

EXHIBIT 'A' –SCOPE OF SERVICES

**Dickey Road Water and Wastewater Amendment
W.O. #619.64**

PROJECT DESCRIPTION:

This proposal for contract amendment outlines additional services outside the scope of the initial contract dated February 22, 2019. Additional services will incorporate a revised storm drain alignment, full panel pavement replacement, approximately 1,599 linear feet of 6" water main replacement, and 990 linear feet of 8" wastewater main replacement. The additional services to be provided include development of preliminary and final construction plans and special specifications.

BASIC SERVICES:

A. Design Plans (70% Plan Resubmittal)

1. Revise 70% design plans to incorporate revised storm drain alignment, full panel pavement replacement, water main replacement, and wastewater main replacement.
2. Revised 70% design plans shall include the sheets specified in the original contract in addition to the following sheets at the engineering scale indicated:
 - Revised Demolition plan sheet.
 - Storm Drain realignment plan and profile sheets.
Scale 1" = 20' Horizontal; 1" = 5' Vertical
 - Water Main Replacement plan and profile sheets.
Scale 1" = 20' Horizontal; 1" = 5' Vertical
 - Wastewater main Replacement plan and profile sheets.
Scale 1" = 20' Horizontal; 1" = 5' Vertical
 - Revised pavement plan sheet.
Scale 1" = 20' Horizontal; 1" = 5' Vertical

Information required can be combined on sheets if the information can be clearly shown and is approved by OWNER's project manager.

3. Assemble draft OWNER's standard construction contract documents using CITY's current standard form and technical specifications for the project. A Technical Note will be provided for each contract pay item. the City's current standard form shall be used and modified to fit the proposed construction item.
4. Prepare final computations, construction notes, construction quantities and develop the 70% opinion of probable construction costs.

EXHIBIT A to Agreement between the
City of Grand Prairie, Texas (OWNER)
and Pacheco Koch LLC, (CONSULTANT)
for Consulting Services

5. Submit field notes and sketch for all required easements and temporary working easements.
6. Submit two (2) full sized 22"x34" set of 70% plans, one (1) set of draft construction contract documents, special conditions and 70% opinion of probable construction costs to the OWNER for review. Four (4) sets of half size (11"x17") plans and one (1) CD with a digital copy in pdf format will also be included with the 70% plan submittal.
7. Submit Plans to Utility companies for review and approval.

B. Design Plans (100% Plan Submittal)

1. Revise 70% design plans to include comments from the OWNER and Utilities.
2. 100% design plans shall include the sheets specified in the original contract in addition to the following sheets at the engineering scale indicated:
 - Water Main Replacement plan and profile sheets.
Scale 1" = 20' Horizontal; 1" = 5' Vertical
 - Wastewater main Replacement plan and profile sheets.
Scale 1" = 20' Horizontal; 1" = 5' VerticalInformation required can be combined on sheets if the information can be clearly shown and is approved by OWNER's project manager.
3. Submit two (2) full sized 22"x34" sets of 100% plans, one (1) set of construction contract documents and 100% opinion of probable construction costs for OWNER review. Four (4) sets of half size (11"x17") plans and one (1) CD with a digital copy in pdf format will also be included with the 100% plan submittal. Provide City with Bid Items in EXCEL format and Technical Notes in WORD.
4. Submit 100% design plans to Utility companies for approval/final comment.
5. Incorporate final OWNER and Utility review comments into the plans and construction contract documents to finalize construction plans for proposed improvements and submit 100% plans and OPCC to OWNER for use. CONSULTANT shall wait for Cities construction schedule to be determined.
6. Upon CITY issuance of construction award schedule, submit sample bid plans and specifications for CITY review and final comments. Upon request, submit bid schedule estimation using city standard Excel form.
7. Submit sealed cover sheet mylar on standard form for city signatures to incorporate with the final plan documents.
8. Finalize construction contract documents including OWNER standard specifications, special technical specifications and special conditions (if any).
9. Estimate of 100% design plan construction quantities and opinion of construction cost and bid plan opinion of construction costs.

