



PLUMMER

May 11, 2021

Mr. Jakob Peetz, P.E.
Project Engineer
City of San Marcos
610 E. Hopkins Street
San Marcos, Texas 78666

Re: Blanco Vista Elevated Storage Tank
Engineering Design Proposal

Dear Mr. Peetz:

Plummer Associates, Inc. (Plummer) is pleased to submit this proposed Change in Service to assist the City of San Marcos with the design of additional improvements needed to accept water from the Alliance Regional Water Authority into the City's distribution system. It is anticipated that the construction of the elevated storage tank will be bid as part of a project administered by the Alliance Regional Water Authority. The pipeline improvements will be bid as a separate project administered by the City.

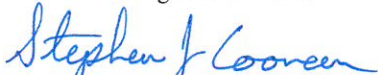
Plummer proposes to provide these services for a Not-to-Exceed fee of Two Hundred Eighty-Eight Thousand Two Hundred Fifteen Dollars (\$288,215). We anticipate that the design phase of the elevated storage tank portion of the project can be completed within four months. The pipeline portion of the project will lag so that the two projects finish at about the same time.

In addition, the City and Plummer agree that additional Scope Items may be needed as the project progresses but that these items can not be quantified at this time. Accordingly, a Supplemental Services Budget of Forty-Five Thousand Dollars (\$45,000) has been included in the proposal, bringing the total authorization for the Change-in-Service to Three Hundred Thirty-Three Thousand, Two Hundred Fifteen Dollars (\$333,215). Separate authorization will be required to utilize the Supplemental Services Budget.

We appreciate the opportunity to work with the City on this project. If you have any questions or need additional information, please contact me at (512) 461-4045.

Sincerely,

ALAN PLUMMER ASSOCIATES, INC.
TBPE Firm Registration No. 13


Stephen J. Coonan, P.E.
Principal

City of San Marcos

Blanco Vista Elevated Storage Tank

SCOPE OF SERVICES

BASIC SERVICES

BASIC SERVICES for the San Marcos Blanco Vista Elevated Storage Tank (EST) and the pipeline that will connect the EST to the existing City's service line shall include the following tasks, to be completed by Plummer Associates, Inc. (ENGINEER).

The proposed elevated storage tank (EST) shall be located at the San Marcos ARWA #2 Delivery Point. The EST will be built by a single contractor and will connect to a 30" line to be constructed by ARWA and to a 24" line.

The 24" outlet line will run between the EST's outlet line just outside the EST and the City's waterline on Blanco Vista Blvd. The water line will be approximately 1,200 linear feet.

Any tasks not specifically identified under BASIC SERVICES shall be considered ADDITIONAL SERVICES and must be separately authorized by the CLIENT.

1. Project Management

- a. Prepare Monthly Summary Reports/Invoicing (7 updates)
- b. Develop QA/QC Plan and Implement
- c. Schedule Development and monthly updates – Schedule shall cover detailed design phase through construction
 - i. Schedule will be developed in Microsoft Project format
- d. Meetings – Prepare for and conduct the following meetings/workshops
 - i. Conduct Progress Meetings with the Owner (8 virtual meetings)
 - ii. Quality Control Audit (1 workshop)
 - iii. Kickoff meeting.
 - iv. Prepare and distribute meeting notes
 - v. Coordinating meetings with other design consultants (4 meetings)
 - vi. Coordinating meetings with Electric Service Provider (4 meetings)
- e. Deliverables
 - i. Meeting agendas and meeting notes for meetings and workshops

2. Land Acquisition

- a. Review of draft plat.

3. Design Consultant Coordination

- a. Elevated Storage Tank – Design Consultant
 - i. Coordinate with ARWA to confirm feed-line tie-in location to EST and meter station requirements.

