FREESE AND NICHOLS
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Practical results
Outstanding service

9601 McAllister Freeway, Suite 1008 • San Antonio, Texas 78216 • 210-298-3800 www.freese.com

June 28, 2022

Josh Schneuker
Executive Director, Economic Development
City of Seguin - Seguin Economic Development Corporation

Re: Proposal for Professional Engineering Services
Lawson Street Reconstruction

Dear Mr. Schneuker:

Freese and Nichols, Inc. (FNI) is pleased to submit this proposal for providing professional engineering services to the City of Seguin (City) to perform design services for the Lawson Street Reconstruction.

BACKGROUND

Through the City's and SEDC's conversations with stakeholders in the area, it was became apparent that Lawson Street needs to be reconstructed and upgraded. The project will require coordination with TxDOT as well as the local stakeholders and SEDC.

SCOPE OF SERVICES
FNI will render the following professional services found in Attachment SC.

TIME OF COMPLETION
FNI understands the need for the project to move forward and the target of construction starting in 6 months. Our proposed schedule is as follows:

- NTP: July 6, 2022
- Preliminary Engineering: August 17, 2022
- 50% Deliverable: October 10, 2022
- 100% Deliverable: November 9, 2022

SERVICES PROVIDED BY CITY

A. Assist FNI by placing at FNI's disposal all available information pertinent to the reviews including the documents listed in Item 1 of the Basic Services.

B. Provide input and comments on deliverables, as appropriate.

DESIGNATED REPRESENTATIVES

FNI designates the following representatives:

FNI's Project Manager	Bregger Garrison, P.E. 9601 McAllister Freeway, Suite 1008 San Antonio, Texas 78216 Phone: 210-298-3841 E-mail: Bregger.Garrison@freese.com
FNI's Accounting Representative	Marissa Mendoza 10431 Morado Circle, Suite 300 Austin, TX 78759 Phone: 512-826-5432 E-mail: Marissa.Mendoza@freese.com

COMPENSATION

FNI proposes to furnish our basic services as described in Attachment SC on a lump sum basis in the amount of **$172,950**. If additional effort is needed to complete this scope, FNI will communicate the need for a supplemental at that time.

Payment of the services shall be due and payable upon submission of a statement for services. Statements for services shall not be submitted more frequently than monthly.

We appreciate this opportunity to submit this proposal. If additional information or clarification is desired, please do not hesitate to contact us.

Sincerely,

FREESE AND NICHOLS, INC.

Bregger Garrison, P.E.
Project Manager / Associate

SCOPE OF SERVICES

BASIC SERVICES: FNI will develop plans, specification, and estimates for Lawson Street from W. Kingsbury Street (US 90) to CH Matthies Jr. The goal of this project is to reconstruct the existing two-lane asphalt roadway to a concrete roadway to support the increased industrial truck traffic along the road. FNI shall render the following professional services in connection with the development of the project:

A. Preliminary Engineering Phase
    a. Project Management and General Items
        i. DSR Preparation / Scoping Meeting: Develop and fill out the DSR and attend meeting and document with meeting minutes
        ii. Data Collection: Collect and review available and pertinent information regarding the project including but not limited to as-builts, previous traffic studies, private property site plans, and site visit information
        iii. Stakeholder Meeting: Prepare for and attend a stakeholder meeting to discuss the project and potential options with cost
        iv. Perform QA/QC on deliverables
        v. Progress Meetings: Meet virtually monthly with the Client (estimated 3 meetings)
        vi. Design Review Meeting: Meet in-person for the review of the preliminary deliverable and respond to 1 round of comments
    b. Surveying and Mapping
        i. The Professional shall tie in all existing surface topographic features and structures within the project limits. This shall include, but is not limited to: tops of curbs, edges of pavement, pavement materials, driveways, sidewalks, retaining walls, drainage structures (top, edges and flow line), channels and drainage ways (tops, toes and flow line), manholes (rim, flow lines and diameters of pipes, type of material and photographs of the inside of manholes and drainage structures), including the same survey data for upstream and downstream manholes and structures that are outside of the survey limits for all gravity wastewater and drainage lines within the survey limits. Visible valves, meters, clean-outs, slabs, utility signs, utility poles and structures, fences, landscaping features, shrubbery, trees (including the approximate drip-line), tree canopies, buildings (edges within the survey limits) mailboxes, etc. The survey limits shall extend approximately 100 feet on intersecting streets. The Professional shall provide sufficient ground shots to create one (1) foot contours for the Project.
        ii. The Professional shall conduct a utility survey and locate existing utilities within the Project limits. The Professional shall contact all utility service providers by calling Texas 811 and the City of Seguin to coordinate flagging of existing franchise utilities. The Professional shall request drawings of existing agency and municipal owned utilities and shall include locations of these utilities in the survey. The Professional shall tie in the locations of the existing utilities on the survey. The

