




**FREESE AND NICHOLS, INC.**

DocuSigned by:  
**By:**   
John New  
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5/18/2023

**Date**

**CITY OF ROUND ROCK**

**APPROVED AS TO FORM:**

**By:** \_\_\_\_\_  
**Craig Morgan, Mayor**

\_\_\_\_\_  
**Stephanie L. Sandre, City Attorney**

\_\_\_\_\_  
**Date**

## **ADDENDUM TO EXHIBIT B**

### **Engineering Services**

The **CITY OF ROUND ROCK** ("CITY") is proposing to develop a 0.44 mi segment of Chisholm Trail Road between Sam Bass Road and RM 620. The work to be performed under this work authorization by **FREESE AND NICHOLS, INC.** ("CONSULTANT") will consist primarily of the preparation of Plans, Specifications, and Estimate ("PS&E"), the preparation of Bidding Documents, and performing Construction Phase Services.

This work will be based upon the 30% design schematic prepared by the CONSULTANT and approved by the CITY in January 2023, during the preliminary design phase of the project.

#### **120.1 PUBLIC INVOLVEMENT & OUTREACH**

1. The CONSULTANT will prepare for and conduct one (1) public meeting for the project to be held upon approval by the CITY, including the following:

- The CONSULTANT will provide logistics planning for the public meeting
- The CONSULTANT will prepare meeting notices and meeting materials including flyers, handouts, agendas, name tags, sign-in sheets, comment cards, meeting exhibits and talking points as necessary. One (1) round of comments/revisions will be completed on all public meeting materials.
- The CONSULTANT will arrange meetings with the CITY prior to the public meeting to review all exhibits and other materials
- The CONSULTANT will provide staff to attend the public meeting including public engagement and engineering staff to facilitate the meeting, present meeting materials, and answer questions
- The CONSULTANT will compile and prepare a public meeting summary report for the meeting
- The CONSULTANT will compile and prepare responses to comments at the public meeting

2. The CONSULTANT will perform outreach to directly impacted stakeholders prior to the commencement of project construction to provide information of impending disruptions. Outreach may include phone calls, emails, door-to-door visits, and individual meetings as needed. One half (1/2) day of visits is assumed and three (3) individual meetings are assumed for budgeting purposes.

3. The CONSULTANT will develop and distribute construction-related materials including flyers, postcards, email updates, media releases, social media posts, detour maps, and signage as needed during construction. Three (3) rounds of updates and/or materials are assumed.

4. The CONSULTANT will develop updates for the project webpage, to be hosted on the City's website, to share information on the project such as major milestones and long-term traffic impacts/detours. The content shall be approved by the CITY and the CITY will be responsible for posting updates on the webpage. Three (3) updates are assumed.

5. The CONSULTANT will maintain and update the project database of people, agencies and organizations interested in the project. The list will include emails and other contact information as available.

6. The CONSULTANT will respond to stakeholder comments and inquiries as needed prior to and during construction.

7. Project Management & Administration (20 months assumed)

- Prepare monthly invoices and progress reports
- Attend team coordination meetings and construction meetings

Deliverables:

- Public meeting materials and report

- Project webpage content
- Stakeholder database

## **120.2 ENVIRONMENTAL SERVICES**

1. The CONSULTANT shall perform tasks related to compliance with Edwards Aquifer Protection Program (EAPP), which is regulated by TCEQ and related to Section 401 Water Quality Certification. Compliance with the EAPP is required for projects occurring in the Edwards Aquifer Recharge, Contributing, or Transition Zone. The Engineer will do the following:

- Submit Water Pollution Abatement Plan (WPAP) Exception Request

Assumptions: No permit application would be submitted under this SOW besides the WPAP Exception Request. No pedestrian surveys or intensive cultural resource surveys are included in this SOW and assumes any necessary cultural resource investigations would occur if the THC requires one (and those efforts would require a scope amendment). No presence/absence surveys for federally-listed species are included in this SOW.

Deliverables:

- WPAP Exception Request documenting the temporary best management practices (BMPs) adopted to reduce potential pollutants entering the Edwards Aquifer during construction.
- Geologic Assessment, per EAPP requirements

## **130.0 UTILITY COORDINATION & SUBSURFACE UTILITY ENGINEERING (SUE) SERVICES**

1. Utility Coordination Services will include the following:

- The CONSULTANT will attend monthly utility coordination meeting with the CITY and utility owners during design. For the purpose of scoping, ten (10) months of one (1) hour Virtual meetings with (1) attendee is assumed. The CONSULTANT will coordinate with the utility owners to determine scope of utility relocations and minimize utility conflicts through design where reasonable and adequate information is provided.
- The CONSULTANT will prepare and update a Utility Conflict Matrix (UCM) for the 60% and 90% design submittals. The UCM will include potential conflicts with existing utilities and the proposed project design.

2. SUE Services will include the following:

- The CONSULTANT will collect ten (10) QL "A" SUE test holes to verify conflicts between proposed roadway and drainage improvements and existing wastewater utility. To layout the test holes, the CONSULTANT will attempt to designate the target utility ten (10) feet either side of the test hole. The CONSULTANT will survey the test holes and incorporate into the plan set.
- The CONSULTANT will utilize non-destructive vacuum excavation equipment to excavate test holes at the requested locations. The CONSULTANT 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 CONSULTANT will review the collected survey data, field data, and utility records for accuracy and completeness. Once each utility is located, the CONSULTANT 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, the CONSULTANT 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. The CONSULTANT 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. Due to the risk of damage, the CONSULTANT 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.

- The CONSULTANT has made the following assumptions with regard to the test holes on this project:
  - All test holes will be accessible to truck-mounted vacuum excavation equipment.
  - Right-Of-Way (ROW) permits from the CITY will be required.
  - The CONSULTANT will obtain all required CITY permits and ensure that coordination and compliance with the CITY is provided.
  - Designed traffic control plans will not be required.
  - Non-routine traffic control measures will be required. The CONSULTANT will acquire the services of a qualified Maintenance-Of-Traffic (MOT) Subcontractor and ensure that adequate traffic control is provided.
  - The coring of pavement will be required.

#### Deliverables:

- A utility file in CAD format depicting all designated and located utilities.
- A summary sheet of all test hole coordinate data and depth information.

## 145.0 PROJECT MANAGEMENT

### 1. Project Administration Services will include the following:

- The CONSULTANT will submit to the CITY its invoices of services completed and compensation due, arranged by task.
- Each month, and included with the submission of each invoice, the CONSULTANT will submit a monthly report of the status of work performed through the end of the previous month. The CONSULTANT will summarize decisions or agreements made, and will outline unresolved or pending issues requiring the CITY'S involvement or decision;

### 2. Project Coordination Services will include the following:

- The CONSULTANT will meet with the CITY as needed. For the purpose of scoping, a maximum of two (2) hour virtual meetings, including agenda and meeting minute prep, are assumed for eleven (11) months with three (3) attendees. (Coordination meetings included under Project Administration and Coordination Services include design and bid phases only. Coordination meetings conducted during Construction Phase Services are included with Construction Phase Services.) The CONSULTANT will prepare and distribute meeting agendas twenty-four (24) hours before the meeting. The CONSULTANT will prepare and distribute meeting minutes within three (3) business days of each meeting.
- The CONSULTANT will attend Comment Resolution Meetings after the 60% and 90% submittals to discuss review comments. For the purpose of scoping, a maximum of two (2) three (3) hour in-person meetings, including travel time and agenda and meeting minute prep, are assumed with three (3) attendees. The CONSULTANT will respond in writing to reviewer comments for each submittal. Responses will include explanations for any items in disagreement. The CONSULTANT will prepare and distribute meeting minutes within three (3) business days of each meeting.

### 3. Quality Assurance/Quality Control (QA/QC) Services will include the following:

- The CONSULTANT will perform QA/QC measures at each milestone deliverable, including 60%, 90%, and 100% submittals.

- The CONSULTANT will provide QA/QC markups with each milestone deliverable package.

Deliverables:

- Meeting Minutes
- QA/QC markups with 60%, 90%, and 100%

### **160.0 ROADWAY DESIGN SERVICES**

1. The CONSULTANT will refine horizontal and vertical geometry.
2. The CONSULTANT will develop proposed roadway digital terrain model (DTM) to be used for determination of estimated earthwork quantities.
3. The CONSULTANT will prepare Roadway PS&E to include:
  - Title Sheet (1 sheet)
  - Index of Sheets (1 sheet)
  - Project Layout Sheet at a 1"=100' scale (1 sheet)
  - Existing and Proposed Typical Section Sheets, including width of travel lanes, width of shoulders, border width, curb offsets, ROW width, centerline, profile grade line, pavement structure, side slopes, sodding/seeding limits, and curb/retaining walls (2 sheets)
  - Removal Layouts at a 1"=50' scale double stacked (3 sheets)
  - Horizontal Alignment Data Sheets (1 sheet)
  - Roadway Plan and Profile Sheets at a scale of 1"=50' H and 1"=10' V. The sheets will include coordinates, superelevation data, stations, horizontal curve data, vertical profile data, elevations of key alignment features, drainage features, utilities, and any other items required for the complete construction of the Project. (5 sheets)
  - Intersection Layout Sheets at a 1"=30' scale with spot elevations and proposed grading for the intersections. (3 sheets) The following intersections will be included:
    - Sam Bass Road
    - Emmanuel Street
    - Sunset Drive
  - Driveway Details (5 sheets)
  - Miscellaneous Roadway Details as needed (1 sheet)
  - Cross-sections at a scale of 1"=20' H and 1"=10' V at 50 foot intervals; which will include proposed roadway, roadside features, existing ground, proposed grading, existing ROW, proposed ROW, and easements. The horizontal alignment, pavement cross-slope, existing ROW and proposed ROW must all be labeled. (17 sheets)
  - CITY and TxDOT standards (10 sheets)
  - Quantity Summary Sheets (2 sheets)

Deliverables (60%, 90%, 100%)

- Roadway Plan Sheets and Standards
- Electronic Models (CAD design files)

### **161.0 DRAINAGE DESIGN SERVICES**

1. The CONSULTANT will perform storm sewer analysis and design services, including:
  - THE CONSULTANT will modify the proposed storm system trunkline as needed due to roadway design changes or utility coordination items.

