

01/20/23
Revised 02/20/23

Brandon Pritchett
City of Pflugerville
15500 Sun Light Near Way B
Pflugerville, TX 78660

Re: Letter Agreement for Professional Services for Cottonwood West Lift Station and Force Main

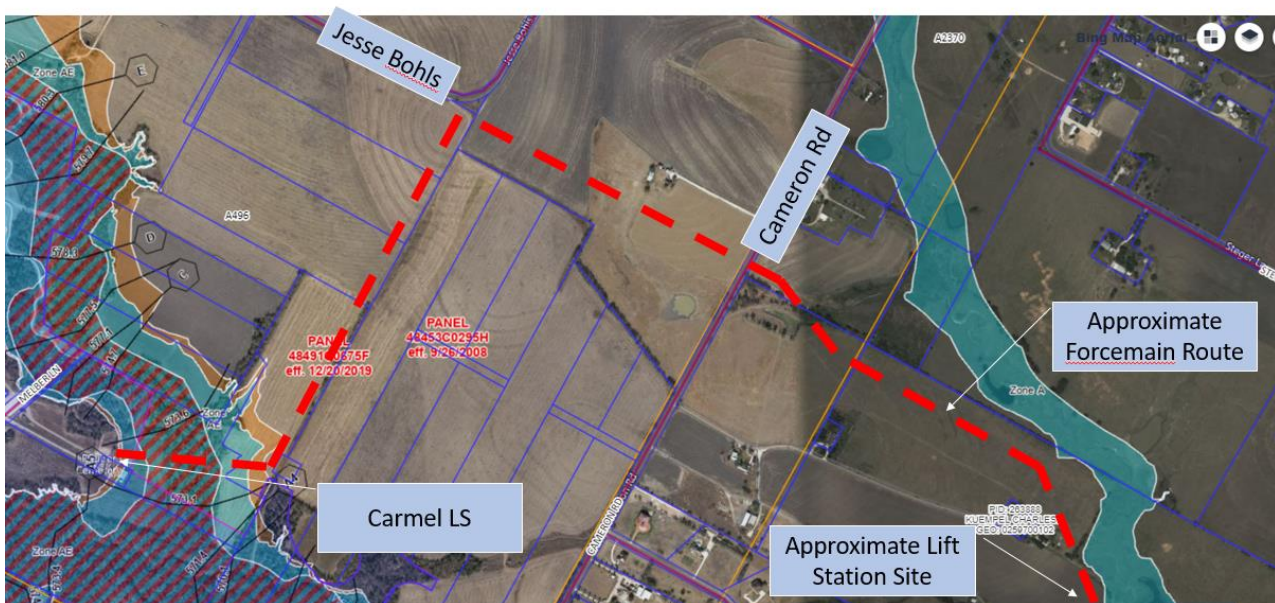
Dear Mr. Pritchett,

Kimley-Horn and Associates, Inc. (“Kimley-Horn” or “Consultant”) is pleased to submit this scope of services to the City of Pflugerville (“City” or “Client”) for providing engineering design, permitting, bid, and construction phase services for approximately 9,500 linear feet of force main and one lift station with consideration of initial and buildout flows of range:

*Flow Projection	Average Annual Daily Flow (gpm)	Peak Wet Weather Flow (gpm)
10 Year Flow	210	840
Buildout Flow	665	2660

*Flows are taken from the Freese and Nichols study “City of Pflugerville Cottonwood West Lift Station Draft Engineering Design Memorandum” dated December 2022.

Project Limits Exhibit:



Project Understanding

This project is understood to have a construction deadline of June 2024. Kimley-Horn has spoke with the City of Pflugerville about the risks due to easements and the effect it can have on the schedule, so the decided plan is to bid the lift station and force main as two separate projects. The lift station design can be expedited to bid sooner, while allowing the process of acquiring easements for the force main to run concurrently. Currently a dual force main is being design and constructed by Pape Dawson, in which one is for currently use and the second is for future use. Pflugerville informed Kimley Horn that the future use

force main being design and constructed by Pape Dawson will be allowed to be used to convey sewage flow until the proposed force main easements are acquired and its constructed.

Project Assumptions:

- The easement location for the lift station will be acquired with no impact to the design, bid, or construction schedule.
- The City of Pflugerville will be allowed to connect to a “future 12” force main” designed and constructed by Pape Dawson.
- The force main of this project is not tied to the lift station schedule due to easement acquisition.
- The lift station and force main will be bid separately.
- The lift station and force main will each have a 30%, 60%, 90%, and Final Milestone Submittal.
- Kimley-Horn will strive to meet all milestone deliverables, but schedules can be delayed by requirements outside of our control such as, difficulties and delays with regulatory agencies, unwilling landowners, and in construction supply chain shortages and delays.

Scope of Services

Kimley-Horn will provide the services specifically set forth below.

Task 1 – Project Management

- a) Project Schedule and Work Plan – Kimley-Horn will develop the project schedule and work plan for executing the project scope of services.
- b) Invoicing and Progress Reports – Assume this project task will have an added duration of eighteen (18) months for design and eighteen (18) months for construction and includes monthly invoicing and progress reports.
- c) Up to twelve (12) Progress meetings – This assumes a monthly, virtual, meeting with the Client. Kimley Horn will produce meeting minutes for each progress meetings.
- d) Up to two (2) Site Visits with the City to review the design
- e) Up to three (3) City Council meetings as needed.
- f) Design Team Coordination – Monthly Project Team meetings including Kimley-Horn and Subconsultants. Assumes eighteen (18) team meetings.
- g) Subconsultant Coordination – Regular coordination between the subconsultants and Kimley-Horn, including file exchanges, scope locations, scope questions, and document preparation.

Task 2 – Lift Station – 30%/60%/90%/Final Design

- a) Lift Station Sizing and Tech Memo – Kimley Horn will produce the design calculations for sizing pumps, wet wells, piping, valves, electrical components, and supply. Kimley Horn will work with Cleary Zimmerman produce an initial conditions and future conditions study. This will be provided at the 30% phase and updated at each milestone submittal as needed if design information changes.
- b) Civil Plans -
 - i. Cover Sheet – 1 Sheet
 - ii. General Notes – 2 Sheets
 - iii. Project Layout – 1 Sheet
 - iv. Access Sheet and Easement Sheet – 1 Sheet
 - v. Traffic Control Detail – 1 Sheet
 - vi. Erosion and Sedimentation Controls and Details – 2 Sheets*
 - vii. Site Plan – 1 Sheet
 - viii. Grading and Drainage Plan – 2 Sheets
 - ix. Lift Station Mechanical Plan and Sections – 2 Sheets
 - x. Details -2 Sheets

- xi. Electrical Sheets – one line diagram, schedules, schematics, SCADA – 4 sheets (Cleary Zimmerman)
- xii. Structural – structural support for concrete wet well/fiberglass wet well, anti-floatation, and equipment pads - 2 Sheets (JQ Engineering) *
- c) Opinion of Probable Construction Cost – Kimley-Horn will prepare a conceptual opinion of probable construction cost for the proposed lift station and force main. Kimley-Horn has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Kimley-Horn at this time and represent only the engineer's judgment as a design professional familiar with the construction industry. Kimley-Horn cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.
- d) Specifications – Kimley-Horn shall provide City of Pflugerville standard specifications, special provision, and special specifications for the proposed lift station. *†
- e) QA/QC – Kimley-Horn shall perform a quality control check of the plans, calculations, and opinion of probable construction cost. And have QA/QC comments addressed prior to each submittal.
- f) Plan revision and submittals – Kimley-Horn anticipates having four (4) rounds of comments from the City. Kimley-Horn will address comments and provide comment response for each submittal.
- g) Subconsultant Services – the following subconsultant services will be provided in order to complete this task:
 - i. Survey – Field topographic and boundary survey will be provided to complete this task. Refer to the attachment in Task 9 for more information.
 - ii. Environmental - Field study and reporting will be provided to complete this task. Refer to the attachment in Task 9 for more information.
 - iii. Geotechnical – Geotechnical boring logs and design information will be provided to complete this task. Refer to the attachment in Task 9 for more information.
 - iv. Subsurface Utility Engineering – SUE design information will be provided to complete this task. Refer to the attachment in Task 9 for more information.
 - v. Electrical – Electrical design associated with the lift station will be provided to complete this task. Refer to the attachment in Task 9 for more information.
 - vi. Structural – Structural design associated with the lift station will be provided to complete this task. Refer to the attachment in Task 9 for more information.

* Not included in 30% Design Phase Submittal

† Table of Contents only on 60% with special provisions and special specifications

Task 3 – Force main – 30%/60%/90%/Final Design

- a) Alignment Study – Kimley-Horn will provide up to two alternatives for consideration by the City of Pflugerville for selection to base the design going forward. The alignments will be conceptual only and provide known constraints and OPCC for an evaluation and recommendation to the City of Pflugerville. The base files will be created with available GIS and LIDAR information for use in this subtask. Kimley-Horn will provide a PDF exhibit to review with the City of Pflugerville for acceptance.
- b) Civil Plans -
 - i. Cover Sheet – 1 Sheet
 - ii. General Notes – 2 Sheets
 - iii. Project Layout – 1 Sheet
 - iv. Access Sheet and Easement Sheet – 1 Sheet
 - v. Traffic Control Plan and Details – 4 Sheets and Standard Details*
 - vi. Erosion and Sedimentation Controls and Details – 8 Sheets and Standard Details*
 - vii. Plan & Profiles – 13 Sheets at 1"=80 half size; 1"=40' full size for up to 10,000' of force main
 - viii. Special Details – 2 Sheets
 - ix. Standard Details -4 Sheets
- c) Opinion of Probable Construction Cost – Kimley-Horn will prepare a conceptual opinion of probable construction cost for the proposed lift station and force main. Kimley-Horn has no control over the

cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Kimley-Horn at this time and represent only the engineer's judgment as a design professional familiar with the construction industry. Kimley-Horn cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

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 - iv. Subsurface Utility Engineering – SUE design information will be provided to complete this task. Refer to the attachment in Task 9 for more information.

* Not included in 30% Design Phase Submittal

† Table of Contents only on 60% with special provisions and special specifications

Task 4 - Permitting and Landowner Coordination

- a) TCEQ – Kimley-Horn shall prepare a TCEQ summary transmittal letter for the proposed lift station and force main design.
- b) Travis County – Kimley-Horn will submit each milestone submittal to Travis County for their review of the project.
- c) Landowner Coordination Right of Entry and Easements – assumes coordination for up to 10 different parcels for Right of Entry and Easements, including 4 meetings for each with the City or Landowner. This phase also includes preparing an exhibit if needed.

Task 5 – Bid Phase Services - Lift Station

It is anticipated that this project will contain two (2) sets of Construction Documents one for the Lift station and one for the Force main. The Consultant will perform the following professional services for the bidding phase of the project:

- a) Notice to Bidders – The Consultant will prepare a notice to bidders and/or assist the Client with preparation.
- b) Pre-Bid Conference – The Consultant will attend a Pre-bid conference.
- c) Respond to Contractor Questions – the Consultant will respond to contractor questions regarding clarifications to the plans.
- d) Addenda – The Consultant will answer contractor questions during the bid process. The Consultant will issue up to four (4) addenda as required.
- e) Bid Opening – The Consultant will attend the bid opening, review bids and prepare a tabulation of bids, and assist with bid evaluation scoring as needed.
- f) Recommendation for Award – The Consultant will prepare a letter with a recommendation for award.

- g) Final Conformed Contract Documents – The Consultant will print and issue three (3) full size sets of plans and two (2) half size sets of plans and specifications for distribution to the Client.

