

2018 TRAFFIC SIGNAL MAINTENANCE CONTRACT, SECTION 18-00000-01-GM, BID TABULATION

LETTING DATE 8/15/2017

ITEM No.	DESCRIPTION	EST. QNTY.	UNIT	ENGINEER'S ESTIMATE		H & H ELECTRIC COMPANY		MEADE INC.	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
				PRICE PER EQUIVALENT LOCATION UNIT PER MONTH: \$283.00		PRICE PER EQUIVALENT LOCATION UNIT PER MONTH: \$234.20		PRICE PER EQUIVALENT LOCATION UNIT PER MONTH: \$243.00	
				MULTIPLIED BY ELU's		MULTIPLIED BY ELU's		MULTIPLIED BY ELU's	
				= \$62,571.30 /MO.		= \$51,781.62 /MO.		= \$53,727.30 /MO.	
				FOR ROUTINE MAINTENANCE (A AND B PAY ITEMS)		FOR ROUTINE MAINTENANCE (A AND B PAY ITEMS)		FOR ROUTINE MAINTENANCE (A AND B PAY ITEMS)	
				\$62,571.30 X 12 MONTHS		\$51,781.62 X 12 MONTHS		\$53,727.30 X 12 MONTHS	
				= \$750,855.60		= \$621,379.44		= \$644,727.60	
				FOR ROUTINE MAINTENANCE FOR ENTIRE YEAR		FOR ROUTINE MAINTENANCE FOR ENTIRE YEAR		FOR ROUTINE MAINTENANCE FOR ENTIRE YEAR	
ITEM	DESCRIPTION	EQUIVALENT LOCATION UNITS		ITEM	EXTENSION DOLLARS PER MONTH	ITEM	EXTENSION DOLLARS PER MONTH	ITEM	EXTENSION DOLLARS PER MONTH
A-1	TRAFFIC SIGNAL LOCATION	175		A-1	\$49,525.00	A-1	\$40,985.00	A-1	\$42,525.00
A-2	TEMPORARY TRAFFIC SIGNAL LOCATION	0		A-2	\$0.00	A-2	\$0.00	A-2	\$0.00
A-3	FLASHING BEACON, OVERHEAD MOUNT, ONE OR MORE FACES	2		A-3	\$566.00	A-3	\$468.40	A-3	\$486.00
A-4	FLASHING BEACON, LOW MOUNT, ONE OR MORE FACES	4.6		A-4	\$1,301.80	A-4	\$1,077.32	A-4	\$1,117.80
A-5	VEHICLE COUNTING STATION	0.75		A-5	\$212.25	A-5	\$175.65	A-5	\$182.25
A-6	VIDEO COMMUNICATIONS CABINET, GIGABIT ETHERNET	10		A-6	\$2,830.00	A-6	\$2,342.00	A-6	\$2,430.00
A-7	DELETED	--		A-7	--	A-7	--	A-7	--
A-8	DELETED	--		A-8	--	A-8	--	A-8	--
A-9	HIGHWAY ADVISORY RADIO (HAR)	2.5		A-9	\$707.50	A-9	\$585.50	A-9	\$607.50
A10	REMOTE-CONTROLLED VIDEO SYSTEM	3.75		A10	\$1,061.25	A10	\$878.25	A10	\$911.25
B-1	STREET LIGHTING LOCATION	22.5		B-1	\$6,367.50	B-1	\$5,269.50	B-1	\$5,467.50
TOTAL ELU's		221.1							

