

EXHIBIT F - Work Items and Estimated Man-Hours For
19th Street Reconstruction - Final Design of Phase B (Contract Amendment No. 6)
City of Lawrence, KS
Date: 12/10/2017
Client Project No. PW1535
PEC Project No. 15A66-004

Work Item	Principal	Cost \$155/hr	Design Tech Supervisor	Cost \$120/hr	Design Engineer	Cost \$95/hr	Project Engineer	Cost \$115/hr	CAD	Cost	Total Cost of Work Item
Specialty Work Items - Amendment #6 (Non-Basic Services)											
Survey - Easement Exhibits											\$ -
Structural - Project Management/QC											\$ 8,000
Structural - Pedestrian Tunnels/Retaining Walls Design/Plans											\$ 38,000
Electrical - Lighting Designs/Plans											\$ 12,000
Traffic Signals - Signal Design (19th/Stewart)											\$ -
Traffic Signals - Signal Design (19th/Iowa)											\$ -
Traffic Signals - Foundation Design (19th/Iowa)											\$ -
Traffic Signals - Fiber-Optic Conduit Design											\$ -
Geotechnical - Drilling & Report/Pavement Design											\$ -
Overhead Work Items - Amendment #6 (Basic Services)											
Project Management - General	16	\$ 2,480.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 3,400
Update Corridor Model		\$ -	8	\$ 960.00		\$ -	8	\$ 920	8	\$ 144	\$ 2,024
Finalize Intersection Grading		\$ -	8	\$ 960.00		\$ -	8	\$ 920	8	\$ 144	\$ 2,024
Finalize Sidewalk & Ramp Grading		\$ -	8	\$ 960.00		\$ -	8	\$ 920	8	\$ 144	\$ 2,024
Franchised Utility Coordination	4	\$ 620.00	4	\$ 480.00		\$ -	4	\$ 460	0	\$ -	\$ 1,560
Coordination with KU Project	4	\$ 620.00		\$ -		\$ -	4	\$ 460	0	\$ -	\$ 1,080
Coordination with Water/Sewer	4	\$ 620.00	4	\$ 480.00		\$ -	4	\$ 460	0	\$ -	\$ 1,560
Kick-Off Meeting	4	\$ 620.00	4	\$ 480.00	4	\$ 380	4	\$ 460	0	\$ -	\$ 1,940
Bid Package 3 - Amendment #6 (Basic Services)											
Construction Plan/Profile Conversion		\$ -	4	\$ 480.00		\$ -	8	\$ 920	4	\$ 72	\$ 1,472
General Plan Setup		\$ -	4	\$ 480.00		\$ -	8	\$ 920	4	\$ 72	\$ 1,472
Paving Plans		\$ -	8	\$ 960.00		\$ -	8	\$ 920	8	\$ 144	\$ 2,024
Demolition Plan Conversion		\$ -	4	\$ 480.00		\$ -		\$ -	4	\$ 72	\$ 552
Intersection Details	4	\$ 620.00	8	\$ 960.00		\$ -	8	\$ 920	8	\$ 144	\$ 2,644
Erosion Control Plans		\$ -		\$ -	4	\$ 380	4	\$ 460	4	\$ 72	\$ 912
NOI - Phase B		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$ -
Pavement Marking Plan Conversion		\$ -	4	\$ 480.00		\$ -	8	\$ 920	4	\$ 72	\$ 1,472
Traffic Control	8	\$ 1,240.00	8	\$ 960.00	8	\$ 760	4	\$ 460	16	\$ 288	\$ 3,708
Construction Sequencing	8	\$ 1,240.00	8	\$ 960.00	8	\$ 760	4	\$ 460	16	\$ 288	\$ 3,708
Cross Sections		\$ -	8	\$ 960.00		\$ -	8	\$ 920	8	\$ 144	\$ 2,024
Quantities	4	\$ 620.00	8	\$ 960.00	8	\$ 760	8	\$ 920	16	\$ 288	\$ 3,548
KDOT Permitting		\$ -		\$ -		\$ -		\$ -	0	\$ -	\$ -
Address Office Check Comments		\$ -	16	\$ 1,920.00		\$ -	8	\$ 920	16	\$ 288	\$ 3,128
Final Check QC	4	\$ 620.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 1,540
Final Check Cost Estimate	4	\$ 620.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 1,540
Final Check Design Memo	2	\$ 310.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 1,230
Final Check Project Manual	2	\$ 310.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 1,230
Final Check Submittal	2	\$ 310.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 1,230
Final Check Review Meeting	2	\$ 310.00		\$ -		\$ -	2	\$ 230	0	\$ -	\$ 540
Address Final Check Comments		\$ -	16	\$ 1,920.00		\$ -	8	\$ 920	16	\$ 288	\$ 3,128
Signed/Sealed QC	4	\$ 620.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 1,540
Signed/Sealed Cost Estimate	4	\$ 620.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 1,540
Signed/Sealed Project Manual	2	\$ 310.00		\$ -		\$ -	8	\$ 920	0	\$ -	\$ 1,230
Signed/Sealed Submittal	2	\$ 310.00		\$ -		\$ -	2	\$ 230	0	\$ -	\$ 540
Bidding Questions/Addenda	4	\$ 620.00		\$ -		\$ -	16	\$ 1,840	0	\$ -	\$ 2,460
TOTALS											
BASIC SERVICES	88	\$ 13,640	132	\$ 15,840	32	\$ 3,040	216	\$ 24,840	148	\$ 2,664	\$ 118,024
	Principal		Design Tech Supervisor		Design Engineer		Project Engineer		CAD		\$ 60,024

U:\Topeka\2015\15A66\000\Admin\Contract\Final Design\15A66-000 - 19th St Fee Estimate - Tunnel Design JD Amend 6.xlsx\Man-Hour Fee Estimate

Amendment #6 Total Fee = \$118,000