

**GENERAL MEETING OF THE BOARD OF DIRECTORS
OF THE
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

RESOLUTION NO. 18-036

**APPROVING AMENDMENT NO. 9 TO THE AGREEMENT WITH STANTEC
CONSULTING SERVICES INC. FOR TRAFFIC AND REVENUE SUPPORT
SERVICES FOR EXISTING AND PROPOSED MOBILITY AUTHORITY PROJECTS**

WHEREAS, by Resolution No. 07-62, dated October 3, 2007, the Board of Directors authorized an agreement with Stantec Consulting Services, Inc. ("Stantec") to provide traffic and revenue studies for the Mobility Authority (the "Agreement"); and

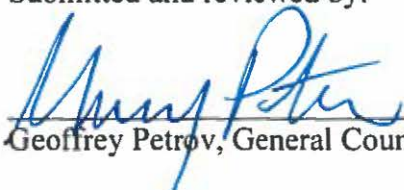
WHEREAS, since 2007 the Authority has extended the original contract and Stantec has continued to provide traffic and revenue studies and services for the Authority; and

WHEREAS, the Authority has a continuing need to monitor traffic and revenue for its existing toll projects and for new Authority projects, and the Executive Director recommends continuing to use Stantec for traffic and revenue services described in the proposed Amendment No. 9 to the Agreement which is attached to this resolution as Exhibit A.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors authorizes the Executive Director to negotiate and execute Amendment No. 9 to the Agreement in the form or substantially the form attached as Exhibit A to this resolution.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 25th day of July 2018.

Submitted and reviewed by:



Geoffrey Petrov, General Counsel

Approved:



Ray A. Wilkerson
Chairman, Board of Directors

Exhibit A



Stantec Consulting Services Inc.
475 Fifth Avenue 12th Floor, New York NY 10017-7239

June 4, 2018

Mr. Bill Chapman, CFO
Central Texas Regional Mobility Authority
3300 North IH-35, Suite 300
Austin, TX 78705

Reference: Stantec Professional Consulting Services Agreement, 9th Amendment

Dear Mr. Chapman,

We are pleased to deliver our scope and budget (Exhibit A) to provide continuing Traffic and Revenue Consulting Services to the Central Texas Regional Mobility Authority as it moves forward with various toll road projects now in operation or in the planning stages. Following is a description of the anticipated work efforts that would be provided under this agreement:

Level 3 Traffic & Revenue (T&R) Studies -- 2 projects

We anticipate conducting two investment grade T&R studies over the next 3-year period and have included those efforts in our scope and budget. These studies would be similar to the October 2015 Bergstrom Expressway T&R Study. Each of the studies will produce traffic & forecasts and documentation suitable for financing, including coordination with the financial team as well as meetings and presentations to rating agencies and investors. We will use our latest edition of the regional traffic model and fully update the required inputs, including validating the peak period baseline conditions to actual levels in the study area; this will be vital to reflect presence of new projects with managed lanes. We have included an allowance for subconsultants to conduct specialized studies such as demographic updates, traffic counts and origin-destination surveys.

Level 2 Intermediate T&R Study -- 1 project

The scope of this study would be less extensive than a Level 3 Study, with fewer surveys and validation efforts, but would provide a reasonable basis for deciding whether to advance the project to the financing stage.

Level 1 Preliminary T&R Studies -- 2 projects

This effort would use the latest version of the traffic model for planning purposes to support preliminary feasibility studies of new projects or changes to existing projects. As the underlying traffic model would be based on a Level 3 baseline, only limited new surveys would be conducted for the Level 1 Study, sufficient to provide an initial reading on likely traffic & revenue potential of the project.

Monitor & Support (Ongoing Efforts)

We will monitor the transaction and revenue data for 183A, the Manor Expressway and other elements that become operational, comparing actual conditions to forecast levels and identifying reasons for potential variations. We anticipate conducting sketch level studies and project evaluations, toll schedule evaluations, simulation studies and miscellaneous support in our role as the Authority's Traffic Consultant.

Stantec will be the prime consultant on this assignment, drawing on the expertise of subconsultants as needed for specialized studies. These may include Michael Bomba, Alliance Transportation Group, CJ Hensch & Associates, Quality Counts, GRAM Traffic North Texas, Skycomp Inc., GRAM Traffic Counting, and Resource Systems Group.

NINTH AMENDMENT TO CTRMA/STANTEC PROFESSIONAL

Design with community in mind CONSULTING SERVICES AGREEMENT

June 4, 2018
Mr. Bill Chapman, CFO
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Reference: Stantec Professional Consulting Services Agreement, 9th Amendment

Our project personnel are especially qualified to undertake this work. Tom Harknett will function as the Principal in Charge. I will be the Project Manager (PM), with 35+ years of experience in toll feasibility studies and 20 years of involvement in Austin-based projects for the Mobility Authority as well as TxDOT. Sumeet Kishnani and Tiffany Cummings will be the Assistant PM's and other key staff will include Ann Hughitt, Haley Collins and Sanaz Zehtabi.