4. Entity/Agency Coordination

- a. Develop and submit applicable permits
 - i. City of San Marcos Planning and Zoning
 - ii. Hays County
 - iii. Pedernales Electrical Cooperative
 - iv. Federal Aviation Administration
 - v. Alliance Regional Water Authority
- b. Texas Commission on Environmental Quality (TCEQ) Chapter 290.43 Rules and Regulations for Water Storage
 - i. Create a checklist
 - ii. Confirm all items are addressed

5. Design Survey

- a. Topographic – Tank Site and Access Drive
 - i. Topographic – Perform topographical survey for the Tank Site assuming that the tank site will be approximately 0.71 acres and approximately 3.03 acres for the access road. Survey will horizontally and vertically locate all visible surfaces on the tract such as existing structures, trees, edges or roadways, power poles/towers, fences, visible or marked utilities, drainage features, etc. Surveyor shall contact DigTess, OneCall, or other statewide utility locate company to mark existing utilities and incorporate utilities into the design survey. Survey will identify existing trees on the site by marking location, measuring of size/diameter, species, and canopy extends in accordance with applicable local tree ordinances.

6. Subsurface Investigations

- a. Geotechnical Investigation
 - i. Provide geotechnical investigation services to the extent necessary to characterize the subsurface soils for the areas affected by this project. We would expect the number of bores to be based on the following:
 - 1. Four (x4) 60 feet deep equally spaced borings on anticipated support wall diameter plus one (x1) 85 feet deep boring at the tank center. Five (5) bores total
 - ii. The geotechnical report shall provide recommendations for the tank foundation as well as recommendation for the subsurface preparation for the facility roadways inside the fence line and pipe installation (trench backfill)

7. 60% Design Phase (Elevated Storage Tank)

- a. Perform (2) site visits for the 60% design
- b. Design tasks
 - i. Composite elevated storage tank

- ii. 30" diameter inlet and 24" diameter outlet lines
 - 1. Approximately 100 LF of 24" line
 - 2. Approximately 100 LF of 30" line
 - iii. Gate valves and control valve schematic
 - iv. Splash pad with energy dissipaters/rip-rap for tank overflow (drain pipe)
 - v. Intruder resistant fencing (6-foot fence with 3 strands of barb wire at the top) with sliding, manually operated vehicle gate.
 - vi. Temporary access driveway – Plan view (16 feet wide and 200 feet long) to property line.
- a. Construction Drawings
- i. Develop 60% Plan Set
 - 1. General Sheets (Project Layout, General Notes, Quantities, etc.)
 - 2. Overall Dimension Control Plan
 - 3. Develop 60% Drainage Plans per City of San Marcos Development requirements
 - a. Determine the peak runoff rate from the 2-, 10-, 25-, and 100-year storms
 - b. Evaluate water quality and detention requirements for the site
 - c. Survey Control Sheets
 - d. Contractor access sheets (including temporary access driveway, low water crossings, etc.)
 - e. Plan and Profile sheets
 - f. Mechanical Plan and Sections
 - g. Electrical and Instrumentations Sheets
 - h. Erosion Control Sheet
 - i. Standard Details (Provided by the AWRA)
 - j. Project Specific Details (developed by the Design Consultant)
- b. Preparation of Project Manual
- i. Development of Table of Contents
 - 1. To include all ARWA standard specifications (Provided by the ARWA) and project specific specifications (Provided by the Design Consultant).
- c. 60% Opinion of Probable Construction Cost
- d. Perform internal QC and address QC comments
- e. 60% Design Workshop
- i. Conduct 60% Design workshop to review the 60% Design Submittal
 - ii. Prepare and distribute meeting notes
 - iii. Prepare comment log and attach notes
- f. Address comments provided by the Owner
- i. Make required changes in the drawings and specifications
 - ii. Update comment log showing how each comment was addressed
- g. 60% Design Phase Deliverables
- i. 60% Design Deliverables (plan and specifications)
 - ii. Draft Geotechnical Report
 - iii. Updated list of permits required for the project
 - iv. Updated project schedule
 - v. Cathodic protection report
 - vi. 60% Design Letter

1. Documenting performance to applicable AWWA and TCEQ standards
- vii. 60% Design Review Workshop and meeting notes
 1. 60% Opinion of Probable Construction Cost (OPCC)

8. 60% Design Phase (Water Line)

