

**PROFESSIONAL SERVICES
SUPPLEMENTAL AGREEMENT # 2
FOR
2019 PFLUGERVILLE TRANSPORTATION BOND PROJECTS:
PICADILLY DRIVE
ROYSTON LANE
CENTRAL COMMERCE DRIVE**

**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 Half Associates, 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 on the 14th day of June, 2019 for the 2019 Pflugerville Transportation Bond Project BUILD Application in the amount of \$ 39,810.00 ; and

WHEREAS, the City and Consultant executed Supplemental Agreement #1 Services on the 9th day of July, 2019 to add Schematic professional design services in the amount of \$ 353,677.00 to the Project; and

WHEREAS, the City and Consultant desire to enter into a Supplemental Agreement # 2 for Professional Services for the Project in the amount of \$ 648,955.00, on the of January, 2020 to add final construction documentation preparation to the Agreement; and

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

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

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

I.

Article II. Term shall be amended by changing the term of the Agreement to terminate on July 5, 2020, with the ratification and incorporation of the remaining terms of the Agreement.

Article III. Scope of Services and Exhibit A, shall be amended as set forth in the attached addendum to Exhibit A.

Article III. Work Schedule and Exhibit A, shall be amended as set forth in the attached addendum to Exhibit A.

Article IV. Compensation to Consultant and Exhibit A (Fee Schedule), shall be amended by increasing by \$648,955.00 the amount payable under the Agreement for a total of \$ 1,042,442.00, as shown by the attached Addendum to Exhibit A (Fee Schedule).

2.

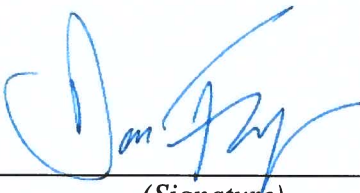
Except as amended hereby and as previously amended as indicated above, the terms of the Agreement shall remain unchanged and in full force and effect.

EXECUTED and AGREED to as of the dates indicated below.

**CITY OF
PFLUGERVILLE**

CONSULTANT

(Signature)



(Signature)

Printed Name: Sereniah Breland

Printed Name: Dan Franz

Title: City Manager

Title: Public Works Director

Date: _____

Date: 1/17/2020

APPROVED AS TO FORM:



Charles E. Zech
City Attorney

DENTON NAVARRO ROCHA BERNAL & ZECH, P.C.

PROPOSED PROJECT DESCRIPTION/SCOPE OF SUPPLEMENT
SERVICE #2 FOR THE 2019 PFLUGERVILLE
TRANSPORTATION BOND PROJECTS:
PICADILLY DRIVE
ROYSTON LANE
CENTRAL COMMERCE DRIVE
CITY OF PFLUGERVILLE, TEXAS

PROJECT DESCRIPTION

Herein is Supplement #2 is to the existing schematic design agreement executed with the City of Pflugerville on July 9, 2019. This proposed Scope of Services delineates the items that Half Associates, Inc. (Engineer) will provide to the City of Pflugerville (City) for the project development of three roadways as part of the 2019 Pflugerville Transportation Bond program. These three roadways are Picadilly Drive (Central Commerce to IH35 frontage road), Royston Lane (Grand Avenue Parkway to Central Commerce) and Central Commerce (City limits to Picadilly Drive). Engineer previously prepared Preliminary Design Schematics for each of the roadways, preliminary geotechnical, Subsurface Utility Engineering (SUE) and provided environmental services, for the City. The next phase of the project consists of development of construction Plans, Specifications and Estimates (PS&E) and other ancillary design services for Picadilly Drive, Central Commerce, and Royston Lane (Project). The project is expected to receive federal grant funding for construction. The services are separated into the following Tasks and described in more detail below:

- Task 1: Project Management and Coordination**
- Task 2: Subsurface Utility Engineering**
- Task 3: Construction Documents**
- Task 4: Public Involvement**
- Task 5: Permitting**