Task Deliverables:

1. Bid tabulation
2. Recommendation for Award
3. Conformed Documents (3 full size sets of plans and 2 half size sets of plans)

Task 6 – Bid Phase Services – Force main

- a) Notice to Bidders – The Consultant will prepare a notice to bidders and/or assist the Client with preparation.
- b) Pre-Bid Conference – The Consultant will attend a Pre-bid conference.
- c) Respond to Contractor Questions – the Consultant will respond to contractor questions regarding clarifications to the plans.
- d) Addenda – The Consultant will answer contractor questions during the bid process. The Consultant will issue up to four (4) addenda as required.
- e) Bid Opening – The Consultant will attend the bid opening, review bids and prepare a tabulation of bids, and assist with bid evaluation scoring as needed.
- f) Recommendation for Award – The Consultant will prepare a letter with a recommendation for award.
- g) Final Conformed Contract Documents – The Consultant will print and issue three (3) full size sets of plans and two (2) half size sets of plans and specifications for distribution to the Client.

Task Deliverables:

1. Bid tabulation
2. Recommendation for Award
3. Conformed Documents (3 full size sets of plans and 2 half size sets of plans)

Task 7 – Construction Phase Services – Lift Station

Consultant will provide the limited construction phase services specifically stated below:

- a) Pre-Construction Conference. Consultant will attend a Pre-Construction Conference prior to commencement of Work at the Site with the client and client's inspectors.
- b) Visits to Site and Observation of Construction. Consultant will make visits at intervals as directed by Client in order to observe the progress of the Work. For this scope of services, it is assumed that up to four (4) site visits during construction will be required. Such visits and observations by Consultant are not intended to be exhaustive or to extend to every aspect of Contractor's work. Observations are to be limited to spot checking, selective measurement, and similar methods of general observation. Based on information obtained during such visits, Consultant will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents, and Consultant will keep Client informed of the general progress of the Work.
 - I. Consultant shall not, during such visits or as a result of such observations, supervise, direct, or have control over Contractor's work, nor shall Consultant have authority over or responsibility for the means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction selected by Contractor, for safety precautions and programs incident to Contractor's work, nor for any failure of Contractor to comply with applicable laws and regulations. Consultant neither guarantees the performance of any

Contractor nor assumes responsibility for any Contractor's failure to furnish and perform its work in accordance with the Contract Documents.

- II. Recommendations with Respect to Defective Work. Consultant will recommend to Client that Contractor's work be disapproved and rejected while it is in progress if, on the basis of such observations, Consultant believes that such work will not produce a completed Project that conforms generally to Contract Documents.
- c) Monthly Project Meetings: The Consultant shall attend up to twelve (12) monthly construction meetings for the duration of construction which is anticipated to be 12 months. The construction meetings shall be with the consultant, selected contractor, and City's representative. The consultant shall prepare an agenda and distribute meeting minutes to all attendees.
 - d) Clarifications and Interpretations. Consultant will respond to reasonable and appropriate Contractor requests for information and issue necessary clarifications and interpretations of the Contract Documents to Client as appropriate to the orderly completion of Contractor's work. Any orders authorizing variations from the Contract Documents will be made by Client. This scope of services assumes up to ten (10) RFIs during the construction phase.
 - e) Change Orders. Consultant may recommend Change Orders to Client and will review and make recommendations related to Change Orders submitted or proposed by the Contractor. This scope of services assumes up to three (3) change order evaluations.
 - f) Shop Drawings and Samples. Consultant will review and approve or take other appropriate action in respect to Shop Drawings and Samples and other data which Contractor is required to submit, but only for conformance with the information given in the Contract Documents. Such review and approvals or other action will not extend to means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction or to related safety precautions and programs. This scope of services assumes reviewing up to twenty (20) shop drawings. Each submittal shall be reviewed up to two (2) times.
 - g) Substitutes and "or-equal." Evaluate and determine the acceptability of substitute or "or-equal" materials and equipment proposed by Contractor in accordance with the Contract Documents, but subject to the provisions of applicable standards of state or local government entities. This assumes up to two (2) evaluations of equal substitutes. The Substitutes must be in compliance with the plans and specifications. If they are not within the current approved plan set, then additional services will be considered.
 - h) Inspections and Tests. Consultant may require special inspections or tests of Contractor's work as Consultant deems appropriate and may receive and review certificates of inspections within Consultant's area of responsibility or of tests and approvals required by laws and regulations or the Contract Documents. Consultant's review of such certificates will be for the purpose of determining that the results certified indicate compliance with the Contract Documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the Contract Documents. Consultant shall be entitled to rely on the results of such tests and the facts being certified. City of Pflugerville shall provide full inspection services. The Consultant can request inspection at their discretion.
 - i) Disagreements between Client and Contractor. Consultant will, if requested by Client, render written decision on all claims of Client and Contractor relating to the acceptability of Contractor's work or the interpretation of the requirements of the Contract Documents pertaining to the progress of Contractor's work. In rendering such decisions, Consultant shall be fair and not show partiality to Client or Contractor and shall not be liable in connection with any decision rendered in good faith in such capacity.
 - j) Substantial Completion. Consultant will, promptly after notice from Contractor that it considers the entire Work ready for its intended use, in company with Client and Contractor, conduct a site visit to determine if the Work is substantially complete. Work will be considered substantially complete following satisfactory completion of all items with the exception of those identified on a final punch list.

If after considering any objections of Client, Consultant considers the Work substantially complete, Consultant will notify Client and Contractor.

- k) Final Notice of Acceptability of the Work. Consultant will conduct a final site visit to determine if the completed Work of Contractor is generally in accordance with the Contract Documents and the final punch list so that Consultant may recommend, in writing, final payment to Contractor. Accompanying the recommendation for final payment, Consultant shall also provide a notice that the Work is generally in accordance with the Contract Documents to the best of Consultant's knowledge, information, and belief based on the extent of its services and based upon information provided to Consultant upon which it is entitled to rely.
- l) Record Drawings – Consultant will prepare a set of record drawings based on the contractors redlines in the field. Record drawings will be delivered in PDF and AutoCAD format.

Task Deliverables:

- Review of up to twenty (20) shop drawings and submittals
- Prepare up to four (4) site visit/ observations notes
- Attend and distribute meeting minutes for up to twelve (12) monthly meetings
- Prepare responses for up to ten (10) RFIs
- Prepare responses for up to three (3) Change Orders
- Substantial Completion Walk-Through and checklist
- Final Completion and Concurrence Letter
- Record Drawings

Task 8 – Construction Phase Services – Force main

Consultant will provide the limited construction phase services specifically stated below:

- a) Pre-Construction Conference. Consultant will attend a Pre-Construction Conference prior to commencement of Work at the Site with the client and client's inspectors.
- b) Visits to Site and Observation of Construction. Consultant will make visits at intervals as directed by Client in order to observe the progress of the Work. For this scope of services, it is assumed that up to four (4) site visits during construction will be required. Such visits and observations by Consultant are not intended to be exhaustive or to extend to every aspect of Contractor's work. Observations are to be limited to spot checking, selective measurement, and similar methods of general observation. Based on information obtained during such visits, Consultant will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents, and Consultant will keep Client informed of the general progress of the Work.
 - I. Consultant shall not, during such visits or as a result of such observations, supervise, direct, or have control over Contractor's work, nor shall Consultant have authority over or responsibility for the means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction selected by Contractor, for safety precautions and programs incident to Contractor's work, nor for any failure of Contractor to comply with applicable laws and regulations. Consultant neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform its work in accordance with the Contract Documents.
 - II. Recommendations with Respect to Defective Work. Consultant will recommend to Client that Contractor's work be disapproved and rejected while it is in progress if, on the basis of such observations, Consultant believes that such work will not produce a completed Project that conforms generally to Contract Documents.
- c) Monthly Project Meetings: The Consultant shall attend up to twelve (12) monthly construction meetings for the duration of construction which is anticipated to be 12 months. The construction

meetings shall be with the consultant, selected contractor, and City's representative. The consultant shall prepare an agenda and distribute meeting minutes to all attendees.

- d) Clarifications and Interpretations. Consultant will respond to reasonable and appropriate Contractor requests for information and issue necessary clarifications and interpretations of the Contract Documents to Client as appropriate to the orderly completion of Contractor's work. Any orders authorizing variations from the Contract Documents will be made by Client. This scope of services assumes up to ten (10) RFIs during the construction phase.
- e) Change Orders. Consultant may recommend Change Orders to Client and will review and make recommendations related to Change Orders submitted or proposed by the Contractor. This scope of services assumes up to three (3) change order evaluations.
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- k) Final Notice of Acceptability of the Work. Consultant will conduct a final site visit to determine if the completed Work of Contractor is generally in accordance with the Contract Documents and the final punch list so that Consultant may recommend, in writing, final payment to Contractor. Accompanying the recommendation for final payment, Consultant shall also provide a notice that the Work is generally in accordance with the Contract Documents to the best of Consultant's knowledge,

information, and belief based on the extent of its services and based upon information provided to Consultant upon which it is entitled to rely.

- l) Record Drawings – Consultant will prepare a set of record drawings based on the contractors redlines in the field. Record drawings will be delivered in PDF and AutoCAD format.

Task Deliverables:

- Review of up to twenty (20) shop drawings and submittals
- Prepare up to four (4) site visit/ observations notes
- Attend and distribute meeting minutes for up to twelve (12) monthly meetings
- Prepare responses for up to ten (10) RFIs
- Prepare responses for up to three (3) Change Orders
- Substantial Completion Walk-Through and checklist
- Final Completion and Concurrence Letter
- Record Drawings

Task 9 – Subconsultants

- a) Survey – see the attached scope of services for the scope of services from Kimley Horn for the boundary survey, easement metes and bounds, and topographic survey for the project.
- b) Environmental – see the attached scope of services from Blanton & Associates for the environmental and cultural resources associated with this project.
- c) Geotechnical – see the attached scope of services from Arias Geotechnical for the geotechnical services associated with the force main and lift station
- d) Subsurface Utility Engineering – see the attached scope of services from The Rios Group for the work associated with obtaining Level A-D on the project.
- e) Electrical – see the attached scope of services from Cleary Zimmermann for the electrical work associated with providing electrical controls and power to the lift station site.
- f) Land Acquisition – see the attached scope of services from 7 Arrow to perform easement acquisition services, including: title, right of entry, and negotiations for up to 10 properties. The fee is based on per parcel.
- g) Structural – see the attached scope of services from Kimley Horn for the structural design work associated with the lift station site.

Subconsultant Fee Summary

Task	Subconsultant	Fee
A – Survey	Kimley Horn	\$87,675.00
B – Environmental	Blanton & Associate	\$47,536.65
C – Geotechnical	Arias & Associates	\$84,105.00
D – SUE	The Rios Group	\$29,115.43
E – Electrical	Cleary Zimmermann	\$75,495.00
F – Land Acquisition	7 Arrow	\$140,700.00
G – Structural	Kimley Horn	\$55,000.00
Total		\$519,627.08

Additional Services

Any services not specifically provided for in the above scope will be billed as additional services and performed at our then current hourly rates. Additional services we can provide include, but are not limited to, the following:

- A) Geotechnical Design outside of what has been defined in this scope.
- B) Subsurface Utility Engineering outside of what has been defined in this scope.
- C) Franchise Utility Design is not included in this proposal.

- D) This proposal does not include easement acquisition services or landowner meetings.
- E) Unavoidable relocation design and construction for utility, water, wastewater, storm sewer, or other underground structure or pipeline that would conflict with this design is not included.
- F) Providing shop, mill, field, or laboratory inspection of materials and equipment is not included.
- G) Performing investigations, studies, and analysis of work proposed by construction Contractor to correct defective work.
- H) Design, contract modifications, studies or analysis required to comply with local, state, federal, or other regulatory agencies that become effective after the date of this agreement.
- I) Services required to resolve bid protests or to rebid the project for any reason.
- J) Full time resident representation services.
- K) Tree mitigation or irrigation services.
- L) Legal Representation at hearings.
- M) Public Meetings
- N) Warranty Services
- O) Providing services to review contractor claims, provided said claims are supported by causes not within the control of Kimley Horn or associated subconsultants.
- P) Production of O&M manuals, except for those provided by the manufacturers, is not included in the scope. If additional O&M are requested, then this will be additional services.
- Q) If the client engages a third-party review for design and constructability after the execution of this agreement, this can cause additional services.
- R) No species presence/absence surveys or coordination with USFWS or TPWD in included.

