



Orig C.S.C. 44231

STATE OF TEXAS §

COUNTY OF TRAVIS §

CITY SECRETARY
CONTRACT NO. 44231-52

**SUPPLEMENTAL AGREEMENT NO.2 TO
AGREEMENT FOR THE INSTALLATION AND REIMBURSEMENT
FOR THE OPERATION AND MAINTENANCE OF TRAFFIC SIGNALS
WITHIN A MUNICIPALITY**

WHEREAS, on the 26th day of February, 2013, an Agreement for the Installation and Reimbursement for the Operation and Maintenance of Traffic Signals within a Municipality was entered into by and between the Texas Department of Transportation hereinafter called the "State," and the City of Fort Worth, hereinafter called the "City," and subsequently identified the agreement as Contract Number 02-1XXM5003; and

WHEREAS, the parties to this agreement have mutually determined that it is necessary to amend the original agreement due to the following reason/reasons: additional intersections are added (#51 and #52) on page 4 under Exhibit #1 and Exhibit #2 to amend the traffic signal maintenance and operation provision, and Exhibit #3 to amend the quantity and cost for the Diamond Interchange Signal(s)

NOW, THEREFORE, Contract No. 02-1XXM5003 is amended as follows:

EXHIBIT 1

EXHIBIT 1 is amended to add the traffic signal(s) #51 & 52 to amend the traffic signal maintenance and operation installation(s) at the intersection(s) of US 287 & Blue Mound Road, US 287 & BUS 287/FM 718. A copy of the revised EXHIBIT 1 is attached hereto and made a part of this agreement.

EXHIBIT 2

EXHIBIT 2 is amended to modify the traffic signal maintenance and operation provision(s) for the following items: #4 (add "This is understood that this does not include replacement of foundation. Repair or replacement of Damaged foundations will be covered under article 5, line D of the original agreement"), #9 (removed the words "and galvanized", #10 (remove "and incandescent lamps of"), #16 (add "or replace"), #17 (add "to confirm and maintain the qualification of all claims for periodic payment revise. Use forms provided by TxDOT or city prepared documentation that includes the same information as a minimum for preventative maintenance checklists and signal trouble call reports. This information may be provide in electronic file or pdf prior to inspections if the city uses asset management software for signal maintenance."), #18 (revised to read "Signal timing will be the responsibility of the City." Priority should be given to freeway or expressway frontage roads when recurrent congestion occurs on freeway or expressway main lanes. Provide a yearly schedule for preventative maintenance for all cabinets divided into sections to be serviced on a monthly basis that shall be used as TxDOT's basis for spot check of locations prior to payment. Added #19 and #20 A copy of the revised EXHIBIT 2 is attached hereto and made a part of this agreement.

EXHIBIT 3

EXHIBIT 3 is to amend the quantity and cost for the Diamond Interchange Signal(s), One



Controller and Two Controller signal types. A copy of the revised EXHIBIT 3 is attached hereto and made a part of this agreement.

Article 4. Compensation

The maximum amount payable under this agreement is increased from \$208,392.00 to \$369,235.32 per year in accordance with the above changes. Calculations for the increase to the maximum amount payable are as follows:

AMOUNT OF THIS SUPPLEMENTAL AGREEMENT	\$ <u>160,843.32</u>
ORIGINAL MAXIMUM AMOUNT PAYABLE PER YEAR	\$ <u>208,392.00</u>
TOTAL PREVIOUS SUPPLEMENTAL AGREEMENTS	\$ <u>0.0</u>
REVISED MAXIMUM AMOUNT PAYABLE PER YEAR	\$ <u>369,235.32</u>

ARTICLE 5. Payment

The amount of this supplemental agreement shown above shall be a prorated amount based on the cost for the type of installation calculated on EXHIBIT 3 of the original agreement and any increases or decreases caused by any subsequent supplemental agreements. The (monthly/quarterly/annual) payment shall be adjusted accordingly.

All other terms or conditions are unchanged and remain in full force and effect.

Each party is signing this agreement on the date stated next to that party's signature.