TASK 1: PROJECT MANAGEMENT & COORDINATION

1.1 Progress Meetings, Reports, and Monthly Invoicing

For the work performed, Engineer will prepare Monthly Invoices billed as a percentage complete per task and Progress Reports. These Reports will include:

- Tasks completed during the reporting period
- Tasks planned for upcoming periods.
- Issues encountered and recommended actions to address them.
- Overall Project status and development progress, including a tabulation of Tasks showing percentage complete, and supporting documentation

- Engineer will provide meeting minutes for City meetings anticipated at milestone submission and any TxDOT or Travis County meeting which the Engineer attends for permitting of the project.
- Engineer will prepare a design schedule and associated updates. Updates to the schedule may be a result of review time by the City, TxDOT, or other jurisdictional entity.
- Engineer will attend monthly progress meetings with City Staff to go over the design processes, schedule and deliverable for the project.

1.2 Coordination and administration of work products

- Coordination - Engineer shall designate one Texas Registered Professional Engineer as the Project Manager responsible for Project management, coordination, and communications.
- Administration - Engineer will manage Project activities (including subconsultants), direct the project team/staff, attend meetings with City staff, handle deliverables, and keep records of project communications / files.

Task 1 Deliverables:

- **Monthly progress reports and invoices**

TASK 2: SUBSURFACE UTILITY ENGINEERING

2.1 Utility Coordination

- Review project design information for existing and potential utility conflicts
- Identify potential conflicts on plan sheets
- Provide conflict information to utility companies
- Review relocation plans provided by utilities
- Document confirmation from the utility upon completion of relocation
- Attend one (1) utility meeting with the City of Pflugerville

2.2 Subsurface Pot Holing (Vacuum Excavation)

- Provide up to six (6) SUE quality level 'A' test holes at locations of potential conflict to be identified through the design process

Task 2 Deliverables:

- **Utility Conflict Analysis Spreadsheet,**
- **SUE Test Hole data sheets**

TASK 3: CONSTRUCTION DOCUMENTS

Design shall be in accordance with the TxDOT Roadway Design Manual and Pflugerville Engineering Design Guidelines with respect to drainage design. The scope of the project will consist of pavement reconstruction with curb and gutter, curb ramps, driveways, and sidewalks; proposed underground drainage systems; roadway streetlighting, erosion and

sediment control, traffic control, and construction details. Deliverables are anticipated to be 60%, 90%, and Bid sets of construction plans. It is anticipated that construction will be phased to allow one way traffic for each of the identified roadways.

3.1.1 Roadway Plans

Roadway widening plans with improved subgrade based on geotechnical recommendations; plans will include proposed pavement type with curb and gutter, and sidewalks for all three roads. Plans will include:

- Roadway plan and profiles
- Driveway plan and profiles
- Removal/demolition plans
- Erosion & Sediment Control plans
- Typical Sections showing pavement widths, pavement sections, curb and gutter, sidewalk, cross-slope, side slopes, right-of-way and construction limits.
- Cross sections at 50-foot intervals showing existing ground and proposed conditions
- Lighting plans showing light pole foundations, conduits and pull boxes per ONCOR details. Light standards and electrical will be by ONCOR.

3.1.2 Drainage Design

Drainage design shall be in accordance with the City of Pflugerville Drainage Engineering Design Guidelines using Geopak Drainage Design Software. The Project is anticipated to include one TCEQ storm water quality improvement for each identified roadway as referenced in the City prepared BUILD application for the Project. Construction Plans will include:

- Existing and Proposed Drainage area maps
- Hydraulic Calculation Sheet including Runoff, Inlet, and conveyance calculations
- Plan and profile for proposed storm trunk mains and laterals
- Ditch design and calculations
- Stormtrooper (or TCEQ approved equal) water quality design

Cross Culvert Design :

- Culvert size and hydraulic calculations
- Culvert plan and profile

Parallel Culvert Design (Royston Lane):

- Existing and proposed drainage area map
- Culvert size and hydraulic calculations for parallel system along Royston
- Culvert plan and profile

3.1.3 Pavement Marking and Signage Layout

Design will be in accordance with the TxMUTCD. Plans will include:

- Pavement marking plan for the limits of the project to delineate the proposed widening with center two-way left-turn lane.