Exhibit A presents a summary and details of the anticipated typical budget levels for the tasks described above. As discussed with you, the total budget is \$3,000,000.

We look forward to working with you in the coming years.

Regards,

Stantec Consulting Services Inc.

A handwritten signature in blue ink that reads "William Ihlo".

William Ihlo PE
Principal

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William.Ihlo@stantec.com

Exhibit A	
Table of Contents	
Exhibit Number	Exhibit Title
Exhibit A-1	Hourly Labor Rate Table
Exhibit A-2	T&R Summary Budget
Exhibit A-3	Typical Level 3 T&R Budget
Exhibit A-4	Typical Level 2 T&R Budget
Exhibit A-5	Typical Level 1 T&R Budget
Exhibit A-6	Monitor & Support Budget

Exhibit A-1	
Stantec Consulting Evergreen Contract	
Hourly Labor Rate Table June 1, 2018	
Labor Category	Hourly Rate
Principal	\$ 117.00
Project Manager	\$ 100.00
Senior Engineer	\$ 85.00
Engineer	\$ 70.00
Junior Engineer	\$ 50.00
Entry Level Engineer	\$ 37.00
FAR Overhead Current Rate	160.40%
Profit	10.0%

Note: Hourly rates subject to escalation periodically;
FAR OH rate typically changes July 1 annually.

Exhibit A-2	
Stantec Consulting Evergreen Contract T&R Summary Budget June 1, 2018	
Task	
Level 3 T&R (2 Projects)	\$ 2,072,000
Level 2 T&R (1 Project)	\$ 420,000
Level 1 T&R (2 Projects)	\$ 174,000
Monitor & Support	\$ 334,000
Total	\$ 3,000,000

EXHIBIT A-3

Stantec Consulting Typical Level 3 T & R Budget June 1, 2018 (2 Projects)

Task Description	Principal	Project Manager	Senior Engineer	Engineer	Junior Engineer	Entry Level Engineer	Total Hours	Total Direct Labor	Total Labor Cost
	Task 1 Project Definition (Alignment, access, lanes, tolls)	8	40	40	20	20	20	148	\$11,476
Task 2 Update Model Inputs	8	80	200	200	200	150	838	\$55,486	\$158,934
Task 3 Establish Screenlines	4	8	16	16	16	16	76	\$5,140	\$14,723
Task 4 Model Validation	16	80	300	400	240	240	1276	\$84,252	\$241,331
Task 5 Toll Rate Plan & Schedule	8	40	40	80	20	20	208	\$15,676	\$44,902
Task 6 Modeling Runs (3 model yrs; 4 scenarios)	16	80	160	300	200	170	926	\$60,762	\$174,047
Task 7 Analysis of Results	16	120	200	200	200	150	886	\$60,422	\$173,073
Task 8 Sensitivities	16	80	120	200	120	120	656	\$44,512	\$127,500
Task 9 Documentation & Meetings	40	120	80	120	200	120	680	\$46,320	\$132,679
Task 10 Rating Agency Meetings	40	120	40	120	100	60	480	\$35,700	\$102,259
Task 11 Investor Meetings	40	120	40	120	100	60	480	\$35,700	\$102,259
Task 12 Systemwide Analysis	40	120	120	180	110	80	650	\$47,940	\$137,319
Task 13 Simulation Modeling	20	80	120	240	160	160	780	\$51,260	\$146,829
Total Hours	272	1088	1476	2196	1686	1366	8084	\$554,646	\$1,588,728
Labor Rate	\$117.00	\$100.00	\$85.00	\$70.00	\$50.00	\$37.00			
Total Direct Labor	\$31,824	\$108,800	\$125,460	\$153,720	\$84,300	\$50,542			
Multiplier (FAR 160.40%; fee 10.0%)	2.864	2.864	2.864	2.864	2.864	2.864			
Total Labor Cost	\$91,157	\$311,647	\$359,368	\$440,316	\$241,469	\$144,773			\$1,588,728
Direct Expenses									\$33,272
Total Stantec Effort									\$1,622,000
Subconsultant Efforts									
Demographic Update									
Subconsultant Bomba									\$100,000
Origin Destination Surveys									
Subconsultant Skycorp									\$150,000
Supplemental Traffic Counts									
Subconsultant TBD									\$200,000
Total All Work									\$2,072,000

EXHIBIT A-4

Stantec Consulting Typical Level 2 T & R Budget June 1, 2018 (1 Project)