Information Provided By Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information requested by Kimley-Horn during the project, including but not limited to the following:

- A) Provide Kimley-Horn with all the criteria and full information for the Project, including design objectives and constraints, design standards for use in the design and specifications, budgetary limitations, standard forms, conditions, and related documents for the engineer to include in design, bidding, and construction.
- B) All required reports, drawings, and data, that could have an impact on the design.
- C) All development and site plans required to design the force main horizontal and vertical alignment and layout the lift station site.
- D) If Right of Entry is required by the engineer, and the landowner rejects, the Client will provide all legal services related to injunctive hearings to obtain access for engineering and field services.
- E) If easement negotiations fail resulting in eminent domain, the Client will provide all legal services related to the acquisition of the subject easement.

Responsibilities of the City of Pflugerville

In addition to other responsibilities set out in this Agreement, the City shall:

- A) Obtain Right of Entry if required through court order
- B) Provide appraisals for use in easement negotiations in a timely manner.
- C) Assist in negotiation of easements and attend all meetings requested by landowners.
- D) Approve appraisals for easements in a timely manner, within a normal review cycle.
- E) Provide bidding platform for advertisement, plan distribution, and location for pre-bid meetings.
- F) Attend the pre-bid meeting, bid opening, pre-construction meeting, construction progress meetings, other job-related meetings, and substantial completion and final payment inspections.
- G) Provide inspection and monitoring services for the construction of the project.
- H) Advise Kimley-Horn of the identity and scope of services of any independent consultants employed by the City of Killeen to perform or furnish services in regard to the project, including, but not limited to, cost estimating, project peer review, value engineering, and constructability review.

Schedule

We will provide our services as expeditiously as practicable with the goal of meeting the following schedule:

*Lift Station Design and Construction completion – approximately 14-18 months after NTP

*Force main Design and Construction completion – approximately 24-30 months after NTP

*Kimley Horn has no control over landowner or regulatory agencies schedules or delays. While Kimley Horn will provide a prompt response to questions and review comments, the schedule can be negatively impacted by preferential or subjective requests.

Fee and Expenses

Fee Table

Task	Description	Fee Type (LS/Hourly)	Amount
1	Project Management	LS	\$67,405.00
2	Lift Station Design	LS	\$158,045.00
3	Force Main Design	LS	\$276,755.00
4	Permitting	HR	\$73,280.00
5	Bid Phase – Lift Station	HR	\$16,055.00
6	Bid Phase – Force Main	HR	\$16,055.00
7	Construction Phase – Lift Station	HR	\$78,075.00
8	Construction Phase – Force Main	HR	\$78,075.00
9	Subconsultants	LS	\$519,627.08
10	Reimbursable	EA	\$2,560.00
Total			\$1,285,932.08

We appreciate the opportunity to provide these services. Please contact me if you have any questions.

Sincerely,

Lance Parisher, P.E.

Cottonwood Lift Station ($\pm 10,000$ LF)			
Task	KHA	Sub	Total
Boundary Survey	25,000	8,000	33,000
Eleven ESMT exhibits (\$3,500/each)	38,500	0	38,500
Topographic & Tree Survey	3,000	9,000	12,000
Totals	66,500	17,000	83,500

Stand-Alone Boundary Retracement Survey Cost: \$33,000

- Taxable: **Yes**
- Fee Includes Effort to:
 - Locate property corners and adjoining property corners to establish property lines
- Fee Does NOT include:
 - Title Review
 - Addressing any Table A Items.
 - Preparation of any Certified Documents

Topographic & Tree Survey Cost: \$12,000

- Taxable: **No**
- Fee Includes Effort to:
 - Perform Tree Survey to Local City/County Standards
 - Pick up Topo and Tree Survey through a conventional survey method;
 - Coordinate Texas 811 call to pick up buried utilities (if marked at time of the survey)
- Fee Does NOT include:
 - Title Review
 - Addressing any Table A Items.
 - Preparation of any Certified Documents

Separate Instrument Easements - Cost: \$3,500/Easement

- Taxable: **Yes**
- If needed, the production of a single Legal Description and Easement Boundary Exhibit will be billed at a Lump Sum rate of \$3,500/Easement.

Project Understanding/Assumptions:

- Properties are owned by multiple landowners
- Kimley-Horn will have right of entry to the properties
- Property is located East of Pflugerville, Texas
- Property is undeveloped.
- Property is located within multiple FEMA Flood Zones
 - No Flood Study effort is included in these fees
 - Wetland Delineation effort is not included in these fees
- This fee includes Certification of eleven (11) ESMT exhibits
- Conventional Topo Survey will be provided at a 50' Grid
- Includes Tree Survey
- No Platting effort is included in these fees

January 18, 2023

Mr. Lance Parish, P.E.
Kimley-Horn
10814 Jollyville Road, Campus IV, Suite 200
Austin, TX 78759
Via email: Lance.Parisher@kimley-horn.com

**Re: Blanton & Associate's Environmental and Cultural Resources Scope of Work and Fee:
Cottonwood West Lift Station and Force Main**

Dear Mr. Parish:

Please accept this correspondence as Blanton & Associates, Inc.'s (B&A), a wholly owned subsidiary of ICF Jones & Stokes, Inc., proposal to Kimley-Horn to conduct environmental and cultural resources services and permitting related to the City of Pflugerville's Cottonwood West Lift Station and Force Main Project ("Cottonwood West Project"). B&A's scope of work is based on our understanding of the information provided by Kimley-Horn on January 5th and 10th, 2023.

PROPOSED PROJECT DESCRIPTION

The Cottonwood West Project is planning to install approximately 9,500 linear feet (LF) of new force main, with associated permanent and temporary access roads, and an approximately one-acre lift station in Travis County, Texas. It is assumed that field work for both the force main, access roads, and lift station will be completed at the same time. Based on our discussions, the force main will take longer to obtain overall project completion than the lift station; however, B&A thinks it is prudent to complete one field event and one report to avoid added costs.

B&A's proposed scope of work consists of the following tasks to provide the environmental and cultural services necessary to move the project through final design stage.

ENVIRONMENTAL AND CULTURAL RESOURCES

Scope of Work

Water Resources

B&A will review existing, publicly available maps and aerial photography, including Federal Emergency Management Agency (FEMA) National Flood Insurance Program (NFIP) flood hazard digital data and maps, U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) digital data and maps, U.S. Geological Survey (USGS) topographic maps, USGS National Hydrography Dataset (NHD), USGS soil maps and Soil Survey Geographic Database (SSURGO) data, georeferenced natural color and color-infrared aerial imagery, and other pertinent data to identify potential wetlands and other waters of the U.S. within the project boundaries.

B&A will then conduct a field visit and delineation of waters of the U.S., including wetlands, for the proposed project. The delineation will follow the procedures specified in the 1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual, the 2010 Great Plains Regional Supplement, and other applicable guidance. B&A will map boundaries of wetlands and other waters of the U.S. using Global Positioning System (GPS) units with sub-meter accuracy. B&A will also take representative photographs of all waters identified.

After completion of the desktop review and field surveys, B&A will prepare a “Waters of the U.S. Delineation Report,” which will include mapping of project features and potential waters of the U.S., including wetlands, on aerial imagery and topographic basemaps, wetland determination data sheets, if needed, and photographs.

Federally Listed Species

B&A will conduct a literature and database review to determine whether federally listed threatened or endangered (T&E) species are of potential occurrence in or adjacent to the project area and, if so, whether they could be affected by the proposed project activities. This analysis will include a review of current lists and records of federally listed T&E species provided by the USFWS and critical habitat. The Texas Natural Diversity Database, eBird, and iNaturalist databases will be reviewed to determine if federally listed T&E species have been documented in or near the project area.

The habitat assessment methodology includes determining the presence or absence of suitable habitat for federally listed T&E species within and adjacent to the project area and submitting a report with the findings, which will likely be combined with the “Waters of the U.S. Delineation Report.” Protocols for determining potentially suitable habitat will be used for the federally listed T&E species known to occur in Travis County.

Historical and Archeological Resources

B&A archeologists and historians, who meet the Secretary of the Interior’s Professional Qualifications Standards (36 CFR 61), will conduct a review of the Texas Historical Commission’s (THC) online restricted-access Archeological Sites Atlas (Atlas) and unrestricted Historic Sites Atlas to identify any previously recorded archeological or historic resources recorded within the area of potential effects (APE) for the Cottonwood West Project. The APE is anticipated to be the footprint of the proposed project activities.

Based upon the results of the desktop review, B&A will prepare a letter for submission to the THC in compliance with the Texas Antiquities Code (TAC). The letter will include a background review of the project area in relation to the data on the THC’s online restricted-access Atlas and the THC’s Historic Sites Atlas. In addition to identifying recorded archeological sites, the review will include the following types of information found on the THC’s databases: National Register of Historic Places (NRHP) listed properties, State Antiquities Landmarks, Official Texas Historical Markers, Recorded Texas Historical Landmarks, and cemeteries. Based on this background review, B&A will make a recommendation regarding the necessity of cultural resources survey, or lack thereof, and request concurrence from the THC.

B&A will provide a draft of the letter to the client for their review and will provide responses to any comments prior to finalizing the draft letter. Upon approval by the client, B&A will submit the coordination letter to the THC via their online eTRAC system. A confirmation email of the submittal will be forwarded to the client. The THC has up to 30 days to review and provide comments or concur with the recommendations.

Based on the information received from the client, it is anticipated that the THC will require an archeological survey for the Cottonwood West Project. An estimate for the archeology field survey is included in this document. The scope of work for the cultural resources survey and TAC permit application will be prepared, if necessary, once comments on the desktop review letter from the THC are received.

Fee

The services described above will be conducted on a time and materials basis in accordance with our Standard Rate Schedule (**Attachment A**). The estimated cost to conduct the above scope of services is **\$45,273**.

ASSUMPTIONS FOR ENVIRONMENTAL AND CULTURAL RESOURCES

- The 21-inch wastewater main that will deliver flow to the City's Carmel Lift Station is not part of this proposal.
- It is assumed that any water crossings of the force main will be bored.
- This proposal and cost estimate are valid for 90 days.
- The final project area will be provided by the client at notice to proceed (NTP). If changes in the review area occur after NTP, B&A would submit a separate scope and budget to Kimley-Horn for consideration.
- No presence/absence surveys or coordination with USFWS or Texas Park and Wildlife Department (TPWD) for protected species is proposed. If it is determined that presence/absence surveys or coordination with USFWS or TPWD are required for this project, a supplemental cost would be provided.
- This task does not include preparation of a Pre-Construction Notification (PCN), Section 404 Individual Permit application, or coordination with the USACE.
- A review of hazardous materials or preparation of a Phase I Environmental Site Assessment is not included. If needed, a supplemental cost would be required.
- This proposal assumes that a Geologic Assessment, Water Pollution Abatement Plan, or other tasks associated with identifying or protecting habitat for federally listed karst invertebrates is not needed.
- It is assumed that no federal funding or Texas Water Development Board funding will be used for this project.

- This proposal assumes that the proposed project area includes existing right-of-way in addition to proposed easements.
- It is assumed that compliance with the Antiquities Code of Texas is required.
- It is assumed that compliance with Section 106 of the National Historic Preservation Act is not required because the proposed project does not have a federal nexus.
- One archeological and one non-archeological historic resources desktop review letter will be submitted to the THC for review.

We welcome the opportunity to discuss this proposal with you and answer any questions you may have with regard thereto. If this proposal is acceptable, please forward an agreement or provide a signed Authorization to Proceed (ATP), which is included in **Attachment B** for your review and execution. This proposal is valid for 90 days. If you have any questions, please contact Bonnie Doggett at (512) 264-1095 or Bonnie.Doggett@icf.com.

Sincerely,



Janis Childers
Program Operations
Blanton & Associates, Inc.



Bonnie Doggett
Project Manager
Blanton & Associates, Inc.