Professional shall bear all costs for the Services associated with utility locates.

iii. The Professional shall set and install control points and/or benchmarks as required for the survey work). The Professional shall provide horizontal and vertical coordinates of the benchmarks in the required coordinate system and datum and show the benchmarks on the survey drawing.

iv. The Professional shall coordinate right of entry ("ROE"). The Professional shall contact private property owners and attempt to ascertain permission to enter and perform field services within private properties. If the Professional cannot ascertain permission to enter private property, the Professional shall notify the City of Seguin and the City shall coordinate with property owners to assist with ROE.

v. The Professional shall research and review adjoining plats and deeds along the survey corridor. The Professional shall locate property corners and identify existing right of way ("ROW"), along the survey corridor, based on found monuments and record documents.

c. Roadway Option Evaluation
   i. Develop two options for Lawson Street based on information provided by the Client. Design will include:
      1. Existing and Proposed Typicals
      2. Horizontal Roadway Alignments
      3. Roadway Plan View Geometry (includes running Autoturn on all turning movements for CH Mathies / Lawson / US 90 to optimize pavement geometry
   ii. Develop cost estimates for each of the options

d. Temporary Pavement Phase and Access
   iii. Develop short-term pavement limits to connect new entrance to CH Mathies during construction
   iv. Evaluate additional pavement at other streets in the area for operations and truck turning movements

e. Pavement Design and Geotechnical Engineering
   i. Field work Consisting of:
      1. Locating the borings in the field.
      2. Notification of the "Texas 811 System" to locate and mark underground utilities at the boring locations prior to the commencement of the drilling operations.
      3. Provide limited traffic control during the drilling operations including traffic signage and cones.
      4. Two (2) test borings will be completed within the roadway.
      5. A grab sample of the base will be obtained and soil samples will be obtained at 2-foot intervals at the boring locations.
      6. Measurement of the thickness of the existing asphalt and base materials.

7. In addition, one (1) bulk sample of the subgrade soil will be obtained in order to perform moisture/density, CBR, lime series, pH and sulfate testing in the laboratory.
8. Water level observations will be made during drilling and immediately upon completion of the drilling operations.
9. The boreholes will be backfilled with excavated soil and asphalt patches applied.

ii. Laboratory Testing Program including:
1. Visual soil classification (ASTM D2487) (all samples)
2. Water content (ASTM D2216) (all samples)
3. Atterberg limits (ASTM D4318)
4. Percent finer than #200 sieve (ASTM D1140)
5. Standard Proctor (ASTM D698) (1 bulk sample)
6. California Bearing Ratio (ASTM D1883) (1 bulk sample)
7. Sulfate content determination (TEX Method 145E) (1 bulk sample)
8. Lime series (TEX Method 121E) (1 bulk sample)
9. pH test (ASTM D4972) (1 bulk sample)

iii. Geotechnical Engineering Letter Report: A geotechnical engineering letter report will be prepared by a Professional Engineer licensed in the State of Texas. The report will include the following information:
- A description of the subsurface investigation and laboratory tests
- Logs of Boring
- Existing pavement and base thicknesses
- DCP test results
- A discussion of the engineering properties of the base and subgrade materials encountered at the test locations
- Pavement recommendations (flexible and rigid) utilizing reclamation methods based on service or traffic conditions provided by our client

f. Storm Drainage
i. Develop Drainage Area Map
ii. Preliminary Flow Calculations
iii. Preliminary Channel Alignment
1. Options to use alternate methods of stormwater collection

g. Utility Coordination / Management
i. Develop Utility Base Map
ii. Develop a Utility Coordination Matrix to identify potential utility impacts or conflicts