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				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
EQUIPMENT									
AU-1	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, MOUNTING AS SPECIFIED	2	EA	\$250.00	\$500.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-2	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MOUNTING AS SPECIFIED	2	EA	\$750.00	\$1,500.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-3	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MOUNTING AS SPECIFIED	2	EA	\$850.00	\$1,700.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-4	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MOUNTING AS SPECIFIED	2	EA	\$1,100.00	\$2,200.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-5	PEDESTRIAN SIGNAL HEAD, LED, MOUNTING AS SPECIFIED	2	EA	\$500.00	\$1,000.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-6	PEDESTRIAN SIGNAL HEAD, LED, COUNTDOWN, MOUNTING AS SPECIFIED	4	EA	\$650.00	\$2,600.00	\$0.01	\$0.04	\$0.01	\$0.04
AU-7	TRAFFIC SIGNAL BACKPLATE	4	EA	\$125.00	\$500.00	\$0.01	\$0.04	\$0.01	\$0.04
AU-8	EMERGENCY VEHICLE PREEMPTION SYSTEM	2	EA	\$3,500.00	\$7,000.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-9	FULL ACTUATED CONTROLLER, IN TYPE IV CABINET, NEMA-TS2	1	EA	\$13,000.00	\$13,000.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-10	INSTALL EXISTING TRAFFIC SIGNAL CABINET	2	EA	\$750.00	\$1,500.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-11	INSTALL EXISTING TRAFFIC SIGNAL CONTROLLER	2	EA	\$150.00	\$300.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-12	FULL ACTUATED CONTROLLER	2	EA	\$3,500.00	\$7,000.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-13	INSTALL UPDATED PROM SET AT EXISTING LOCAL OR MASTER CONTROLLER	2	EA	\$500.00	\$1,000.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-14	UPGRADE EXISTING LOCAL CONTROLLER SOFTWARE TO NTCIP	20	EA	\$500.00	\$10,000.00	\$0.01	\$0.20	\$0.01	\$0.20
AU-15	DETECTOR LOOP	500	LIN FT	\$25.00	\$12,500.00	\$14.40	\$7,200.00	\$0.01	\$5.00
AU-16	PEDESTRIAN PUSH BUTTON	8	EA	\$400.00	\$3,200.00	\$0.01	\$0.08	\$0.01	\$0.08
AU-17	GALVANIZED STEEL UNDERGROUND CONDUIT, 2 INCH	100	LIN FT	\$20.00	\$2,000.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-18	ELECTRIC CABLE IN CONDUIT, NO. 14 1/C	1500	LIN FT	\$0.75	\$1,125.00	\$0.01	\$15.00	\$0.01	\$15.00
AU-19	ELECTRIC CABLE IN CONDUIT, NO. 14 2/C	100	LIN FT	\$2.25	\$225.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-20	ELECTRIC CABLE IN CONDUIT, NO. 14 3/C	100	LIN FT	\$2.50	\$250.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-21	ELECTRIC CABLE IN CONDUIT, NO. 14 5/C	100	LIN FT	\$3.00	\$300.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-22	ELECTRIC CABLE IN CONDUIT, NO. 14 7/C	100	LIN FT	\$3.50	\$350.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-23	ELECTRIC CABLE IN CONDUIT, NO. 14 2/C, TWISTED, SHIELDED	100	LIN FT	\$3.00	\$300.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-24	ELECTRIC CABLE IN CONDUIT, NO. 6 1/C	200	LIN FT	\$2.00	\$400.00	\$0.01	\$2.00	\$0.01	\$2.00
AU-25	ELECTRIC CABLE IN CONDUIT, NO. 10 2/C	100	LIN FT	\$2.00	\$200.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-26	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	100	LIN FT	\$1.70	\$170.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-27	ELECTRIC CABLE IN CONDUIT, COAXIAL	100	LIN FT	\$2.50	\$250.00	\$0.01	\$1.00	\$0.01	\$1.00
AU-28	ELECTRIC CABLE IN CONDUIT, NO. 18 3/C FOR VIDEO	100	LIN FT	\$2.00	\$200.00	\$0.01	\$1.00	\$0.01	\$1.00