Attached:

- Attachment A: Blanton & Associates 2023 Rate Schedule*
Attachment B: Authorization to Proceed

Attachment A

B&A's Standard Rate Schedule

STANDARD RATE SCHEDULE
Effective January 1, 2023 through December 31, 2023

PERSONNEL

Blanton & Associates, Inc., provides services on an hourly professional fee basis according to the rates scheduled below:

Project Principal.....	\$240.00
Project Manager	\$170.00 - \$190.00
Senior Environmental Professional.....	\$140.00 - \$170.00
Staff Scientist II	\$130.00 - \$140.00
Staff Scientist I.....	\$120.00 - \$130.00
Environmental Technician II	\$100.00 - \$120.00
Environmental Technician I.....	\$ 75.00 - \$ 95.00
GIS Analyst/Cartography.....	\$ 95.00 - \$115.00
GIS Technician	\$ 80.00 - \$ 95.00
Clerical/Administrative.....	\$ 60.00 - \$ 70.00

TRAVEL, MEALS & INCIDENTAL EXPENSES

All travel expenses, including lodging, are invoiced at actual cost. Per diem for meals will be billed at a flat rate of \$45.00 per day. Cost of mileage for company-owned vehicles is computed at a rate of \$0.655 per mile. Rental automobiles and fuel costs for same will reflect actual costs to the firm. Company boats are billed at a rate of \$500.00 per day plus fuel. GPS units are billed at a rate of \$100.00 per day. Rented or leased equipment including drones and ATVs are invoiced at actual cost. Copies will be billed at the rate of \$.05 per page.

PURCHASED SERVICES

All purchased services are invoiced at actual cost. These include, but are not limited to, reproduction, technology, consultants, subcontract services, delivery, postage, and expendable supplies.

TERMS

Invoices are submitted monthly for all services rendered during the previous month and are payable "Net 30 days." Past Due invoices will be subject to a 1.5% fee per month not to exceed 18% per annum.



13581 Pond Springs Road, Suite 210, Austin, Texas 78729 • Phone: (512) 428-5550 • Fax: (512) 428-5525

January 16, 2023
Arias Project No. 2023-37

VIA Email: lance.parisher@kimley-horn.com

Mr. Lance Parisher, P.E.
Kimley - Horn
2600 Via Fortuna, Bldg. 1, Suite 300
Austin, TX 78746

RE: Proposal for Geotechnical Engineering Services
Cottonwood West Lift Station and Force Main
Pflugerville, TX

Dear Mr. Parisher,

Congratulations on your selection and thank you for choosing Arias & Associates, Inc. (Arias) to join your team to provide geotechnical engineering services for the above referenced project. Our understanding of the project is based on the information provided by you, including a map of the alignment and the requested field investigation. The following sections present our understanding of the project, proposed scope of services, fee compensation requirements, and schedule.

Project Information

The project will include the installation of approximately 9,500 linear feet of a new 14-inch and 21-inch diameter wastewater (WW) force main, and the construction of the Cottonwood lift station in Pflugerville, Texas. The proposed lift station is located at 17409 Cameron Road, Pflugerville, TX. The Cottonwood West lift station force main will run parallel to the New Sweden force main and along the future extension of Pflugerville Parkway. The alignment will end at a new manhole that is being constructed as part of the Wilbarger Wastewater Interceptor project as a termination point for the force main. The open cut method will be used across the majority of the alignment, but there are three trenchless locations where the force main will be installed using trenchless techniques.

- One (1) trenchless crossing under Wilbarger Creek
- One (1) trenchless crossing under Cameron Road
- One (1) trenchless crossing under the creek crossing 480-ft south from Cameron Road

A 16-ft diameter wet well, ancillary structures (valve vault, electric building, meter vault), and associated driveways will be included at the proposed lift station.

If any the above information is not correct, we should be notified immediately in order to revise our proposal and the depth of the planned borings as necessary.

Proposed Investigation

The proposed alignment is mapped as being underlain by Taylor Group (Kta) clay along the alignment. A Preliminary Boring Layout is presented on attached Exhibit A. Based on our understanding of the planned construction, we propose the following drilling scope.

Borings	No. of Borings	Boring Depth (ft)	Footage
Station/Building/Pavement	1	50	50
	1	20	20
	2	15	30
Alignment	9	15	135
Trenchless Segment	6	25	150
Total			385

The borings will be drilled using a truck-mounted rig in areas clear of brush, heavy vegetation, and underground and overhead utilities. Arias personnel will mark the boring locations and will notify Texas One-Call at 72 hours prior to drilling. It is important to mention that the Texas One-Call system only clears public utilities. Arias requests Kimley-Horn to provide maps of existing private utilities prior to our site mobilization. Arias will not be responsible for damaged private utilities not informed to us.

The borings will be advanced using augering and sampling techniques. Arias personnel will locate the borings, direct the sampling efforts, and visually classify recovered samples. Soils will be sampled by either pushing a thin-walled tube (ASTM D1587) of cohesive soils, or split barrel sampler while performing the Standard Penetration Test (ASTM D1586) for cohesionless (sandy) soils. Continuous core sampling of the rock stratum (ASTM D2113) will be performed where competent shale or chalk is encountered.

If groundwater is encountered, the groundwater levels within the open borehole will be recorded at the time of drilling and immediately following drilling. The boreholes will be backfilled with a mixture of cuttings generated by drilling operations and bentonite pellets after completion of drilling. Excess soil cuttings will be dispersed in the area adjacent to the borings. No other site or crop restoration measures, in addition to backfilling the boreholes, are included in this proposal.

Laboratory testing will be performed on recovered samples selected by the geotechnical engineer to aid in soil classification and to measure engineering properties. Laboratory testing is expected to include moisture content, Atterberg limits, fines content (percent passing the No. 200 sieve),

unconfined compression strength testing, controlled pressure swell, hydrometer analysis, and corrosion testing. The actual laboratory program will depend upon the type of soils encountered.

One (1) piezometer will be installed at the boring drilled along the Wilbarger Creek Crossing. Readings of the piezometers will occur weekly for a period of one month after completion of drilling, and monthly for a duration of twelve months. If requested, we can perform additional readings on a time and material basis.

Well Reports will be filed with the Texas Department of Licensing and Regulations (TDLR) for the piezometer, listing the City of Pflugerville as the owner. We have included costs for maintenance and plugging/abandoning the piezometer per TDLR requirements.

Reporting

We will issue electronic copies of the Geotechnical Data Report (GDR) and Geotechnical Design Memorandum (GDM) prepared by a licensed professional engineer in the State of Texas. Specifically, the reports will include the following:

Geotechnical Data Report (GDR):

- Description of the field exploration program;
- Description of the laboratory testing program and results;
- Photographs of the soil samples recovered;
- Soil boring plan that depicts borehole locations on a base map provided by Client;
- Profiles of soil borings along the alignment using plan and profile design information provided by others;
- Soil boring logs with soil classifications based on the Unified Soil Classification System (ASTM D 2487);
- Generalized site stratigraphy and engineering properties developed from field and laboratory data at the explored locations; and
- Depth where groundwater, if encountered, at the time of drilling and immediately after drilling.

Geotechnical Design Memorandum (GDM): The Geotechnical Design Memorandum will provide the following geotechnical recommendations.

- Bedding and backfilling recommendations for trenched excavations;
- Modulus of soil reaction, E' , for buried pipelines;
- Foundation recommendations for proposed structures including allowable bearing pressures, buoyancy consideration and bearing elevations;
- Site preparation recommendations and construction considerations to aid in mitigating expansive soils to help reduce the design PVR to 1" during and after construction;

- Below grade wall recommendations include equivalent lateral earth pressures and sliding coefficients, and drainage provisions;
- Site Class Determination based on the 2015 IBC;
- Preliminary rigid and flexible pavement recommendations for the proposed pavements based on traffic information provided by the client;
- Beam and Slab-on-Grade foundation recommendations for the proposed Building;
- General recommendations for construction; and
- General recommendations for groundwater control.

Arias will provide a draft version of each report for review, comment, and requests for clarification, which will then be addressed in the final GDR and GDM reports.

This proposed scope of work does not include a Geotechnical Baseline Report for trenchless installations. Arias can provide a proposal for a GBR, as design progresses.

Please be advised that Arias & Associates, Inc. performs Construction Materials Engineering and Testing (CoMET) per project requirements. We will be pleased to provide a separate proposal for construction materials testing at your request.

Proposed Fee

We propose that the fee to perform the above outline preliminary scope of services on a time and materials basis not to exceed (NTE) **\$80,100.00**. A Geotechnical Cost Breakdown is presented on the attached Exhibit B. Please note that for invoicing purposes the estimated quantities in the Geotechnical Cost Breakdown may vary (increase or decrease), depending on the actual level of effort needed to perform each item, but the NTE amount will remain the same (**\$80,100.00**).

After our reports are submitted, additional engineering time required to attend teleconferences, meetings, site visits, review plans or specifications, will be charged at the hourly rates included in our Exhibit B. Additional soil borings/piezometers and lab testing can be also performed on a time and material basis at the rates included in our Exhibit B. Also, stand-by time incurred in the field due to situations out of the control of Arias (e.g. right of access issues) will be charged at **\$175.00/hour**.

We will invoice for work completed on a monthly basis. This proposal is based on the following assumptions about site access:

- Boring/piezometer locations will be clear and accessible to our truck-mounted drilling equipment. No clearing of vegetation (nor the corresponding permits and fees), trees, brush or debris is included in this proposal;
- The ground at the time of the field investigation should be dry and strong enough to support the weight of the drilling and support vehicles. Otherwise the client will be informed about

the need to utilize an all-terrain vehicle to access boring locations;

- We will be provided with maps of existing known public and private utilities, and we will notify Texas 811 at least 72 hours prior to drilling;
- Right of Entry (ROE) to access the boring/piezometer locations will be obtained by others prior to our mobilization; and
- Drilling will be performed Monday to Friday from 8 am to 5 pm.

Schedule

Upon receiving written authorization and ROE, and weather and site conditions permitting, we can initiate our field investigation within 2 to 3 weeks. Drilling of the boreholes will take 8 to 9 days. Laboratory testing will take another 2 to 3 weeks. We anticipate submitting a draft report about 10 to 12 weeks following receipt of written authorization and ROE. We will keep you verbally informed of our findings as they become available.

Delays sometime occur due to adverse weather, utility clearance processing, site clearing requirements for drill rig access, obtaining Right of Entries and other factors outside of our control. In this event, we will communicate the nature of the delay with you and provide a revised schedule at the earliest possible date.

Proposal Acceptance

We understand that proposal authorization and contract terms will be established per Kimley Horn's Subcontract for Professional Services. We will begin work upon receipt of a signed copy of the subcontract. Please attach this proposal to the subcontract and email it to asioutis@ariasinc.com.

Should you have any questions, please do not hesitate to contact Alexandros Sioutis, E.I.T at (512) 656-2390. We appreciate the opportunity provided and look forward to becoming an integral part of the Project Team.

Sincerely,

ARIAS & ASSOCIATES, INC.

TBPE Registration No: F-32



Alexandros Sioutis, E.I.T.
Geotechnical Engineer



John S. Landwermeyer, P.E.
Managing Principal

Attachments:

Exhibit A – Boring Location Plan

Exhibit B – Geotechnical Cost Breakdown



13581 Pond Springs Road, Suite 210, Austin, Texas 78729
 Phone: (512) 428-5550 • Fax: (512) 428-5525

BORING LOCATION PLAN

Cottonwood West Lift Station
 and Force Main
 Pflugerville, Texas

Date: January 17, 2023	Job No.: 2023-24
Drawn By: AS	Checked By: ANA
Approved By: ANA	Scale: N.T.S.

Exhibit A-1



13581 Pond Springs Road, Suite 210, Austin, Texas 78729
 Phone: (512) 428-5550 • Fax: (512) 428-5525

BORING LOCATION PLAN

Cottonwood West Lift Station
 and Force Main
 Pflugerville, Texas

Exhibit A-2

Date: January 17, 2023	Job No.: 2023-37
Drawn By: AS	Checked By: ANA
Approved By: ANA	Scale: N.T.S.