- THE CONSULTANT will design the profiles of the trunkline and laterals using the 25-yr design storm and 100-yr check storm.
- THE CONSULTANT will import the GEOPAK Drainage model to StormCAD, which will be used to design the storm system.

## 2. Drainage PS&E

The CONSULTANT will provide the following PS&E:

- Hydraulic Calculations (2 to 3 sheets)
- Onsite Drainage Area Maps (5 sheets = 1 overall + 4 onsite)
- Drainage Plan & Profile and Laterals (6 to 7 sheets = 4 P&P + 2 to 3 lateral)
- Miscellaneous Drainage Details (1 sheet)
- Drainage Standards
- Civil engineering specifications summary for each submittal
- Construction estimate for each submittal

## 3. QA/QC of Storm Sewer Analysis & Design

The CONSULTANT will perform independent QA/QC of all storm sewer analysis and design components including hydrology, hydraulics, and construction feasibility.

Deliverables (60%, 90%, 100%)

- Drainage Plan Sheets and Standards
- Drainage Civil Engineering Specifications Summary
- Drainage Construction Estimate
- Electronic Models (StormCAD and CAD design files)

### Exclusions

The following assumptions were made during the development of this scope. If any of the below services are found to be necessary during the project, EDGE will request additional services to be considered.

- Complex H&H modeling such as hydrograph method, HEC-RAS modeling, or HY8.
- Water quality design

## **162.0 SIGNING AND PAVEMENT MARKINGS SERVICES**

1. The CONSULTANT will prepare signing and pavement marking design in accordance with the latest version of the TMUTCD or applicable TxDOT standards.

2. The CONSULTANT will prepare signing and pavement marking PS&E, including:

- Proposed signing and pavement marking and delineation layouts on the same sheets at a scale of 1"=50' (3 sheets)
- Special sign panel details utilizing SignCAD as needed (1 sheet)
- Summary of Small Signs table utilizing the most current applicable TxDOT standards. No large guide signs are anticipated. (1 sheet)
- CITY and TxDOT Standards (5 sheets)
- Quantity Summary Sheets (1 sheet)

Deliverables (60%, 90%, 100%)



- Signing and Pavement Markings Plan Sheets and Standards
- Electronic Models (CAD design files)

### **163.1 TRAFFIC CONTROL PLAN DESIGN SERVICES**

1. The CONSULTANT will prepare a Traffic Control Plan (TCP). The TCP will be developed in accordance with the most recent version of the Texas Manual of Uniform Traffic Control devices (TMUTCD). The TCP will identify work areas, temporary paving, temporary shoring, signing, detour alignment, barricades, temporary drainage structures, temporary retaining walls and other TCP related items as required

2. The CONSULTANT will prepare TCP PS&E to include:

- Sequence of Work and Narrative (1 sheet)
- Advance Warning Sign Layouts (1 sheet)
- TCP Typical Sections (2 phases) (2 sheets)
- TCP layouts, at a 1"=50' scale double stacked (2 phases) (6 sheets)
- Detour Plan, if required (2 phases) (2 sheets)
- CITY and TxDOT Standards (15 sheets)
- Quantity Summary Sheets (1 sheet)

Deliverables (60%, 90%, 100%)

- TCP Plan Sheets and Standards
- Electronic Models (CAD design files)

### **163.2 STORM WATER MANAGEMENT PLAN AND TREE PRESERVATION SERVICES**

1. The CONSULTANT will develop a Storm Water Pollution Prevention Plan (SW3P) design based on CITY and TxDOT standards.

2. The CONSULTANT will develop tree protection plans based on the CITY Tree Protection Ordinance.

3. CONSULTANT will prepare PS&E:

- Environmental Permits, Issues, and Commitments (EPIC) sheet using TxDOT Standards (1 sheet)
- SW3P Layouts at a scale of 1"=50' double stacked (3 sheets)
- CITY and TxDOT Standards (3 sheets)
- SW3P Summary Sheets using TxDOT Standards (2 sheet)
- Tree Inventory Summary Table listing the tree ID, type and size (1 sheet)
- Tree Protection Layouts at a scale of 1"=50' double stacked (3 sheets)
- Quantity Summary Sheets (1 sheet)

Deliverables (60%, 90%, 100%)

- SW3P Plan Sheets and Standards
- Electronic Models (CAD design files)

### **163.3 PEDESTRIAN ILLUMINATION DESIGN SERVICES**

1. The CONSULTANT will develop pedestrian illumination design based on locations identified during preliminary engineering, using CITY standards for 12' mounting height, 150 W Antique Street Lamps, unless a similar pedestrian pole is specified by the CITY. Luminance levels will not be calculated with this project.

2. The CONSULTANT will size conduit and conductor and specify a service following TxDOT's Highway Illumination Manual.

3. CONSULTANT will prepare PS&E:

- Illumination Layouts at a scale of 1"=50' double stacked (3 sheets)
- Electrical Schematics and Service Data Sheet (1 sheet)
- CITY and TxDOT Standards (10 sheets)
- Quantity Summary Sheets (1 sheet)

Deliverables (60%, 90%, 100%)

- Illumination Plan Sheets and Standards
- Electronic Models (CAD design files)

### **163.4 SUPPLEMENTAL PS&E DOCUMENTS**

The CONSULTANT will prepare accompanying documents to supplement the PS&E, including:

1. Opinion of Probable Construction Cost (OPCC)
2. Request for design exceptions or waivers, if needed
3. Contract Time Determination (CTD) schedule utilizing the Critical path Method (CPM) in Microsoft Project.
4. Project Manual including standard general provisions, instructions to bidders, bid forms, applicable prevailing wage rates, standard and special specifications, special provisions, general notes, and any other information required for complete construction of the Project.
5. Proof of project registration with the Texas Department of Licensing and Regulation (TDLR). The CONSULTANT will engage a Registered Accessibility Specialist (RAS) to register the project with the TDLR and perform Preliminary and Final reviews with the 90% and 100% submittals, respectively, to verify compliance with the Texas Accessibility Standards (TAS).

Deliverables (60%, 90%, 100%)

- OPCC
- Request for exceptions or waivers, if needed
- CTD
- Project Manual
- Proof of project registration with TDLR

### **163.5 SUBMITTAL REQUIREMENTS**

Submittals will include the following:

1. 60% Submittal:

- Provide two (2) paper copies for review of the items listed below and a PDF containing electronic copies. Plan sheets and cross-sections will be prepared and submitted in 11"x17" paper format.
- The submittal will include the following, unless otherwise agreed to in writing with the CITY:
  - Title Sheet
  - Index of Sheets
  - Project Layout Sheets
  - Existing & Proposed Typical Sections
  - General Notes

- Quantity Summary Sheets
- Sequence of Work
- Traffic Control Plan Sheets
- Traffic Control Standards
- Survey Control Data Sheets (Developed During Preliminary Engineering Phase)
- Horizontal Alignment Data Sheets
- Removal Layouts
- Roadway Plan & Profile Sheets
- Intersection Layouts
- Driveway Details
- Miscellaneous Roadway Details
- Roadway Standards
- Onsite Drainage Area Maps
- Hydrologic & Hydraulic Computation Sheets
- Storm Sewer Detail Sheet
- Miscellaneous Drainage Details
- Drainage Standards
- Signing & Pavement Marking Layouts
- Signing & Pavement Marking Standards
- Summary of Small Signs
- Illumination Layouts
- Illumination Electrical Schematics and Service Data
- Illumination Standards
- Small Sign Details
- SW3P Layouts
- Tree Inventory Summary Table
- Tree Protection Details
- Environmental Standards
- Existing Utility Layouts (Developed During Preliminary Engineering Phase)
- Proposed Utility Layouts (Water line plans under a separate design contract, but bid with this project.)
- Roadway Cross-Sections
- OPCC
- Request for exceptions or waivers, if needed
- CTD
- Specification List

2. 90% Submittal:

- Provide two (2) paper copies for review of the items listed below and a PDF containing electronic copies. Plan sheets and cross-sections will be prepared and submitted in 11"x17" paper format.
- The submittal will include the following, unless otherwise agreed to in writing with the CITY:
  - Update of 60% Items
  - Draft Project Manual and
  - Draft Storm Water Pollution Prevention Plan for Construction
  - Proof of project registration with TDLR

### 3. 100% Submittal:

- Provide two (2) original signed and sealed 11"x17" tabloid paper sets of the Final Construction Drawings
- Provide two (2) original Project Manuals and Bid Documentation for advertisement and letting
- Provide two (2) original Storm Water Pollution Prevention Plan for Construction
- Provide electronic deliverable, including:
  - PDFs of 100% submittal documents
  - Microstation and GEOPAK/OpenRoads files

## **190.0 BID PHASE SERVICES**

Bid Phase Services will include the following:

1. The CONSULTANT will attend the Pre-Bid Meeting with the CITY and prospective bidders. For the purpose of scoping, one (1) four (4) hour in-person meeting, including travel time and agenda and meeting minute prep, is assumed with two (2) attendees. The CONSULTANT will prepare meeting minutes and submit to the CITY within three (3) business days.
2. The CONSULTANT will respond to Contractor questions raised during the bidding process and develop addenda to the Bid Documentation as required.
3. The CONSULTANT will attend the formal bid opening. For the purpose of scoping, one (1) four (4) hour in-person meeting, including travel time, is assumed with two (2) attendees.
4. The CONSULTANT will prepare a bid tabulation, analyze Contractor bids, check references and provide a Recommendation to Award to the apparent lowest responsive responsible bidder within five (5) business days of receiving the bid documents from the CITY.
5. The CONSULTANT will furnish a set of Final Construction Contract Documents including plan sheets, Project Manual and SW3P to the awarded Contractor.

