# PROFESSIONAL SERVICES SUPPLEMENTAL AGREEMENT #2 FOR

#### TRAFFIC SIGNAL SYSTEM IMPROVEMENT IMPLEMENTATION

STATE OF TEXAS §

COUNTY OF TRAVIS §

This Supplemental Agreement **No. 2** to a contract for Professional Services is made by and between the City of Pflugerville, Texas ("City") and **LJA Engineering, Inc.** ("Consultant"). City and Consultant may be referred to herein singularly as "Party" or collectively as the "Parties."

WHEREAS, the City and Consultant executed an Agreement for Professional Services ("Agreement") on the 29th day of September, 2022 for TRAFFIC SIGNAL SYSTEM IMPROVEMENT IMPLEMENTATION Project ("Project") in the amount of Two hundred fiftyeight thousand, four hundred sixty dollars and no cents (\$258,460.00); and

WHEREAS, the City and Consultant entered into **Supplemental Agreement #1** for Professional Services for the Project in the amount of **\$22,855.69** on October 25, 2022 to add additional traffic signal timing and engineering services to the Agreement; and

WHEREAS, the City and Consultant desire to enter into **Supplemental Agreement #2** for Professional Services for the Project in the amount of **\$126,247.50**, for providing additional PS&E services including increased number of ADA compliant curb ramps, sidewalks, pavement markings, Internally Luminated Street Name (ILSN) signs, battery backup power supplies at signalized intersections, modification of left turn traffic signal indications to Flashing Yellow Arrow (FYA), upgrading of traffic signal MMU (Malfunction Management Unit), wireless radio or GPS clock; and

WHEREAS, it has become necessary to amend the Agreement to modify the provisions for the Scope of Services, Fee, and Schedule; and

WHEREAS, it is necessary for the City to amend its agreements from time to time to comply with state law relating to contracts of municipalities.

NOW, THEREFORE, premises considered, the City and the Consultant agree that said Agreement is amended as follows:

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Article III. Scope of Services and Attachment 1, shall be amended as set forth in the attached Addendum to Attachment 1.

Article IV. Compensation to Consultant and Attachment 1 (Fee Schedule), shall be amended by increasing the total amount payable under the Agreement to \$407,563.19, as shown by the attached Addendum to Attachment 1 (Fee Schedule).

Except as amended hereby, and as previously amended as indicated above, the terms of the Agreement shall remain unchanged and in full force and effect.

**EXECUTED** and **AGREED** to as of the dates indicated below.

CITY OF	
<b>PFLUGERVILLE</b>	

### **CONSULTANT**

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(Si <sub>ξ</sub>	gnature)	- Kenst	Signature)
Printed Name:	Sereniah Breland	Printed Name:	Kenneth G. Schrock, PE
Title:	City Manager	Title:	Senior Vice President
Date:		Date:	_5/21/2024
APPROVED AS	TO FORM:		
Charles E. Zech City Attorney			

DENTON NAVARRO RODRIGUEZ BERNAL SANTEE & ZECH

#### **ADDENDUM TO ATTACHMENT "1"**

January 30, 2024

## PROFESSIONAL SERVICES FOR TRAFFIC SIGNAL SYSTEM IMPROVEMENT IMPLEMENTATION

**Background for Additional Support Services:** The original project was limited to minimal tasks and improvements as shown in **Attachment 1**, due to the allocated budget. However, staff investigated the possibility of using TxDOT sponsored grant fund for these improvements and realized that these types of improvements are eligible and can be funded through MPO Transportation Improvement Program (TIP). To take advantage of this opportunity, staff expanded project tasks by including additional improvement as shown in **Attachment 1**. Application was prepared accordingly and was submitted to TxDOT. Staff were notified in October that the funding request for the project has been approved.

The additional engineering services that are required for preparation of PS&E are shown in **Attachment 1.** These improvements will upgrade the selected intersections to become ADA compliant and providing safer intersections for pedestrians including ADA compliant curb ramps, modification of sidewalks, installation of Accessible Pedestrian Signals (APS), improvements to traffic signals and signal operation, and installation of battery backup UPS (Uninterrupted Power Supply) units to keep traffic signals operational during power failure thus, ensuring safety of road users.

**Scope of Services:** In accordance with the Professional Services Agreement for the above noted project, executed on September 29, 2022, Consultant is requesting authorization for the services approved under Supplemental Services Task. As noted in the contract, the intent of this task is to provide assistance to the Owner as needed throughout the duration of the Agreement with services specific to the project but were not defined in the tasks at the time contract execution.

