

**2020 TRAFFIC SIGNAL MAINTENANCE CONTRACT, SECTION 20-00000-01-GM, BID TABULATION**

LETTING DATE 8/6/2019

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: <u>\$280.00</u>		PRICE PER EQUIVALENT LOCATION UNIT PER MONTH: <u>\$283.99</u>		PRICE PER EQUIVALENT LOCATION UNIT PER MONTH: <u>\$223.00</u>	
				MULTIPLIED BY ELU's = <u>\$71,344.00</u> /MO.		MULTIPLIED BY ELU's = <u>\$72,360.65</u> /MO.		MULTIPLIED BY ELU's = <u>\$56,820.40</u> /MO.	
				FOR ROUTINE MAINTENANCE (A AND B PAY ITEMS) \$71,344.00 X 12 MONTHS = <u>\$856,128.00</u> FOR ROUTINE MAINTENANCE FOR ENTIRE YEAR		FOR ROUTINE MAINTENANCE (A AND B PAY ITEMS) \$72,360.65 X 12 MONTHS = <u>\$868,327.82</u> FOR ROUTINE MAINTENANCE FOR ENTIRE YEAR		FOR ROUTINE MAINTENANCE (A AND B PAY ITEMS) \$56,820.40 X 12 MONTHS = <u>\$681,844.80</u> 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	200		A-1	\$56,000.00	A-1	\$56,798.00	A-1	\$44,600.00
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	2.4		A-3	\$672.00	A-3	\$681.58	A-3	\$535.20
A-4	FLASHING BEACON, LOW MOUNT, ONE OR MORE FACES	4.4		A-4	\$1,232.00	A-4	\$1,249.56	A-4	\$981.20
A-5	VEHICLE COUNTING STATION	0.75		A-5	\$210.00	A-5	\$212.99	A-5	\$167.25
A-6	VIDEO COMMUNICATIONS CABINET, GIGABIT ETHERNET	10		A-6	\$2,800.00	A-6	\$2,839.90	A-6	\$2,230.00
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	\$700.00	A-9	\$709.98	A-9	\$557.50
A10	REMOTE-CONTROLLED VIDEO SYSTEM	4.75		A10	\$1,330.00	A10	\$1,348.95	A10	\$1,059.25
B-1	STREET LIGHTING LOCATION	30		B-1	\$8,400.00	B-1	\$8,519.70	B-1	\$6,690.00
		TOTAL ELU's 254.8							

AB-1	HOURLY RATE FOR EXTRA WORK	100	HR	<u>\$100.00</u>	<u>\$10,000.00</u>	<u>\$112.60</u>	<u>\$11,260.00</u>	<u>\$49.00</u>	<u>\$4,900.00</u>
				SUBTOTAL FOR AB ITEMS:	<u>\$ 10,000.00</u>	<u>\$ 11,260.00</u>	<u>\$ 4,900.00</u>		
AC-1	BUDGETARY ALLOWANCE FOR EXTRA WORK				SUBTOTAL FOR AC ITEMS:	<u>\$ 40,000.00</u>	<u>\$ 40,000.00</u>	<u>\$ 40,000.00</u>	
AD-1	KNOCKDOWNS				SUBTOTAL FOR AD ITEMS:	<u>\$ 125,000.00</u>	<u>\$ 125,000.00</u>	<u>\$ 125,000.00</u>	