## **310.1 CONSTRUCTION PHASE SERVICES – CHISHOLM TRAIL SOUTH**

In performing Construction Phase Services, it is understood that CONSULTANT does not guarantee the Contractor's performance, nor is CONSULTANT responsible for the supervision of the Contractor's operation and employees. CONSULTANT shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by the Contractor, or any safety precautions and programs relating in any way to the condition of the premises, the work of the Contractor or any Subcontractor. CONSULTANT shall not be responsible for the acts or omissions of any person (except its own employees or agents) at the Project site or otherwise performing any of the work of the Project.

Construction Phase Services will include the following:

1. The CONSULTANT will attend the Pre-Construction Meeting with the CITY and the awarded Contractor. For the purpose of scoping, one (1) four (4) hour in-person meeting, including travel time and agenda and meeting minute prep, is assumed with two (2) attendees. The CONSULTANT will prepare meeting minutes and submit to the CITY within three (3) business days of the meeting.
2. The CONSULTANT will attend bi-weekly status meetings, as needed, at the Project location with the CITY the Contractor. For the purpose of scoping, two (2) three (3) hour in-person meetings, including travel time and agenda and meeting minute prep, is assumed with two (2) attendees each month for ten (10) months. The CONSULTANT will prepare meeting minutes and submit to CITY within three (3) business days of the meeting.
3. The CONSULTANT will make periodic visits to the site to observe the progress and quality of the executed work as an experienced and qualified design professional, and to determine in general if the work is proceeding

## Services to be Provided by Consultant – Chisholm Trail South (Old Town) Improvements

in accordance with the plans and specifications and submit brief, monthly written reports relating to such visits. For the purpose of scoping, visits are limited to one (1) visit per month and will be combined with the bi-weekly status meeting; one (1) one (1) hour in-person meeting is assumed each month for ten (10) months, with travel time and agenda and meeting minute prep time included with the bi-weekly status meeting effort. The CONSULTANT will not be required to make continuous on-site inspections to check the quality or quantity of the work. The CONSULTANT will not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. However, the CONSULTANT will report to the CITY any deficiencies in the work detected by the CONSULTANT.

4. The CONSULTANT will review the Contractor's submittals such as Shop Drawings, Product Data and samples and take appropriate action (approve, approve with modifications, reject, etc.), but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Such action will be taken with reasonable promptness to minimize delay. Reviews and approvals or other action will not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions and programs incident thereto. The CONSULTANT will review Contractor's certificates of inspections, testing (to include Field, Laboratory, Shop and Mill testing of materials), and approvals required by laws, rules, regulations, ordinances, codes, orders or the specifications to determine generally that the results certified do substantially comply with the specifications. The CONSULTANT will evaluate and determine the acceptability of substitute materials and equipment proposed by the Contractor.

5. The CITY will require the Contractor to submit to the CONSULTANT any request for additional information (RFI). The CONSULTANT will review and deliver to the CITY its written recommendation regarding the RFI. It is anticipated that there will be two (2) RFI's per month during the Project.

6. The CONSULTANT will review monthly pay estimates and recommend approval or other appropriate action on such estimates.

7. The CONSULTANT will review and assist in the development at the request of the CITY, any changes, alterations or modifications to the Project that appear to be advisable and feasible and in the best interest of CITY due to unknown field conditions encountered during construction. The CONSULTANT must be cognizant that any such change may affect one or more of the various utilities and every effort will be made to avoid creating a conflict because of the change. Such alterations will be made by the CITY in writing. For the purposes of scoping, a maximum of four (4) modifications are assumed. Modifications deemed to be due to inconsistencies in the design documents will not be counted in the estimated number of modifications in the contract.

8. The CONSULTANT will engage a RAS to perform a final inspection of all pedestrian elements upon project completion to verify adherence to TAS standards. The CONSULTANT will provide an accompanying final inspection report.

9. The CONSULTANT will perform with CITY representative(s) a final inspection of the Project to observe any apparent defects in the completed construction with regard to conformance with the design concept and intent of the specifications, assist the CITY in consultation and discussions with the Contractor concerning such deficiencies, and make recommendations as to replacement or correction of the defective work. For the purposes of scoping, one (1) six (6) hour meeting with three (3) attendees is assumed, including travel time and punch list prep.

10. After completion of the work, and before final payment to the Contractor, it will be CITY responsibility to require a set of "Record Drawings" from the Contractor, who has control of the work and who is in a position to know how the Project was constructed. The CONSULTANT, after receiving this information, will transfer the information to a set of "Record Drawings" or "As-Builts" for the CITY'S permanent file. The CONSULTANT will also provide the As-Builts in PDF format. The CITY will not hold the CONSULTANT responsible for the information provided by the Contractor.

Services to be Provided by Consultant – Chisholm Trail South (Old Town) Improvements

**310.2 CONSTRUCTION PHASE SERVICES – HERITAGE TRAIL**

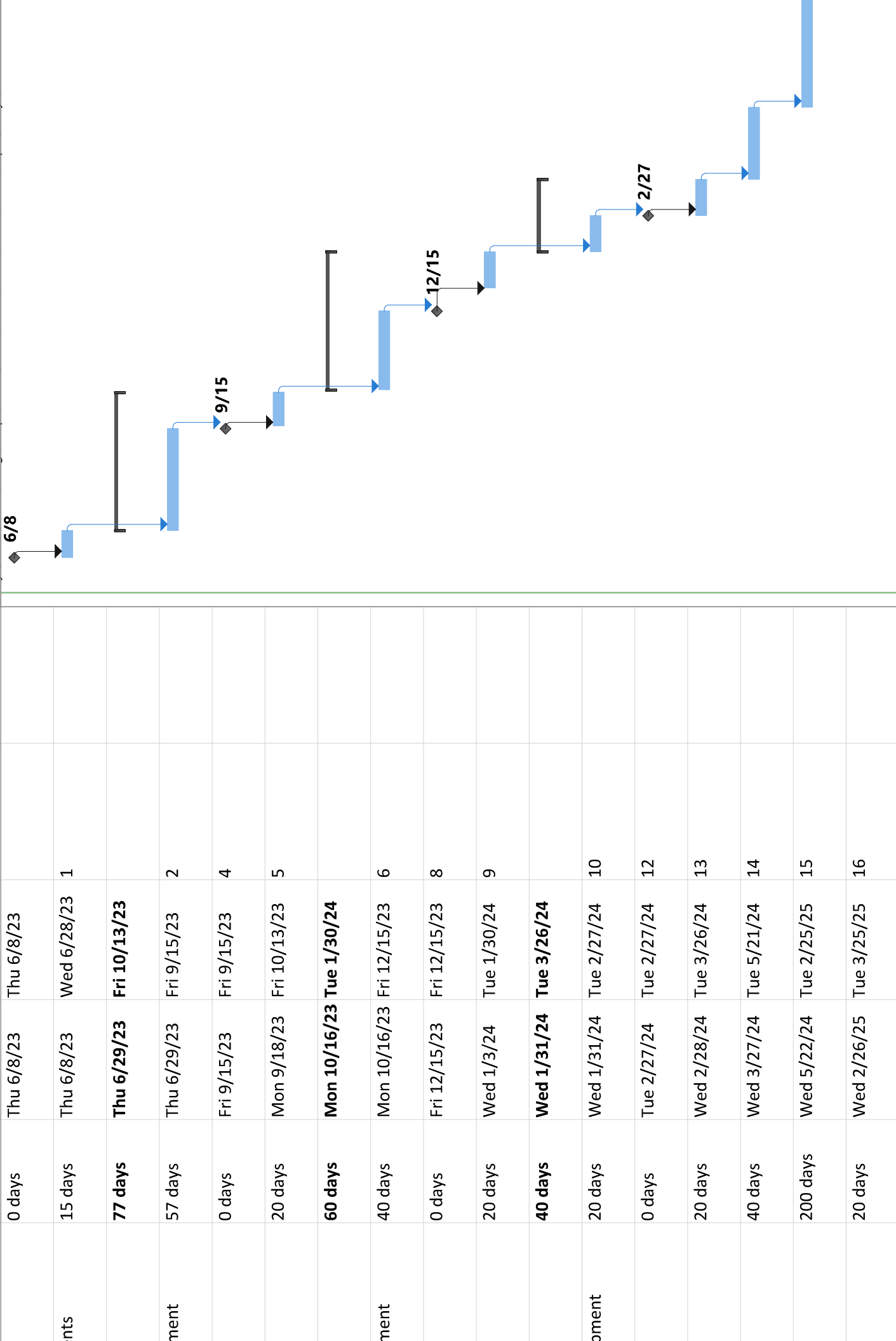
In performing Construction Phase Services, it is understood that CONSULTANT does not guarantee the Contractor's performance, nor is CONSULTANT responsible for the supervision of the Contractor's operation and employees. CONSULTANT shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by the Contractor, or any safety precautions and programs relating in any way to the condition of the premises, the work of the Contractor or any Subcontractor. CONSULTANT shall not be responsible for the acts or omissions of any person (except its own employees or agents) at the Project site or otherwise performing any of the work of the Project.