THE CITY OF Fort Worth Stefanie Cook
 Executed on behalf of the City by: _____
 By Susan Alanis Date 5/7/19
 Typed or Printed Name and Title Susan Alanis
Asst. City Manager

ATTEST:
 By Imaad P. Gmizel Date _____
Asst. City Secretary



APPROVED AS TO FORM AND LEGALITY
Douglas W. Black, Sr. Assistant City Attorney
 No WMC Policy

THE STATE OF TEXAS
 Executed for the Executive Director and approved for the Texas Transportation Commission for the purpose and effect of activating and/or carrying out the orders, established policies or work programs heretofore approved and authorized by the Texas Transportation Commission.

By Logan Ball Date 5/16/19
 District Engineer



EXHIBIT 1

Signalized Intersections on "Controlled Access Highways"

Located in the City of Fort Worth

	HWY	LOCATION	TYPE	TYPE	MAP	
1.	FORT WORTH	IH 20	EB (Frontage Rd) @ River Ranch Blvd.	ACTUATED SIGNALS	CONVENTIONAL	89J
2.	FORT WORTH	IH 30	& Brentwood Stair Rd//Holt St.	ACTUATED SIGNALS	CONVENTIONAL	65W
3.	FORT WORTH	IH 30	& Bridge St./Blue Lake Dr.	ACTUATED SIGNALS	CONVENTIONAL	65W
4.	FORT WORTH	IH 30	& Henderson St.	ACTUATED SIGNALS	CONVENTIONAL	76H
5.	FORT WORTH	SH 183	WB (Frontage Rd) @ Insurance Ln/Chisholm Trail Parkway (CTP) NB (Frontage Rd)	ACTUATED SIGNALS	CONVENTIONAL	89E
6.	FORT WORTH	SH 183	& Fairchild Dr.	ACTUATED SIGNALS	CONVENTIONAL	74A
7.	FORT WORTH	SH 183	& Garza Ave.	ACTUATED SIGNALS	CONVENTIONAL	74S
8.	FORT WORTH	SH 183	& Green Oaks Rd.	ACTUATED SIGNALS	CONVENTIONAL	74A
9.	FORT WORTH	SH 183	& IH 30 EB Ramps/ Calmont Ave.	ACTUATED SIGNALS	CONVENTIONAL	74J
10.	FORT WORTH	SH 183	& Overhill Rd.	ACTUATED SIGNALS	CONVENTIONAL	74W
11.	FORT WORTH	SH 183	& W. Vickery Blvd.	ACTUATED SIGNALS	CONVENTIONAL	74X
12.	FORT WORTH	SH 183	& Ridgemar Meadow	ACTUATED SIGNALS	CONVENTIONAL	74A
13.	FORT WORTH	SH 199	& N. Surfside Dr.	ACTUATED SIGNALS	CONVENTIONAL	45Q
14.	FORT WORTH	SH 199	& Roadrunner Circle	ACTUATED SIGNALS	CONVENTIONAL	45P
15.	FORT WORTH	US 287	& Miller Ave./Wilbarger St.	ACTUATED SIGNALS	CONVENTIONAL	78D

1.	FORT WORTH	IH 30	& Bridgewood Dr./Bridge St Connection	ACTUATED SIGNALS	TEE	66W
2.	FORT WORTH	IH 30	& Camp Bowie Blvd.	ACTUATED SIGNALS	TEE	75J
3.	FORT WORTH	SH 183	WB (Frontage Rd) @ Chisholm Trail Parkway (CTP) SB (Frontage Rd)	ACTUATED SIGNALS	TEE	89E
4.	FORT WORTH	US 287	& Vaughn Blvd	ACTUATED SIGNALS	TEE	77T
5.	FORT WORTH	IH 820	SB Frontage Rd. & Quebec St..	ACTUATED SIGNALS	TEE	60B