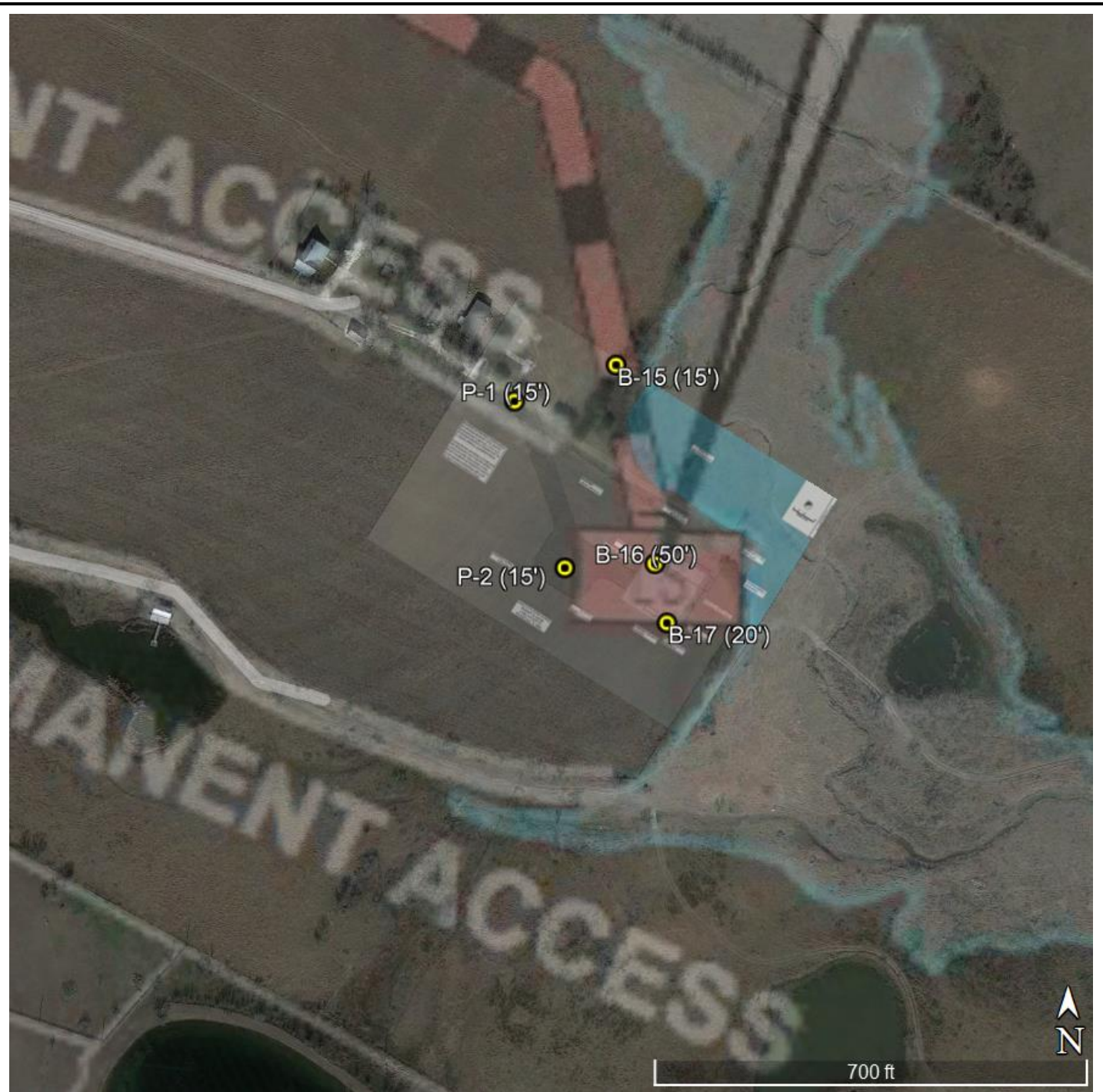
13581 Pond Springs Road, Suite 210, Austin, Texas 78729
 Phone: (512) 428-5550 • Fax: (512) 428-5525

BORING LOCATION PLAN

Cottonwood West Lift Station
 and Force Main
 Pflugerville, Texas

Date: January 17, 2023	Job No.: 2023-24
Drawn By: AS	Checked By: ANA
Approved By: ANA	Scale: N.T.S.

Exhibit A-3



13581 Pond Springs Road, Suite 210, Austin, Texas 78729
 Phone: (512) 428-5550 • Fax: (512) 428-5525

BORING LOCATION PLAN

Cottonwood West Lift Station
 and Force Main
 Pflugerville, Texas

Date: January 17, 2023

Job No.: 2023-24

Drawn By: AS

Checked By: ANA

Approved By: ANA

Scale: N.T.S.

Exhibit A-4



Exhibit B - Geotechnical Cost Estimate

Cottonwood West Lift Station and Force Main

Pflugerville, Texas

Task	Item Description	Est. Qty.	Unit	Unit Price	Est. Total Price
1 Field Exploration					
1.1 Planning and Coordination					
	Engineer in Training (Drilling Plan, One-Call)	20	hr	\$ 120.00	\$ 2,400.00
	Engineering Technician (Staking of Borings, Utility Clearance)	30	hr	\$ 75.00	\$ 2,250.00
	Trip Charge	8	ea	\$ 55.00	\$ 440.00
	Senior Geotechnical Engineer	15	hr	\$ 175.00	\$ 2,625.00
	Principal Engineer	5	hr	\$ 210.00	\$ 1,050.00
				1.1 Subtotal	\$ 6,365.00
1.2 Drilling and Sampling					
	Mobilization (Truck drill rig)	4	ea	\$ 550.00	\$ 2,200.00
	Support Truck (Water truck)	8	ea	\$ 150.00	\$ 1,200.00
	Air Compressor	8	day	\$ 200.00	\$ 1,600.00
	Drill Rig Standby Time	16	hr	\$ 175.00	\$ 2,800.00
	Soil Drilling and Sampling - Up to 50 feet	365	ft	\$ 25.00	\$ 9,125.00
	Rock Coring - Up to 50 feet	20	ft	\$ 30.00	\$ 600.00
	Backfill holes	385	ft	\$ 8.00	\$ 3,080.00
	Drill Logger	80	hr	\$ 75.00	\$ 6,000.00
	Trip Charge (Arias - Logger)	8	ea	\$ 55.00	\$ 440.00
				1.2 Subtotal	\$ 27,045.00
1.3 Observation Wells Construction					
	Observation Well, 2"-diameter 25 ft deep	25	ft	\$ 22.00	\$ 550.00
	Flush Mounted Well Pad (2'8"x2'8")	1	ea	\$ 450.00	\$ 450.00
	Wells maintenance	1	ls	\$ 400.00	\$ 400.00
	Plug/Abandon Well (Minimum Daily Rig Charge), per TDLR	1	ea	\$ 1,200.00	\$ 1,200.00
				1.3 Subtotal	\$ 2,600.00
1.4 Observation Well Readings and Reports (Weekly for 1 month and monthly thereafter for 1 year)					
	Engineering Technician (Readings)	20	hr	\$ 75.00	\$ 1,500.00
	Trip Charge	15	ea	\$ 55.00	\$ 825.00
	Engineer in Training (Reporting)	12	hr	\$ 120.00	\$ 1,440.00
	Senior Geotechnical Engineer	4	hr	\$ 175.00	\$ 700.00
				1.4 Subtotal	\$ 4,465.00
				Field Exploration TOTAL:	\$ 40,475.00
2 Laboratory Soil Testing					
	Moisture Content (ASTM D2216)	64	ea	\$ 15.00	\$ 960.00
	Atterberg Limits (ASTM D4318)	54	ea	\$ 75.00	\$ 4,050.00
	Particle Gradation, Including No. 200 sieve (ASTM D422)	54	ea	\$ 75.00	\$ 4,050.00
	Unconfined Compressive Strength (rock or soil) (ASTM D7012 or D2166)	10	ea	\$ 65.00	\$ 650.00
	Controlled Pressure Swell (ASTM D4546)	3	ea	\$ 250.00	\$ 750.00
	Hydrometer Analysis (ASTM D7928)	3	ea	\$ 200.00	\$ 600.00
	Soluble Sulfate (TEX 145-E)	5	ea	\$ 80.00	\$ 400.00
	Soluble Chloride (ASTM D512)	5	ea	\$ 70.00	\$ 350.00
	Soil pH (TEX-128-E)	5	ea	\$ 65.00	\$ 325.00
	Laboratory Resistivity (ASTM G57)	5	ea	\$ 85.00	\$ 425.00
	Engineer in Training	12	hr	\$ 120.00	\$ 1,440.00
				Laboratory Testing TOTAL:	\$ 14,000.00
3 Engineering and Reporting					
3.1 Geotechnical Data Report (GDR)					
	Principal Engineer	10	hr	\$ 210.00	\$ 2,100.00
	Senior Geotechnical Engineer	20	hr	\$ 175.00	\$ 3,500.00
	Engineer in Training	40	hr	\$ 120.00	\$ 4,800.00
	Data Processing	10	hr	\$ 65.00	\$ 650.00
				3.1 Subtotal	\$ 11,050.00
3.2 Geotechnical Data Memorandum (GDM)					
	Principal Engineer	20	hr	\$ 210.00	\$ 4,200.00
	Geotechnical Project Manager	35	hr	\$ 175.00	\$ 6,125.00
	Engineer in Training	30	hr	\$ 120.00	\$ 3,600.00
	Data Processing	10	hr	\$ 65.00	\$ 650.00
				3.2 Subtotal	\$ 14,575.00
				Engineering TOTAL:	\$ 25,625.00
Project Total					\$ 80,100.00



January 12, 2023

Lance Parisher, P.E.
Kimley-Horn
10814 Jollyville Road
Avallon IV, Suite 200
Austin, Texas 78759
Lance.Parisher@kimley-horn.com
737-263-2017

**RE: Subsurface Utility Engineering
City of Pflugerville Cottonwood Lift Station and Force Main**

Dear Mr. Parisher:

The Rios Group, Inc. (TRG) is pleased to submit a cost proposal for Subsurface Utility Engineering (SUE) for the above referenced project. This proposal is based on information provided via email on January 9, 2023.

Introduction

TRG will perform SUE services for this project in general accordance with the recommended practices and procedures described in ASCE publication CI/ASCE 38-02 “Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.” As described in the publication, four levels have been established to describe and depict the quality of subsurface utility information. The four quality levels are as follows:

- Quality Level D (QL“D”) – Information obtained from existing utility records.
- Quality Level C (QL“C”) – Surveyed data depicting visible above-ground features supplemented with QL“D” information.
- Quality Level B (QL“B”) – Two-dimensional horizontal information obtained through the application and interpretation of non-destructive surface geophysical methods. Also known as “designating,” this level incorporates QL“C” information and provides horizontal positioning of subsurface utilities to within approximately 1.0 foot.
- Quality Level A (QL“A”) – Three-dimensional horizontal and vertical information obtained through non-destructive vacuum excavation equipment to expose utilities at critical points. Also known as “locating,” this level incorporates QL“B” information and provides horizontal and vertical positioning of subsurface utilities to within approximately 0.05 feet.

Scope of Work

Based on information provided by Kimley-Horn (Client), TRG has developed a proposed scope for SUE services on this project. This scope may be modified, with Client and TRG concurrence, during the performance of work if warranted by changing or unexpected field conditions.

The scope of this proposal includes QL“A”, QL“B”, and QL“D” SUE services to support the City of Pflugerville’s Cottonwood Lift Station and Force Main design project. The QL “D” scope of work includes a 200’ wide corridor centered on the proposed alignment. For estimating purposes, the current proposed alignment is shown in orange and block on Exhibit B. It is assumed the Client will provide

direction regarding the final alignment to be investigated prior to the start of work but that any changes to the alignment will result in a similar length of alignment to be investigated.