B. Intermediate Design (50% Plan Set)
a. Project Management and General Items
i. Progress Meetings: Meet virtually monthly with the Client (estimated 3 meetings)
ii. Perform QA/QC on deliverables
iii. Design Review Meeting: Meet in-person for the review of the intermediate deliverable and respond to one round of comments

iv. TxDOT Coordination: Coordinate with TxDOT regarding the tie-in with Kingsbury following driveway permit requirements

b. Plan Set Development
   i. General Sheets including Cover Sheet, Index, Project Layout (1" = 100'), Summary of Quantities
   ii. Typical Sections
   iii. Traffic Control Phasing and Narrative
   iv. Removal Sheets (1" = 40')
   v. Road Plan & Profile Sheets (1" = 40')
   vi. Intersection Layouts at CH Mathies and Kingsbury
   vii. Miscellaneous Roadway Details
   viii. Drainage area maps
   ix. Drainage calculation sheets
   x. Drainage Plan & Profile Sheets (1"=40')
   xi. Drainage Channel Cross Sections
   xii. Storm Drain Details
   xiii. Signing and Striping 1" = 40')
   xiv. SW3P Layouts and Narrative
   xv. Standards
   xvi. Cross Sections at 50' intervals and at driveway centerlines

c. Specifications: Develop the list of governing specifications and identify any needed special provisions, specifications, or details.
d. Quantities and Update OPCC per design

C. Final Design Submittal (100% Plan Set)
   a. Project Management and General Items
      i. Progress Meetings: Meet virtually monthly with the Client (estimated 2 meetings)
      ii. Perform QA/QC on deliverables
      iii. Prepare for and attend 1 stakeholder meeting
      iv. Finalize TxDOT Coordination: Provide any additional information to complete coordination with TxDOT related to the driveway permit
   b. Update and finalize plan set
      i. General Sheets including Cover Sheet, Index, Project Layout (1" = 100'), Summary of Quantities, and General Notes
      ii. Typical Sections
      iii. Traffic Control Phasing and Narrative
      iv. Removal Sheets (1" = 40')
      v. Road Plan & Profile Sheets (1" = 40')
      vi. Intersection Layouts at CH Mathies and Kingsbury
      vii. Miscellaneous Roadway Details
      viii. Drainage area maps
      ix. Drainage calculation sheets

x. Drainage Plan & Profile Sheets (1”=40’)
xi. Drainage Channel Cross Sections
xii. Storm Drain Details
xiii. SW3P Layouts and Narrative
xiv. Standards
xv. Cross Sections at 50’ intervals and at driveway centerlines

c. Develop and Finalize Project Manual for Bidding Purposes
   i. Develop Front End Documents
   ii. Develop Bid Form
   iii. Finalize list of Governing Specifications, Special Provisions, and Special Specifications, as applicable
   iv. Develop advertisement to be submitted to local media by City
d. Finalize Bid Quantities and OPCC

D. Bid Phase Services:
   a. Attend Pre-bid Meeting
   b. Set up and Maintain Project on CivCast
   c. Respond to RFIs and Issue Addenda
   d. Attend Bid Opening
   e. Evaluate Bids and Develop Recommendation Letter
   f. Develop Conformed Set Issued for Construction

E. Construction Phase Services:
   In performing these services, it is understood that FNI does not guarantee the Contractor's performance, nor is FNI responsible for the supervision of the Contractor's operation and employees. FNI 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. FNI 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.
   a. Project Management and General Items
   b. Preconstruction Meeting
   c. Submittal Review (Assume 15 submittals)
   d. Site Visits (Assume 6)
   e. Progress Meetings (Assume 6)
   f. Final Walk Through
   g. Pay Application Review (Assume 1 hr/month)
   h. Change Order Support
   i. Develop Record Drawings: Record drawings will be based off of contractor and inspector field information as well as information from RFI’s, change orders, and submittals. Post-construction survey is not included and would be an additional service, if needed.