1.	FORT WORTH	IH 20	& Crowley Rd./FM 731	DIAMOND	ONE CONTROLLER	90U
2.	FORT WORTH	IH 20	& Edgecliff Rd./Hemphill St.	DIAMOND	ONE CONTROLLER	90V
3.	FORT WORTH	IH 20	& James St.	DIAMOND	ONE CONTROLLER	90U
4.	FORT WORTH	IH 20	& McCart Ave.	DIAMOND	ONE CONTROLLER	90T
5.	FORT WORTH	IH 20	& Oak Grove Rd.	DIAMOND	ONE CONTROLLER	91Q
6.	FORT WORTH	IH 20	& Old Granbury Rd.	DIAMOND	ONE CONTROLLER	89Q
7.	FORT WORTH	IH 20	& S. Hulen St.	DIAMOND	ONE CONTROLLER	89J
8.	FORT WORTH	IH 20	& South Dr.	DIAMOND	ONE CONTROLLER	89J
9.	FORT WORTH	IH 20	& Trail Lake Dr.	DIAMOND	ONE CONTROLLER	89R
10.	FORT WORTH	IH 20	EB (Frontage Rd) @ Chisholm Trail Parkway (CTP) SB (Frontage Rd)	DIAMOND	ONE CONTROLLER	89J
11.	FORT WORTH	IH 20	EB (Frontage Rd) @ Chisholm Trail Parkway (CTP) NB (Frontage Rd)	DIAMOND	ONE CONTROLLER	89J
12.	FORT WORTH	IH 30	& Ashland Ave.	DIAMOND	ONE CONTROLLER	75L
13.	FORT WORTH	IH 30	& Bryant Irvin Road N./ Gifford Rd.	DIAMOND	ONE CONTROLLER	74M
14.	FORT WORTH	IH 30	& Cooks Ln.	DIAMOND	ONE CONTROLLER	67W
15.	FORT WORTH	IH 30	& Eastchase Parkway	DIAMOND	ONE CONTROLLER	67X
16.	FORT WORTH	IH 30	& Forest Park Blvd.	DIAMOND	ONE CONTROLLER	76F
17.	FORT WORTH	IH 30	& Hulen St.	DIAMOND	ONE CONTROLLER	75K
18.	FORT WORTH	IH 30	& Lackland Rd./Green Oaks Rd.	DIAMOND	ONE CONTROLLER	74E
19.	FORT WORTH	IH 30	& Las Vegas Trail	DIAMOND	ONE CONTROLLER	73F
20.	FORT WORTH	IH 30	& Montgomery St.	DIAMOND	ONE CONTROLLER	75M
21.	FORT WORTH	IH 30	& Ridglea Ave./Ridgmar Blvd.	DIAMOND	ONE CONTROLLER	74K
22.	FORT WORTH	IH 30	& Roaring Springs Rd./Home St.	DIAMOND	ONE CONTROLLER	74M