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10. Submit to the OWNER the following, when directed:

- One (1) Full size set of fully signed and sealed Bid Plans and Sample bid book;
- Digital files of bidding documents including construction drawings and project manual (PDF and AUTOCAD);

ATTACHMENT A

DICKEY ROAD DRAINAGE IMPROVEMENTS
CITY OF GRAND PRAIRIE, TEXAS



7557 RAMBLER ROAD, SUITE 1400
DALLAS, TEXAS 75231-2388
PHONE: (972) 235-3031



KEY TO FEATURES



PROJECT_LIMITS

DATUM

NAD 1983 TEXAS STATE PLANE
NORTH CENTRAL ZONE FIPS 4202



0 200 400
Feet
1 inch = 400 feet

January 21, 2019

ATTACHMENT 'B' - COMPENSATION AND METHOD OF PAYMENT

**Dickey Road Drainage Improvements
W.O. #619.64**

COMPENSATION:

For all additional professional services included in EXHIBIT 'A', Scope of Services, the CONSULTANT shall be compensated a lump sum fee of \$ 50,485.00 as summarized below. Billing will be in accordance the Manhour Projection provided in Attachment B1 as the work is completed. The total lump sum fee shall be considered full compensation for the services described in EXHIBIT A, including all labor materials, supplies, and equipment necessary to deliver the services.

Basic Services:

A.	Project Management	
	Water Project Management	\$ 624.00
	Wastewater Project Management	\$ 681.00
B.	Preliminary Design (70% Submittal)	
	Preliminary Water Design	\$15,462.50
	Preliminary Wastewater Design	\$18,152.50
C.	Final Design (100% Submittal)	
	Final Water Design	\$ 6,475.00
	Final Wastewater Design	\$ 8,375.00
D.	Direct Expenses	
	Water Direct Expenses	\$ 343.00
	Wastewater Direct Expenses	\$ 373.00

TOTAL WATER DESIGN	\$ 22,904.50
TOTAL WASTEWATER DESIGN	\$ 27,581.50
TOTAL WATER & WASTEWATER DESIGN	\$ 50,486.00

METHOD OF PAYMENT:

The CONSULTANT shall be paid monthly payments as described in Article IV of the AGREEMENT. The cumulative sum of such monthly partial fee payments shall not exceed the total current project budget including all approved Amendments. Each invoice shall be verified as to its accuracy and compliance with the terms of this Agreement by an officer of the CONSULTANT.

Monthly statements for reimbursable services performed by sub consultants will be based upon the actual cost to the CONSULTANT plus ten percent (10%). Direct expenses for services such as printing, express mail, fees, mileage and other direct expenses that are incurred during the progress of the project will be billed at 1.1 times the CONSULTANT'S cost.

ATTACHMENT "B-1" - MANHOUR PROJECTION

ESTIMATE OF PROJECTED MAN HOUR/COSTS
Dickey Road Water & Wastewater Design Contract Amendment
W.O. #619.64

DICKEY ROAD DRAINAGE IMPROVEMENTS
City of Grand Prairie
July 24, 2019

1. BASIC SERVICES

A. Stakeholder Coordination	Principal		Associate		Project Manager		Project Engineer		CADD Tech.		Admin. Asst.		TOTAL	
	Rate	\$245.00	Rate	\$210.00	Rate	\$125.00	Rate	\$100.00	Rate	\$85.00	Rate	\$75.00		
	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost
70% City Review Meeting (Water)		\$ -	1.4	\$ 301.24	1.4	\$ 179.31	1.4	\$ 143.45		\$ -		\$ -	4.3	\$ 624.00
70% City Review Meeting (Wastewater)		\$ -	1.6	\$ 328.76	1.6	\$ 195.69	1.6	\$ 156.55		\$ -		\$ -	4.7	\$ 681.00
Subtotal	0.0	\$ -	3.0	\$ 630.00	3.0	\$ 375.00	3.0	\$ 300.00	0.0	\$ -	0.0	\$ -	9.0	\$ 1,305.00