Below are the tasks proposed for inclusion under this request:

- Project management
- Plan preparation (PS&E) services
- Bid Phase Services
- Construction phase services
- As-built drawings
- Preparation of project manual
- Local Government documentation (Assist City Staff with Filling Out Forms 1002, 2229, 2699, Environmental Roadway Questionnaire Form and Ready to Let Scheduling Form)
- Attend Open House Meetings
- Visual Presentation

SUPPLEMENTAL FEE SUMMARY					
Original Fee	\$ 258,460.00				
Supplemental Fee #1	\$ 22,855.69				
Supplemental Fee #2	\$ 126,247.50				
<b>Total Revised Fee</b>	\$ 407,563.19				

**Term:** Consultant is authorized to commence work on the Services of the project upon execution of this Agreement. Work will be completed within **Six** (6) months of execution.

#### **Deliverables:**

• 60%, 90%, & 100% Final PS&E Submittals

	ATTACHM	ENT B									
	TRAFFIC SIGNAL SYSTEM/INTE	Project Manager 245.00	Quality Manager 230.00	Senior Engineer 215.00	Project Engineer 175.00	Design Engineer 160.00	E.I.T. 140.00	Senior CADD Operator 125.00	CADD Operator 100.00	Admin 80.00	Total
TASK 1 – TRAFFIC SIGNAL TIMING		HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
1.a	Traffic Signal Timing Optimization (LUMP SUM)										\$ 99,500.00
	Turning Movement Counts										\$ 12,960.00
	TASK 1 TOTAL HOURS TASK 1 TOTAL FEE										\$ 112,460.00
TASK 2 – PROJECT MANAGEMENT 2.a	Communication				l						
	Agency Coordination, Meetings, Emails, Phone Calls	8.0			8.0						16.0
2.b	Invoicing  Develop Invoicing and Billing Throughout Project	4.0			8.0		4.0			16.0	32.0
2.c	QA/QC Plan	4.0	40.0		4.0	4.0	4.0				20.0
2.d	Provide Continuous QA/QC Throughout Project  TxDOT Coordination	4.0	16.0		4.0	4.0	4.0				32.0
	Coordination with TxDOT Throughout Project TASK 2 TOTAL HOURS	4.0 20.0	16.0		16.0 36.0	4.0 8.0	4.0 12.0			16.0	28.0 108.0
	TASK 2 TOTAL FEE	\$4,900.00	\$3,680.00		\$6,300.00	\$1,280.00	\$1,680.00			\$1,280.00	\$19,120.00
TASK 3 – PLAN PREPARATION (PS&E) SERVICES		<b>4</b> 1,000	44,444			**,	**,*******	1		¥ 1,=====	***,******
3a	General Sheets/Specs Title Sheet	1			2	2	2	2			9
	Index of Sheets	1	0.5		2	2	2	4			11.5
	Project Layout General Notes & Standards	1 2	0.5		4 2	4	8	8 2			25.5 15
	Quantity Summary/Cost Estimate	2	2		8	16	32				60
	SUBTASK TOTAL HOURS SUB TASK TOTAL FEE	7.0 \$1,715.00	4.0 \$920.00		18.0 \$3,150.00	28.0 \$4,480.00	48.0 \$6,720.00	16.0 \$2,000.00			121.0 \$18,985.00
3.b	Traffic Control	\$1,713.00	\$920.00		φ3,130.00	94,400.00	\$0,720.00	\$2,000.00			φ10,903.00
	TCP Layouts TCP Details	1		4	4	16 16	16 16	24 16			65 57
	TCP Standard Details	1		1	2	8	8	8			28
	SUBTASK TOTAL HOURS	3.0		9.0	10.0	40.0 \$6,400	40.0	48.0			150.0
3.c	SUB TASK TOTAL FEE Drainage	\$735		\$1,935	\$1,750	φ0,400	\$5,600	\$6,000			\$22,420
	Modify Drainage (at 1 intersection) Culvert Hydrology		0.5 0.5		2.0	4.0 4.0	8.0 8.0		8.0 8.0		22.5 22.5
	Culvert Hydraulic Culvert Layout Sheets		0.5		2.0	4.0	8.0		0.0		14.5
	Culvert Standards and Detail Sheets SUBTASK TOTAL HOURS		0.5 2.0		0.5 6.5	1.0 13.0	2.0 26.0		16.0		4.0 63.5
	SUB TASK TOTAL FEE		\$460.00		\$1,137.50	\$2,080.00	\$3,640.00		\$1,600.00		\$8,917.50
	TASK 3 TOTAL HOURS TASK 3 TOTAL FEE	10.0 \$2,450.00	6.0 \$1,380.00	9.0 \$1,935.00	34.5 \$6,037.50	81.0 \$12,960.00	114.0 \$15,960.00	64.0 \$8,000.00	16.0 \$1,600.00		334.5 \$50,322.50
TASK 4 - PLAN PREPARATION (PS&E)		\$2,450.00	\$1,360.00	\$1,935.00	\$6,037.50	\$12,900.00	\$15,960.00	\$6,000.00	\$1,600.00		\$50,322.50