Construction Phase Services will include the following:

1. The CONSULTANT will attend the Pre-Construction Meeting with the CITY and the awarded Contractor. For the purpose of scoping, one (1) four (4) hour in-person meeting, including travel time and agenda and meeting minute prep, is assumed with one (1) attendee.
2. The CONSULTANT will make periodic visits to the site to observe the progress and quality of the executed work as an experienced and qualified design professional, and to determine in general if the work is proceeding in accordance with the plans and specifications. For the purpose of scoping, The CONSULTANT will conduct two (2) visits. The CONSULTANT will not be required to make continuous on-site inspections to check the quality or quantity of the work. The CONSULTANT will not be responsible for the means, methods, techniques, sequences, or procedures of construction selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. However, the CONSULTANT will report to the CITY any deficiencies in the work detected by the CONSULTANT.
3. The CITY will require the Contractor to submit to the CONSULTANT any request for additional information. (RFI). The CONSULTANT will review and deliver to the CITY its written recommendation regarding the RFI. It is anticipated that there will be two (2) RFI's during the Project.
4. After completion of the work, and before final payment to the Contractor, it will be CITY responsibility to require a set of "Record Drawings" from the Contractor, who has control of the work and who is in a position to know how the Project was constructed. The CONSULTANT, after receiving this information, will transfer the information to a set of "Record Drawings" or "As-Builts" for the CITY'S permanent file. The CONSULTANT will also provide the As-Builts in PDF format. The CITY will not hold the CONSULTANT responsible for the information provided by the Contractor.

**ADDENDUM TO EXHIBIT C**  
**Work Schedule**

Attached Behind This Page



Legend for Gantt chart symbols:

- Task
- Split
- Milestone
- Inactive Task
- Inactive Milestone
- Inactive Summary
- Manual Summary Rollup
- Manual Summary
- Start-only
- External Milestone
- Deadline
- Progress



**ADDENDUM TO EXHIBIT D**  
**Fee Schedule**

Attached Behind This Page



Chisholm Trail (Old Town) PSSA 2 5/12/2023		Project Fee Summary	
Basic Services	\$	584,885	
Special Services	\$	-	
<b>Total Project</b>	<b>\$</b>	<b>584,885</b>	

Detailed Cost Breakdown		Project Fee Summary	
Basic Services	\$	584,885	
Special Services	\$	-	
<b>Total Project</b>	<b>\$</b>	<b>584,885</b>	

Phase	Task	Task Description	Labor										Total Labor Effort													
			Project Manager	Asst. Proj. Man. - Design	Senior Advisor	Asst. Proj. Man. - Construction	EIF	CADD	Sr. Environmental	Environmental	Geologist	Jr. Environmental		Quality Assurance	Accounting	Project Administration	Total Hours									
		EPIC (1 sheet)	2	2	\$164	\$164	\$252	\$144	\$101	\$252	\$164	\$164	\$164	\$119	\$252	\$97	\$155	14	2,141.20							
		SW3P Layouts (3 sheets)	2	2														52	6,365.02							
		Standards (3 sheets)	2	2														10	1,234.22							
		SW3P Summary (2 sheets)	2	2														14	2,141.20							
		Tree Summary (1 sheet)	2	2														6	826.18							
		Tree Protection Layouts (3 sheets)	2	2														14	1,880.62							
		Quantity Summary (1 sheet)	2	2														16	2,345.22							
<b>163.3</b>		<b>Pedestrian Illumination Design Services</b>																								
1		Illumination Pole Design	2	2														12	1,937.18							
2		Conduit, Conductor, & Service Design	24															46	8,799.12							
3		Illumination PS&E																								
		Layouts (3 sheets)	8	16														40	5,728.72							
		Electrical Schematics & Service Data (1 sheet)	4	8														20	2,864.36							
		Standards (10 sheets)	2	2														12	1,549.34							
		Quantity Summary (1 sheet)	4	4														16	2,456.32							
<b>163.4</b>		<b>Supplemental PS&amp;E Documents</b>																								
1		OPCC	4	20														64	10,015.16							
2		Design Waivers/Exceptions	4	8														12	2,209.86							
3		CTD	4	20														72	10,136.36							
4		Project Manual	20	40														140	20,947.40							
5		TDLR Registration & TAS Review																								
<b>163.5</b>		<b>Submittal Requirements</b>																								
<b>190.0</b>		<b>Bid Phase Services</b>																								
1		Pre-Bid Meeting	4															8	1,593.28							
2		Contractor Responses	4															12	2,275.52							
3		Bid Opening	4															8	1,593.28							
4		Bid Tabulations	4															28	4,671.68							
5		Final Construction Documents	2	4														8	1,395.68							
<b>310.1</b>		<b>Construction Phase Services - Chisholm Trail South</b>																								
1		Pre-Con Meeting	4															8	1,609.21							
2		Bi-weekly Status Meetings	60															120	24,138.19							
3		Site Visits	10															20	4,023.03							
4		Contractor Submittal Review	4															64	10,835.93							
5		RFI Response	8															88	14,781.23							
6		Pay Estimate Review	2	4														20	3,445.31							
7		Design Revisions	2	4														56	8,375.89							
8		RAS Review	6	6														18	3,549.81							
9		Final Walk Through	2	4														70	9,377.47							
10		As-Builts																								
<b>310.2</b>		<b>Construction Phase Services - Heritage Trail</b>																								
1		Pre-Con Meeting	4															4	689.06							
2		Site Visits	4															12	2,298.28							
3		RFI Response	2															10	1,638.20							
4		As-Builts	2															4	828.51							
<b>Total Hours / Quantity</b>			<b>377</b>	<b>332</b>	<b>\$ 84,662</b>	<b>\$ 55,222</b>	<b>\$ 10,282</b>	<b>\$ 40</b>	<b>236</b>	<b>\$ 988</b>	<b>\$ 794</b>	<b>\$ 40,672</b>	<b>\$ 144,597</b>	<b>\$ 81,350</b>	<b>\$ 504</b>	<b>\$ 6,560</b>	<b>\$ 2,624</b>	<b>\$ 4,592</b>	<b>\$ 2,078</b>	<b>\$ 2,056</b>	<b>\$ 8</b>	<b>\$ 952</b>	<b>\$ 21</b>	<b>\$ 3,320</b>	<b>\$ 2,911</b>	<b>\$ 439,491</b>

Chisholm Trail (Old Town) PSSA 2 5/12/2023 Detailed Cost Breakdown		Project Fee Summary	
Basic Services	584,885	Basic Services	584,885
Special Services	-	Special Services	-
<b>Total Project</b>	<b>584,885</b>	<b>Total Project</b>	<b>584,885</b>

Tasks							Total Expense
Phase	Task	Task Description	Miles	Meals	B&W (sheet)	TCEQ Permitt. Fee	Effort
120.1	<b>Public Involvement &amp; Outreach</b>						
	1	Public Meeting					
	2	Stakeholder Outreach					
	3	Construction Materials					
	4	Project Webpage					
	5	Stakeholder Database					
	6	Stakeholder Responses					
	7	Project Management & Expenses					
120.2	<b>Environmental Services</b>						
	1	WPAP Exception Request	350.00			500.00	729.25
130.0	<b>Utility Coordination &amp; SUE Services</b>						
	1	Utility Coordination Services					
	2	SUE Services					
145.0	<b>Project Management</b>						
	1	Project Administration					
	2	Project Coordination	100.00				
	3	QA/QC					65.50
160.0	<b>Roadway Design Services</b>						
	1	Roadway Geometric Design Refinement					
	2	Model					
	3	Roadway PS&E					
		Title Sheet (1 sheet)					
		Index (1 sheet)					
		Project Layout (1 sheet)					
		Typical Sections (2 sheets)					
		Removal Layouts (3 sheets)					
		Horizontal Alignment Data (1 sheet)					
		Roadway P&P (5 sheets)					
		Intersection Layout sheets (3 sheets)					
		Driveway Details (5 sheets)					
		Misc Roadway Details (1 sheet)					
		Cross Sections (17 sheets)					
	Standards (10 sheets)						
	Quantity Summary (2 sheets)						
161.0	<b>Drainage Design Services</b>						
	1	Storm Sewer Analysis & Design					
	2	Drainage PS&E					
	3	QA/QC					
162.0	<b>Signing and Pavement Marking Services</b>						
	1	Signing and Pavement Marking Design					
	2	Signing and Pavement Marking PS&E					
		Layouts (3 sheets)					
		SignCAD details (1 sheet)					
		Summary of Small Signs (1 sheet)					
	Standards (5 sheets)						
	Quantity Summary (1 sheet)						
163.1	<b>TCP Design Services</b>						
	1	TCP Design					
	2	TCP PS&E					
		Sequence of Work and Narrative (1 sheet)					
		Advance Warning (1 sheet)					
		Typical Sections (2 sheets)					
		Layouts (6 sheets)					
		Detour Plan (2 sheets)					
		Standards (10 sheets)					
		Quantity Summary (1 sheet)					
163.2	<b>Storm Water Management &amp; Tree Preservation Services</b>						
	1	SW3P Design					
	2	Tree Protection Design					
	3	SW3P & Tree Protection PS&E					