- a. Perform (1) site visits for the 60% design
- b. Design tasks
 - vii. 24" Water Line
 - viii. Tie-in to 24" Elevated Storage Tank outlet just outside of tank's base.
 - ix. Approximately 1,200 linear feet of 24" DI pipe.
 - x. Tie-in to City of San Marcos' waterline on Blanco Vista Blvd.
 - xi. Temporary access driveway – Plan view (16 feet wide and 1,000 feet long) from property line to Blanco Vista Blvd.
- h. Construction Drawings
 - i. Develop 60% Plan Set (in accordance with City's Design Standards)
 1. General Sheets (Cover, Project Layout, General Notes, Quantities, etc.)
 2. Overall Dimension Control Plan
 3. Develop 60% Drainage Plans per City of San Marcos Development requirements
 - a. Determine the peak runoff rate from the 2-, 10-, 25-, and 100-year storms
 - b. Evaluate water quality and detention requirements for the site
 - c. Survey Control Sheets
 - d. Contractor access sheets (including temporary access driveway, low water crossings, etc.)
 - e. Plan and Profile (P&P) Sheets
 - f. Erosion Control Sheet
 - g. Standard Details (Provided by the Owner)
 - h. Project Specific Details (developed by the Design Consultant)
 - i. Traffic Control Sheets
- i. Preparation of Project Manual
 - i. Development of Table of Contents
 1. To include all City's standard specifications (Provided by the Client) and project specific specifications (Provided by the Design Consultant).
- j. 60% Opinion of Probable Construction Cost
- k. Perform internal QC and address QC comments
- l. 60% Design Workshop
 - i. Conduct 60% Design workshop to review the 60% Design Submittal
 - ii. Prepare and distribute meeting notes
 - iii. Prepare comment log and attach notes
- m. Address comments provided by the Owner
 - i. Make required changes in the drawings and specifications
 - ii. Update comment log showing how each comment was addressed
- n. 60% Design Phase Deliverables
 - i. 60% Design Deliverables (plan and specifications)
 - ii. Draft Geotechnical Report
 - iii. Updated list of permits required for the project

- iv. Updated project schedule
- v. Cathodic protection report
- vi. 60% Design Letter
 - 1. Documenting performance to applicable AWWA and TCEQ standards
- vii. 60% Design Review Workshop and meeting notes
 - 1. 60% Opinion of Probable Construction Cost (OPCC)

9. 90% Design Phase (Elevated Storage Tank)

- a. Perform (2) site visits for 90% design
- b. 90% Draft letter
 - i. Documenting conformance to applicable AWWA and TCEQ standards and documentation of any exceptions to these standards.
- c. Construction Drawings
 - i. Develop 90% Plan Set (in accordance with the ARWA's Design Standards)
 - 1. Further Development of 60% Plan Set sheets
 - a. General Sheets (Project Layout, General Notes, Quantities, etc.)
 - b. Overall Dimensional Control Plan
 - c. Survey Control Sheets
 - d. Contractor Access Sheet (including temporary access driveways, low water crossings, etc)
 - e. Plan and Profile Sheets
 - f. Mechanical Plans and Sections
 - g. Electrical and Instrumentation Sheets
 - h. Erosion Control Sheets
 - i. Standard Details (Provided by the Owner)
 - j. Project Specific Details (as developed by the Design Consultant)
 - k. Tree Preservation Plan
- d. Draft Project Manual
- e. To include all front-end documents, applicable specifications both provided by the Owner and specific to the project, provided by the engineer.
- f. 90% Opinions of Probable Construction Cost (Class 1 AACE estimate).
- g. Perform internal QC and address QC comments.
- h. 90% Design Workshop
 - i. Conduct 90% Design workshop to review the 90% Design Submittal.
 - ii. Prepare and distribute meeting notes.
 - iii. Prepare comment log and attach to notes.
- i. Address comments provided by Owner
 - i. Make required changes in the drawings and specifications.
 - ii. Update comment log showing how each comment was addressed.
- j. 90% Design Phase Deliverables
 - i. 90% Design Deliverables (plans and specifications)
 - ii. Final Geotechnical Report
 - iii. Updated Project Schedule
 - iv. 90% Design Letter
 - v. 90% Design Review Workshop and meeting notes
 - vi. 90% Opinion of Probable Construction Cost (OPCC)
 - vii. QA/QC Documentation

10. 90% Design Phase (Water Line)