F. Additional Services

a. Biofiltration / Rain Garden Design - FNI shall evaluate the feasibility of including low maintenance low impact development practices into the design.
b. Additional Outfall Design (TBD)
c. Regional Detention Design (TBD)
d. Utility Relocation Design
    i. Project Management
        1. Attend kickoff meeting to review scope, schedule, and budget; determine any special conditions that may affect design and/or construction; discuss administrative requirements of Owner; and to develop design criteria.
        2. Attend the following meetings:
            - Attend up to 2 monthly project coordination meetings with Owner
            - Attend 3 meetings with third parties, including other consultants providing services to Owner.
            - Attend 3 workshops for review of milestone design submittals.
    ii. Preliminary Design Phase
        1. FNI will review Owner provided CCTV footage and will assign a condition based on PACP standards. FNI will determine feasible rehabilitation methods for the existing sewer pipes.
        2. FNI will review alignment options for the 16" water line in the field and make modifications to reduce conflicts and determine the final pipeline alignment. Final alignment will be based upon property considerations, constructability, construction costs, conflicts with existing infrastructure, accessibility, and permitting requirements.
        3. Deliverables for the Preliminary Design Phase include the following:
            - Condition assessment memo and recommended rehabilitation method.
            - Draft Copy of Pipeline Alignment
            - Final Copy of Pipeline Alignment
    iii. Final Design Phase
        1. Prepare applications for routine permits such as city, county, and road permits, and TCEQ Approval.
        2. Prepare revised opinion of probable construction cost at the 50% and 100% submittals.
        3. 50 % Review: Prepare drawings, specifications, construction contract documents, designs, and layouts of improvements to be constructed. Prepare bidder's proposal forms (project quantities) of the improvements to be constructed. Furnish Owner digital copies of drawings, specifications, and bid proposals marked "Preliminary" for approval by Owner. Pipeline plans will include plan and profile sheets for water and plan sheets for sewer (based on Client direction for pipebursting of the sewer line) pipeline appurtenances, and typical details. FNI will receive comments from Owner and address comments in the 100% Review.

4. 100% Review: Furnish Owner digital copies of drawings, specifications, and bid proposals marked “Final Draft” for approval by Owner. Review documents will include all plans and specifications with minor corrections and notes remaining. FNI will receive comments from Owner and address comments. Upon final approval by Owner, FNI will provide Owner digital copies of “Final” plans and specifications.
5. Deliverables for the Final Design Phase include:
    - Routine Permit Applications
    - OPCC at 50% and 100% submittals
    - 50% submittal of Plans and Specifications
    - 100% submittal of Plans and Specifications
    - Final Plans and Specifications

iv. Construction Phase

1. MEETINGS AND SITE VISITS. FNI shall provide the following services for meetings and site visits:
    - attend up to a total of 3 monthly construction progress meetings.
    - SUBMITTAL REVIEW. FNI shall review all contractor submittals for compliance with the design concepts to include the following:
        i. shop drawings (up to **10**);
        ii. record data (up to **5**);
        iii. requests for information (up to **5**);
        iv. certified test reports (up to **5**); and
        v. miscellaneous submittals (up to **3**).

Assumptions:

1) No separate illumination or landscape design will be included.
2) The receiving channel along US 90 will be able to handle the drainage from Lawson. No additional downstream improvements are included in the base services.
3) No ROW surveying or services is included. All ROW acquisition-related services, if needed, will be an additional service.

City of Seguin Lawson Street Reconstruction 4/20/2022 Detailed Cost Breakdown	Project Fee Summary		
	Basic Services	$	172,950
	Special Services	$	70,592
	Total Project	$	243,542