<b>Chisholm Trail (Old Town) PSSA 2</b>		<b>Project Fee Summary</b>	
5/12/2023		Basic Services	584,885
		Special Services	-
<b>Detailed Cost Breakdown</b>		Total Project	584,885

Phase	Task	Task Description	Miles	Meals	B&W (sheet)	TCEQ Permitt. Fee	Total Expense Effort
		EPIC (1 sheet)					
		SW3P Layouts (3 sheets)					
		Standards (3 sheets)					
		SW3P Summary (2 sheets)					
		Tree Summary (1 sheet)					
		Tree Protection Layouts (3 sheets)					
		Quantity Summary (1 sheet)					
<b>163.3</b>		<b>Pedestrian Illumination Design Services</b>					
	1	Illumination Pole Design					
	2	Conduit, Conductor, & Service Design					
	3	Illumination PS&E					
		Layouts (3 sheets)					
		Electrical Schematics & Service Data (1 sheet)					
		Standards (10 sheets)					
		Quantity Summary (1 sheet)					
<b>163.4</b>		<b>Supplemental PS&amp;E Documents</b>					
	1	OPCC					
	2	Design Waivers/Exceptions					
	3	CTD					
	4	Project Manual					
	5	TDLR Registration & TAS Review					
<b>163.5</b>		<b>Submittal Requirements</b>					
					1,000.00		100.00
<b>190.0</b>		<b>Bid Phase Services</b>					
	1	Pre-Bid Meeting	50.00				32.75
	2	Contractor Responses					
	3	Bid Opening	50.00				32.75
	4	Bid Tabulations					
	5	Final Construction Documents			200.00		20.00
<b>310.1</b>		<b>Construction Phase Services - Chisholm Trail Sou</b>					
	1	Pre-Con Meeting	50.00				32.75
	2	Bi-weekly Status Meetings	100.00				65.50
	3	Site Visits	1,000.00				655.00
	4	Contractor Submittal Review					
	5	RFI Response					
	6	Pay Estimate Review					
	7	Design Revisions					
	8	RAS Review					
	9	Final Walk Through	50.00				32.75
	10	As-Builts					
<b>310.2</b>		<b>Construction Phase Services - Heritage Trail</b>					
	1	Pre-Con Meeting	50.00				32.75
	2	Site Visits	100.00				65.50
	3	RFI Response					
	4	As-Builts					
<b>Total Hours / Quantity</b>			<b>1,900</b>	<b>-</b>	<b>1,200</b>	<b>500</b>	<b>1,865</b>
<b>Total Effort \$</b>			<b>1,245</b>	<b>\$</b>	<b>120</b>	<b>\$</b>	<b>1,865</b>

Chisholm Trail (Old Town) PSSA 2 5/12/2023 Detailed Cost Breakdown		Project Fee Summary	
Basic Services			584,885
Special Services			-
<b>Total Project</b>			<b>584,885</b>

Phase	Task	Task Description	Subconsultants					Total		
			CD&P	EDGE	Rios	Altura	Inland			
120.1	<b>Public Involvement &amp; Outreach</b>									
	1	Public Meeting	12,420.00					12,420.00	16,804.64	
	2	Stakeholder Outreach	3,460.00					3,460.00	3,460.00	
	3	Construction Materials	7,140.00					7,140.00	7,140.00	
	4	Project Webpage	1,380.00					1,380.00	1,380.00	
	5	Stakeholder Database	3,140.00					3,140.00	3,140.00	
	6	Stakeholder Responses	7,780.00					7,780.00	7,780.00	
	7	Project Management & Expenses	10,944.00				10,944.00	10,944.00	10,944.00	
120.2	<b>Environmental Services</b>									
	1	WPAP Exception Request							15,961.25	
130.0	<b>Utility Coordination &amp; SUE Services</b>									
	1	Utility Coordination Services			3,823.86			3,823.86	5,480.26	
	2	SUE Services			29,861.52		5,000.00	34,861.52	34,861.52	
145.0	<b>Project Management</b>									
	1	Project Administration							10,088.82	
	2	Project Coordination							15,116.62	
	3	QA/QC							15,018.48	
160.0	<b>Roadway Design Services</b>									
	1	Roadway Geometric Design Refinement							6,363.00	
	2	Model							15,170.20	
	3	Roadway PS&E							2,171.50	
		Title Sheet (1 sheet)							2,171.50	
		Index (1 sheet)							2,171.50	
		Project Layout (1 sheet)							3,395.62	
		Typical Sections (2 sheets)							4,385.42	
		Removal Layouts (3 sheets)							6,322.60	
		Horizontal Alignment Data (1 sheet)							1,880.62	
161.0	<b>Drainage Design Services</b>									
	1	Storm Sewer Analysis & Design		7,000.00				7,000.00	8,686.70	
	2	Drainage PS&E		30,840.00				30,840.00	32,526.70	
	3	QA/QC		6,400.00				6,400.00	6,400.00	
	162.0	<b>Signing and Pavement Marking Services</b>								
		1	Signing and Pavement Marking Design							7,910.32
		2	Signing and Pavement Marking PS&E							6,365.02
			Layouts (3 sheets)							3,803.66
			SignCAD details (1 sheet)							2,141.20
			Summary of Small Signs (1 sheet)							1,438.24
		Standards (5 sheets)							2,345.22	
		Quantity Summary (1 sheet)							12,261.40	
163.1		<b>TCP Design Services</b>								
		1	TCP Design							2,345.22
	2	TCP PS&E							3,335.02	
163.2	<b>Storm Water Management &amp; Tree Preservation Services</b>									
		Sequence of Work and Narrative (1 sheet)							3,743.06	
		Advance Warning (1 sheet)							15,016.68	
		Typical Sections (2 sheets)							6,053.94	
		Layouts (6 sheets)							1,438.24	
		Detour Plan (2 sheets)							2,345.22	
		Standards (10 sheets)							19,060.72	
	Quantity Summary (1 sheet)							9,118.28		
	1	SW/3P Design								
	2	Tree Protection Design								
	3	SW/3P & Tree Protection PS&E								

Chisholm Trail (Old Town) PSSA 2 5/12/2023 Detailed Cost Breakdown		Project Fee Summary	
Basic Services	584,885		
Special Services	-		
<b>Total Project</b>	<b>584,885</b>		

Phase	Task	Task Description	Subconsultants					Total Effort
			CD&P	EDGE	Rios	Altura	Inland	
		ERIC (1 sheet)						2,141.20
		SW3P Layouts (3 sheets)						6,365.02
		Standards (3 sheets)						1,234.22
		SW3P Summary (2 sheets)						2,141.20
		Tree Summary (1 sheet)						826.18
		Tree Protection Layouts (3 sheets)						1,880.62
		Quantity Summary (1 sheet)						2,345.22
<b>163.3</b>		<b>Pedestrian Illumination Design Services</b>						
1		Illumination Pole Design						1,937.18
2		Conduit, Conductor, & Service Design						8,799.12
3		Illumination PS&E						
		Layouts (3 sheets)						5,728.72
		Electrical Schematics & Service Data (1 sheet)						2,864.36
		Standards (10 sheets)						1,549.34
		Quantity Summary (1 sheet)						2,456.32
<b>163.4</b>		<b>Supplemental PS&amp;E Documents</b>						
1		OPCC						10,015.16
2		Design Waivers/Exceptions						2,209.88
3		CTD						10,136.36
4		Project Manual						20,947.40
5		TDLR Registration & TAS Review			2,800.00			2,800.00
<b>163.5</b>		<b>Submittal Requirements</b>						100.00
<b>190.0</b>		<b>Bid Phase Services</b>						
1		Pre-Bid Meeting						1,626.03
2		Contractor Responses						2,275.52
3		Bid Opening						1,626.03
4		Bid Tabulations						4,671.68
5		Final Construction Documents						1,415.68
<b>310.1</b>		<b>Construction Phase Services - Chisholm Trail Sou</b>						
1		Pre-Con Meeting		9,340.00				9,340.00
2		Bi-weekly Status Meetings						1,641.96
3		Site Visits						24,203.69
4		Contractor Submittal Review						4,678.03
5		RFI Response						10,835.93
6		Pay Estimate Review						14,781.23
7		Design Revisions						3,445.31
8		RAS Review						8,375.89
9		Final Walk Through			2,200.00			2,200.00
10		As-Builts						3,562.56
								9,377.47
<b>310.2</b>		<b>Construction Phase Services - Heritage Trail</b>						
1		Pre-Con Meeting						721.81
2		Site Visits						2,363.78
3		RFI Response						1,838.20
4		As-Builts						828.51
		<b>Total Hours / Quantity</b>	<b>\$ 46,264</b>	<b>\$ 53,580</b>	<b>\$ 33,685</b>	<b>\$ 5,000</b>	<b>\$ 5,000</b>	<b>\$ 584,885</b>
		<b>Total Effort</b>	<b>\$ 46,264</b>	<b>\$ 53,580</b>	<b>\$ 33,685</b>	<b>\$ 5,000</b>	<b>\$ 5,000</b>	<b>\$ 584,885</b>



March 30, 2023

Andrea Bryant  
Freese and Nichols, Inc.  
10431 Morado Circle  
Building 5, Suite 300  
Austin, TX 78759

Dear Ms. Bryant,

Thank you for the opportunity to assist your team with additional services for the Chisholm Trail South Improvements project. A detailed scope and fee schedule are attached.