TRG will attempt to depict the following utilities within this area: potable water, reclaimed water, chilled water, natural gas/crude oil/refined product pipelines, communication duct banks, fiber optic, cable television, telephone, electric, wastewater and storm drain. Additionally, TRG will attempt to depict utility service lines, however, because these lines are often non-conductive and not shown on records TRG cannot guarantee all service lines will be included in the final deliverables. Irrigation lines and an inventory of overhead utilities are excluded from this scope of work.

In addition to the QL “D” scope of work, two days (20 hours) of QL “B” field work is included in this scope of work. It is assumed the QL “B” SUE investigation will occur within the area where QL “D” SUE has already been performed and direction regarding targeted areas of investigation will be provided by the Client prior to the mobilization of TRG field personnel.

This proposal also includes up to five (05) QL “A” SUE test holes at location that will be provided by the Client following a review of the QL “B” and QL “D” information.

The survey of SUE field markings is also included in this scope of work. It is assumed that the Client will provide the necessary survey control information.

Any necessary Right-Of-Entry (ROE) permits will be provided by the Client prior to the start of field work.

TRG Procedures

QL “D” and “C” – Records Research and Surface Feature Survey

It is the responsibility of the SUE provider to perform due-diligence with regard to records research and the acquisition of available utility records. The due-diligence provided for this project will consist of contacting the applicable One Call agency and associated utility owners/municipalities, visually inspecting the work area for evidence of utilities, and reviewing available utility record information. Additional utilities not identified through these efforts will be referred to as Unknown utilities.

QL “B” – Designating

Following a review of the project scope and available utility records with the project manager, TRG field personnel will begin designating the approximate horizontal position of known subsurface utilities within the project area. A suite of geophysical equipment that includes magnetic and electromagnetic induction will be used to designate conductive utilities. Where access is available, a sonde will be inserted into non-conductive utilities to provide a medium for transmission which can then be designated using geophysical equipment. Non-conductive utilities can also be designated using other proven methods, such as rodding and probing. TRG will make a reasonable attempt to designate Unknown utilities identified during field work; however, no guarantee is made that all Unknown utilities will be designated. Utilities will be marked and labeled to distinguish type and ownership. Field data depicting the designated utilities, as well as relevant surface features, will be produced to ensure accuracy and completeness of subsequent survey data. The TRG project manager will review the collected survey data, field data, and utility records for accuracy and completeness.

QL“A” – Locating

TRG will utilize non-destructive vacuum excavation equipment to excavate test holes at the requested locations. To layout the test holes, TRG will follow the *QL“B” – Designating* procedures described above. Once each utility is located, TRG will record the size, type, material, and depth. Test holes will be uniquely marked. Excavations will be backfilled by mechanical means with the appropriate material, and the original surface will be restored. If necessary, TRG can core pavement up to a depth of 12 inches. Asphalt surfaces will be repaired with an asphalt cold patch, and concrete cores will be epoxied in place, flush with the surrounding surface. TRG assumes that flowable fill will not be required when backfilling test holes and that full-section pavement repair (including sidewalks) will not be required to restore the original pavement surface. If requested, these services can be provided at an additional cost.

TRG will establish any necessary routine traffic control measures at no additional cost. However, if non-routine traffic control measures (lane closures, traffic detours, flagpersons, etc.) are required, this service will be invoiced as a direct expense. Due to the risk of damage, TRG will not attempt to probe or excavate test holes on AC water lines unless approval is obtained from the owner in advance. Additionally, excavation in rock, or to a depth greater than 18 feet, is considered beyond the scope of this proposal.

TRG has made the following assumptions on this project:

- All test holes will be accessible to truck-mounted vacuum excavation equipment.
- Right-Of-Way (ROW) permits of any kind will not be required.
- Designed traffic control plans will not be required.
- Non-routine traffic control measures will not be required.
- The coring of pavement will not be required.
- The QL“B” SUE will be completed in a single mobilization
- The QL“A” SUE will be completed in a single mobilization, separate from the QL “B” SUE.

Deliverables

TRG will provide the following as a final deliverable to the Client:

- A utility file in CAD format depicting all designated and located utilities. The Client will provide TRG with any necessary background files for use in completing the final deliverables.
- A summary sheet of all test hole coordinate data and depth information.
- 8.5” x 11” Test Hole Data Forms for all test hole locations completed. These plans will be signed and sealed by a Professional Engineer and delivered to the Client in electronic PDF form.
- 11” x 17” SUE Plan Sheets depicting all designated and located utilities. These plans will be signed and sealed by a Professional Engineer and delivered to the Client in electronic PDF form.

Schedule

TRG can mobilize within three (3) weeks of receiving Notice-To-Proceed (NTP). TRG estimates that the QL“D”SUE work can be completed in twenty-five (25) working days, broken down as follows:

- Records research – 10 days
- Field reconnaissance visit – 1 day (overlapping with records research)
- Deliverable preparation – 15 days

TRG estimates that the QL“B” SUE work can be completed in seventeen (17) working days, broken down as follows:

- QL“B” field work – 2 days
- QL“B” survey and preparation of data – 5 days
- Deliverable preparation – 10 days

TRG estimates that the QL“A” SUE work can be completed in eighteen (18) working days, broken down as follows:

- Test hole layout & QL“A” field work – 3 days
- QL“A” survey and preparation of data – 5 days
- Deliverable preparation – 10 days

Estimated Fee

The total estimated cost to complete the work described herein is **Twenty-Seven Thousand Seven Hundred Twenty-Eight Dollars and 98/100 (\$27,728.98)**. An itemized breakdown of cost is provided in Exhibit A. Please note that these pricings are based on an assumption of quantities, and that only actual quantities will be invoiced – up to the total Contract amount.

We look forward to working with you on this project. If there are any questions, please do not hesitate to call at 512.580.5440.

Respectfully,

The Rios Group, Inc.



Robby Hub
Project Manager



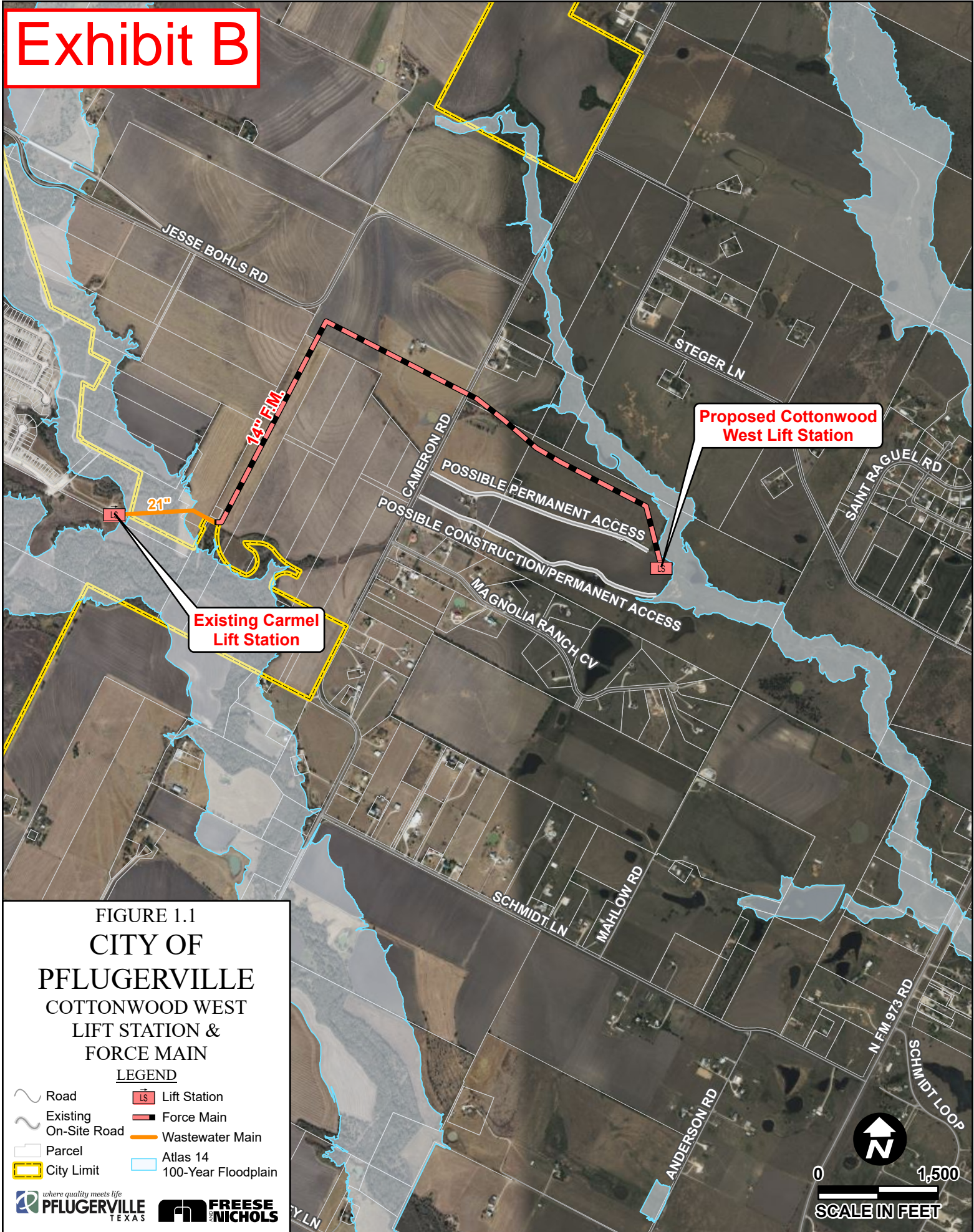
THE RIOS GROUP

Estimate for Subsurface Utility Engineering
City of Pflugerville
Cottonwood Lift Station and Force Main

EXHIBIT A

Hourly Office Labor	<i>Rate</i>	<i>Assumed Quantity</i>	<i>Unit of Measure</i>	<i>Sub-Total</i>
Supervisory Engineer IV (15-20)	\$ 190.86	4	HR	\$ 763.44
SUE Project Manager II (5-10)	\$ 169.71	8	HR	\$ 1,357.68
Professional Engineer I (4-8)	\$ 165.19		HR	\$ -
Assistant Project Manager II (5-10)	\$ 118.30	12	HR	\$ 1,419.60
Engineer in Training I (0-5)	\$ 110.49		HR	\$ -
CADD Technician II (5-10)	\$ 74.84	40	HR	\$ 2,993.60
Engineering Technician I (1-5)	\$ 74.67	8	HR	\$ 597.36
Field Manager III (10+)	\$ 127.23	10	HR	\$ 1,272.30
Administrative Specialist II (8-12)	\$ 81.39		HR	\$ -
Sub-Total				\$ 8,403.98
Direct Expenses				
	<i>Rate</i>	<i>Assumed Quantity</i>	<i>Unit of Measure</i>	<i>Sub-Total</i>
Survey (RPLS)	\$ 2,500.00	2	DAY	\$ 5,000.00
Sub-Total				\$ 5,000.00
QL"B" SUE Designating				
	<i>Rate</i>	<i>Assumed Quantity</i>	<i>Unit of Measure</i>	<i>Sub-Total</i>
One Designating Person - QLD Recon	\$ 160.00	10	HR	\$ 1,600.00
One Designating Person - QLB SUE	\$ 160.00	10	HR	\$ 1,600.00
One Designating Person - TH Layout	\$ 160.00	5	HR	\$ 800.00
Two Person Designating Crew	\$ 250.00	10	HR	\$ 2,500.00
Sub-Total				\$ 6,500.00
QL"A" SUE Test Holes				
Unit Rate - Depth	<i>Outside Pavement Rate</i>	<i>Assumed Quantity</i>	<i>Unit Of Measure</i>	<i>Sub-Total</i>
0 - 5 feet	\$ 1,315.00	2	EA	\$ 2,630.00
5 - 8 feet	\$ 1,600.00	2	EA	\$ 3,200.00
8 - 13 feet	\$ 1,995.00	1	EA	\$ 1,995.00
13 - 20 feet	\$ 2,575.00	0	EA	\$ -
Over 20 feet	\$ 3,025.00	0	EA	\$ -
Pavement Coring	\$ 370.00	0	EA	\$ -
Test Hole Total		5		
Sub-Total				\$ 7,825.00
Total Estimated Cost				\$ 27,728.98

Exhibit B



Existing Carmel Lift Station

Proposed Cottonwood West Lift Station

FIGURE 1.1
CITY OF PFLUGERVILLE
COTTONWOOD WEST LIFT STATION & FORCE MAIN

LEGEND

	Road		Lift Station
	Existing On-Site Road		Force Main
	Parcel		Wastewater Main
	City Limit		Atlas 14 100-Year Floodplain

where quality meets life
PFLUGERVILLE TEXAS

FREES & NICHOLS

Proposal for Engineering Services

01/18/2023

Mr. Lance Parisher, PE (TX)
Kimley-Horn
10814 Jollyville Road, Avallon IV, Suite 200
Austin, Texas 78759

Mr. Parisher,

As a registered professional engineering firm with licensed professional engineers who are proficient in their practices, CLEARY ZIMMERMANN ENGINEERS, LLC ("CZ") hereby proposes to serve as your creative engineering partner for your project. The details of your project as we understand them are described hereafter (the "Project"), as well as the specific services we will provide as a consultant for the Project.