Tasks				Labor												
Phase	Task	Basic or Special	Task Description	Project Manager	Project Engineer	EIT	CAD Tech	Senior Advisor/QC	Sr. Drainage Engineer	Drainage EIT	Project Controller	W/WW PM	W/WW Project Engineer	EIT	Cost Estimator	Total Hours	Total Labor Effort
				$178	$137	$113	$96	$175	$178	$113	$111	$178	$156	$137	$173		
A.			**Preliminary Engineering**														$ -
	a.		Project Management and General Items														$ -
			DSR Preparation/Scoping Meeting	2	2				2							6	$ 986
			Data Collection	4	8				4							16	$ 2,520
			Stakeholder Meeting	2	2				2							6	$ 986
			QA/QC	2	2			4	2							10	$ 1,686
			Progress Meetings	6	12											18	$ 2,712
			Design Review Meeting	2	2											4	$ 630
	b.		Surveying and Mapping														$ -
	c.		Roadway Option Evaluation		8	16	8									32	$ 3,672
			Typical Sections		2	2	4									8	$ 884
			Horizontal Roadway Alignments		2	2										4	$ 500
			Roadway Geometry		4	12										16	$ 1,904
	d.		Temporary Pavement Phase		4	8										12	$ 1,452
	e.		Pavement Design and Geotechnical Engineering														$ -
	f.		Storm Drainage														$ -
			Drainage Areas						16	8						24	$ 3,752
			Preliminary Flow Calculations						16							16	$ 2,848
			Channel Alignment						8	8						16	$ 2,328
	g.		Utility Coordination/Management	4	8		8									20	$ 2,576
B.			**Intermediate Design**														$ -
	a.		Project Management and General Items														$ -
			Progress Meetings	6	12											18	$ 2,712
			QA/QC	2	2			8	2							14	$ 2,386
			Design Review Meeting	2	2				2							6	$ 986
			TxDOT Coordination	2	2				2							6	$ 986
	b.		Plan Set Development														$ -
			General Sheets (3 sheets)		2	4	2		4							12	$ 1,630
			Typical Sections (1 sheet)		1	2	4									7	$ 747
			Traffic Control Phasing and Narrative (1 sheet)		2	4	2									8	$ 918
			Removal Sheets (2 sheets)		2	4	4									10	$ 1,110
			Roadway Plan & Profile Sheets (3 sheets)		12	24	28									64	$ 7,044
			Interesection Layouts (2 sheets)		4	16	8									28	$ 3,124
			Miscellaneous Roadway Details			2	8									10	$ 994
			SW3P Layouts and Narrative (1 sheet)		2	4	4		2							12	$ 1,466
			Standards			2	4									6	$ 610
			Cross Sections		2	8	16									26	$ 2,714
			Drainage Area Maps						8	16						24	$ 3,232
			Drainage Calculation Sheets						16	24						40	$ 5,560
			Storm Drain Plan and Profile Sheets						16	24						40	$ 5,560
			Standards						2	4						6	$ 808
			Cross Sections						4	8						12	$ 1,616
			Storm Drain Details						2	4						6	$ 808
	c.		Specifications		2	4			4							10	$ 1,438
	d.		Quantities and OPCC		4	8	8		4	4						28	$ 3,384
C.			**Final Design**														$ -
	a.		Project Management and General Items														$ -
			Progress Meetings	2	4											6	$ 904
			QA/QC	2	2			8	2							14	$ 2,386
			Stakeholder Meeting	2	2				2							6	$ 986
			TxDOT Coordination	4	4				4							12	$ 1,972
	b.		Update and Finalize Plan Set														$ -
			General Sheets			2	2		2							6	$ 774
			Typical Sections		1	2	4									7	$ 747
			Traffic Control Phasing and Narrative			2	2									4	$ 418
			Removal Sheets		2	2	2									6	$ 692
			Roadway Plan & Profile Sheets		8	12	12									32	$ 3,604
			Intersection Layouts		4	12	4									20	$ 2,288
			Miscellaneous Roadway Details			2	4									6	$ 610
			SW3P Layouts and Narrative		2	2	2		2							8	$ 1,048
			Standards				4									4	$ 384
			Cross Sections		2	8	8									18	$ 1,946
			Drainage Area Maps						4	8						12	$ 1,616
			Drainage Calculation Sheets						4	8						12	$ 1,616
			Storm Drain Plan and Profile Sheets						8	16						24	$ 3,232
			Standards						2	4						6	$ 808
			Cross Sections						2	4						6	$ 808
			Storm Drain Details						2	4						6	$ 808
	c.		Project Manual and Bid Documents	8	24	24			4							60	$ 8,136
	d.		Quantities and OPCC		2	8	4		4	4						22	$ 2,726
																	$ -