- a. Perform (1) site visits for 90% design
- b. 90% Draft letter
 - i. Documenting conformance to applicable AWWA and TCEQ standards and documentation of any exceptions to these standards.
- c. Construction Drawings
 - i. Develop 90% Plan Set (in accordance with the City's Design Standards)
 - 1. Further Development of 60% Plan Set sheets
 - a. General Sheets (Cover, Project Layout, General Notes, Quantities, etc.)
 - b. Overall Dimensional Control Plan
 - c. Survey Control Sheets
 - d. Contractor Access Sheet (including temporary access driveways, low water crossings, etc)
 - e. Plan and Profile (P&P) Sheets
 - f. Erosion Control Sheets
 - g. Standard Details (Provided by the Owner)
 - h. Project Specific Details (as developed by the Design Consultant)
 - i. Tree Preservation Plan
 - j. Traffic Control Sheets
 - k. Respond to 60% comments
- d. Draft Project Manual
- e. To include all front-end documents, applicable specifications both provided by the Owner and specific to the project, provided by the engineer.
- f. 90% Opinions of Probable Construction Cost (Class 1 AACE estimate).
- g. Perform internal QC and address QC comments.
- h. 90% Design Workshop
 - i. Conduct 90% Design workshop to review the 90% Design Submittal.
 - ii. Prepare and distribute meeting notes.
 - iii. Prepare comment log and attach to notes.
- i. Address comments provided by Owner
 - i. Make required changes in the drawings and specifications.
 - ii. Update comment log showing how each comment was addressed.
- j. 90% Design Phase Deliverables
 - i. 90% Design Deliverables (plans and specifications)
 - ii. Final Geotechnical Report
 - iii. Updated Project Schedule
 - iv. 90% Design Letter
 - v. 90% Design Review Workshop and meeting notes
 - vi. 90% Opinion of Probable Construction Cost (OPCC)
 - vii. QA/QC Documentation

11. 100% Design Phase (Elevated Storage Tank)

- a. Perform site visits as needed for 100% design
- b. 100% Design letter

- i. Documenting conformance to applicable AWWA and TCEQ standards and documentation of any exceptions to these standards.
- c. Construction Drawings
 - i. Develop 100% Plan Set
 - 1. Further Development of 90% Plan Set sheets
 - 2. Respond to 90% comments
- d. Final Project Manual
 - i. Incorporate necessary items into the ARWA Project Manual and allow for a clear delineation of costs.
- e. 100% Opinions of Probable Construction Cost (AACE Class 1)
- f. Perform internal QC and address QC comments
- g. 100% Design Workshop
 - i. Conduct 100% Design workshop to review the 100% Design Submittal
 - ii. Prepare and distribute meeting notes
- h. Address comments provided by the Owner
- i. Agency Review of 100% Plan Set
 - i. Prepare packet for submission of 100% construction documents (plans and specifications) to the following agency
 - 1. TCEQ
 - 2. Hays County
 - 3. City of San Marcos Planning and Zoning
 - ii. Address comments provided by
 - 1. TCEQ
 - 2. Hays County
 - 3. City of San Marcos Planning and Zoning
- j. 100% Design Phase Deliverables
 - i. 100% Design Deliverables (plans and specifications)
 - ii. Updated Project Schedule
 - iii. 100% Design Letter
 - iv. 100% Design Review Workshop and meeting notes
 - v. 100% Opinion of Probable Construction Cost (OPCC)
 - vi. QA/QC Documentation

12. 100% Design Phase (Water Line)

- a. Perform site visits as needed for 100% design
- b. 100% Design letter
 - i. Documenting conformance to applicable AWWA and TCEQ standards and documentation of any exceptions to these standards.
- c. Construction Drawings
 - i. Develop 100% Plan Set
 - 1. Further Development of 90% Plan Set sheets
- d. Final Project Manual
 - i. To include all applicable specifications provided by City of San Marcos and specific to the project
- e. 100% Opinions of Probable Construction Cost (AACE Class 1)
- f. Perform internal QC and address QC comments
- g. 100% Design Workshop

- i. Conduct 100% Design workshop to review the 100% Design Submittal
 - ii. Prepare and distribute meeting notes
 - h. Address comments provided by the Owner
 - i. Agency Review of 100% Plan Set
 - i. Prepare packet for submission of 100% construction documents (plans and specifications) to the following agency
 - 1. TCEQ
 - 2. Hays County
 - 3. City of San Marcos Planning and Zoning
 - ii. Address comments provided by
 - 1. TCEQ
 - 2. Hays County
 - 3. City of San Marcos Planning and Zoning
 - j. 100% Design Phase Deliverables
 - i. 100% Design Deliverables (plans and specifications with bid form)
 - ii. Updated Project Schedule
 - iii. 100% Design Letter
 - iv. 100% Design Review Workshop and meeting notes
 - v. 100% Opinion of Probable Construction Cost (OPCC)
 - vi. GIS submittal Checklist
 - vii. QA/QC Documentation

