



July 8, 2025

Melissa Reynolds, P.E.
City of Seguin
205 N. River Street
Seguin, TX 78155

**RE: Additional Service Proposal #5 – New Illumination Design (Stremmel Rd. to SH 123)
Rudeloff Road Phase II from Huber Road to SH 123 (at FM 20)**

Dear Ms. Reynolds:

BGE, Inc. (BGE) is pleased to present the City of Seguin (City) with this proposal to provide additional engineering services for the design of illumination for the Rudeloff Road Phase II Project from Huber Road to SH 123 (at FM 20).

Scope of Services:

The additional services requested are threefold. First, BGE proposes to conduct a schematic of the proposed illumination design. The schematic will begin at Huber Road and end at the terminus of the Rudeloff Road Phase II project limits. The schematic will be used in for coordination efforts with GVEC to determine general requirements and ownership over the proposed illumination system. PS&E design will begin when authorized by the City of Seguin after completion of coordination meetings with GVEC. The additional services requested are to provide the design of the illumination system as follows:

1. Schematic Phase. BGE will develop a preliminary lighting plan to provide continuous lighting throughout the Rudeloff Road Phase II corridor. The preliminary lighting plan will be governed by TxDOT design criteria and follow the TxDOT Highway Illumination Manual requirements. The preliminary lighting plan will be incorporated into a schematic for review by both the City and GVEC. The schematic will be used in coordination efforts with the City and GVEC to determine system requirements, ownership/responsibilities, and power locations.
2. Illumination Design Plans, Specifications, and Estimates (PS&E) (If Authorized). BGE will develop the illumination layouts based on the feedback from the schematic in Task 1 above. The illumination system design (conduit, assemblies, voltage drop, etc.) will be governed by TxDOT design criteria and will follow the TxDOT Highway Illumination Manual. The design is based on the assumption that the system will utilize a 240V system at a minimum. Illumination layouts will be provided at a 100' scale and will not include conduit profiles. BGE will perform electrical analysis (based on a 240V Circuit Voltage) to determine Voltage Drop Calculations, Conductor Sizings, Electrical Service Designs (1 @ SH 123 and 1 @ Huber Road). 120V design is excluded due to proximity of available overhead electric power. If 120V is desired by City, there will be additional costs of extending overhead electric from Huber and SH 123 to provide electrical services in the middle to meet voltage drop requirements for 120V circuits.
 - a. Stake-holder Coordination. During the development of the design, BGE will meet with stakeholders representing each of the utilities that are present along the lighting system including CPS, GVEC, and AT&T. It is anticipated that three (3) meetings will be required. Additional meetings about three (3) meetings will be provided on an hourly basis.

- b. Submittals. BGE will provide intermittent plan submittals at the 50% and 100% design phase. BGE will provide each submittal electronically as a PDF for the City's review and comment. BGE will meet with the City after each submittal review as needed, as a submittal review meeting.
- c. Illumination Photometric Roll Plot. BGE will develop a roll plot depicting photometric isolines to display illuminance throughout the Rudeloff Road Phase II corridor. BGE will provide this submittal electronically as a PDF for the City's review and comment. BGE will meet with the City after submittal for review as needed, as a submittal review meeting.
- d. Construction Phase Services. It is anticipated that this work will be added as a change order to the Rudeloff Road Phase II construction contract. BGE will provide the following construction phase services:
 - i. Review illumination assembly and illumination system submittals (assume 4 submittals).
 - ii. Respond to requests for information (assume 3 RFI's).

For the construction phase services it is presumed that construction will take 24 months to complete.

- 3. Pedestrian Conduit Design (If Authorized). BGE will develop the conduit design for the future pedestrian lighting planned along the shared use paths of the Rudeloff Road Phase II corridor.
 - a. Stake-holder Coordination. During the development of the design, BGE will meet with the City to determine lighting requirements for the shared use path along the project. The determination of the lighting requirements and type along the shared use path will be used to design the conduit in an effort to minimize the amount of grade work needed for the future pedestrian lighting system.
 - b. Submittals. If authorized, BGE will incorporate the proposed conduit design into the roadway illumination layouts and intermittent plan submittals of 50% and 100%. BGE will provide these plans electronically as a PDF for the City's review and comment. BGE will meet with the City after each submittal review as needed, as a submittal review meeting.

The designed infrastructure will be completed by June 30, 2026, and all design documents, including governing specifications, will be reviewed and approved by the City. It is assumed that this work will be incorporated as a change order to the Rudeloff Road Phase II construction contract. It is also assumed that all ancillary services typically included in an illumination design, including geotechnical engineering, traffic controls, and erosion and sedimentation controls, will be provided with the roadway project and may require minimal alterations to accommodate the illumination scope of work.

Deliverables:

- 1. BGE will prepare an engineering schematic on a roll plot for use in stakeholder coordination.
- 2. BGE will prepare detailed plans, specifications, and cost estimates for bidding and construction.
- 3. BGE will prepare plans (11" x 17" with use of a 1"=100') to include each of the work items listed above.

Exclusions: (If additional pages are necessary, they are identified as Attachment B)

The following services are excluded but may be provided as an additional service as requested

- 1. Any design elements beyond what is explicitly enumerated in the scope above.
- 2. Environmental documentation.
- 3. Public Involvement including public hearings and meeting with affected property owners.
- 4. 120V Line Voltage to Luminaires.
- 5. Profiling of conduits for design.
- 6. Coordination with developers for lighting next to future developments.
- 7. Coordination of extending overhead electrical lines for electrical services.

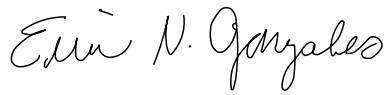
8. Electrical Services in locations without GVEC overhead electric lines.
9. Utility Relocation coordination and design efforts.
10. Pedestrian Illumination Design for lighting along Shared Use Paths.