B.1 Preliminary Water Construction Plans - 70% Submittal	Principal		Associate		Project Manager		Project Engineer		CADD Tech.		Admin. Asst.		TOTAL	
	Rate	\$245.00	Rate	\$210.00	Rate	\$125.00	Rate	\$100.00	Rate	\$85.00	Rate	\$75.00		
	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost
Revise Project Layout & Control Sheets		\$ -		\$ -	2.0	\$ 250.00	4.0	\$ 400.00		\$ -		\$ -	6.0	\$ 650.00
Revise Demolition Plan		\$ -		\$ -	2.0	\$ 250.00	4.0	\$ 400.00		\$ -		\$ -	6.0	\$ 650.00
Prepare Wastewater Utility Plan & Profile Sheets		\$ -	3.0	\$ 630.00	6.0	\$ 750.00	16.0	\$ 1,600.00		\$ -		\$ -	25.0	\$ 2,980.00
Prepare Water Utility Plan & Profile Sheets		\$ -	3.0	\$ 630.00	6.0	\$ 750.00	16.0	\$ 1,600.00		\$ -		\$ -	25.0	\$ 2,980.00
Revise Pavement Plans Sheets		\$ -	2.0	\$ 420.00	5.0	\$ 625.00	16.0	\$ 1,600.00		\$ -		\$ -	23.0	\$ 2,645.00
QA/QC Check	3.0	\$ 735.00	4.0	\$ 840.00	5.0	\$ 625.00	16.0	\$ 1,600.00		\$ -		\$ -	28.0	\$ 3,800.00
Prepare special standard constuction contract & special technical specs		\$ -	2.0	\$ 420.00	5.0	\$ 625.00	6.0	\$ 600.00		\$ -	1.5	\$ 112.50	14.5	\$ 1,757.50
Subtotal	3.0	\$ 735.00	14.0	\$ 2,940.00	31.0	\$ 3,875.00	78.0	\$ 7,800.00	0.0	\$ -	1.5	\$ 112.50	127.5	\$ 15,462.50

B.2 Preliminary Wastewater Construction Plans - 70% Submittal	Principal		Associate		Project Manager		Project Engineer		CADD Tech.		Admin. Asst.		TOTAL	
	Rate	\$245.00	Rate	\$210.00	Rate	\$125.00	Rate	\$100.00	Rate	\$85.00	Rate	\$75.00		
	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost
Revise Project Layout & Control Sheets		\$ -		\$ -	2.0	\$ 250.00	4.0	\$ 400.00		\$ -		\$ -	6.0	\$ 650.00
Revise Demolition Plan		\$ -		\$ -	2.0	\$ 250.00	4.0	\$ 400.00		\$ -		\$ -	6.0	\$ 650.00
Prepare Wastewater Utility Plan & Profile Sheets		\$ -	3.0	\$ 630.00	6.0	\$ 750.00	18.0	\$ 1,800.00		\$ -		\$ -	27.0	\$ 3,180.00
Prepare Water Utility Plan & Profile Sheets		\$ -	3.0	\$ 630.00	6.0	\$ 750.00	18.0	\$ 1,800.00		\$ -		\$ -	27.0	\$ 3,180.00
Revise Pavement Plans Sheets		\$ -	2.0	\$ 420.00	5.0	\$ 625.00	24.0	\$ 2,400.00		\$ -		\$ -	31.0	\$ 3,445.00
QA/QC Check	5.0	\$ 1,225.00	4.0	\$ 840.00	5.0	\$ 625.00	24.0	\$ 2,400.00		\$ -		\$ -	38.0	\$ 5,090.00
Prepare special standard constuction contract & special technical specs		\$ -	2.0	\$ 420.00	5.0	\$ 625.00	8.0	\$ 800.00		\$ -	1.5	\$ 112.50	16.5	\$ 1,957.50
Subtotal	5.0	\$ 1,225.00	14.0	\$ 2,940.00	31.0	\$ 3,875.00	100.0	\$ 10,000.00	0.0	\$ -	1.5	\$ 112.50	151.5	\$ 18,152.50