**13. Procurement (Request for Competitive Sealed Proposal (RFCSP)) (Bidding Assistance)
(Elevated Storage Tank)**

- a. Coordination with ARWA Elevated Storage Tanks Project in order to bid all three tanks together.

14. Bidding Assistance (Water Line)

- a. Submit Final Documents for Advertisement
- b. Pre-Proposal Conference
- c. Prepare Addendum and Clarifications
- d. Attend Proposal Opening
- e. Review Contractors Proposals
 - i. Perform Contractor References Check
 - ii. Confirm Contractor Experience
 - iii. Prepare Recommendation for Award
- f. Prepare Conformed Contract Documents

15. Construction Phase Services

- a. Attend Pre-Construction Meeting (1 each for the Tank and Pipeline)
- b. Attend monthly construction meetings (6 meetings)
- c. Review Shop Drawing Submittals (up to 15 submittals)
- d. Respond to RFIs (up to 5 RFIs)
- e. Periodic Site Visits (up to 4)
- f. Review pay estimates (up to 12)
- g. Conduct a Final Walk Through with Punch List (2)
- h. Provide Record Drawings for each project

16. Supplemental Services

Supplemental Services may be identified by the City as the project progresses. These would be services that can not be fully identified at this time and as such are not included in the Basic Services. An example of a potential Supplemental Service would be an evaluation of the Surface Water Treatment Plant for reliability in response to the winter storm experienced in 2021 and the development and design of improvements to improve the resiliency of the plant. Since a scope of services for this effort is not currently known, a Supplementary Budget of \$45,000 will be established for these services. This budget will require additional, specific authorization from the City before being utilized.

17. Additional Services

- a. Verify/Reset horizontal and vertical controls points for construction purposes
- b. General Engineering Design
- c. Land Acquisition
 - i. Eminent domain hearings
 - ii. Provide support documents and exhibits for Eminent domain hearings
- d. Attend Public Meetings (2 meetings)
- e. Attend additional meetings in the vicinity of the project (5 meetings)
- f. Additional SUE Potholes
 - i. At the direction of the City, the Consultant may be required to perform additional SUE potholes beyond those scoped for the project.
- g. Additional Geotechnical Borings & Piezometers
 - i. At the direction of the City the Consultant may be required to perform additional geotechnical borings beyond those scoped for the project, and conduct surveying as required to tie-in borings into the design documents
- h. TDLR Permitting – ADA Accessibility Verification
 - i. FAA Permitting
- j. TCEQ Exceptions and Variance Development and Coordination
- k. Geotechnical additional bore depth at the Tank Site

ASSUMPTIONS

1. Owner will provide CAD standards for drafting.
2. Owner will lead the coordination of instrumentation and controls, communications, and SCADA and provide guidelines for standardization across the system.
3. Consultant will conduct power supply coordination with assistance from Owner.
4. Pipeline segment (by others) will end at the downstream side of the valve/meter box on the tank's inlet side.
5. Engineer will coordinate with City of San Marcos to obtain the information required for the detailed design of the Tank facility.
 - i) Surge analysis and protection
 - ii) Rechlorination requirements
 - iii) Mixing for water quality
 - iv) SCADA design and integration
6. Client will cover costs associated with tree removal permitting fees.

