

STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

**SECOND AMENDMENT TO AGREEMENT FOR
PROFESSIONAL ENGINEERING SERVICES**

THIS SECOND AMENDMENT, is made and entered into by and between Fort Bend County (hereinafter “County”), a body corporate and politic under the laws of the State of Texas, and LJA Engineering, Inc., (hereinafter “Contractor”), a company authorized to conduct business in the State of Texas.

WHEREAS, the parties executed and accepted that certain Agreement for Professional Engineering Services on May 25, 2021 pursuant to SOQ 14-025, which was subsequently amended on or about September 13, 2022, (collectively referred to hereinafter as the “Agreement”); and

WHEREAS, the parties desire to amend the Agreement to allow Contractor to provide additional Services under the Agreement.

NOW, THEREFORE, the parties do mutually agree as follows:

1. County shall pay Contractor an additional amount not to exceed two hundred sixty-three thousand six hundred ninety dollars and 00/100 cents (\$263,690.00) to perform the additional Services, as described in Contractor’s proposal dated February 16, 2023, attached hereto as Exhibit “A-2” and incorporated herein for all purposes.
2. The Maximum Compensation payable to Contractor for all Services rendered is hereby increased to an amount not to exceed two million seventy-five thousand eighty-eight dollars and 06/100 (\$2,075,088.06), authorized as follows:
 - \$1,286,275.81 under the Agreement; and
 - \$ 525,122.25 under the First Amendment; and
 - \$ 263,690.00 under the Second Amendment.
3. In no case shall the amount paid by County for all Services under the Agreement and this Amendment exceed the Maximum Compensation without an agreement executed by the parties.
4. BY ACCEPTANCE OF AGREEMENT, CONTRACTOR ACKNOWLEDGES THAT THE COUNTY IS OPPOSED TO HUMAN TRAFFICKING AND THAT NO COUNTY FUNDS

WILL BE USED IN SUPPORT OF SERVICES OR ACTIVITIES THAT VIOLATE HUMAN TRAFFICKING LAWS.

Except as provided herein, all terms and conditions of the Agreement shall remain unchanged.

IN WITNESS WHEREOF, the parties hereto have signed or have caused their respective names to be signed to multiple counterparts to be effective on the date signed by the final party.

FORT BEND COUNTY

LJA ENGINEERING, INC.

KP George, County Judge



Authorized Agent – Signature

Date

Chris Cotter, PE

Authorized Agent – Printed Name

ATTEST:

Senior Vice President

Title

Laura Richard, County Clerk

05/02/2023

Date

APPROVED:



J. Stacy Slawinski, P.E., County Engineer

APPROVED AS TO LEGAL FORM:



LaNetra S. Lary, Assistant County Attorney
Chief, General Counsel Division

AUDITOR'S CERTIFICATE

I hereby certify that funds are available in the amount of \$ _____ to accomplish and pay the obligation of Fort Bend County under this contract.

Robert Ed Sturdivant, County Auditor

I:\AGREEMENTS\2023 Agreements\Engineering\LJA - Bowser Rd. (21-ENG-100723-A2)\Amend 2 - Pro Eng Svcs.LJA.docx (LSL 4/27/2023)

EXHIBIT A-2

February 16, 2023

PROPOSAL

Fort Bend County Engineering
c/o Mr. Mark Dessens, PE
Schaumburg & Polk, Inc.
11767 Katy Freeway, Suite 900
Houston, Texas 77079

Re: Bowser Road Widening Project No. 20306
LJA Job No. 1704-2101

Dear Mr. Dessens:

LJA Engineering, Inc. (LJA) is pleased to submit this proposal for additional services to complete this project. The supplemental number 2 will cover changing the typical section from a 3-lane concrete curb and gutter section to a 2-lane roadway with shoulders and open ditch drainage.

Our lump sum additional compensation required for professional services associated with the contract for the completion of the final design for this project is \$263,690.00. A summarized breakdown of our team's fees is tabulated in our attached level of effort.

SCHEDULE

We propose the following revised schedule:

- 75% Submittal – 7/14/2023
- 75% Submittal Review – 1 Month (7/14/2023 – 8/14/2023)
- 100% Submittal – 11/10/2023

LJA appreciates the opportunity to continue working with Fort Bend County on this critical infrastructure project. If you have any questions regarding this proposal, please contact me at 713.391.7966 or by email at JRBaker@LJA.com.