- Proposed signs locations and/or existing sign relocations.
- 3.1.4 Traffic Control Plans
- Narrative for each stage
 - TCP typical sections
 - Advanced warning sign plan
 - TCP plan sheets (to be based on one-way traffic sequencing)
- 3.1.5 Standard Detail Sheets
- Select and include the appropriate TxDOT and city standard detail sheets in bid set.
- 3.1.6 Quantity Tabulations and Preliminary Cost Estimate
- Tabulate bid quantities for estimates, summary sheets, and bid form
- 3.1.7 Project Manual, Bid Form, and Specifications
- Prepare bid manual using TxDOT and City specifications as appropriate (no special specifications are anticipated)
- 3.1.8 TDLR Project Registration and RAS review
- Coordinate with the Registered Accessibility Specialist (RAS) reviewer to register the project with the Texas Department of Licensing and Regulation (TDLR) and obtain a plan review by the RAS

Task 3 Deliverables:

- **60% PS&E (11x17 plan sheets), Estimate & Draft Manual**
- **90% PS&E (11x17 plan sheets), Project Manual and updated Estimate**
- **Final Bid Set (11x17 plan sheets), Project Manual and Final Engineer's Estimate**

TASK 4: PUBLIC INVOLVEMENT

4.1 Public Meetings

- Attend one (1) City of Pflugerville Public meeting for City staff support nearing time of bid
- Halfff will provide up to four (4) color exhibits for use at the Public Meetings

TASK 5: PERMITTING

Engineer will support the City on coordination efforts with TxDOT and Travis County for the proposed roadway improvements and their connection to outside jurisdictional facilities. For the purposes of this scope, Engineer will include two (2) coordination meetings with the City and preparation of any exhibits affiliated with said meetings.

ITEMS EXCLUDED FROM THE SCOPE OF SERVICES

1. Design of public and franchised utility relocations.
2. Bid and construction administrative services.
3. Geotechnical services.
4. Survey Control.
5. Right-of-Way verification.
6. Storm Water Pollution Prevention Plan (SWPPP)
7. Public meetings other than those specified in this proposal.
8. Design of water quality or detention ponds.
9. Property acquisition or negotiations.
10. Preparing property parcels for acquisition
11. Filing fees, permit fees.
12. Bridge design.
13. Photometric illumination layout.
14. Traffic Signal Warrants, Analysis or Design
15. Design, analysis and preparation of profiles for any utilities or storm drain facilities outside of elements listed in this proposal.
16. Design of landscaping, irrigation, or hardscape (enhanced flatwork) facilities.
17. Technical reports for the following: carbon monoxide (CO) Traffic Air Quality Analysis (TAQA), mobile source air toxics (MSAT) analysis, traffic noise analysis, Section 4(f)/6(f) impacts analysis, indirect and cumulative impacts, and public involvement documentation.
18. Effort to obtain right-of-entry from public or private landowners to allow for the completion of environmental services.
19. Threatened or endangered species surveys, preparation of a Biological Assessment or consultation with the USFWS for a Biological Opinion under the Endangered Species Act.
20. Preparation of a U.S. Army Corps of Engineers (USACE) Section 404 permit application, Preconstruction Notification (PCN), or mitigation plan.
21. Effort to obtain an Antiquities Permit from the THC, preparation of a Historical Studies research design, performing a reconnaissance survey or intensive surveys (i.e., on the ground or archival research for historic structures/districts and shovel testing/deep trenching for archeological sites), evaluation of National Register of Historic Places (NRHP) eligibility for any resources, evaluation of effects on NRHP-eligible or -listed sites, development of mitigation plans, or Section 4(f) evaluations.
22. Phase I Environmental Site Assessments performed in accordance with applicable American Society for Testing and Materials (ASTM) standards or any surveys/investigations involving sampling and laboratory analysis (e.g., hazardous materials sampling and analysis, asbestos surveys, and lead-based paint surveys).
23. Preparation of additional resource reports not explicitly identified herein.