City of San Marcos
Blanco Vista
Elevated Storage Tank and 24" Water Line
Project No. 1

Level 2 (Phase) No. and Description Level 3 (Task) No. and Description	Principal (hrs)	Elec Engr (hrs)	Proj Mgr (hrs)	Proj Engr (hrs)	EIT (hrs)	Technician (hrs)	Clerical (hrs)	QC (hrs)	Total Labor		Percent of Total Fee
									Hours	Fee (\$\$\$)	
Elevated Storage Tank and 24" Water Line	26	66	242	356	437	179	0	64	1,370	\$ 268,755	100.0%
1 Project Management	2	0	44	0	0	0	0	0	46	\$ 10,070	3.7%
1 Project Management	2		24						26	\$ 5,770	2.1%
2 Invoices and Schedules			12						12	\$ 2,580	1.0%
3 Attend 7 Progress Meetings			8						8	\$ 1,720	0.6%
2-3 Miscellaneous Coordination	0	0	6	6	8	4	0	0	24	\$ 3,740	1.4%
1 ARWA Pipeline Consultant			6	6	8	4			24	\$ 3,740	1.4%
4 Permit Application and Coordination	0	0	24	32	20	0	0	0	76	\$ 12,400	4.6%
1 Elevated Storage Tank Permitting			4	8	8				20	\$ 3,060	1.1%
2 24" Water Line Permitting			4	8	8				20	\$ 3,060	1.1%
3 Meetings with Permitting Entities EST			8	8	2				18	\$ 3,140	1.2%
4 Meetings with Permitting Entities 24" WL			8	8	2				18	\$ 3,140	1.2%
7-8 60% Design Phase	8	24	88	124	138	86	0	36	504	\$ 83,290	31.0%
1 Design Survey						30			30	\$ 4,050	1.5%
2 Coordinate with Geotechnical Consultant			2	4	6				12	\$ 1,790	0.7%
3 Develop 60% Plans and Details EST	2	20	18	24	32	30		12	138	\$ 23,850	8.9%
4 Develop 60% Specifications EST		4	18	18	18			12	70	\$ 12,660	4.7%
5 Update Preliminary OPCC EST			2	10	10				22	\$ 3,180	1.2%
6 60% Design Workshop	2		2	2					6	\$ 1,330	0.5%
7 Develop 60% Plans and Details 24" WL	2		24	24	28	26		8	112	\$ 18,320	6.8%
8 Develop 60% Specifications 24" WL			20	24	28			4	76	\$ 12,380	4.6%
9 Update Preliminary OPCC 24" WL				16	16				32	\$ 4,400	1.6%
10 60% Design Workshop	2		2	2					6	\$ 1,330	0.5%
9-10 90% Design Phase	6	30	28	78	94	33	0	22	291	\$ 48,315	18.0%
1 Develop 90% Plans and Details EST	2	26	4	14	20	20		8	94	\$ 16,960	6.3%
2 Develop 90% Specifications EST		4	4	14	20			8	50	\$ 8,370	3.1%
3 Update 60% OPCC EST				6	6				12	\$ 1,650	0.6%
4 90% Design Workshop EST	2		2	2					6	\$ 1,330	0.5%
5 Develop 90% Plans and Details 24" WL			8	16	20	13		4	61	\$ 9,355	3.5%
6 Develop 90% Specifications 24" WL			8	16	20			2	46	\$ 7,120	2.6%
7 Update 60% OPCC 24" WL				8	8				16	\$ 2,200	0.8%
8 90% Design Workshop 24" WL	2		2	2					6	\$ 1,330	0.5%
11-12 100% Design Phase	8	10	12	68	74	32	0	6	210	\$ 32,660	12.2%
1 Develop 100% Plans and Details EST		8	2	14	20	10		2	56	\$ 8,810	3.3%
2 Develop 100% Specifications EST		2	2	6	6			1	17	\$ 2,800	1.0%
3 Update 60% OPCC EST				8	8				16	\$ 2,200	0.8%
4 100% Workshop ETS	2		4	4					10	\$ 1,710	0.6%
5 Agency Review of 100% Set - TCEQ EST	4		2	12	12	8			38	\$ 6,030	2.2%
6 Develop 100% Plans and Details 24" WL			2	8	10	6		2	28	\$ 4,180	1.6%
7 Develop 100% Specifications 24" WL			2	6	6			1	15	\$ 2,320	0.9%
8 Update 60% OPCC 24" WL				8	8				16	\$ 2,200	0.8%
9 100% Workshop 24" WL	2		2	2					6	\$ 1,330	0.5%
10 Agency Review of 100% Set - TCEQ 24" WL						8			8	\$ 1,080	0.4%
13-14 Bidding Assistance	0	0	0	36	35	0	0	0	71	\$ 9,770	3.6%
1 Prepare Bidding Documents EST									0	\$ -	0.0%
2 Attend Pre- Bid Conference EST									0	\$ -	0.0%
3 Address Contractor Clarifications and Issue Addenda EST				2	2				4	\$ 550	0.2%
4 Review Bids and Make Recommendation EST				1					1	\$ 145	0.1%
5 Prepare Conformed Contract Documents EST				1	1				2	\$ 275	0.1%
6 Prepare Bidding Documents 24" WL				8	8				16	\$ 2,200	0.8%
7 Attend Pre- Bid Conference 24" WL				4	4				8	\$ 1,100	0.4%
8 Address Contractor Clarifications and Issue Addenda 24" WL				8	8				16	\$ 2,200	0.8%
9 Review Bids and Make Recommendation 24" WL				8	8				16	\$ 2,200	0.8%
10 Prepare Conformed Contract Documents 24" WL				4	4				8	\$ 1,100	0.4%
13-14 Bidding Assistance	2	2	40	12	68	24	0	0	148	\$ 23,510	8.7%
1 Attend Pre-Construction Meeting (2)			4		4				8	\$ 1,380	0.5%
2 Attend Monthly Construction Meetings (6)			12		12				24	\$ 4,140	1.5%
3 Review Shop Drawing Submittals (15)			2	4	16				22	\$ 3,090	1.1%
4 Respond to RFIs (5)	2	2	4	8	12	8			36	\$ 5,750	2.1%
5 Periodic Site Visits (4)			8						8	\$ 1,720	0.6%
6 Review Pay Estimates (12)			2		6				8	\$ 1,210	0.5%
7 Conduct Final Walk Through & Punch List (2)			6		10				16	\$ 2,590	1.0%
8 Provide Record Drawings for each project			2		8	16			26	\$ 3,630	1.4%