C.1 Final Water Construction Plans - 100% Submittal	Principal		Associate		Project Manager		Project Engineer		CADD Tech.		Admin. Asst.		TOTAL	
	Rate	\$245.00	Rate	\$210.00	Rate	\$125.00	Rate	\$100.00	Rate	\$85.00	Rate	\$75.00		
	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost
Revise Wastewater Utility Plan & Profile Sheets		\$ -	1.0	\$ 210.00	3.0	\$ 375.00	16.0	\$ 1,600.00		\$ -		\$ -	20.0	\$ 2,185.00
Revise Water Utility Plan & Profile Sheets		\$ -	1.0	\$ 210.00	3.0	\$ 375.00	16.0	\$ 1,600.00		\$ -		\$ -	20.0	\$ 2,185.00
QA/QC Check	1.0	\$ 245.00	1.0	\$ 210.00	6.0	\$ 750.00	9.0	\$ 900.00		\$ -		\$ -	17.0	\$ 2,105.00
Subtotal	1.0	\$ 245.00	3.0	\$ 630.00	12.0	\$ 1,500.00	41.0	\$ 4,100.00	0.0	\$ -	0.0	\$ -	57.0	\$ 6,475.00

C.2 Final Wastewater Construction Plans - 100% Submittal	Principal		Associate		Project Manager		Project Engineer		CADD Tech.		Admin. Asst.		TOTAL	
	Rate	\$245.00	Rate	\$210.00	Rate	\$125.00	Rate	\$100.00	Rate	\$85.00	Rate	\$75.00		
	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost	Hrs.	Cost
Revise Wastewater Utility Plan & Profile Sheets		\$ -	1.0	\$ 210.00	5.0	\$ 625.00	20.0	\$ 2,000.00		\$ -		\$ -	26.0	\$ 2,835.00
Revise Water Utility Plan & Profile Sheets		\$ -	1.0	\$ 210.00	5.0	\$ 625.00	20.0	\$ 2,000.00		\$ -		\$ -	26.0	\$ 2,835.00
QA/QC Check	1.0	\$ 245.00	1.0	\$ 210.00	6.0	\$ 750.00	15.0	\$ 1,500.00		\$ -		\$ -	23.0	\$ 2,705.00
Subtotal	1.0	\$ 245.00	3.0	\$ 630.00	16.0	\$ 2,000.00	55.0	\$ 5,500.00	0.0	\$ -	0.0	\$ -	75.0	\$ 8,375.00

D. Direct Expenses		TOTAL	
Mileage (Water)	4 trips @ 50 miles/trip \$0.55/mile) (48%)	\$	52.64
Mileage (Wastewater)	4 trips @ 50 miles/trip \$0.55/mile) (52%)	\$	57.37
Reproduction for City Review Submittals (Water)	2 - Sets 22" x 34" (60 Sheets) black line prints @ \$3/sheet & 4 - Sets 11" x 17" (60 Sheets) black line prints @ \$0.75/sheet (48%)	\$	258.39
Reproduction for City Review Submittals (Wastewater)	2 - Sets 22" x 34" (60 Sheets) black line prints @ \$3/sheet & 4 - Sets 11" x 17" (60 Sheets) black line prints @ \$0.75/sheet (52%)	\$	281.61
Reproduction for Bidding Documents (Water)	1 - Sets Bid Documents 8.5"x11" (200 Sheets) @ \$0.25/sheet (48%)	\$	23.93
Reproduction for Bidding Documents (Wastewater)	1 - Sets Bid Documents 8.5"x11" (200 Sheets) @ \$0.25/sheet (52%)	\$	26.08
Courier Delivery (Water)	1 regular courier deliveries @ \$16.00 (48%)	\$	7.66
Courier Delivery (Wastewater)	1 regular courier deliveries @ \$16.00 (52%)	\$	8.34
Subtotal		\$	716.00