Please contact me if you have any questions or need any further information regarding this proposal.

Sincerely,

A handwritten signature in black ink that reads "Julie Richey". The signature is fluid and cursive, with the first name "Julie" being more prominent than the last name "Richey".

Julie Richey  
Director of Business Operations



Public Involvement Specified Additional Services will include the following:

16.10 The CONSULTANT will prepare for and conduct one (1) public meeting for the project to be held upon approval by the City of Round Rock;

- a. The CONSULTANT will provide logistics planning for the public meeting
- b. The CONSULTANT will prepare meeting notices and meeting materials including flyers, handouts, agendas, name tags, sign-in sheets, comment cards, meeting exhibits and talking points as necessary. One (1) round of comments/revisions will be completed on all public meeting materials.
- c. The CONSULTANT will arrange meetings with the City of Round Rock prior to the public meeting to review all exhibits and other materials;
- d. The CONSULTANT will provide staff to attend the public meeting including public engagement and engineering staff to facilitate the meeting, present meeting materials, and answer questions;
- e. The CONSULTANT will compile and prepare a public meeting summary report for the meeting;
- f. The CONSULTANT will compile and prepare responses to comments at the public meeting;

16.11 The CONSULTANT will perform outreach to directly impacted stakeholders prior to the commencement of project construction to provide information of impending disruptions. Outreach may include phone calls, emails, door-to-door visits, and individual meetings as needed. One half day of visits is assumed and 3 individual meetings are assumed for budgeting purposes.

16.12 The CONSULTANT will develop and distribute construction related materials including flyers, postcards, email updates, media releases, social media posts, detour maps, and signage as needed during construction. Three rounds of updates and/or materials are assumed.

16.13 The CONSULTANT will develop updates for the project webpage, to be hosted on the City's website, to share information on the project such as major milestones and long-term traffic impacts/detours. The content shall be approved by the City and the City will be responsible for posting updates on the webpage. Three updates are assumed.

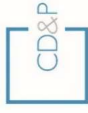
16.14 The CONSULTANT will maintain and update the project database of people, agencies and organizations interested in the project. The list will include emails and other contact information as available.

16.15 The CONSULTANT will respond to stakeholder comments and inquiries as needed prior to and during construction.

Project Management & Administration (20 months assumed)

1. Prepare monthly invoices and progress reports
2. Attend team coordination meetings and construction meetings

**Concept Development & Planning, LLC**  
**Prime Provider Name: Freese and Nichols**  
**Project Name: Chisholm Trail South**



Task Description	Principal	Public Engagement Director	Public Engagement Manager	Public Engagement Specialist	Public Engagement Coordinator	Total Labor Hours	Total Labor Cost
<b>Public Involvement</b>							
16.10 Prepare for and conduct one (1) public meeting							
a. Meeting planning (logistics, location, facility prep)		4		4		8	\$1,280.00
b. Development of meeting notifications and meeting materials	1	8	8	20	0	37	\$6,750.00
c. Review meeting with City of Round Rock		2	2			4	\$680.00
d. Staffing and facilitation for one (1) public meeting			3	4	4	11	\$1,480.00
e. Public meeting summary		1	2	4		7	\$1,060.00
f. Prepare public meeting comment responses	1	1	4	8		14	\$2,170.00
16.11 Conduct outreach to stakeholders			6	10	10	26	\$3,460.00
16.12 Develop and distribute construction related materials (three rounds)		3	12	24	12	51	\$7,140.00
16.13 Develop project webpage updates		1	4	4		9	\$1,380.00
16.14 Maintain stakeholder database			2	6	18	26	\$3,140.00
16.15 Provide stakeholder responses	2	4	15	30		51	\$7,780.00
<b>Project Management</b>							
1. Prepare invoices and progress reports (20 months assumed)		10				10	\$1,800.00
2. Attend team coordination meetings and construction meetings		12		20		32	\$4,960.00
Hours Subtotals	4	46	58	134	44	286	
Contract Rate Per Hour	\$230.00	\$180.00	\$160.00	\$140.00	\$110.00		
Total Labor Costs	\$920.00	\$8,280.00	\$9,280.00	\$18,760.00	\$4,840.00		\$42,080.00
% Distribution of Staffing	1.40%	16.08%	20.28%	46.85%	15.38%		

Other Direct Expenses	# of Units	Cost/Unit	Total Cost
Mileage	1,000	current rate	\$655.00
Corrugated Signs	20	\$16.00	\$320.00
Foam Boards	8	\$60.00	\$480.00
Postage	300	current rate	\$189.00
Photocopies Color (8.5 X 11)	200	\$0.75	\$150.00
Photocopies Color (11 X 17)	100	\$1.00	\$100.00
Venue Rental	1	\$300.00	\$300.00
Advertisements			\$1,000.00
Print/Mail Service	300	\$1.50	\$450.00
Project Email Subscription	9	\$20.00	\$180.00
Project Hotline/Voicemail	9	\$40.00	\$360.00
<b>Direct Expenses Subtotal</b>			<b>\$4,184.00</b>

<b>Cost Summary</b>	
Total Labor Costs	\$42,080.00
Other Direct Expenses	\$4,184.00
<b>Grand Total</b>	<b>\$46,264.00</b>



TBPE FIRM No. 20690  
3410 Far West Blvd. Suite 315  
Austin, TX 78731  
512.767.1009

May 12, 2023

Andrea Bryant, PE  
Freese and Nichols, Inc  
10431 Morado Circle, Suite 300  
Austin, Texas 78759

*DELIVERED VIA E-MAIL*

**Re: City of Round Rock Chisholm Trail Improvements PS&E**

Dear Ms. Bryant:

EDGE Engineering, PLLC (EDGE) appreciates the opportunity to submit this professional engineering proposal to Freese and Nichols, Inc (FNI) in support of the above referenced project. The attached scope of services outlines EDGE's storm system design and plans, specifications, and estimate for the improvements to Chisholm Trail from Sam Bass Road to Round Rock Avenue.

We appreciate the opportunity to support FNI on this project. Please feel free to contact me directly if there are any questions regarding this proposal at 512-766-0463 or [tkatz@civil-edge.com](mailto:tkatz@civil-edge.com).

Sincerely,

A handwritten signature in blue ink, appearing to read "Travis Kaatz".

Travis Kaatz, PE, CFM  
Principal

Attachments:

- Scope of Work
- Fee Schedule



## SCOPE OF WORK

EDGE shall provide roadway storm system design and associated plan production, specifications, and estimating. EDGE has previously provided a preliminary horizontal design of the storm sewer using GEOPAK Drainage for the geometric layout for Chisholm Trail. This design will be modified as needed to provide a final design.

### Task 1: Storm Sewer Analysis & Design

- EDGE will modify the proposed storm system trunkline as needed due to roadway design changes or utility coordination items.
- EDGE will design the profiles of the trunkline and laterals using the 25-yr design storm and 100-yr check storm.
- EDGE will import the GEOPAK Drainage model to StormCAD, which will be used to design the storm system.

### Task 2: Drainage PS&E

- EDGE will provide the following plan sheets, specifications, and estimates:
  - a. Hydraulic Calculations (2 to 3 sheets)
  - b. Onsite Drainage Area Maps (5 sheets = 1 overall + 4 onsite)
  - c. Drainage Plan & Profile and Laterals (6 to 7 sheets = 4 P&P + 2 to 3 lateral)
  - d. Miscellaneous Drainage Details (1 sheet)
  - e. Drainage Standards
  - f. Civil engineering specifications summary for each submittal
  - g. Construction estimate for each submittal

### Task 3: QAQC of Storm Sewer Analysis & Design

EDGE will perform independent QAQC of all storm sewer analysis and design components including hydrology, hydraulics, and construction feasibility.

### Task 4: Construction Phase Services

- EDGE will provide two (2) site visits to review drainage related items under construction.
- EDGE will provide design change services after the 100% submittal.
- EDGE will provide final record drawings for drainage related items.

### Deliverables (60%, 90%, 100%)

- Drainage Plan Sheets and Standards
- Drainage Civil Engineering Specifications Summary
- Drainage Construction Estimate
- Electronic Models (StormCAD and CAD design files)



TBPE FIRM No. 20690  
3410 Far West Blvd. Suite 315  
Austin, TX 78731  
512.767.1009

### **Exclusions**

The following assumptions were made during the development of this scope. If any of the below services are found to be necessary during the project, EDGE will request additional services to be considered.

- Complex H&H modeling such as hydrograph method, HEC-RAS modeling, or HY8.
- Water quality design
- Erosion & Sedimentation control design

### **Basis of Compensation**

EDGE proposes to provide the detailed "Scope of Work" for the Lump Sum amount of **\$53,580**.