Project Details

Project Name

Pflugerville Cottonwood West Lift Station REV. 1

Estimated Const. Cost

To be determined

Approximate Project Location

17409 Cameron Road
Pflugerville, TX 78660

Design Schedule

To be determined

Construction Period

To be determined

Scope of Work

The project scope is understood to consist of design for electrical power, power company coordination, instrumentation, controls, SCADA, Communication, and Lighting for a new lift station. A preliminary engineering report with 30% schematic drawings are also included under this scope. Report shall analyze initial and ultimate design sizing. The scope of work above includes the following detailed items:

- New electric service and respective coordination with Oncor
- Power, controls, and instrumentation.
- Quadplex ~87 HP pump system with 2 pumps shown as future and infrastructure for pump 3 & 4
- VFD pump controllers
- MEP design for electrical building
- Flow meter
- Controls and SCADA design.
- Emergency generator capable of running two (2) pumps and ancillary facility devices meeting current ISO standards.
- Area Lighting.

Basic Services

Assessment

CZ Shall perform preliminary load analysis, calculations, and alternative pump schemes to develop an opinion of probable construction cost for two varying capacity lift stations.

Design

CZ shall perform load analyses, calculations, one-line diagrams, equipment selections, and system design in accordance with applicable codes, appropriate GUS standards, and commonly accepted engineering practice.

Meetings

Five (5) local, in-person meeting is included. This meeting may be utilized for review, coordination, budgeting, or any other planning purpose.

Tele/video conferences will not be limited.

Any other additional meetings will be billed on an hourly basis per the Hourly Rate Schedule.

Deliverables

One preliminary engineering report with 30% schematic design drawings; one set of preliminary construction drawings, Opinion of Probable Construction Cost, and specifications at 60%, 90%; and one set of final sealed construction drawings and specifications upon completion.

Bidding/Permit Assistance

Engineer shall assist during the bidding/permit process by responding to contractor/reviewer questions during the bidding/permit process, coordination with GUS, and evaluating bids.

Construction Administration

Engineer shall perform during the construction period in-office reviews of all material and equipment submittals; respond electronically to RFI's; and prepare and assist with ASI's when necessary

CZ shall visit the project site and/or attend construction meetings only upon written request during substantial activity by trades applicable to services rendered; generally, this standard of care will not exceed one visit per week. Visits will include an observation of construction progress as compared to the contract schedule, and a general assessment of performance as compared to the requirements in the construction documents. Findings will be documented in a written Field Report and submitted to your team.

Site Visits

CZ shall visit the project site and/or attend construction meetings only upon written request during substantial activity by trades applicable to services rendered; generally, this standard of care will not exceed three (3) total visits. Visits will include an observation of construction progress as compared to the contract schedule, and a general assessment of performance as compared to the requirements in the construction documents. Findings will be documented in a written Field Report and submitted to your team.

Compensation for Services

Fees

CZ's compensation for performing the services described herein will be on an hourly basis by task as follows:

BASIC SERVICES	FEE
Preliminary Engineering Report/Study	\$7,200
Design Phase	\$48,550
Bidding/Permitting Phase	\$3,250
Construction Administration	\$12,900

Reimbursable Expenses

Engineer shall be reimbursed by the Client for reproductions, travel expenses and delivery services at 1.05 times net cost; for mileage to/from the Project site at 1.05 times the current rate published by the Internal Revenue Service; and for plotting and printing at \$9 per full-size sheet and \$0.10 per letter-size sheet.

Invoice Progression

Unless otherwise noted, CZ will invoice for services rendered per the following schedule:

SERVICES	SCHEDULE
PER	Upon completion of each Deliverable milestone
Design Phase	Upon completion of each Deliverable milestone
Bidding/Permitting	Upon completion
Construction Phase	In aggregate, once per month
Site Visits	In aggregate, once per month

Services Not Included

Services related to environmental remediation	Site utility design, including domestic water, sewer, storm drainage and natural gas; and site fire protection design or analysis (access drives, hose lay, etc).
Services related to environmental studies or remediation.	Design services due to a change in scope of Basic Services.
Design of bid alternates or multiple bid packages.	Design services due to Change Orders requested by the Client during construction.
Engineering studies of alternative systems and equipment locations.	Economic analyses, including life cycle cost.
Record drawing generation from contractor's red-lined field notes.	Value engineering design services after approval of the 60% Preliminary Construction Documents.
SCADA Programming Services	

Agreement

Excluding any services with strikethrough and initials in the Fees paragraph, I hereby accept this proposal and enter into a binding agreement with CZ comprised of this Proposal for Engineering Services, the attached Exhibit A, Hourly Rate Schedule, and the attached Exhibit B, Terms and Conditions.

Respectfully submitted,



RICHARD GUZMAN, PE, SEC+,
PRINCIPAL | WATER / WASTEWATER
CLEARY ZIMMERMANN ENGINEERS, LLC

By: _____

LANCE PARISHER, PE (TX) (Date)
KIMLEY-HORN

Exhibit A – 2023 Hourly Rate Schedule

Division		Rate
Design	Principal	\$275
	Electrical Engineer	\$215
	Technology Design Consultant	\$210
	Mechanical Engineer	\$210
	Mechanical Designer	\$165
	Electrical Designer	\$175
	Plumbing Designer	\$160
	Construction Inspector	\$160
	Modeling Technician	\$135
	Commissioning	Principal
Project Manager		\$195
Mechanical Engineer		\$210
Electrical Engineer		\$215
Field Technician		\$160
SCADA	SCADA Engineer	\$250
Administration	Clerical	\$115
	Accounting	\$165
Expenses	Cost plus 10% unless otherwise noted	
*Rates are subject to annual review.		

**SCOPE OF SERVICES
REAL ESTATE ACQUISITION
City of Pflugerville – Wilbarger Creek Interceptor Project**

GENERAL: The City of Pflugerville (City) Cottonwood Lift Station and Force Main Project (the Project) will include pre-acquisition and acquisition services. 7Arrows Land Staff, LLC (7Arrows) shall provide a variety of services to support City in execution of the project including pre-acquisition and ROW/property acquisition services. 7Arrow's services may also include, as directed by City, assistance with open houses or similar meetings with the public, presentations to all approval authorities, and other real estate and property work that may be needed from time to time to support the timely execution of the project.

BASIC SERVICES: 7Arrows shall render the following professional services in connection with the development of the Project:

LAND RIGHTS PRE-ACQUISITION AND ACQUISITION SERVICES INCLUDE:

1. Public Involvement Services
 - a) Review proposed project maps and descriptions to assist in defining ROW related concerns.
 - b) Attend public open house meeting(s)
 - c) Attend internal meetings with Project Management Team to discuss ROW considerations/alternatives
 - d) Contribute to Routing Analysis. Prepare public notice of selected/approved route (if required).
2. Pre-Acquisition Services
 - a) Research preliminary ownership and easement information.
 - b) Provide right of way cost estimates on a parcel by parcel basis.
 - c) Assist in preparing and obtaining any Rights of Entry necessary for surveying, geotechnical investigations and environmental services.
3. Title Services
 - a) Review preliminary title commitment (Schedules A, B & C) or preliminary title search information for all properties.
 - b) Secure title commitments and updates in accordance with insurance rules and requirements for parcel payment submissions for properties which will be acquired in fee simple and for ROW easements

- c) Secure title insurance for all parcels, insuring acceptable title. Cure all exceptions on Schedule C, when applicable. Written approval by the City of Pflugerville will be required for any exceptions to coverage.
 - d) Attend closings and provide closing services in conjunction with Title Company for all tracts.
 - e) Record all original instruments immediately after closing at the respective County Clerk's Office.
 - f) Research title and provide Condemnation Title Report to legal counsel for property rights that will be acquired through Eminent Domain. (See item 7 below)
4. Right of Entry
- a) Assist with preparation of Right of Entry packets to include exhibits, maps and paperwork to be executed.
 - b) The agent will initiate and participate in landowner meetings to make every effort to obtain Right of Entry documents.
5. Appraisal Services
- a) All appraisals shall be performed under a contract directly between the City of Pflugerville and the appraisal firm designated by the City to perform the project appraisals.
 - b) Coordination of all documents and land owner information needed for said appraisal firm to perform their duties as outlined in their contract with the City of Pflugerville shall be provided by the right of way agent or land manager directly to the appraiser performing said appraisal(s).
 - c) Agent shall meet Appraiser on site, when requested, to discuss process with property owner.
6. Negotiation Services
- a) Analyze appraisal reports and confirm approved value prior to making offer for each parcel.
 - b) Analyze preliminary title report to determine potential title problems and propose methods to cure title deficiencies.
 - c) Prepare the initial offer letter and any other documents required or requested by the City of Pflugerville in an acceptable form.
 - d) Contact each property owner or owner's designated representative and present the written offer in person where practical. When owners do not wish to have offers delivered in person, they will be mailed via certified mail with return receipt for documentation of delivery/receipt. Maintain follow-up contacts and secure the necessary instruments upon acceptance of the offer for the closing.
 - e) Provide a copy of the appraisal report for the subject property exclusively to the property owner or authorized representative at the time of the offer.

- f) Respond to property owner inquiries verbally and/or in writing within two business days.
- g) Prepare a separate negotiator contact report for each parcel file for each contact.
- h) Maintain parcel files of original documentation related to the purchase of the real property or property interests/acquisition of the Easement for Right of Way.
- i) Present counteroffers in a form as directed by the City. Transmit any written counteroffer from property owners including supporting documentation, and Agent's recommendation with regard to the counteroffer.
- j) Prepare final offer letter as necessary.

6. Closing/Acquisition Services

- a) Prepare check request, review closing documents facilitate execution of all necessary documents. Attend closings and provide closing services in conjunction with Title Company for all tracts.
- b) Transport any documents to City and landowner for signatures.
- c) Record or cause to be recorded all original instruments immediately after closing at the respective County Clerk's Office.
- d) Review Title Policy and give to City for permanent storage.

7. Project/Document Administration

- a) Maintain current status reports of all parcel and project activities and provide monthly or as requested to the City.
- b) Participate in project review meetings as requested.
- c) Provide copies of all incoming and outgoing correspondence as generated if requested.
- d) Maintain copies of all correspondence and contacts with property owners.
- e) Update database with current status information and documentation.

*Condemnation Scope and Fee will be provided as supplement, if necessary.

**Assumption of no Relocation Services needed.



**City of Pflugerville
Cottonwood Lift Station and Force Main Project
Right of Way Acquisition Services**

Easement Acquisition Services:

Right of Entry:	10 @ \$1,000.00 per parcel
Title/Curative Services: (excluding title policy, if needed)	10 @ \$1,500.00 per parcel
Administrative/Document Services:	10 @ \$1,500.00 per parcel
Negotiation Services:	10 @ \$3,500.00 per parcel
Acquisition/Closing Services:	10 @ \$3,500.00 per parcel
<u>Total Acquisition Services:</u>	<u>\$110,000.00*</u>
<u>Right of Way Management Support:</u> 120 hours @ \$200.00 per hour	<u>\$ 24,000.00</u>
<u>TOTAL ESTIMATED COST:</u>	<u>\$134,000.00</u>

Submitted by: *Nicole Costanza*
Nicole Costanza, Managing Partner

Date: January 17, 2023

*City will be charged ONLY for services performed on parcels as determined by alignment selection.