TOTAL WATER DESIGN COST \$ 22,904.50
TOTAL WASTEWATER DESIGN COST \$ 27,581.50
TOTAL WATER & WASTEWATER DESIGN COST \$ 50,486.00

Note:

The costs under Section "A. Stakeholder Coordination", and Section "D. Direct Expenses", have been split between Water and Wastewater Design Cost totals at a ratio that roughly matches the ratio between the man-hour costs for the 70% and 100% design Phases, and the ratio between the total construction costs between the two parts of the projects. The Design Costs for these projects were additionally rounded to the nearest fifty cents.

**ATTACHMENT "C" - OPINION OF PROBABLE CONSTRUCTION COST
 WEST OF S.W. 3RD STREET
 W.O. #619.64**

Client Name: City of Grand Prairie
 Project Title: DICKEY ROAD STORM DRAIN IMPROVEMENTS

PK No.:4226-19.063
 Date: July 10, 2019

Bid No.	Bid Item Description	Units	Estimated Quantity	Unit Cost	Total Cost
SANITARY SEWER IMPROVEMENTS					
	Site Preparation		5%		\$ 13,200.00
	10" Sanitary Replacement	LF	990	\$ 90.00	\$ 89,100.00
	Sanitary Sewer Manhole	EA	13	\$ 5,000.00	\$ 65,000.00
	Full Panel Replacement	SY	675	\$ 120.00	\$ 81,000.00
	Encasements	EA	4	\$ 3,000.00	\$ 12,000.00
	Subtotal				\$ 260,300.00
	Contingency		10%		\$ 26,030.00
SANITARY SEWER TOTAL					\$ 286,330.00
WATER IMPROVEMENTS					
	Site Preparation		5%		\$ 16,500.00
	8" Water Replacement	LF	1599	\$ 75.00	\$ 119,925.00
	Full Panel Replacement	SY	1475	\$ 120.00	\$ 177,000.00
	Subtotal				\$ 313,425.00
	Contingency		10%		\$ 31,342.50
WATER TOTAL					\$ 344,767.50
STORM DRAIN IMPROVEMENTS					
	Site Preparation		12%		\$ 127,200.00
	Demo		1	\$ 14,525.00	\$ 14,525.00
	Partial Panel Replacement (from OPCC)		2057	\$ 120.00	\$ 246,840.00
	Additional Panel Replacement		1250	\$ 120.00	\$ 150,000.00
	General Items (-protect manholes)		1	\$ 11,285.00	\$ 11,285.00
	Storm Drain Improvements		1	\$ 564,090.00	\$ 564,090.00
	Erosion Control		1	\$ 7,800.00	\$ 7,800.00
	Subtotal				\$ 1,121,740.00
	Contingency		10%		\$ 112,174.00
STORM DRAIN TOTAL					\$ 1,233,914.00
TOTAL PROJECT COST					\$ 1,865,011.50

ATATCHMENT D – UPDATED SCHEDULE

**Dickey Road Drainage Improvements
W.O. #619.64**

Activity	Estimated Duration (weeks)	Estimated Completion After N.T.P.
Notice-To-Proceed		Aug 9, 2019
70% Design Plan and Bid Book Submittal	5	Sept 13, 2019
Owner 70% Review Complete	3	Oct 4, 2019
70% Design Plan Review Meeting	-	Oct 9, 2019
100% Design Plan and Bid Book Submittal	3	Nov 01, 2019
Owner 100% Review Complete	3	Nov 22, 2019
100% Design Plan Review Meeting	-	Nov 22, 2019
Address 100% Review Comments	4	Dec 20, 2019
Bid Opening	2	Jan 21, 2020
Contract Award	2	Feb 4, 2020
Begin Construction	7	March 23, 2020
Compete Construction	52	March 23, 2021

The CONSULTANT is not responsible for delays beyond its control.