City of Seguin Lawson Street Reconstruction 4/20/2022 Detailed Cost Breakdown	Project Fee Summary		
	Basic Services	$	172,950
	Special Services	$	70,592
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Tasks				Labor												
Phase	Task	Basic or Special	Task Description	Project Manager	Project Engineer	EIT	CAD Tech	Senior Advisor/QC	Sr. Drainage Engineer	Drainage EIT	Project Controller	W/WW PM	W/WW Project Engineer	EIT	Cost Estimator	Total Hours	Total Labor Effort
				$178	$137	$113	$96	$175	$178	$113	$111	$178	$156	$137	$173		
D.			**Bid Phase**														$ -
	a.		Attend Pre-Bid Meeting	2	2											4	$ 630
	b.		Set up and Maintain Project on CivCast	1							4					5	$ 622
	c.		RFIs / Addenda	4	8		4									16	$ 2,192
	d.		Attend Bid Opening	2	2											4	$ 630
	e.		Evaluate Bids and Develop Recommendation Letter	2	8											10	$ 1,452
	f.		Develop Conformed Set Issued for Construction	1	2	2	4									9	$ 1,062
																	$ -
E.			**Construction Phase**														$ -
	a.		Project Management and General Items	4	4						8					16	$ 2,148
	b.		Preconstruction Meeting	2	2											4	$ 630
	c.		Submittal Review (Assume 15 submittals)	10	20	20										50	$ 6,780
	d.		Site Visits (Assume 6)	6	6											12	$ 1,890
	e.		Progress Meetings (Assume 6)	6	6											12	$ 1,890
	f.		Final Walk Through	6	6											12	$ 1,890
	g.		Pay Application Review (Assume 1 hr/month)		8											8	$ 1,096
	h.		Change Order Support	4	12											16	$ 2,356
	i.		Develop Record Drawings	4	8		16		4	8						40	$ 4,960
																	$ -
																	$ -
																	$ -
F.			**Additional Services**														$ -
																	$ -
	a.	Special	**Biofiltration/Rain Gardens**	4				4	40	24						72	$ 11,244
																	$ -
	d.	Special	**Utility Relocation Design**														$ -
		Special	**Project Management**														$ -
		Special	Internal kickoff meeting (1)										1			1	$ 156
		Special	External kickoff meeting (1)									1				1	$ 178
		Special	Periodic internal meetings (4)					2				4	3			9	$ 1,530
		Special	Periodic client meetings (5)									5				5	$ 890
		Special	Design workshop meetings (3)									3				3	$ 534
																	$ -
		Special	**Preliminary Design Phase**														$ -
		Special	CCTV Review & Memo					1				10				11	$ 1,955
		Special	Alignment Study & GIS Exhibit					1				8	8			17	$ 2,847
																	$ -
																	$ -
		Special	**Final Design Phase**														$ -
		Special	Permitting									12	12			24	$ 4,008
		Special	50% OPCC									4	4		2	10	$ 1,682
		Special	100% OPCC									4	4		2	10	$ 1,682
		Special	50% Design (3 P&P Sheets for water and 1 plan sheet for sewer)					2				24	24	56	2	108	$ 16,384
		Special	50% Specs					2				10	10			22	$ 3,690
		Special	100% Design					2				16	16	56	2	92	$ 13,712
		Special	100% Specs					2				8	8			18	$ 3,022
																	$ -
		Special	**Construction Phase**														$ -
		Special	Progress Meetings (5)									5				5	$ 890
		Special	Submittal Review									4	12			16	$ 2,584
																	$ -
			Total Effort	**$ 19,580**	**$ 35,346**	**$ 24,860**	**$ 17,280**	**$ 6,300**	**$ 36,312**	**$ 20,340**	**$ 1,332**	**$ 21,004**	**$ 15,912**	**$ 15,344**	**$ 1,384**		**$ 214,994**