City of San Marcos Blanco Vista Elevated Storage Tank and 24" Water Line Project No. 1											
Level 2 (Phase) No. and Description <i>Level 3 (Task) No. and Description</i>	Principal (hrs)	Elec Engr (hrs)	Proj Mgr (hrs)	Proj Engr (hrs)	EIT (hrs)	Technician (hrs)	Clerical (hrs)	QC (hrs)	Total Labor		Percent of Total Fee
									Hours	Fee (\$\$\$)	
Elevated Storage Tank and 24" Water Line	26	66	242	356	437	179	0	64	1,370	\$ 268,755	100.0%
SP1 Supplemental Engineer Services Budget	0	0	0	0	0	0	0	0	0	\$ 45,000	16.7%
1 To be determined									0	\$ 45,000	16.7%
TOTAL LABOR											
Total Labor Hours	26	66	242	356	437	179	0	64	1,370		
Total Labor Amount										\$ 268,755	100.0%
Labor Rates per Hour	\$305	\$240	\$215	\$145	\$130	\$135	\$120	\$240			
Total Amounts by Labor Category	\$ 7,930	\$ 15,840	\$ 52,030	\$ 51,620	\$ 56,810	\$ 24,165	\$ -	\$ 15,360		\$ 268,755	
Labor Category Percent of Total Labor	3.0%	5.9%	19.4%	19.2%	21.1%	9.0%	0.0%	5.7%			83.3%
TOTAL EXPENSES (see breakdown below)											
Total Subconsultants										\$ 58,685	
Total Reimbursables										\$ 5,775	
Total Expenses										\$ 64,460	
GRAND TOTAL - Elevated Storage Tank and 24" Water Line										\$ 333,215	
SUBCONSULTANT EXPENSES											
Code	Description	Budget (\$\$)	Markup	Fee (\$\$\$)							
CA	Architect Consultant	\$ -	1.00	\$ -							
CC	Civil Engr Consultant	\$ -	1.00	\$ -							
CE	Electrical Consultant	\$ -	1.00	\$ -							
CG	EST Geotechnical Consultant	\$ 58,685	1.00	\$ 58,685							
CM	Mechanical Consultant	\$ -	1.00	\$ -							
CO	Other Consultant	\$ -	1.00	\$ -							
CS	Structural Consultant	\$ -	1.00	\$ -							
CY	Surveying Consultant	\$ -	1.00	\$ -							
C1		\$ -	1.00	\$ -							
C2		\$ -	1.00	\$ -							
C3		\$ -	1.00	\$ -							
C4		\$ -	1.00	\$ -							
C5		\$ -	1.00	\$ -							
C6		\$ -	1.00	\$ -							
TOTAL SUBCONSULTANT EXPENSES		\$ 58,685		\$ 58,685							
REIMBURSABLE EXPENSES											
Code	Description	Budget (\$\$)	Markup	Fee (\$\$\$)							
RA	Laboratory Analysis	\$ -	1.00	\$ -							
RC	Technology	\$ 5,055	1.00	\$ 5,055							
RH	Historical	\$ -	1.00	\$ -							
RI	In-House Reproduction	\$ 500	1.00	\$ 500							
RL	Long Distance Telephone		1.00	\$ -							
RM	Employee Mileage	\$ 220	1.00	\$ 220							
RO	Other Expenses		1.00	\$ -							
RP	Purchased Services		1.00	\$ -							
RR	Reproduction		1.00	\$ -							
RS	Shipping, Delivery, Postage		1.00	\$ -							
RT	Travel, Meals, Lodging		1.00	\$ -							
RU	Telecommunications		1.00	\$ -							
R1		\$ -	1.00	\$ -							
R2		\$ -	1.00	\$ -							
TOTAL REIMBURSABLE EXPENSES		\$ 5,775		\$ 5,775							
The hours listed above are an estimate. The hours assigned to the Phase are not exclusive to the Phase to which they are assigned. The total fee will not exceed the total contract amount as presented in the contract. The hourly rates shall apply throughout the remainder of this contract and to all change in services unless specifically agreed to by the City.											
Payment to the ENGINEER will be made as follows:											
1. Basic Services - The amounts of these invoices will be based upon the extent of work completed by the ENGINEER based on an hourly basis.											
2. Supplemental Services - The ENGINEER will receive approval in writing before performing these services. The amounts of these invoices will be based upon the extent of work completed by the ENGINEER on a lump sum basis											
3. Reimbursable Expense - Reimbursable expenses including such things as expenses for plotting, reproduction of documents, auto travel mileage (current IRS approved mileage rate), delivery charges, long distance communications, freight, and state accessibility will be invoiced with appropriate backup documentation.											
Invoice and Time of Payment											
Invoices will be prepared in a format approved by the City prior to submission of the first monthly invoice. Invoices shall be submitted monthly and paid within 30 days.											
\\aus-fs.aus.apa\share\Projects\0600\032-012-0 Wrk Prodi BV EST - to be moved\Proposal\210507-Budget-BV EST and WL-V3.xls\Project 1											
05/11/21											