Sincerely,



James R. Baker, PE
Vice President

JB/pa

Attachment: A, B,

ATTACHMENT A SCOPE OF SERVICES

The scope of additional work for final design for the widening of Bowser Rd from FM 1093 to the intersection with Winding Stream Drive will include the following items on a lump sum basis:

- I. Roadway Design
 - a. Revise horizontal alignment and prepare alignment plan sheets.
 - b. Revise and proposed typical section sheets for Bowser Rd.
 - c. Revise Plan and Profile Plan sheets at 1"=40' scale for Bowser Rd and Pool Hill.
 - d. Revise Intersection Layouts for Fulshear Farms, Winding Stream, and other intersecting streets.
 - e. Revise OpenRoads model, cross sections, and cut/fill quantities.
 - f. Additional Plan preparation:
 - i. Revise Calculation of Quantities
 - ii. Revise Project Layout
 - iii. Revise Driveway Summary
- II. Drainage Analysis and Design
 - a. Hydrologic studies
 - i. Update Design methodologies
 - ii. Revise design and check flows
 - iii. Consider pre- and revised post-construction conditions.
 - iv. Revise Detention requirements
 - v. Revise SWMM model
 - vi. Revise Drainage report
 - b. Cross drainage structures
 - i. Revise drainage areas.
 - ii. Reanalyze and size cross drainage structures.
 - c. Revise Temporary drainage facilities
 - d. PS&E development
 - i. Revise Summary of Quantities
 - ii. Revise Hydrologic Data Sheets
 - iii. Revise Hydraulic Data Sheets
 - iv. Revise Culvert Layouts
 - v. Revise Bowser NB Storm on Roadway P&P
 - vi. Revise Bowser SB Storm on Roadway P&P
 - vii. Revise Ditch Design
 - viii. Revise Culvert Cross Sections
 - ix. Identify utility conflicts.
- III. Signing, Pavement Markings & Signalization
 - a. Revise Signing and marking layouts
- IV. Miscellaneous PS&E Requirements
 - a. Traffic Control Plan, Detours and Sequence of Construction
 - i. Warning sign layout.
 - ii. Revise Overall phasing plan.
 - iii. Revise Construction sequence and narrative

- iv. Traffic Control Plan (TCP)
 - 1. Revise TCP Typical Sections – Bowser/Pool Hill Ph 1
 - 2. Revise TCP Layouts - Bowser/Pool Hill Ph 1
 - 3. Revise TCP Typical Sections – Bowser/Pool Hill Ph 2
 - 4. Revise TCP Layouts - Bowser/Pool Hill Ph 2
 - 5. Revise TCP Typical Sections – Bowser/Pool Hill Ph 3
 - 6. Revise TCP Layouts - Bowser/Pool Hill Ph 3
 - 7. Revise TCP summary of quantities
- b. Storm Water Pollution Prevention
 - i. Revise SW3P Sheets
- c. Compute and tabulate quantities
- d. Estimate of Construction Costs and Bid Tabulation

ATTACHMENT B-FEE SCHEDULE (LJA Engineering, Inc.)

PRIME PROVIDER NAME: LJA Engineering, Inc.

PROJECT NAME/CSJ: Bowser rd Widening

TASK DESCRIPTION	PROJECT DIRECTOR	SENIOR PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS
ROADWAY DESIGN CONTROLS (FC160)						
A. ROADWAY DESIGN						
1. REVISE HORIZONTAL ALIGNMENT DATA SHEET	1	2	2	8		13
B. TYPICAL SECTIONS						
1. EXISTING TYPICAL SECTIONS						0
2. REVISE PROPOSED TYPICAL SECTIONS	1	4	12	24		41
C. PLAN PROFILES						
1. REVISE BOWSER (1"=40')	4	24	90	300		418
2. REVISE POOL HILL (1"=40')	1	4	4	16		25
3. FM 1093 (1"=40')						0
D. INTERSECTIONS / CROSS STREETS						
1. REVISE FULSHEAR FARMS (1"=40')	1	1	2	6		10
2. REVISE WINDING STREAM (1"=40')	1	1	2	6		10
3. MISC (1"=40')						0
4. REVISE INTERSECTION LAYOUTS (1"=40')	1	8	24	36		69
E. REVISE CUT AND FILL QUANTITIES (100' INTERVALS) (UPDATE 3D MODEL)	2	12	36	60		110
F. PLAN PREPARATION						
1. REVISE CALCULATED QUANTITIES	1	2	2	4		9
2. ROADWAY STANDARDS						0
3. TITLE SHEET						0
4. INDEX OF SHEETS						0
5. REVISE PROJECT LAYOUT	1	2	4	10		17
6. MISCELLANEOUS ROADWAY DETAILS						0
7. REVISE DRIVEWAY SUMMARY	2	2	4	34		42
HOURS SUB-TOTALS	16	62	182	504	0	764
TOTAL LABOR COSTS	\$4,800.00	\$15,190.00	\$30,940.00	\$60,480.00	\$0.00	\$111,410.00
SUBTOTAL (FC 160)						\$111,410.00