City of Seguin
Lawson Street Reconstruction
4/20/2022
Detailed Cost Breakdown

Tasks				Expenses						Subconsultants			Total
Phase	Task	Basic or Special	Task Description	Tech Charge	Miles	Meals	Hotel	CivCast Registration	Total Expense Effort	Sherwood Surveying	Rock Engineering	Total Sub Effort	Total Effort
A.			**Preliminary Engineering**						$ -			$ -	$ -
	a.		Project Management and General Items						$ -			$ -	$ -
			DSR Preparation/Scoping Meeting	6					$ 51			$ -	$ 1,037
			Data Collection	16	80				$ 183			$ -	$ 2,703
			Stakeholder Meeting	6	80				$ 98			$ -	$ 1,084
			QA/QC	10					$ 85			$ -	$ 1,771
			Progress Meetings	18					$ 153			$ -	$ 2,865
			Design Review Meeting	4	80				$ 81			$ -	$ 711
	b.		Surveying and Mapping						$ -	8,000		$ 9,200	$ 9,200
	c.		Roadway Option Evaluation	32					$ 272	.		$ -	$ 3,944
			Typical Sections	8					$ 68			$ -	$ 952
			Horizontal Roadway Alignments	4					$ 34			$ -	$ 534
			Roadway Geometry	16					$ 136			$ -	$ 2,040
	d.		Temporary Pavement Phase	12					$ 102			$ -	$ 1,554
	e.		Pavement Design and Geotechnical Engineering						$ -		4,500	$ 5,175	$ 5,175
	f.		Storm Drainage						$ -			$ -	$ -
			Drainage Areas	24					$ 204			$ -	$ 3,956
			Preliminary Flow Calculations	16					$ 136			$ -	$ 2,984
			Channel Alignment	16					$ 136			$ -	$ 2,464
	g.		Utility Coordination/Management	20					$ 170			$ -	$ 2,746
B.			**Intermediate Design**						$ -			$ -	$ -
	a.		Project Management and General Items						$ -			$ -	$ -
			Progress Meetings	18					$ 153			$ -	$ 2,865
			QA/QC	14					$ 119			$ -	$ 2,505
			Design Review Meeting	6	80				$ 98			$ -	$ 1,084
			TxDOT Coordination	6	80				$ 98			$ -	$ 1,084
	b.		Plan Set Development						$ -			$ -	$ -
			General Sheets (3 sheets)	12					$ 102			$ -	$ 1,732
			Typical Sections (1 sheet)	7					$ 60			$ -	$ 807
			Traffic Control Phasing and Narrative (1 sheet)	8					$ 68			$ -	$ 986
			Removal Sheets (2 sheets)	10					$ 85			$ -	$ 1,195
			Roadway Plan & Profile Sheets (3 sheets)	64					$ 544			$ -	$ 7,588
			Interesection Layouts (2 sheets)	28					$ 238			$ -	$ 3,362
			Miscellaneous Roadway Details	10					$ 85			$ -	$ 1,079
			SW3P Layouts and Narrative (1 sheet)	12					$ 102			$ -	$ 1,568
			Standards	6					$ 51			$ -	$ 661
			Cross Sections	26					$ 221			$ -	$ 2,935
			Drainage Area Maps	24					$ 204			$ -	$ 3,436
			Drainage Calculation Sheets	40					$ 340			$ -	$ 5,900
			Storm Drain Plan and Profile Sheets	40					$ 340			$ -	$ 5,900
			Standards	6					$ 51			$ -	$ 859
			Cross Sections	12					$ 102			$ -	$ 1,718
			Storm Drain Details	6					$ 51			$ -	$ 859
	c.		Specifications	10					$ 85			$ -	$ 1,523
	d.		Quantities and OPCC	28					$ 238			$ -	$ 3,622
C.			**Final Design**						$ -			$ -	$ -
	a.		Project Management and General Items						$ -			$ -	$ -
			Progress Meetings	6					$ 51			$ -	$ 955
			QA/QC	14					$ 119			$ -	$ 2,505
			Stakeholder Meeting	6	80				$ 98			$ -	$ 1,084
			TxDOT Coordination	12	80				$ 149			$ -	$ 2,121
	b.		Update and Finalize Plan Set						$ -			$ -	$ -
			General Sheets	6					$ 51			$ -	$ 825
			Typical Sections	7					$ 60			$ -	$ 807
			Traffic Control Phasing and Narrative	4					$ 34			$ -	$ 452
			Removal Sheets	6					$ 51			$ -	$ 743
			Roadway Plan & Profile Sheets	32					$ 272			$ -	$ 3,876
			Intersection Layouts	20					$ 170			$ -	$ 2,458
			Miscellaneous Roadway Details	6					$ 51			$ -	$ 661
			SW3P Layouts and Narrative	8					$ 68			$ -	$ 1,116
			Standards	4					$ 34			$ -	$ 418
			Cross Sections	18					$ 153			$ -	$ 2,099
			Drainage Area Maps	12					$ 102			$ -	$ 1,718
			Drainage Calculation Sheets	12					$ 102			$ -	$ 1,718
			Storm Drain Plan and Profile Sheets	24					$ 204			$ -	$ 3,436
			Standards	6					$ 51			$ -	$ 859
			Cross Sections	6					$ 51			$ -	$ 859
			Storm Drain Details	6					$ 51			$ -	$ 859
	c.		Project Manual and Bid Documents	60					$ 510			$ -	$ 8,646
	d.		Quantities and OPCC	22					$ 187			$ -	$ 2,913
									$ -			$ -	$ -