24. Preparation of an Environmental Assessment (EA).
25. Preparation of an Environmental Impact Statement (EIS).
26. Preparation, submission, and attendance of a Design Summary Report (DSR) and Design Concept Conference.

Any additional services required beyond those specifically identified in this proposal are excluded from the scope of services to be provided under this agreement. A scope and commensurate fee for any required additional services would be negotiated and provided under a separate supplemental agreement.

**Supplement #2
Pflugerville Bond Projects**

Fee Proposal

City of Pflugerville

PROJECT TASK	PROJECT MANAGER	PROJECT ENGR III (PE)	PROJECT ENGR I (PE)	EIT	CADD/GIS TECH II	CADD/GIS TECH I	SUE MGR	UTILITY COORDINATOR	CONTRACT ADMIN	EXPENSES	TOTALS
2019 TRANSPORTATION BOND PROJECTS											
Project Management											
Progress meetings, Reports, and Monthly Invoicing	6	16							7		\$4,745
Coordination and administration of work products	10	16									\$5,050
Review/ coordination meetings (1)	39	39									\$15,600
Coordination and support with outside agencies	4	6									\$1,950
Subtotal	59	77	0	0	0	0	0	0	7	\$ -	\$27,345
SUE											
Picadilly											
Utility Coordination			12		12		8	56	2		\$13,510
QL-A Pot Holing										\$ 2,700.00	\$2,700
Certified Traffic Control (By Others)										\$ 1,500.00	\$1,500
Royston											
Utility Coordination			12		12		8	56	2		\$13,510
QL-A Pot Holing										\$ 2,700.00	\$2,700
Certified Traffic Control (By Others)										\$ 1,500.00	\$1,500
Central Commerce											
Utility Coordination			10		12		8	40	2		\$10,720
QL-A Pot Holing										\$ 2,700.00	\$2,700
Certified Traffic Control (By Others)										\$ 1,500.00	\$1,500
Subtotal	0	0	34	0	36	0	24	152	6	\$ 12,600.00	\$50,340
FINAL DESIGN											
Picadilly											
Roadway Horizontal- Picadilly	2	6		20		10					\$4,450
P&P- Picadilly	8	40		80		100					\$25,700
Driveway profiles - Picadilly	8	24		40		60					\$15,300
Typical Sections - Picadilly	4	12		24		24					\$7,560
Traffic Control Plan - Picadilly	10	40		64		60					\$21,070
Storm Design - Picadilly	16	40		80		80					\$25,800
Water Quality Design	4	24		40		24					\$11,340
Signing and Striping - Picadilly	4	12		24		40					\$8,920
Removal Plan - Picadilly	6	12		24		56					\$10,730
Erosion Control Plan - Picadilly	6	12		24		56					\$10,730
Cross Sections - Picadilly	6	24		40		80					\$16,550
Project Manual, Details and Specifications - Picadilly	3	12		24							\$5,295
Quantities and Cost Estimate - Picadilly	8	24		40							\$10,200
Royston											
Roadway Horizontal- Royston Lane	2	6		20		10					\$4,450
P&P- Royston	8	40		80		100					\$25,700
Driveway profiles - Royston	8	24		40		60					\$15,300
Typical Sections - Royston	4	12		24		24					\$7,560
Traffic Control Plan - Royston	10	40		64		80					\$22,770
Water Quality Design	4	24		40		24					\$11,340
Storm Design - Royston	16	40		80		80					\$25,800
Parallel Storm Design - Royston	4	40		80		80					\$23,100
Signing and Striping - Royston	4	12		24		40					\$8,920
Removal Plan - Royston	6	12		24		56					\$10,730
Erosion Control Plan - Royston	6	12		24		56					\$10,730
Cross Sections - Royston	6	24		40		80					\$16,550
Project Manual, Details and Specifications - Royston	3	12		24							\$5,295
Quantities and Cost Estimate - Royston	8	24		40							\$10,200
Central Commerce											
Roadway Horizontal- Central Commerce	2	16		20		10					\$6,200
P&P- Central Commerce	8	40		80		100					\$25,700
Driveway profiles - Central Commerce	8	24		40		60					\$15,300
Typical Sections - Central Commerce	4	12		24		24					\$7,560
Traffic Control Plan - Central Commerce	10	40		64		80					\$22,770
Water Quality Design	4	24		40		24					\$11,340
Storm Design - Central Commerce	16	40		80		80					\$25,800
Signing and Striping - Central Commerce	4	12		24		40					\$8,920
Removal Plan - Central Commerce	6	12		24		56					\$10,730