TASK DESCRIPTION	PROJECT DIRECTOR	SENIOR PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS
DRAINAGE (FC161)						
A. DATA COLLECTION / FIELD INVESTIGATION						0
B. REVIEW SURVEY DATA						0
C. MEET WITH STAKEHOLDERS						0
D. HYDROLOGIC STUDIES						
1. REVISE DESIGN METHODOLOGIES		1	1	2		4
2. REVISE COMPUTED DESIGN FLOWS		1	2	4		7
2. CONSIDER PRE AND REVISED POST CONSTRUCTION CONDITIONS	1	2	2	8		13
3. REVISE DETENTION REQUIREMENTS	1	2	8	8		19
3. REVISE SWMM MODEL	2	6	12	24		44
4. REVISE DRAINAGE REPORT	1	4	8	24	2	39
E. STORM DRAINS						
1. EVALUATE EXISTING CAPACITY						0
2. GEOPAK DRAINAGE MODELS						0
3. ANALYZE AND SIZE STORM SEWER SYSTEM						0
4. DETERMINE HYDRAULIC GRADE LINE						0
F. CROSS DRAINAGE STRUCTURES						

ATTACHMENT B-FEE SCHEDULE (LJA Engineering, Inc.)

PRIME PROVIDER NAME: LJA Engineering, Inc.

PROJECT NAME/CSJ: Bowser rd Widening

1. REVISE DELINEATED DRAINAGE AREAS	1	2	4	10		17
2. REANALYZE AND SIZE CROSS DRAINAGE STRUCTURES	1	2	10	16		29
G. REVISE TEMPORARY DRAINAGE FACILITIES(DUE TO TCP CHANGES)	1	2	4	6		13
H. PLANS, SPECIFICATIONS AND ESTIMATES (PS&E) DEVELOPMENT FOR HYDRAULICS						
1. REVISE SUMMARY OF QUANTITIES	1	1	2	6		10
2. REVISE HYDROLOGIC DATA SHEETS	1	1	2	10		14
3. REVISE HYDRAULIC DATA SHEETS	1	1	10	24		36
4. REVISE CULVERT LAYOUTS	1	1	12	24		38
5. REVISE BOWSER NB STORM P&P (SHOWN ON ROADWAY P&P'S)	1	1	12	16		30
6. REVISE BOWSER SB STORM P&P (SHOWN ON ROADWAY P&P'S)	1	1	12	16		30
7. POOL HILL STORM P&P (SHOWN ON ROADWAY P&P'S)						0
8. FM 1093 STORM P&P (SHOWN ON ROADWAY P&P'S)						0
9. LATERAL SHEETS (SHOWN ON ROADWAY P&P'S)						0
10. DETENTION POND LAYOUTS						0
11. DETENTION POND DETAILS						0
12. REVISE DITCH DESIGN	2	12	18	100		132
13. REVISE CULVERT CROSS SECTIONS	1	1	4	10		16
14. IDENTIFY LIMITS OF TRENCH EXCAVATION PROTECTION, SHORING , AND DEWATERING						0
15. DETAILS FOR NON-STANDARD INLETS, MANHOLES, AND JUNCTION BOXES						0
16. OUTLET PROTECTION / DETAILS						0
17. IDENTIFY UTILITY CONFLICTS (WITH NEW DITCH DESIGN)	1	2	4	8		15
18. DRAINAGE STANDARDS						0
19. MISCELLANEOUS DRAINAGE DETAILS						0
HOURS SUB-TOTALS	18	43	127	316	2	506
TOTAL LABOR COSTS	\$5,400.00	\$10,535.00	\$21,590.00	\$37,920.00	\$150.00	\$75,595.00
SUBTOTAL (FC 161)						\$75,595.00