City of Seguin
Lawson Street Reconstruction
4/20/2022
Detailed Cost Breakdown

Tasks				Expenses						Subconsultants			Total
Phase	Task	Basic or Special	Task Description	Tech Charge	Miles	Meals	Hotel	CivCast Registration	Total Expense Effort	Sherwood Surveying	Rock Engineering	Total Sub Effort	Total Effort
D.			**Bid Phase**						$ -			$ -	$ -
	a.		Attend Pre-Bid Meeting	4	80				$ 81			$ -	$ 711
	b.		Set up and Maintain Project on CivCast	5				250	$ 330			$ -	$ 952
	c.		RFIs / Addenda	16					$ 136			$ -	$ 2,328
	d.		Attend Bid Opening	4	80				$ 81			$ -	$ 711
	e.		Evaluate Bids and Develop Recommendation Letter	10					$ 85			$ -	$ 1,537
	f.		Develop Conformed Set Issued for Construction	9					$ 77			$ -	$ 1,139
									$ -			$ -	$ -
E.			**Construction Phase**						$ -			$ -	$ -
	a.		Project Management and General Items	16	80				$ 183			$ -	$ 2,331
	b.		Preconstruction Meeting	4					$ 34			$ -	$ 664
	c.		Submittal Review (Assume 15 submittals)	50					$ 425			$ -	$ 7,205
	d.		Site Visits (Assume 6)	12	480				$ 383			$ -	$ 2,273
	e.		Progress Meetings (Assume 6)	12					$ 102			$ -	$ 1,992
	f.		Final Walk Through	12	80				$ 149			$ -	$ 2,039
	g.		Pay Application Review (Assume 1 hr/month)	8					$ 68			$ -	$ 1,164
	h.		Change Order Support	16					$ 136			$ -	$ 2,492
	i.		Develop Record Drawings	40					$ 340			$ -	$ 5,300
									$ -			$ -	$ -
									$ -			$ -	$ -
									$ -			$ -	$ -
F.			**Additional Services**						$ -			$ -	$ -
									$ -			$ -	$ -
	a.	Special	**Biofiltration/Rain Gardens**	72					$ 612			$ -	$ 11,856
									$ -			$ -	$ -
	d.	Special	**Utility Relocation Design**						$ -			$ -	$ -
		Special	**Project Management**						$ -			$ -	$ -
		Special	Internal kickoff meeting (1)	1					$ 9			$ -	$ 165
		Special	External kickoff meeting (1)	1					$ 9			$ -	$ 187
		Special	Periodic internal meetings (4)	9					$ 77			$ -	$ 1,607
		Special	Periodic client meetings (5)	5					$ 43			$ -	$ 933
		Special	Design workshop meetings (3)	3					$ 26			$ -	$ 560
									$ -			$ -	$ -
		Special	**Preliminary Design Phase**						$ -			$ -	$ -
		Special	CCTV Review & Memo	11					$ 94			$ -	$ 2,049
		Special	Alignment Study & GIS Exhibit	17					$ 145			$ -	$ 2,992
									$ -			$ -	$ -
									$ -			$ -	$ -
		Special	**Final Design Phase**						$ -			$ -	$ -
		Special	Permitting	24					$ 204			$ -	$ 4,212
		Special	50% OPCC	10					$ 85			$ -	$ 1,767
		Special	100% OPCC	10					$ 85			$ -	$ 1,767
		Special	50% Design (3 P&P Sheets for water and 1 plan she	108					$ 918			$ -	$ 17,302
		Special	50% Specs	22					$ 187			$ -	$ 3,877
		Special	100% Design	92					$ 782			$ -	$ 14,494
		Special	100% Specs	18					$ 153			$ -	$ 3,175
									$ -			$ -	$ -
		Special	**Construction Phase**						$ -			$ -	$ -
		Special	Progress Meetings (5)	5					$ 43			$ -	$ 933
		Special	Submittal Review	16					$ 136			$ -	$ 2,720
									$ -			$ -	$ -
			Total Effort	**$ 13,090**	**$ 796**	**$ -**	**$ -**	**$ 288**	**$ 14,173**	**$ 9,200**	**$ 5,175**	**$ 14,375**	**$ 243,542**