Task Description		Project	Senior		Junior	Entry Level	Total	Total	Total
	Principal	Manager	Engineer	Engineer	Engineer	Engineer	Hours	Direct Labor	Labor Cost
Task 1 Project Definition (Alignment, access, lanes, tolls)	2	24	20	10	20	10	86	\$6,404	\$18,344
Task 2 Update Model Inputs	4	24	40	40	80	40	228	\$14,548	\$41,671
Task 3 Establish Screenlines	2	8	16	8	12	8	54	\$3,850	\$11,028
Task 4 Model Validation	4	20	160	80	120	40	424	\$29,148	\$83,492
Task 5 Modeling Runs (3 model yrs; 4 scenarios)	4	40	80	40	80	40	284	\$19,548	\$55,993
Task 6 Analysis of Results	8	60	60	40	60	60	288	\$20,056	\$57,448
Task 7 Sensitivities	8	60	60	20	40	40	228	\$16,916	\$48,454
Task 8 Documentation & Meetings	16	60	60	20	50	20	226	\$17,612	\$50,448
Total Hours	48	296	496	258	462	258	1818	\$128,082	\$366,878
Labor Rate	\$117.00	\$100.00	\$85.00	\$70.00	\$50.00	\$37.00			
Total Direct Labor	\$5,616	\$29,600	\$42,160	\$18,060	\$23,100	\$9,546			
Multiplier (FAR 160.40%; fee 10.0%)	2.864	2.864	2.864	2.864	2.864	2.864			
Total Labor Cost	\$16,086	\$84,786	\$120,763	\$51,731	\$66,168	\$27,344			\$366,878
Direct Expenses									\$3,122
Total Stantec Effort									\$370,000
Subconsultant Efforts									
Demographic Update									
Subconsultant -- Bomba									\$25,000
Supplemental Traffic Counts									
Subconsultant TBD									\$25,000
Total All Work									\$420,000

EXHIBIT A-5

Stantec Consulting Typical Level 1 T & R Budget June 1, 2018 (2 Projects)

Task Description		Project	Senior		Junior	Entry Level	Total	Total	Total
	Principal	Manager	Engineer	Engineer	Engineer	Engineer	Hours	Direct	Labor
Task 1 Project Definition (Alignment, access, lanes, tolls)	2	20	20	8	16	8	74	\$5,590	\$16,012
Task 2 Update Model Inputs	2	20	40	16	40	16	134	\$9,346	\$26,771
Task 3 Establish Screenlines	2	8	8	8	8	8	42	\$2,970	\$8,507
Task 4 Modeling Runs (3 model yrs; 4 scenarios)	4	20	40	16	40	16	136	\$9,580	\$27,441
Task 5 Analysis of Results	4	20	40	16	40	16	136	\$9,580	\$27,441
Task 6 Sensitivities	4	20	30	16	40	16	126	\$8,730	\$25,006
Task 7 Documentation	4	20	20	8	20	8	80	\$6,024	\$17,255
Total Hours	22	128	198	88	204	88	728	\$51,820	\$148,433
Labor Rate	\$117.00	\$100.00	\$85.00	\$70.00	\$50.00	\$37.00			
Total Direct Labor	\$2,574	\$12,800	\$16,830	\$6,160	\$10,200	\$3,256			
Multiplier (FAR 160.40%; fee 10.0%)	2.864	2.864	2.864	2.864	2.864	2.864			
Total Labor Cost	\$7,373	\$36,664	\$48,208	\$17,645	\$29,217	\$9,326			\$148,433
Direct Expenses									\$567
Total Stantec Effort									\$149,000
Subconsultant Efforts									
Miscellaneous Support									
Subconsultant -- TBD									\$25,000
Total All Work									\$174,000

EXHIBIT A-6

Stantec Consulting Monitor & Support Budget June 1, 2018

Task Description		Project	Senior		Junior	Entry Level	Total	Total	Total
	Principal	Manager	Engineer	Engineer	Engineer	Engineer	Hours	Direct Labor	Labor Cost
Task 1 Monitor Daily & Monthly Traffic & Revenue Reports	4	40	40	40	40	40	204	\$14,148	\$40,526
Task 2 Sketch Level Studies	4	40	60	60	40	40	244	\$17,248	\$49,405
Task 3 Toll Schedule Evaluation	4	40	40	40	40	40	204	\$14,148	\$40,526
Task 4 Simulation Studies	4	40	80	80	80	40	324	\$22,348	\$64,014
Task 5 Miscellaneous Support	4	120	120	160	80	40	524	\$39,348	\$112,708
Total Hours	20	280	340	380	280	200	1500	\$107,240	\$307,178
Labor Rate	\$117.00	\$100.00	\$85.00	\$70.00	\$50.00	\$37.00			
Total Direct Labor	\$2,340	\$28,000	\$28,900	\$26,600	\$14,000	\$7,400			
Multiplier (FAR 160.40%; fee 10.0%)	2.864	2.864	2.864	2.864	2.864	2.864			
Total Labor Cost	\$6,703	\$80,203	\$82,781	\$76,193	\$40,102	\$21,197			\$307,178
Direct Expenses									\$1,822
Total Stantec Effort									\$309,000
Subconsultant Efforts									
Miscellaneous Support									
Subconsultant -- TBD									\$25,000
Total All Work									\$334,000