23	FORT WORTH	IH 30	& S. Cherry Ln.	DIAMOND	ONE CONTROLLER	73G
24	FORT WORTH	IH 30	& Summit Ave.	DIAMOND	ONE CONTROLLER	835Q
25	FORT WORTH	IH 35W	& Allen Ave.	DIAMOND	ONE CONTROLLER	77P
26	FORT WORTH	IH 35W	& Altamesa Blvd	DIAMOND	ONE CONTROLLER	91X
27	FORT WORTH	IH 35W	& Berry St.	DIAMOND	ONE CONTROLLER	77X
28	FORT WORTH	IH 35W	& E. Felix St.	DIAMOND	ONE CONTROLLER	91P
29	FORT WORTH	IH 35W	& E. Vickery Blvd.	DIAMOND	ONE CONTROLLER	77F
30	FORT WORTH	IH 35W	& Everman Pkwy.	DIAMOND	ONE CONTROLLER	105K
31	FORT WORTH	IH 35W	& Hattie	DIAMOND	ONE CONTROLLER	77F
32	FORT WORTH	IH 35W	& Ripy Ave.	DIAMOND	ONE CONTROLLER	91B
33	FORT WORTH	IH 35W	& Seminary Dr.	DIAMOND	ONE CONTROLLER	91K
34	FORT WORTH	IH 35W	& SH 114	DIAMOND	ONE CONTROLLER	76G
35	FORT WORTH	IH 35W	& Sycamore School Rd.	DIAMOND	ONE CONTROLLER	105F
36	FORT WORTH	IH 35W	& W. Rosedale St.	DIAMOND	ONE CONTROLLER	77K
37	FORT WORTH	IH 820	& Berry St.	DIAMOND	ONE CONTROLLER	79Y
38	FORT WORTH	IH 820	& Brentwood Stair Road	DIAMOND	ONE CONTROLLER	66W
39	FORT WORTH	IH 820	& Meadowbrook Dr.	DIAMOND	ONE CONTROLLER	79D
40	FORT WORTH	IH 820	& Ramey	DIAMOND	ONE CONTROLLER	79R
41	FORT WORTH	IH 820	& Randol Mill Road	DIAMOND	ONE CONTROLLER	79M
42	FORT WORTH	IH 820	& Silver Creek	DIAMOND	ONE CONTROLLER	59N
43	FORT WORTH	IH 820	& SP 303(Rosedale St.)	DIAMOND	ONE CONTROLLER	66N
44	FORT WORTH	IH 820	& Sun Valley	DIAMOND	ONE CONTROLLER	93K
45	FORT WORTH	SH 183	& Bryant Irvin Rd.	DIAMOND	ONE CONTROLLER	88H
46	FORT WORTH	SH 183	& SPUR 580 (Camp Bowie Blvd W.)	DIAMOND	ONE CONTROLLER	74N
47	FORT WORTH	US 287	& Berry St.	DIAMOND	ONE CONTROLLER	77T
48	FORT WORTH	US 287	& E. Rosedale St.	DIAMOND	ONE CONTROLLER	77M
49	FORT WORTH	US 287	& E. Vickery Blvd.	DIAMOND	ONE CONTROLLER	77H
50	FORT WORTH	US 287	& S. Riverside Dr.	DIAMOND	ONE CONTROLLER	77H
51	FORT WORTH	US 287	& BUS 287/FM 718	DIAMOND	ONE CONTROLLER	5U
52	FORT WORTH	US 287	& Blue Mound Rd.	DIAMOND	ONE CONTROLLER	19G
53	FORT WORTH	IH 35W	& Golden Triangle	DIAMOND	ONE CONTROLLER	21K
54	FORT WORTH	IH 35W	& Meacham Blvd.	DIAMOND	ONE CONTROLLER	49Q
55	FORT WORTH	IH 35W	& Morningside Dr.	DIAMOND	ONE CONTROLLER	77T
56	FORT WORTH	IH 35W	& N. Tarrant Pkwy.	DIAMOND	ONE CONTROLLER	35B
57	FORT WORTH	IH 35W	& North Side Dr./Yucca Ave.	DIAMOND	ONE CONTROLLER	63K
58	FORT WORTH	IH 35W	& Western Center	DIAMOND	ONE CONTROLLER	35Y
59	FORT WORTH	IH 35W	& Heritage Trace Pkwy.	DIAMOND	ONE CONTROLLER	21X
60	FORT WORTH	IH 35W	& SH 170	DIAMOND	ONE CONTROLLER	7Y
61	FORT WORTH	IH 820	& Beach St. N.	DIAMOND	ONE CONTROLLER	50E
62	FORT WORTH	IH 820	& Bridge St./John T. White	DIAMOND	ONE CONTROLLER	66S
63	FORT WORTH	IH 820	& Marine Creek Parkway	DIAMOND	ONE CONTROLLER	47O
64	FORT WORTH	SH 121	& Riverside Dr.	DIAMOND	ONE CONTROLLER	63V
65	FORT WORTH	SH 121	& Sylvania Ave. S	DIAMOND	ONE CONTROLLER	63U
66	FORT WORTH	SH 121	& Beach St. N	DIAMOND	ONE CONTROLLER	64N
67	FORT WORTH	SH 170	& Alta Vista Blvd.	DIAMOND	ONE CONTROLLER	8T
68	FORT WORTH	SH 199	& Nine Mile Bridge Rd.	DIAMOND	ONE CONTROLLER	44G
69	FORT WORTH	SH 199	& Tenderfoot Trail/Hanger Cutoff Rd.	DIAMOND	ONE CONTROLLER	30W
70	FORT WORTH	SH 380	& Trinity Blvd.	DIAMOND	ONE CONTROLLER	58T
1.	FORT WORTH	IH 20	& Bryant Irvin Rd.	DIAMOND	TWO CONTROLLERS	88M