Scope for Cottonwood West Lift Station Structural Components

Structural Design for Cottonwood West Lift Station

Kimley-Horn will provide structural design services related to the design and coordination of the items below:

- Lift Station
 - This structure is assumed to consist of a cast in place top slab, precast walls, and a cast in place foundation
 - The lift station is proposed to be a circular structure with 16 feet inside diameter and 29 feet in depth
- Vault
 - This structure is assumed to consist of a cast in place concrete top slab, walls, and foundation
- Electrical Building
 - This structure consists of a precast concrete roof, masonry walls, and cast in place foundations
 - The approximate footprint of the 1-story building is 14 feet by 14 feet.
- Cast in place slab on grade to support miscellaneous equipment
- Crane cast in place foundation

Survey and geotechnical work will be by others on the design team.

The structural design scope assumes that the general layout and overall geometry will be established by the design team at the 30% submittal.

Kimley-Horn will prepare 60%, 90%, and 100% submittals. Structural material specifications will consist of notes on the plans. No separate technical specification book is anticipated.

Key assumptions:

- Vehicle and equipment loading will be determined and confirmed at the 30% submittal
- The codes to be used in design shall be the International Building Code - 2021 Edition, ACI 318-14, ACI 350-R06
- Overall geometry will be established by design team
- Geotechnical report will include recommendations for foundation design at all locations for all facilities requiring structural design
- Cost estimate by others
- 1 internal design review session per submittal
- Assumes two (2) rounds of permit comments and plan revisions

Anticipated Meetings:

- Project Coordination Meetings with Utilities team (4)
- Coordination Meetings with Electrical team (2)
- Coordination Meeting with the Geotechnical Engineer (2)

Anticipated Construction Drawing List:

- Structural Site Plan (1 sheet)
- Structural Notes (1 sheets)
- Lift Station Plan, Sections, and Details (4 sheets)
- Vault Plan, Sections, and Details (2 sheets)
- Electrical Building, Foundation Plan, Roof Plan, Elevations, Sections, and Details (3 sheets)
- Slab on Grade and Crane Foundation (1 sheet)
- Miscellaneous Standard Details (1 sheets)

Bid Phase Services and Construction Phase Services are not included

Fee Schedule:

Kimley-Horn will perform the scope of services for a Lump sum labor and expense fee of **\$55,000**.

Fees and expenses will be invoiced monthly based, as applicable, upon the percentage of services completed or actual services performed, and expenses incurred as of the invoice date. Payment will be due within 45 days of your receipt of the invoice.

EXHIBIT B FEE SUMMARY FOR PROFESSIONAL SERVICES

Project Name: Cottonwood West Lift Station and Forcemain
Prepared By: Kimley-Horn and Associates, Inc.

Task # Subtask Number	Task Name Subtask Name/Description	Assumptions	Direct Labor (Person-Hours)						Labor Total (hours)	Misc. Direct Expense (\$)
			Senior Prof II	Senior Prof I	Prof	Analyst	Project Controller	Admin		
			\$325.00	265.00	225.00	185.00	125.00	\$110.00		
1	PROJECT MANAGEMENT									
a	Project Schedule and Kickoff Meeting		16		12	4			32	
b	Invoicing and Progress Reports	18 invoices	9		18				27	
c	Progress Meetings	12 meetings	16		12	24	18	9	79	
d	Site Visits	2 site visits	4		8	8			20	
e	Council Meetings	3 Council Meetings	8		8				16	
f	Design Team Coordination	18 team meetings	18		18	18			54	
g	Subconsultant Coordination		12		12	40			64	
									0	
		Task Total (Hours)	83	0	88	94	18	9	292	
		Task Total (Dollars)	\$26,975	\$0	\$19,800	\$17,390	\$2,250	\$990	\$67,405.00	\$0.00
2	LIFT STATION DESIGN									
a	Lift Station Sizing and Tech Memo		8		24	40			72	
b	Civil Plans - 30/60/90/100								0	
i	Cover Sheet		1		6	11			18	
ii	General Notes				3	7			10	
iii	Project Layout		2		8	15			25	
iv	Access Sheet and Easement Sheet		2		10	20			32	
v	Traffic Control and Details		1		8	16			25	
vi	Erosion Control and Details		3		10	20			33	
vii	Site Plan		2		29	50			81	
viii	Grading and Drainage Plan		4		20	40			64	
ix	Lift Station Mechanical Plan and Sections		4		40	80			124	
x	Details		2		10	20			32	
c	OPCC				11	17			28	
d	Specifications		4		30	16			50	
e	QA/QC		31						31	
f	Revision and Submittals		4		40	80			124	
		Task Total (Hours)	68	0	249	432	0	0	749	
		Task Total (Dollars)	\$22,100	\$0	\$56,025	\$79,920	\$0	\$0	\$158,045.00	\$0.00
3	FORCE MAIN DESIGN									
a	Alignment Study		20		40	80			140	
b	Civil Plans - 30/60/90/100								0	
i	Cover Sheet		3		4	8			15	
ii	General Notes				4	8			12	
iii	Project Layout		6		12	24			42	
iv	Access Sheet and Easement Sheet		7		14	48			69	
v	Traffic Control and Details		4		12	24			40	
vi	Erosion Control and Details		6		24	40			70	
vii	Plan & Profiles		43		117	286			446	
viii	Special Details		8		15	20			43	
ix	Standard Details		4		9	18			31	
c	OPCC		6		36	36			78	
d	Specifications		17		45	31			93	
e	QA/QC		36		0	0			36	
f	Revision and Submittals		20		60	80			160	
		Task Total (Hours)	180	0	392	703	0	0	1275	
		Task Total (Dollars)	\$58,500	\$0	\$88,200	\$130,055	\$0	\$0	\$276,755.00	\$0.00

EXHIBIT B FEE SUMMARY FOR PROFESSIONAL SERVICES

Project Name: Cottonwood West Lift Station and Forcemain
Prepared By: Kimley-Horn and Associates, Inc.

Task # Subtask Number	Task Name Subtask Name/Description	Assumptions	Direct Labor (Person-Hours)						Labor Total (hours)	Misc. Direct Expense (\$)
			Senior Prof II	Senior Prof I	Prof	Analyst	Project Controller	Admin		
			\$325.00	265.00	225.00	185.00	125.00	\$110.00		
4	PERMITTING AND LANDOWNER COORDINATION									
a	TCEQ			8	8			16		
b	Travis County		24		40	80		144		
c	Landowners	40 meetings	40		80	40		160		
	Task Total (Hours)		64	0	128	128	0	320		
	Task Total (Dollars)		\$20,800	\$0	\$28,800	\$23,680	\$0	\$0	\$73,280.00	\$0.00
5	BID PHASE SERVICES - LIFT STATION									
a	Notice to Bidders				1	2		3		
b	Pre-Bid Conference		1		4	4		9		
c	Respond to Contractor Questions		2		9	9		20		
d	Addenda		2		8	8		18		
e	Bid Opening		1		3	6		10		
f	Recommendation for Award				1	2		3		\$0.00
g	Final Conformed Contract Documents		1		4	7		12		\$0.00
	Task Total (Hours)		7	0	30	38	0	75		
	Task Total (Dollars)		\$2,275	\$0	\$6,750	\$7,030	\$0	\$0	\$16,055.00	\$0.00
6	BID PHASE SERVICES - FORCE MAIN									
a	Notice to Bidders				1	2		3		
b	Pre-Bid Conference		1		4	4		9		
c	Respond to Contractor Questions		2		9	9		20		
d	Addenda		2		8	8		18		
e	Bid Opening		1		3	6		10		
f	Recommendation for Award				1	2		3		\$0.00
g	Final Conformed Contract Documents		1		4	7		12		\$0.00
	Task Total (Hours)		7	0	30	38	0	75		
	Task Total (Dollars)		\$2,275	\$0	\$6,750	\$7,030	\$0	\$0	\$16,055.00	\$0.00
7	CONSTRUCTION PHASE SERVICES - LIFT STATION									
a	Pre-Construction Meeting			4	4	4		12		
b	Site Visits	4	4	4	8	8		20		
c	Monthly Meetings	12	15	30	30	30		75		
d	RFIS	10	5	20	40	40		65		
e	Change Orders	3	3	6	12	12		21		
f	Shop Drawings and Samples	20	10	20	60	60		90		
g	Substitute Evaluation		2		8	8		18		
h	Inspections and Tests Review				4	4		8		
i	Disagreements between Client and Contractor		4		4	4		8		
j	Substantial Completion				4	4		8		
k	Final Notice of Acceptability				4	4		8		
l	Record Drawings		2		8	16		26		\$0.00
	Task Total (Hours)		49	0	120	190	0	359		
	Task Total (Dollars)		\$15,925	\$0	\$27,000	\$35,150	\$0	\$0	\$78,075.00	\$0.00
8	CONSTRUCTION PHASE SERVICES - FORCE MAIN									
a	Pre-Construction Meeting			4	4	4		12		
b	Site Visits	4	4	4	8	8		20		
c	Monthly Meetings	12	15	30	30	30		75		
d	RFIS	10	5	20	40	40		65		
e	Change Orders	4	3	6	12	12		21		
f	Shop Drawings and Samples	20	10	20	60	60		90		
g	Substitute Evaluation		2		8	8		18		
h	Inspections and Tests Review				4	4		8		
i	Disagreements between Client and Contractor		4		4	4		8		
j	Substantial Completion				4	4		8		
k	Final Notice of Acceptability				4	4		8		
l	Record Drawings		2		8	16		26		\$0.00

EXHIBIT B FEE SUMMARY FOR PROFESSIONAL SERVICES

Project Name: Cottonwood West Lift Station and Forcemain
Prepared By: Kimley-Horn and Associates, Inc.

Task # Subtask Number	Task Name Subtask Name/Description	Assumptions	Direct Labor (Person-Hours)						Labor Total (hours)	Misc. Direct Expense (\$)
			Senior Prof II	Senior Prof I	Prof	Analyst	Project Controller	Admin		
			\$325.00	265.00	225.00	185.00	125.00	\$110.00		
	Task Total (Hours)		49	0	120	190	0	0	359	
	Task Total (Dollars)		\$15,925	\$0	\$27,000	\$35,150	\$0	\$0	\$78,075.00	\$0.00
9	SUBCONSULTANTS									
a	Survey - Kimley Horn									\$87,675.00
b	Environmental - Blanton & Associates	5% Markup								\$47,536.65
c	Geotechnical - Arias	5% Markup								\$84,105.00
d	SUE - The Rios Group	5% Markup								\$29,115.43
e	Electrical - Cleary Zimmerman	5% Markup								\$75,495.00
f	Land Acquisition - 7 Arrow	5% Markup								\$140,700.00
g	Structural - Kimley Horn								0	\$55,000
	Task Total (Hours)		0	0	0	0	0	0	0	
	Task Total (Dollars)		\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	\$519,627.08
	Reimbursable Expenses									
	Plotting and Reproduction	\$2,000 LS								\$2,000.00
	Mileage	0.56/MILE @ 1000 MILES								\$560.00
	Task Total (Dollars)									\$2,560.00
	KIMLEY-HORN TOTAL (Hours)		507	0	1157	1813	18	9	3504	
	KIMLEY-HORN TOTAL (Dollars)		\$164,775	\$0	\$260,325	\$335,405	\$2,250	\$990	\$763,745.00	
	SUBCONSULTANT								\$519,627.08	
	REIUMBURSABLE EXPENSES (KH)								\$2,560.00	
	GRAND TOTAL								\$1,285,932.08	