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AU-29	DELETED	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AU-30	DELETED	0	LIN FT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AU-31	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 36 FIBER (12 MULTIMODE AND 24 SINGLEMODE)	500	LIN FT	\$6.75	\$3,375.00	\$0.01	\$5.00	\$0.01	\$5.00
AU-32	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLEMODE	1000	LIN FT	\$6.00	\$6,000.00	\$0.01	\$10.00	\$0.01	\$10.00
AU-33	TRANSCEIVER, FIBER OPTIC	1	EA	\$1,500.00	\$1,500.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-34	SERVICE INSTALLATION, POLE MOUNT	5	EA	\$2,500.00	\$12,500.00	\$0.01	\$0.05	\$0.01	\$0.05
AU-35	SERVICE INSTALLATION, GROUND MOUNT	2	EA	\$3,000.00	\$6,000.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-36	CONCRETE FOUNDATION, TYPE A	8	LIN FT	\$75.00	\$600.00	\$0.01	\$0.08	\$0.01	\$0.08
AU-37	CONCRETE HANDHOLE	2	EA	\$900.00	\$1,800.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-38	CONCRETE HEAVY DUTY HANDHOLE	2	EA	\$1,200.00	\$2,400.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-39	REBUILD EXISTING HANDHOLE	4	EA	\$750.00	\$3,000.00	\$0.01	\$0.04	\$0.01	\$0.04
AU-40	DRILL EXISTING HANDHOLE	2	EA	\$400.00	\$800.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-41	ROTATE SIGNAL PHASING AT AN EXISTING TRAFFIC SIGNAL INTERSECTION	2	EA	\$200.00	\$400.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-42	VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)	1	EA	\$22,500.00	\$22,500.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-43	SPLICE FIBER OPTIC CABLE IN CABINET	50	EA	\$60.00	\$3,000.00	\$0.01	\$0.50	\$0.01	\$0.50
AU-44	TERMINATE FIBER IN CABINET	50	EA	\$60.00	\$3,000.00	\$0.01	\$0.50	\$0.01	\$0.50
AU-45	REMOTE-CONTROLLED VIDEO SYSTEM	1	EA	\$7,500.00	\$7,500.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-46	LED INTERNALLY ILLUMINATED STREET NAME SIGN	4	EA	\$3,000.00	\$12,000.00	\$0.01	\$0.04	\$0.01	\$0.04
AU-47	UNINTERRUPTABLE POWER SUPPLY (UPS)	2	EA	\$7,000.00	\$14,000.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-48	RELAMP EXISTING TRAFFIC SIGNAL WITH LED MODULES	12	EA	\$7,500.00	\$90,000.00	\$0.01	\$0.12	\$2,000.00	\$24,000.00
AU-49	OUTDOOR RATED NETWORK CABLE	750	LIN FT	\$2.50	\$1,875.00	\$0.01	\$7.50	\$0.01	\$7.50
AU-50	TRAFFIC SIGNAL GROUNDING AND ELECTRICAL SERVICE UPGRADE	10	EA	\$7,500.00	\$75,000.00	\$0.01	\$0.10	\$0.01	\$0.10
AU-51	MODIFY EXISTING CONTROLLER CABINET	5	EA	\$1,000.00	\$5,000.00	\$0.01	\$0.05	\$0.01	\$0.05
AU-52	BATTERY	50	EA	\$450.00	\$22,500.00	\$305.50	\$15,275.00	\$200.00	\$10,000.00
AU-53	MALFUNCTION MANAGEMENT UNIT	5	EA	\$1,500.00	\$7,500.00	\$0.01	\$0.05	\$0.01	\$0.05
AU-54	PAINT POST	6	EA	\$1,000.00	\$6,000.00	\$0.01	\$0.06	\$0.01	\$0.06
AU-55	PAINT SHROUD	6	EA	\$1,000.00	\$6,000.00	\$0.01	\$0.06	\$0.01	\$0.06
AU-56	PAINT BACKPLATE	20	EA	\$750.00	\$15,000.00	\$0.01	\$0.20	\$0.01	\$0.20
AU-57	PAINT MAST ARM	60	LIN FT	\$150.00	\$9,000.00	\$0.01	\$0.60	\$0.01	\$0.60
SUBTOTAL FOR AU ITEMS:				\$	409,520.00	\$	22,527.67	\$	34,057.55

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				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
TEMPORARY TRAFFIC SIGNAL INSTALLATION									
AV-1	INSTALL TEMPORARY TRAFFIC SIGNAL, FOUR APPROACHES OR LESS	1	EA	\$25,000.00	\$25,000.00	\$0.01	\$0.01	\$0.01	\$0.01
AV-2	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL, FOUR APPROACHES OR LESS	1	EA	\$2,000.00	\$2,000.00	\$0.01	\$0.01	\$0.01	\$0.01
SUBTOTAL FOR AV ITEMS:				\$ 27,000.00		\$ 0.02		\$ 0.02	
TOTAL CONTRACT PRICE									
ROUTINE				\$ 750,855.60		\$ 621,379.44		\$ 644,727.60	
AB SUBTOTAL:				\$ 10,000.00		\$ 1.00		\$ 9,000.00	
BUDGET ALLOWANCE, ITEM AC:				\$ 40,000.00		\$ 40,000.00		\$ 40,000.00	
BUDGET ALLOWANCE, ITEM AD:				\$ 125,000.00		\$ 125,000.00		\$ 125,000.00	
AU SUBTOTAL:				\$ 409,520.00		\$ 22,527.67		\$ 34,057.55	
AV SUBTOTAL:				\$ 27,000.00		\$ 0.02		\$ 0.02	
TOTAL CONTRACT PRICE									
(SUM OF 6 LINES ABOVE)				\$ 1,362,375.60		\$ 808,908.13		\$ 852,785.17	