2.	FORT WORTH	IH 20	& Campus Dr.	DIAMOND	TWO CONTROLLERS	92S
3.	FORT WORTH	IH 30	& Beach Street	DIAMOND	TWO CONTROLLERS	78A
4.	FORT WORTH	IH 30	& Bridgewood Dr.	DIAMOND	TWO CONTROLLERS	66W
5.	FORT WORTH	IH 30	& Oakland Blvd.	DIAMOND	TWO CONTROLLERS	64Z
6.	FORT WORTH	IH 30	& University Dr./Vickery Blvd	DIAMOND	TWO CONTROLLERS	76J
7.	FORT WORTH	IH 35W	& FM 1187(Rendon-Crowley Rd.)	DIAMOND	TWO CONTROLLERS	119K
8.	FORT WORTH	IH 820	& Clifford St.	DIAMOND	TWO CONTROLLERS	59S
9.	FORT WORTH	IH 35W	& SH 183 (28Th St.)	DIAMOND	TWO CONTROLLERS	63K
10.	FORT WORTH	IH 35W	& Basswood Blvd	DIAMOND	TWO CONTROLLERS	35P
11.	FORT WORTH	IH 820	& Mark IV Pkwy	DIAMOND	TWO CONTROLLERS	49F
12.	FORT WORTH	IH 820	& SPUR 580 (Camp Bowie West)	DIAMOND	TWO CONTROLLERS	72R
13.	FORT WORTH	IH 820	& Trinity Blvd	DIAMOND	TWO CONTROLLERS	66A
14.	FORT WORTH	IH 820	& White Settlement Rd.	DIAMOND	TWO CONTROLLERS	59W
15.	FORT WORTH	SH 170	& Independence Pkwy.	DIAMOND	TWO CONTROLLERS	9J
16.	FORT WORTH	SH 170	& Park Vista Pkwy.	DIAMOND	TWO CONTROLLERS	8R
17.	FORT WORTH	SH 183	& Amon Carter Blvd.	DIAMOND	TWO CONTROLLERS	56L

1.	FORT WORTH	US 287	& Erath St.	FLASHER	SPAN WIRE	78Y
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EXHIBIT 3

Cost Summary of Signalized Intersections

City of Fort Worth

Actuated Signals at Cross Intersections shall be reimbursed at \$1,704.00 per intersection per year.

Calculations: $\$142.00/\text{month} \times 12 \text{ months} = \$1704.00/\text{year}$
 $\$ 1704.00 \times 15 \text{ intersections} = \$ 25,560.00/\text{year}$

Actuated Signals at Tee Intersections shall be reimbursed at \$1,500.00 per intersection per year.¹⁷

Calculations: $\$125.00/\text{month} \times 12 \text{ months} = \$1,500.00/\text{year}$
 $\$ 1500.00 \times 5 \text{ intersections} = \$ 7500.00/\text{year}$

Diamond Interchange Signals with one controller shall be reimbursed at \$3582.00 per intersection per year.

Calculations: $\$298.50/\text{month} \times 12 \text{ months} = \$3582.00/\text{year}$
 $\$ 3582.00 \times 70 \text{ intersections} = \$ 250,740.00/\text{year}$

Diamond Interchange Signals with two or more controllers shall be reimbursed at \$5007.96 per intersection per year.

Calculations: $\$417.33/\text{month} \times 12 \text{ months} = \$5007.96/\text{year}$
 $\$ 5007.96 \times 17 \text{ intersections} = \$ 85,135.32/\text{year}$

Overhead Flashing Beacons shall be reimbursed at \$300.00 per unit per year.

Calculations: $\$25.00/\text{month} \times 12 \text{ months} = \$300.00/\text{year}$
 $\$ 300.00 \times 1 \text{ intersection} = \$ 300.00/\text{year}$

EXHIBIT 3

Cost Summary of Signalized Intersections

City of Fort Worth

TYPE OF SIGNAL	MONTHLY COST	QUANTITY	TOTAL MONTHLY COST	TOTAL ANNUAL COST
Conventional	\$142.00	15	\$2130.00	\$25,560.00
Tee	\$125.00	5	\$625.00	\$7,500.00
Diamond w/one Controller	\$298.50	70	\$20,895.00	\$250,740.00
Diamond w/two Controllers	\$417.33	17	\$7094.61	\$85,135.32
Flasher	\$25.00	1	\$25.00	\$300.00
	TOTALS:	108	\$30,769.61	\$369,235.32