TASK DESCRIPTION	PROJECT DIRECTOR	SENIOR PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS
SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (FC 162)						
A. SIGNING / PAVEMENT MARKING						
1. REVISE SIGNING AND MARKING LAYOUTS	2	12	48	120		182
2. SIGN DETAILS						0
3. SIGNING AND MARKING STANDARDS						0
HOURS SUB-TOTALS	2	12	48	120	0	182
TOTAL LABOR COSTS	\$600.00	\$2,940.00	\$8,160.00	\$14,400.00	\$0.00	\$26,100.00
SUBTOTAL (FC 162)						\$26,100.00

TASK DESCRIPTION	PROJECT DIRECTOR	SENIOR PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS
MISCELLANEOUS (ROADWAY) (FC 163)						
A. TRAFFIC CONTROL PLAN, DETOURS, SEQUENCE OF CONST						
1. ADVANCE WARNING SIGN LAYOUT						0
2. REVISE OVERALL PHASING LAYOUT	1	4	8	24		37
3. REVISE CONSTRUCTION SEQUENCE AND NARRATIVE	1	2	2	10		15
4. TRAFFIC CONTROL LAYOUTS						
a. REVISE TRAFFIC CONTROL TYPICAL SECTIONS - BOWSER/POOL HILL PHASE 1	1	1	2	6		10
b. REVISE TRAFFIC CONTROL PLAN LAYOUT - BOWSER/POOL HILL PHASE 1	1	2	12	50		65

ATTACHMENT B-FEE SCHEDULE (LJA Engineering, Inc.)

PRIME PROVIDER NAME: LJA Engineering, Inc.

PROJECT NAME/CSJ: Bowser rd Widening

c. REVISE TRAFFIC CONTROL TYPICAL SECTIONS - BOWSER/POOL HILL PHASE 2	1	1	2	6		10
d. REVISE TRAFFIC CONTROL PLAN LAYOUT - BOWSER/POOL HILL PHASE 2	1	2	12	50		65
c. REVISE TRAFFIC CONTROL TYPICAL SECTIONS - BOWSER/POOL HILL PHASE 3	1	1	2	6		10
d. REVISE TRAFFIC CONTROL PLAN LAYOUT - BOWSER/POOL HILL PHASE 3	1	2	12	50		65
k. TRAFFIC CONTROL TYPICAL SECTIONS - FM 1093 PHASE 1						0
l. TRAFFIC CONTROL PLAN LAYOUT - FM 1093 PHASE 1						0
k. TRAFFIC CONTROL TYPICAL SECTIONS - FM 1093 PHASE 2						0
l. TRAFFIC CONTROL PLAN LAYOUT - FM 1093 PHASE 2						0
5. REVISE TCP QUANTITIES	1	1	2	4		8
6. TCP STANDARDS						0
B. STORM WATER POLLUTION PREVENTION PLANS (SW3P)						
1. REVISE SW3P SHEETS	1	2	6	36		45
2. SW3P STANDARDS						0
C. COMPUTE AND TABULATE QUANTITIES	1	2	2	8		13
D. REVISE ESTIMATE (Excel spreadsheet)	1	1	2	8		12
E. SPECIFICATIONS AND GENERAL NOTES						0
HOURS SUB-TOTALS	12	21	64	258	0	355
TOTAL LABOR COSTS	\$3,600.00	\$5,145.00	\$10,880.00	\$30,960.00	\$0.00	\$50,585.00
SUBTOTAL (FC 163)						\$50,585.00

DESCRIPTION					TOTAL MH BY FC	TOTAL COST BY FC
ROUTE AND DESIGN STUDIES (FC 110)					0	\$0.00
RIGHT-OF-WAY DATA (FC 130)					0	\$0.00
MANAGING CONTRACTED / DONATED PE (FC 145)					0	\$0.00
DESIGN SURVEYS AND CONSTRUCTION SURVEYS (FC 150)					0	\$0.00
ROADWAY DESIGN CONTROLS (FC160)					764	\$111,410.00
DRAINAGE (FC161)					506	\$75,595.00
SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (FC 162)					182	\$26,100.00
MISCELLANEOUS (ROADWAY) (FC 163)					355	\$50,585.00

SUMMARY	
TOTAL COSTS FOR LJA ONLY	\$263,690.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR LJA ONLY	\$0.00
GRAND TOTAL LJA	\$263,690.00