FEE SCHEDULE

Task	Description	Senior Engineer \$200	Project Engineer \$150	Engineer In Training \$100	CAD Technician \$70	Total Labor Hours	Total Labor Cost	Expense Cost	Total Cost
1	Storm Sewer Analysis & Design	6	12	40		58	\$7,000		\$7,000
2	Drainage Sheet Production and Cost Estimate					0			
	a. Hydraulic Data Sheets	2	4	8		14	\$1,800		\$1,800
	b. Onsite Drainage Area Maps	6	8	32	16	62	\$6,720		\$6,720
	c. Drainage Plan & Profile and Laterals	6	18	48	18	90	\$9,960		\$9,960
	d. Miscellaneous Drainage Details	2	4	12	4	22	\$2,480		\$2,480
	e. Drainage Standards	2	4	8	4	18	\$2,080		\$2,080
	f. Cost Estimate	4	12	24		40	\$5,000		\$5,000
	g. Specification Summary	2	8	12		22	\$2,800		\$2,800
3	QAQC Storm Sewer Analysis & Design	32				32	\$6,400		\$6,400
4	Construction Services	8	24	32	12	76	\$9,240	\$100	\$9,340
<b>Project Totals</b>		<b>70</b>	<b>94</b>	<b>216</b>	<b>54</b>	<b>434</b>	<b>\$53,480</b>	<b>\$100</b>	<b>\$53,580</b>





April 3, 2023

Andrea Bryant, P.E.  
Freese and Nichols, Inc.  
10431 Morado Circle  
Building 5, Suite 300  
Austin, TX 78759  
512-617-3163  
[Andrea.Bryant@freese.com](mailto:Andrea.Bryant@freese.com)

**RE: Subsurface Utility Engineering and Utility Coordination Supplement  
City of Round Rock - Chisholm Trail Rd., Round Rock, Texas**

Dear Ms. Bryant:

The Rios Group, Inc. (TRG) is pleased to submit a supplementary cost proposal for Subsurface Utility Engineering (SUE) and Utility Coordination (UC) for the above referenced project. This proposal is based on information provided via email on March 27, 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 Freese and Nichols, Inc. (Client), TRG has developed a proposed supplementary scope for SUE and UC 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.

575 Round Rock West Drive, Building K, Suite 400 | Round Rock, TX 78681 | Phone: 512.580.5440

**Subsurface Utility Engineering | Utility Coordination**

City of Round Rock - Chisholm Trail Rd. - Supplemental  
April 3, 2023  
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### Subsurface Utility Engineering

The scope of this proposal includes ten (10) QL “A” SUE test holes for the Chisholm Trail Rd. project in Round Rock, Texas. The project limits are outlined in red on Exhibit B and the test hole locations are to be identified by the Client. To layout the test holes, TRG will attempt to designate the target utility 10-feet either side of the test hole.

The survey of SUE field markings and test holes is not included in this scope of work. It is assumed that the Client’s surveyor will provide SUE survey data for use in preparing the final deliverables.

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

### Utility Coordination

TRG will perform UC services for this project to facilitate the accommodation of existing utilities. TRG’s utility coordination scope will be limited to the following activities on the project:

- TRG will prepare and update a Utility Conflict Matrix (UCM) for the 60% and 90% design submittals. The UCM will include potential conflicts with existing utilities and the proposed project design.

### **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



City of Round Rock - Chisholm Trail Rd. - Supplemental  
April 3, 2023  
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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 with regard to the test holes on this project:

- All test holes will be accessible to truck-mounted vacuum excavation equipment.
- Right-Of-Way (ROW) permits from the City of Round Rock (CORR) will be required. TRG will obtain all required City permits and ensure that coordination and compliance with the City is provided.
- Designed traffic control plans will not be required.
- Non-routine traffic control measures will be required. TRG will acquire the services of a qualified Maintenance-Of-Traffic (MOT) Subcontractor and ensure that adequate traffic control is provided.
- The coring of pavement will be required.

### 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.

City of Round Rock - Chisholm Trail Rd. - Supplemental

April 3, 2023

Page 4 of 4

- 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.
- 60% and 90% utility conflict matrices in MS excel and PDF format

### **Schedule**

TRG can mobilize within three (3) weeks of receiving Notice-To-Proceed (NTP). TRG estimates that the QL "A" SUE work can be completed in twenty-one (21) working days following approval of the City ROW permit, broken down as follows:

- QL "A" test hole layout and field work – 6 days
- QL "A" Deliverable preparation – 15 days (following receipt of survey data from client)

The Utility Coordination schedule will be determined upon project review.

### **Estimated Fee**

The total estimated cost to complete the work described herein is **Thirty-Three Thousand Six Hundred Eight-Five Dollars and 38/100 (\$33,685.38)**. 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.**



Marc Epperly, P.E.  
Branch Manager



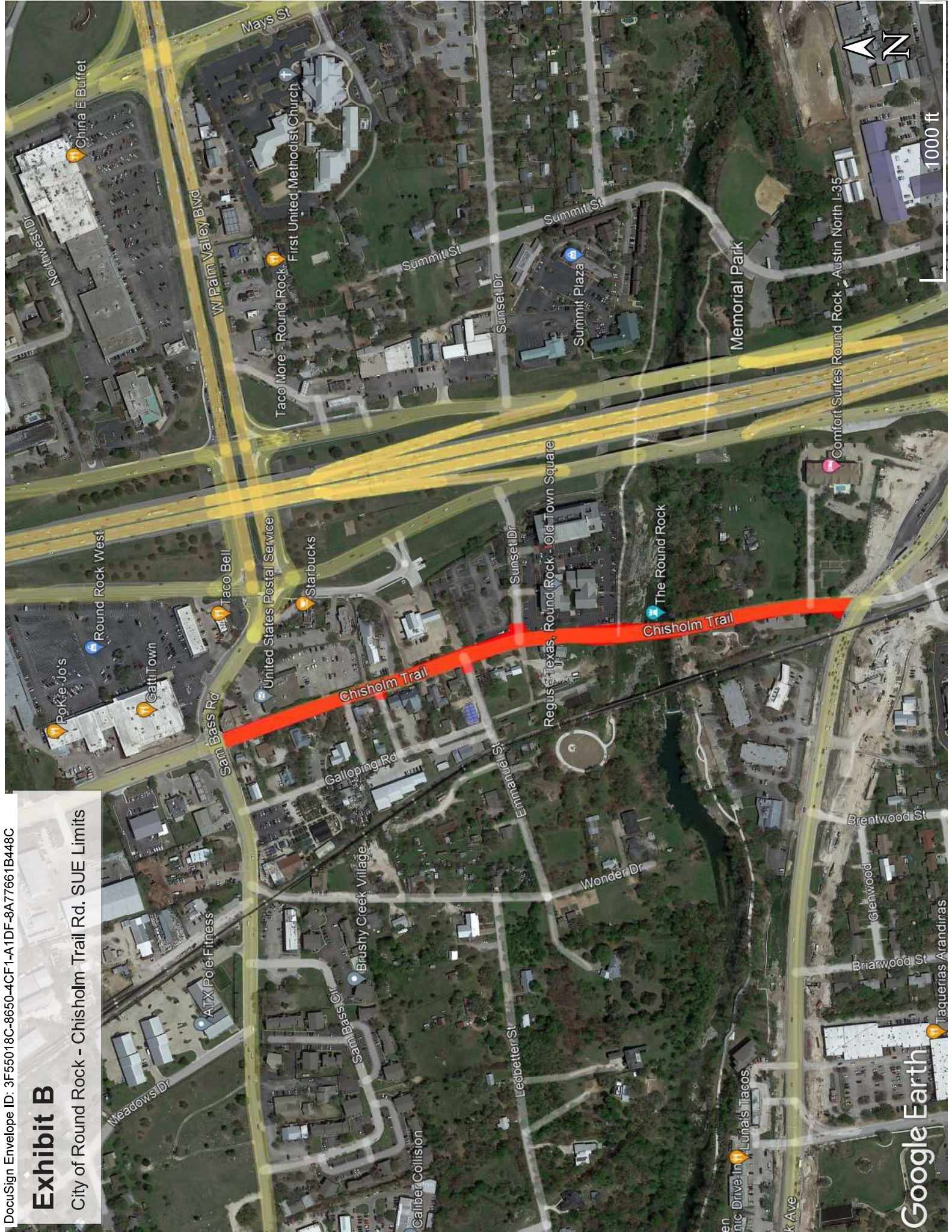
**Estimate for Subsurface Utility Engineering  
and Utility Coordination**  
**City of Round Rock - Chisholm Trail Rd. - Supplement**

**EXHIBIT A**

<b>Hourly Office Labor (SUE)</b>	<i>Rate</i>	<i>Assumed Quantity</i>	<i>Unit of Measure</i>	<i>Sub-Total</i>
Supervisory Engineer	\$ 166.06	2	HR	\$ 332.12
SUE Project Manager	\$ 151.93	6	HR	\$ 911.58
Assistant Project Manager	\$ 105.89	8	HR	\$ 847.12
CADD Technician	\$ 79.76	10	HR	\$ 797.60
Engineering Technician	\$ 66.85	2	HR	\$ 133.70
Field Manager	\$ 109.85	4	HR	\$ 439.40
Administrative Specialist	\$ 70.80	0	HR	\$ -
<b>Sub-Total</b>				<b>\$ 3,461.52</b>
<b>Hourly Office Labor (UC)</b>	<i>Rate</i>	<i>Assumed Quantity</i>	<i>Unit of Measure</i>	<i>Sub-Total</i>
UC Project Manager	\$ 151.93	2	HR	\$ 303.86
Senior Utility Coordinator	\$ 160.00	4	HR	\$ 640.00
Utility Coordinator	\$ 120.00	24	HR	\$ 2,880.00
<b>Sub-Total</b>				<b>\$ 3,823.86</b>
<b>Direct Expenses</b>	<i>Rate</i>	<i>Assumed Quantity</i>	<i>Unit of Measure</i>	<i>Sub-Total</i>
Traffic Control (Standard)	\$ 1,500.00	5	DAY	\$ 7,500.00
<b>Sub-Total</b>				<b>\$ 7,500.00</b>
<b>QL"B" SUE Designating</b>	<i>Rate</i>	<i>Assumed Quantity</i>	<i>Unit of Measure</i>	<i>Sub-Total</i>
One Designating Person (TH Layout)	\$ 160.00	10	HR	\$ 1,600.00
<b>Sub-Total</b>				<b>\$ 1,600.00</b>
<b>QL"A" SUE Test Holes</b>				
<b>Unit Rate - Depth</b>	<i>Outside Pavement Rate</i>	<i>Assumed Quantity</i>	<i>Unit Of Measure</i>	<i>Sub-Total</i>
0 - 5 feet	\$ 1,315.00	6	EA	\$ 7,890.00
5 - 8 feet	\$ 1,600.00	2	EA	\$ 3,200.00
8 - 13 feet	\$ 1,995.00	2	EA	\$ 3,990.00
13 - 20 feet	\$ 2,575.00	0	EA	\$ -
Over 20 feet	\$ 3,025.00	0	EA	\$ -
Pavement Coring	\$ 370.00	6	EA	\$ 2,220.00
Test Hole Total		10		
<b>Sub-Total</b>				<b>\$ 17,300.00</b>
<b>Total Estimated Cost</b>				<b>\$ 33,685.38</b>

