420.00

EXHIBIT D

Cost Sharing

Tempe
43.94%

Mesa
56.06%

Design Phase

Engineering - Dibble

Design Services	\$ 122,908.00	\$ 53,227.16	\$ 67,908.84
Allowances	\$ 21,660.00	\$ 9,517.40	\$ 12,142.60
City of Mesa Interceptor			\$ 1,772.00
Engineering Subtotal	\$ 144,568.00	\$ 62,744.56	\$ 81,823.44

CMAR-Preconstruction Services - B&F

Contacted Services	\$ 16,199.25	\$ 7,117.95	\$ 9,081.30
Reimbursables	\$ 250.00	\$ 109.85	\$ 140.15
CCTV	\$ 5,000.00	\$ 2,197.00	\$ 2,803.00
Sewer Monitoring	\$ 5,000.00	\$ 2,197.00	\$ 2,803.00
Owner's Allowance	\$ 5,000.00	\$ 2,197.00	\$ 2,803.00
Pre-Construction Services Subtotal	\$ 31,449.25	\$ 13,818.80	\$ 17,630.45

Construction Phase

Construction Admin & Inspection - Dibble

CA&I	\$ 133,088.00	\$ 58,478.87	\$ 74,609.13
Mesa CA&I	\$ 9,794.00		\$ 9,794.00
Additional Services as Directed	\$ 10,000.00	\$ 4,394.00	\$ 5,606.00
CA&I Subtotal	\$ 152,882.00	\$ 62,872.87	\$ 90,009.13

Construction - B&F Contracting

GMP - Jointly Owned	\$ 2,470,848.20	\$ 1,085,690.70	\$ 1,385,157.50
GMP - Tempe	\$ 7,062.71	\$ 7,062.71	
GMP - Mesa	\$ 190,212.93		\$ 190,212.93
Owner Contingency (10%)	\$ 247,000.00	\$ 108,531.80	\$ 138,468.20
Contractor Subtotal	\$ 2,915,123.84	\$ 1,201,285.21	\$ 1,713,838.63

Archeological Monitoring - Aztec

Professional Services	\$ 27,655.21	\$ 12,151.70	\$ 15,503.51
Owner's Allowance	\$ 5,000.00	\$ 2,197.00	\$ 2,803.00
Reimbursible Expenses	\$ 1,879.20	\$ 825.72	\$ 1,053.48
CA&I Subtotal	\$ 34,534.41	\$ 15,174.42	\$ 19,359.99

Total Project Costs	\$ 3,278,557.50	\$ 1,355,895.86	\$ 1,922,661.64
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