Compensation:

The contract amount for the additional services shall be the lump sum fee of Eighty-Nine Thousand, Sixty-Three Dollars, and Nine Cents (\$89,063.09).

Thank you for this opportunity for our team to continue to support the City and if you have any questions please feel free to contact me.

Sincerely,



Erin Gonzales, P.E.
BGE, Inc.

AGREED AND ACCEPTED

Printed Name

Signature of Authorization

DATE

EXHIBIT D-FEE SCHEDULE (BGE, INC.)

PRIME PROVIDER NAME: BGE, INC.
RUDELOFF ROAD PHASE 2

TASK DESCRIPTION	QC MANAGER	Sr. PROJECT MANAGER	SURVEY MANAGER RPLS	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	GRADUATE ENGINEER	SR. ENGINEERING TECH	Sr. CADD TECH	CADD TECH	ENV. SCIENTIST SENIOR	ENV. SCIENTIST I/II	ENV. SCIENTIST III	ENV. SCIENTIST IV	PUBLIC INVOLVEMENT SPECIALIST I/II	PUBLIC INVOLVEMENT SPECIALIST I/II	GIS TECHNICIAN	SURVEY CREW	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF SHEETS	LABOR HRS PER SHEET	
Schematic Phase																						
PER Illumination Feasability Study (Roll Plot of Illumination Assemblies & Construction Cost Estimate)		4			6	16		16												42	1	42
Electrical Provider and City Coordination Meetings (5 meetings)		8			5	5	5													23		
Phase Total		12			11	21	5	16												\$11,501.57		
Roadway Illumination Design Phase																						
Design Photometric Model (Estimated 55 Assemblies)	3	3			6	28														40		
Photometric Roll Plot	3	3			3	6		12												27		
Circuit Design (4 circuits estimated)	2	4			5	12														23		
Electrical Service Design (2 Services) (Assuming 240V Lighting System)	2	2			2	4														10		
Illumination Layouts (estimated 9 sheets at 100 scale) and Comments.	5	5			25	60		60												155	9	17.22222222
Applicable Standards and Specifications	2				4			8												14		
Utility Clearance Meetings with Utility Companies in Area (CPS, AT&T, GVEC) (est. 3 meetings)		5			5	4	4													18		
Refine Photometric Model & Plans for Client Comments	1				2	3		4												10		
Construction Phase Services (Assumes 4 Submittals and 3 RFIs)	2	4			12	12														30		
Phase Total (If Authorized)	20	26			64	129	4	84												\$55,743.84		
Pedestrian Illumination Conduit Design																						
Coordination Meetings with City to Determine Lighting Type (assume 2 meetings)		2			2	2														6		
Pedestrian Illumination Feasability Study (Conduit Layouts and OPCC)	2				10	20		20												52	1	52
Pedestrian Conduit Design	2				8	16		16												42	2	21
Applicable Standards and Details	2				6	12		12												32	3	10.66666667
Phase Total (If Authorized)	6	2			26	50		48												\$21,817.68		
HOURS SUB-TOTALS	26	40	0	0	101	200	9	148	0	0	0	0	0	0	0	0	0	0	0	524		
CONTRACT RATE PER HOUR	288	254.57	198	219.21	155.57	130.82	198	187.39	120.21	240.42	88.39	123.75	194.46	88.39	123.75	97	200	102.53				
TOTAL LABOR COSTS	\$7,488.00	\$10,182.80	\$0.00	\$0.00	\$15,712.57	\$26,164.00	\$1,782.00	\$27,733.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$89,063.09		
% DISTRIBUTION OF STAFFING	5.0%	7.6%	0.0%	0.0%	19.3%	38.2%	1.7%	28.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
SUBTOTAL																				\$89,063.09		
PROJECT TOTALS	QC MANAGER	Sr. PROJECT MANAGER	SURVEY MANAGER RPLS	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	GRADUATE ENGINEER	SR. ENGINEERING TECH	Sr. CADD TECH	CADD TECH	ENV. SCIENTIST SENIOR	ENV. SCIENTIST I/II	ENV. SCIENTIST III	ENV. SCIENTIST IV	PUBLIC INVOLVEMENT SPECIALIST I/II	PUBLIC INVOLVEMENT SPECIALIST I/II	GIS TECHNICIAN	SURVEY CREW	CLERICAL				
TOTAL HOURS	26.00	40.00	-	-	101.00	200.00	9.00	148.00	-	-	-	-	-	-	-	-	-	-	-	524.00		
CONTRACT RATE PER HOUR	\$ 288.00	\$ 254.57	\$ 198.00	\$ 219.21	\$ 155.57	\$ 130.82	\$ 198.00	\$ 187.39	\$ 120.21	\$ 240.42	\$ 88.39	\$ 123.75	\$ 194.46	\$ 88.39	\$ 123.75	\$ 97.00	\$ 200.00	\$ 102.53				
TOTAL LABOR COSTS	\$ 7,488.00	\$ 10,182.80	\$ -	\$ -	\$ 15,712.57	\$ 26,164.00	\$ 1,782.00	\$ 27,733.72	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$89,063.09		
% DISTRIBUTION OF STAFFING	8.4%	11.4%	0.0%	0.0%	17.6%	29.4%	2.0%	31.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%		

DESCRIPTION	TOTAL MH BY FC	TOTAL COSTS BY FC	
ILLUMINATION DESIGN	524	\$89,063.09	100%
SUBTOTAL LABOR EXPENSES	524	\$89,063.09	

SUMMARY	
TOTAL COSTS FOR PRIME ONLY	\$89,063.09
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	
GRAND TOTAL	\$89,063.09