4.a	Preliminary Engineering  Coordination w/Utility Companies Locating Underground Utilities (only marking path)				1.0		4.0				5.0
	Field Visit/Field Observation/Data Collection	4.0	4.0		12.0	24.0	24.0				68.0
	Develop Preliminary Design  Meet w/TxDOT/City PMs to Review	4.0	8.0		12.0 12.0	40.0 12.0	40.0 4.0				104.0 28.0
	Revise to address comments (if necessary)				2.0	4.0	8.0				14.0
4.b	Technical Specifications (BBU, ILSN, Traffic Signal Indications, APS)  Design Engineering	2.0			8.0	8.0	16.0				34.0
	Existing Intersection Layout Sheet (No Surveying-15 intersections)	2.0	2.0		1.0	30.0	120.0		120.0		275.0
	Existing Utilities (at intersections) Level "C" SUE Existing Traffic Signal Layouts	2.0 0.5	2.0		1.0	4.0 2.0	12.0 8.0		12.0 8.0		33.0 19.5
	Install Traffic Signal Pole/ 60 ft. Arm ( Wells Branch at Dessau)	0.0				1.0	4.0		4.0		9.0
	Proposed Drill Shaft ( 48 inch Dia and 22 ft Depth: Wells Branch at Dessau Lane )				1.0	2.0	4.0				7.0
	Proposed traffic signal heads (FYA) and signal wiring/ 16 signal indications at 5 intersections  Existing Signs and Pavement Markings Layout	2.0	1.0		1.0	4.0 8.0	10.0 12.0		10.0 12.0		28.0 34.0
	Eliminate Existing Pavement Markings and Marks (2880 LF of 12" & 24") at 5 intersections						6.0		6.0		
					1.0	2.0	32.0		32.0		15.0
	Proposed Reflective Pavement Markings (5200 LF) at 13 Intersections  Reflective Pavement Marking W/Bike Symbol (10)				2.0	4.0	1.0		1.0		70.0 2.0
	Proposed APS (Accessible Pedestrian Signal)-33 APS at 5 intersections				2.0	4.0	10.0		10.0		26.0
	Proposed ADA Compliant Curb Ramps (48 curb ramps at 8 intersections)  Proposed Concrete Sidewalk (1531 SY at 8 intersections)		2.0		1.0	2.0	64.0 32.0		64.0 32.0		133.0 68.0
	Proposed Concrete Curb & Gutter ( 2100 LF @ 5 intersections)				1.0	2.0	8.0		8.0		19.0
	Remove Concrete Curb & Gutter (336 LF at 7 intersections)  Conductor/Conduit/wiring tables				2.0	1.0 12.0	4.0 24.0		4.0 12.0		9.0 50.0
	Proposed pedestrian Standards, specifications & Details signal signal poles/buttons	0.5			4.0	8	8.0		2.0		22.5
	Proposed Wireless ITS Radio + Field Surveying for Installation at Optimal Location (8 radios at 8 intersections)				1.0	2.0	4.0				7.0
	Traffic Signal Controllers ( Programing/testing & assist w/field installation)	2.0	2.5		32.0	40.5	32.0				66.0
	MMU Upgrade at 6 intersection (Program & Install)  Remove Existing Concrete Sidewalk (1036 SY at 7 intersections)		2.0		16.0	16.0	2.0		2.0		34.0 4.0
	Proposed Battery Backup at 15 intersections					1.0	2.0		2.0		5.0
	Proposed ILSN Sign Layout (42 signs at 12 intersections)				2.0	1.0	8.0 2.0		8.0 12.0		19.0 14.0
	TASK 4 TOTAL HOURS	19.0	23.0		118.0	196.0	505.0		361.0		1222.0
	TASK 4 TOTAL FEE	\$4,655.00	\$5,290.00		\$20,650.00	\$31,360.00	\$70,700.00		\$36,100.00		\$ 168,755.00
TASK 5 - CONSTRUCTION PHASE SERVICES											
TASK 5 – CONSTRUCTION PHASE SERVICES 5.a	Construction Phase Services							1	l	1	
	Construction Phase Services Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work	4.0		4.0	16.0	8.0	24.0				56.0
	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work Field Visit During Construction to Assist with Appropriate Location of APS, Curb Ramps, Signal	4.0		4.0	16.0	8.0 8.0	24.0				56.0 28.0
	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work			4.0							