ATTACHMENT A
PLUMMER ASSOCIATES, INC.
HOURLY FEE SCHEDULE
2021

Staff Description	Staff Code	2021 Rate
Admin Staff	A1 – A2	\$ 90.00
Admin Staff III	A3	\$ 95.00
Senior Admin Staff	A4	\$ 120.00
Designer/Technician	C1-C2	\$ 90.00
Designer/Technician III	C3	\$ 115.00
Senior Designer/Technician	C4	\$ 135.00
Engineer/Scientist Intern	ES0	\$ 60.00
Engineer-in-Training/Scientist-in-Training	ES1	\$ 115.00
Engineer-in-Training/Scientist-in-Training II	ES2	\$ 120.00
Engineer-in-Training/Scientist-in-Training III	ES3	\$ 130.00
Project Engineer/Scientist	ES4	\$ 145.00
Senior Project Engineer/Scientist	ES5	\$ 175.00
Project Manager	ES6	\$ 215.00
Senior Project Manager	ES7	\$ 240.00
Principal I	ES8	\$ 305.00
Principal II	ES9	\$ 320.00
Electrical Engineer in Training I	EE1	\$ 95.00
Electrical Engineer in Training II	EE2	\$ 120.00
Electrical Engineer in Training III	EE3	\$ 125.00
Electrical Specialist	EE4	\$ 145.00
Programmer	EE5	\$150.00
Programmer II	EE6	\$ 155.00
Senior Electrical Engineer	EE7	\$ 280.00

Billing rates may be adjusted by up to 4 percent annually (at the beginning of each calendar year) during the term of this agreement.

A technology charge will be billed at \$5 per labor hour.

City of San Marcos
Blanco Vista Elevated Storage Tank & Pipeline

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