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				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
<b>EQUIPMENT</b>									
AU-1	SIGNAL HEAD, LED, 1-SECTION, MOUNTING AS SPECIFIED	1	EA	\$250.00	\$250.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-2	SIGNAL HEAD, LED, 3-SECTION, MOUNTING AS SPECIFIED	1	EA	\$750.00	\$750.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-3	SIGNAL HEAD, LED, 4-SECTION, MOUNTING AS SPECIFIED	1	EA	\$850.00	\$850.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-4	SIGNAL HEAD, LED, 5-SECTION, MOUNTING AS SPECIFIED	8	EA	\$1,100.00	\$8,800.00	\$0.01	\$0.08	\$0.01	\$0.08
AU-5	DELETED	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AU-6	PEDESTRIAN SIGNAL HEAD, LED, COUNTDOWN, MOUNTING AS SPECIFIED	1	EA	\$650.00	\$650.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-7	TRAFFIC SIGNAL BACKPLATE	2	EA	\$125.00	\$250.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-8	EMERGENCY VEHICLE PREEMPTION SYSTEM	1	EA	\$3,500.00	\$3,500.00	\$0.01	\$0.01	\$0.01	\$0.01
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	1	EA	\$750.00	\$750.00	\$0.01	\$0.01	\$0.01	\$0.01
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	1	EA	\$3,500.00	\$3,500.00	\$0.01	\$0.01	\$0.01	\$0.01
AU-13	DELETED	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AU-14	UPGRADE EXISTING LOCAL CONTROLLER SOFTWARE TO NTCIP	20	EA	\$150.00	\$3,000.00	\$0.01	\$0.20	\$0.01	\$0.20
AU-15	DETECTOR LOOP	500	LIN FT	\$25.00	\$12,500.00	\$18.20	\$9,100.00	\$0.01	\$5.00
AU-16	PEDESTRIAN PUSH BUTTON	2	EA	\$400.00	\$800.00	\$0.01	\$0.02	\$12.00	\$24.00
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, TRACER, NO. 14 1/C	1000	LIN FT	\$0.75	\$750.00	\$0.01	\$10.00	\$0.01	\$10.00
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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				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
AU-29	DELETED	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AU-30	DELETED	0		\$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)	1000	LIN FT	\$6.75	\$6,750.00	\$0.01	\$10.00	\$0.01	\$10.00
AU-32	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLEMODE	1000	LIN FT	\$6.00	\$6,000.00	\$0.01	\$10.00	\$2.70	\$2,700.00
AU-33	DELETED	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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	DELETED	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AU-38	DELETED	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AU-39	REBUILD EXISTING HANDHOLE	4	EA	\$750.00	\$3,000.00	\$1,265.50	\$5,062.00	\$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	1	EA	\$200.00	\$200.00	\$0.01	\$0.01	\$0.01	\$0.01
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	\$150.00	\$7,500.00	\$115.00	\$5,750.00	\$0.01	\$0.50
AU-44	TERMINATE FIBER IN CABINET	50	EA	\$150.00	\$7,500.00	\$125.00	\$6,250.00	\$0.01	\$0.50
AU-45	REMOTE-CONTROLLED VIDEO SYSTEM	5	EA	\$7,500.00	\$37,500.00	\$0.01	\$0.05	\$0.01	\$0.05
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	DELETED	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AU-48	RELAMP EXISTING TRAFFIC SIGNAL WITH LED MODULES	12	EA	\$7,500.00	\$90,000.00	\$3,556.70	\$42,680.40	\$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	\$3,359.00	\$33,590.00	\$0.01	\$0.10
AU-51	MODIFY EXISTING CONTROLLER CABINET	2	EA	\$1,000.00	\$2,000.00	\$0.01	\$0.02	\$0.01	\$0.02
AU-52	BATTERY	50	EA	\$350.00	\$17,500.00	\$292.00	\$14,600.00	\$280.00	\$14,000.00
AU-53	MALFUNCTION MANAGEMENT UNIT	5	EA	\$1,500.00	\$7,500.00	\$1,152.70	\$5,763.50	\$1,100.00	\$5,500.00
AU-54	PAINT POST	6	EA	\$500.00	\$3,000.00	\$0.01	\$0.06	\$250.00	\$1,500.00
AU-55	PAINT SHROUD	6	EA	\$500.00	\$3,000.00	\$0.01	\$0.06	\$250.00	\$1,500.00
AU-56	PAINT BACKPLATE	20	EA	\$300.00	\$6,000.00	\$0.01	\$0.20	\$100.00	\$2,000.00

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AU-57	PAINT MAST ARM	60	LIN FT	\$100.00	\$6,000.00	\$0.01	\$0.60	\$50.00	\$3,000.00
AU-58	INSTALL NEW UPS IN EXISTING UPS CABINET	10	EA	\$3,500.00	\$35,000.00	\$3,167.40	\$31,674.00	\$2,000.00	\$20,000.00
SUBTOTAL FOR AU ITEMS:				\$	424,020.00	\$	154,521.04	\$	74,270.34

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				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION</b>									
AV-1	INSTALL TEMPORARY TRAFFIC SIGNAL, FOUR APPROACHES OR LESS	1	EA	\$25,000.00	\$25,000.00	\$0.01	\$0.01	\$100.00	\$100.00
AV-2	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL, FOUR APPROACHES OR LESS	1	EA	\$2,000.00	\$2,000.00	\$0.01	\$0.01	\$50.00	\$50.00
<b>SUBTOTAL FOR AV ITEMS:</b>				<b>\$ 27,000.00</b>		<b>\$ 0.02</b>		<b>\$ 150.00</b>	
<b>TOTAL CONTRACT PRICE</b>									
				ROUTINE MAINTENANCE:	\$ 856,128.00				
				AB SUBTOTAL:	\$ 10,000.00				
				BUDGET ALLOWANCE, ITEM AC:	\$ 40,000.00				
				BUDGET ALLOWANCE, ITEM AD:	\$ 125,000.00				
				AU SUBTOTAL:	\$ 424,020.00				
				AV SUBTOTAL:	\$ 27,000.00				
				<b>TOTAL CONTRACT PRICE (SUM OF 6 LINES ABOVE)</b>	<b>\$ 1,482,148.00</b>				
						ROUTINE MAINTENANCE:	\$ 868,327.82		
						AB SUBTOTAL:	\$ 11,260.00		
						ITEM AC:	\$ 40,000.00		
						ITEM AD:	\$ 125,000.00		
						AU SUBTOTAL:	\$ 154,521.04		
						AV SUBTOTAL:	\$ 0.02		
						<b>TOTAL CONTRACT PRICE (SUM OF 6 LINES ABOVE)</b>	<b>\$ 1,199,108.88</b>		
						ROUTINE MAINTENANCE:	\$ 681,844.80		
						AB SUBTOTAL:	\$ 4,900.00		
						ITEM AC:	\$ 40,000.00		
						ITEM AD:	\$ 125,000.00		
						AU SUBTOTAL:	\$ 74,270.34		
						AV SUBTOTAL:	\$ 150.00		
						<b>TOTAL CONTRACT PRICE (SUM OF 6 LINES ABOVE)</b>	<b>\$ 926,165.14</b>		