5.a	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work Field Visit During Construction to Assist with Appropriate Location of APS, Curb Ramps, Signal Foundation, and Signal Activation	4.0			8.0	8.0	8.0				28.0
5.a  TASK 6 – AS-BUILT DRAWINGS	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work Field Visit During Construction to Assist with Appropriate Location of APS, Curb Ramps, Signal Foundation, and Signal Activation TASK 5 TOTAL HOURS TASK 5 TOTAL FEE	4.0 8.0	20	4.0	8.0 24.0 \$4,200.00	8.0 16.0 \$2,560.00	8.0 32.0 \$4,480.00		16.0		28.0 84.0 \$14,060.00
5.a	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work Field Visit During Construction to Assist with Appropriate Location of APS, Curb Ramps, Signal Foundation, and Signal Activation TASK 5 TOTAL HOURS TASK 5 TOTAL FEE  Develop As-Built Drawings Based on Construction TASK 6 TOTAL HOURS	4.0 8.0	2.0 2.0	4.0	8.0 24.0 \$4,200.00 2.0 2.0	8.0 16.0 \$2,560.00 2.0 2.0	8.0 32.0 \$4,480.00 16.0		16.0 16.0		28.0 84.0 \$14,060.00 38.0 38.0
5.a  TASK 6 – AS-BUILT DRAWINGS  6.a	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work Field Visit During Construction to Assist with Appropriate Location of APS, Curb Ramps, Signal Foundation, and Signal Activation TASK 5 TOTAL HOURS TASK 5 TOTAL FEE  Develop As-Built Drawings Based on Construction TASK 6 TOTAL HOURS TASK 6 TOTAL HOURS TASK 6 TOTAL FEE	4.0 8.0		4.0	8.0 24.0 \$4,200.00	8.0 16.0 \$2,560.00	8.0 32.0 \$4,480.00				28.0 84.0 \$14,060.00
5.a TASK 6 – AS-BUILT DRAWINGS	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work Field Visit During Construction to Assist with Appropriate Location of APS, Curb Ramps, Signal Foundation, and Signal Activation TASK 5 TOTAL HOURS TASK 5 TOTAL HOURS TASK 5 TOTAL FEE Develop As-Built Drawings Based on Construction TASK 6 TOTAL HOURS TASK 6 TOTAL FEE PREPARATION OF PROJECT MANUAL Project Manual preparation	4.0 8.0 \$1,960.00	2.0 \$460 2.0	4.0 \$860.00	8.0 24.0 \$4,200.00 2.0 2.0 \$350	8.0 16.0 \$2,560.00 2.0 2.0 \$320	8.0 32.0 \$4,480.00 16.0 16.0 \$2,240		16.0		28.0 84.0 \$14,060.00 38.0 38.0 \$4,970.00
5.a  TASK 6 – AS-BUILT DRAWINGS 6.a  TASK 7 – PROJECT MANUAL	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work Field Visit During Construction to Assist with Appropriate Location of APS, Curb Ramps, Signal Foundation, and Signal Activation TASK 5 TOTAL HOURS TASK 5 TOTAL FEE  Develop As-Built Drawings Based on Construction TASK 6 TOTAL HOURS TASK 6 TOTAL HOURS TASK 6 TOTAL FEE PREPARATION OF PROJECT MANUAL Project Manual preparation TASK 7 TOTAL HOURS (Task 2,3,4,5,6,7)	4.0 8.0 \$1,960.00	2.0 \$460	4.0 \$860.00	24.0 \$4,200.00 2.0 2.0 \$350	8.0 16.0 \$2,560.00 2.0 2.0 \$320	8.0 32.0 \$4,480.00 16.0 16.0 \$2,240		16.0		28.0 84.0 \$14,060.00 38.0 38.0 \$4,970.00
5.a  TASK 6 – AS-BUILT DRAWINGS 6.a  TASK 7 – PROJECT MANUAL	Bid Phase Services Review Submittals, Shop Drawings, Schedules of Work Field Visit During Construction to Assist with Appropriate Location of APS, Curb Ramps, Signal Foundation, and Signal Activation TASK 5 TOTAL HOURS TASK 5 TOTAL HOURS TASK 5 TOTAL FEE Develop As-Built Drawings Based on Construction TASK 6 TOTAL HOURS TASK 6 TOTAL FEE PREPARATION OF PROJECT MANUAL Project Manual preparation	8.0 \$1,960.00 8.0 8.0 8.0 \$1,960	2.0 \$460 2.0 2.0	4.0 \$860.00	8.0 24.0 \$4,200.00 2.0 2.0 \$350 40.0 40.0	8.0 16.0 \$2,560.00 2.0 2.0 \$320 0.0	8.0 32.0 \$4,480.00 16.0 16.0 \$2,240 40.0 40.0	64.0	16.0	16.0	28.0 84.0 \$14,060.00 38.0 38.0 \$4,970.00 90.0 90.0