# Exhibit B

City of Round Rock - Chisholm Trail Rd. SUE Limits





April 13, 2023

Bryan Pham  
Freese and Nichols, Inc.  
10431 Morado Circle  
Building 5, Suite 300  
Austin, Texas 78759

**RE: TAS Proposal for the Chisholm Trail Improvements Project**

Dear Bryan:

This is a proposal for the project registration, preliminary plan review, final plan review, and final inspection of the Chisholm Trail Improvements Project in Round Rock, Texas for compliance with Chapter 469 of the Texas Government Code, State of Texas Architectural Barriers Act, and the Texas Accessibility Standards (TAS).

Altura Solutions proposes to register the project with TDLR, perform the preliminary plan review, final plan review, and perform the final inspection for compliance with the TAS.

Feel free to contact us at (512) 410-7059 to answer any questions or discuss details of the proposal. Thank you for considering Altura Solutions to meet your accessibility consulting needs. We look forward to working with you on the project.

Sincerely,

A handwritten signature in black ink that reads "Jesús Lardizábal". The signature is written in a cursive style and is positioned above the printed name and title.

Jesús Lardizábal,  
RAS #1051  
Manager

## **PROJECT SCOPE AND DESCRIPTION**

Reconstruction of Chisholm Trail between Sam Bass Road and FM 620 (approximately 2,300 LF) to meet ADA compliance.

### **SCOPE OF WORK**

Altura Solutions proposes to perform the following services in compliance with the Chapter 469 of the Texas Government Code, State of Texas Architectural Barriers Act to verify compliance with the Texas Accessibility Standards (TAS):

- Register the project with TDLR
- Perform preliminary plan review of the 90% project construction documents (as provided by client)
- Perform final plan review of the 100% project construction documents (as provided by client)
- Perform the final inspection of the project upon completion

### **EXCLUSIONS**

The proposal excludes services to determine compliance with other federal, state, or local accessibility requirements such as Public Rights-of-Way Guidelines (PROWAG) and accessibility requirements of building and housing codes such as the International Building Code (IBC).

### **SCHEDULE**

Altura Solutions will perform the project registration within three working days of receiving the required documents and registration fee.

Altura Solutions will perform the preliminary plan review and provide a report of findings within fifteen working days after receiving all required documents

Altura Solutions will perform the final plan review and provide a report of findings within fifteen working days after receiving all required documents.

Altura Solutions will perform the final inspection and deliver the Inspection Report within fifteen working days of receiving access to the facility and payment of Inspection Fee.

### **DELIVERABLES**

The following items will be produced and delivered by Altura Solutions as part of this project:

- Altura Solutions will provide proof of project registration via the TDLR Proof of Registration Sheet.
- Altura Solutions will provide the Preliminary Plan Review Report detailing the observed findings of elements that are not in compliance with the Texas Accessibility Standards (TAS)
- Altura Solutions will provide the Final Plan Review Report detailing the observed findings of elements that are not in compliance with the Texas Accessibility Standards (TAS).
- Altura Solutions will provide the Inspection Report detailing the observed elements that are not in compliance with the Texas Accessibility Standards (TAS).

**CONSULTING FEE AND INVOICING**

The following fees are proposed for the services outlined in this proposal:

- Project Registration (includes TDLR’s required registration fee).....\$300.00
- TAS Preliminary Plan Review Report.....\$1,200.00
- TAS Final Plan Review Report.....\$1,300.00
- TAS Final Inspection Report .....\$2,200.00

The total proposed consulting fee under this agreement is five thousand dollars and zero cents (\$5,000.00).

To initiate services, the following items must be provided:

- Signed agreement
- A check for \$1,200.00 for the Preliminary Plan Review fee should be made out to Altura Solutions, LLC.

The fees listed above are limited to one preliminary plan review, one final plan review, one hour of technical assistance/consulting, and one final inspection. Additional preliminary reviews, plan review revisions, meetings, site visits, re-inspections, and additional consulting will be considered additional services and will be billed in addition to the contract amount above. This consulting rate is \$195 per hour and \$250 for site visits. Plan Review fees are valid for six months from date of proposal and inspection fees are valid for twelve months from original estimated completion date, after which Altura Solutions reserves the right to propose an increased fee.

Invoices for services are due within 30 days of receipt by client.

**LIMIT OF LIABILITY**

Client agrees that Altura Solutions’ limit of liability for any claim against it for services performed under this contract shall be limited to the total of fees paid to Altura Solutions pursuant to this agreement, but excluding the Texas Department of Licensing and Regulation (TDLR) required project filing fees.

**Altura Solutions, LLC**

**Client**

By: \_\_\_\_\_

By: \_\_\_\_\_

Print Name: Jesús Lardizábal

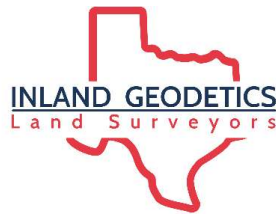
Print Name: \_\_\_\_\_

Title: Manager

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_



April 12, 2023  
Revised: April 13, 2023

Bryan Pham, PE  
Transportation Design  
Freese and Nichols, Inc.  
512-617-3196  
[bryan.pham@freese.com](mailto:bryan.pham@freese.com)

RE: Additional Services 3  
Locate Test Holes  
Project: Chisholm Trail Improvements

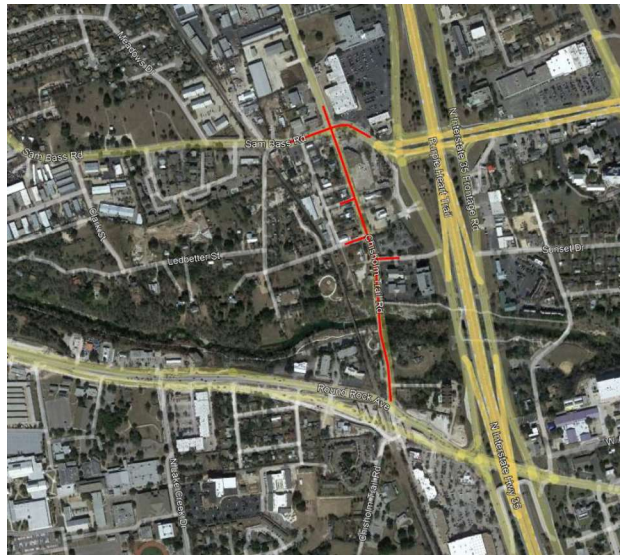
Mr. Pham:

Inland Geodetics is please to present our proposal to perform Professional Surveying Services for the above referenced project. The specific scope of work is developed from email instructions dated April 10, 2023.

Inland understands that the City of Round Rock will secure ROE for surveying activities prior to NTP and provide Inland copies with any special instructions.

## SCOPE OF SERVICES

### Project Site



### Locate Test Holes

1. Inland will utilize survey control monuments as established from previous work on this project.
2. The coordinate values will be reconciled to NAD 83 Texas State Plane Coordinates, Central Zone 4203, US Survey feet and NAVD 88 for vertical control datums. These values will be derived from GPS SmartNet



VRS observations at each point that include geographic positions of northing, easting and orthometric heights.

- 3. Inland will coordinate with a Subsurface Utility Engineer (SUE) of the Clients choosing and locate a maximum of ten (10) test holes from said SUE company within the Project Limits.
- 4. Deliverables will include 2D and 3D Topo (.dgn) processed files in MicroStation V8.11 SS10 with all chains and points. Shall include within the drawing file: Company name, address, telephone number, surveyor's name, date(s) of survey and survey datum information. A list of benchmarks and project control coordinates will be included.

The Lump Sum fees for the above services to be:

Locate Test Holes: \$5,000.00 (non taxable)

**TOTAL: \$5,000.00**

Inland will begin work within two (2) weeks of Notice to Proceed.

The estimated fee proposed above are based on personnel time required to perform the described Scope of Services. Additional time requirements resulting from project scope changes, site/route changes, plan revisions, field recovery of or discrepancies of control provided will be considered reasonable cause for us to seek additional compensation for services not included in these amounts.

INLAND GEODETICS

Client:



Miguel A. Escobar, LSLS, RPLS  
Chief Surveyor  
1504 Chisholm Trail Road, Suite 103  
Round Rock, Texas 78681  
512-238-1200

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Company Name: \_\_\_\_\_