PROJECT TASK	PROJECT MANAGER	PROJECT ENGR III (PE)	PROJECT ENGR I (PE)	EIT	CADD/GIS TECH II	CADD/GIS TECH I	SUE MGR	UTILITY COORDINATOR	CONTRACT ADMIN	EXPENSES	TOTALS
Erosion Control Plan - Central Commerce	6	12		24		56					\$10,730
Cross Sections - Central Commerce	6	24		40		80					\$16,550
Project Manual, Details and Specifications - Central Commerce	3	12		24							\$5,295
Quantities and Cost Estimate - Central Commerce	8	24		40							\$10,200
TDLR and RAS Review										\$ 10,000.00	\$10,000
Subtotal	259	896	0	1652	0	1890	0	0	0	\$ 10,000.00	\$559,185
PUBLIC INVOLVEMENT											
Public Meeting (1)	4	8		4							\$2,720
Exhibit Preparation	1	2		8		16					\$2,775
Subtotal	5	10	0	12	0	16	0	0	0	\$ -	\$5,495
PERMITTING											
City assistance and meetings attendance (2)	8	10		16		16					\$6,590
Subtotal	8	10	0	16	0	16	0	0	0	\$ -	\$6,590
TOTAL HOURS	331	993	34	1680	36	1922	24	152	13	22600	27,785
PERCENT OF TOTAL LABOR (hours)	1%	4%	0%	6%	0%	7%	0%	1%	0%	81%	100%
TOTAL ESTIMATED FEE	\$ 74,475.00	\$ 173,775.00	\$ 5,270.00	\$ 176,400.00	\$ 3,240.00	\$ 163,370.00	\$ 5,160.00	\$ 23,560.00	\$ 1,105.00	\$ 22,600.00	\$648,955
HOURLY RATES										\$ 1.00	

2019 Pflugerville Trans. Bond Projects

PROPOSED DESIGN SCHEDULE

CITY OF PFLUGERVILLE

PROJECT: PICADILLY, ROYSTON, CENTRAL COMMERCE PROJECT DEVELOPMENT SCHEDULE

PROJECT TASKS	2020												2021				
	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
NTP (Early Jan. 2020)		↓															
Project Management																	
SUE																	
Subsurface Pot Holing																	
Utility Conflict Analysis																	
Environmental																	
Construction Documents																	
60% PS&E Plan Development																	
60% QAQC																	
60% PS&E To City																	
60% PS&E City Review																	
90% PS&E Plan Development																	
90% QAQC																	
90% PS&E To City																	
90% PS&E City Review																	
Final Bid Set Development																	
Bid Set QAQC																	
Bid Set to City																	
Bid Set City Review																	
Permitting																	