

LETTING DATE 9/29/2015

2016 TRAFFIC SIGNAL MAINTENANCE CONTRACT, SECTION 16-00000-01-CM, BID TABULATION

ITEM No.	DESCRIPTION	EST. QNTY.	UNIT	ENGINEER'S ESTIMATE UNIT PRICE TOTAL PRICE
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ITEM No.	DESCRIPTION	EST. QNTY.	UNIT	H & H ELECTRIC COMPANY UNIT PRICE TOTAL PRICE
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ITEM No.	DESCRIPTION	EST. QNTY.	UNIT	MEADE INC. UNIT PRICE TOTAL PRICE
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Franklin Park, IL

McCook, IL

PRICE PER EQUIVALENT LOCATION UNIT
PER MONTH:
\$283.00

MULTIPLIED BY ELU'S

= \$88,585.05 /MO.

FOR ROUTINE MAINTENANCE
(A AND B PAY ITEMS)

\$88,585.05 X 12 MONTHS

= \$823,020.60

FOR ROUTINE MAINTENANCE
FOR ENTIRE YEAR

PRICE PER EQUIVALENT LOCATION
UNIT PER MONTH:
\$276.40

MULTIPLIED BY ELU'S

= \$66,985.54 /MO.

FOR ROUTINE MAINTENANCE
(A AND B PAY ITEMS)

\$66,985.54 X 12 MONTHS

= \$803,826.48

FOR ROUTINE MAINTENANCE
FOR ENTIRE YEAR

PRICE PER EQUIVALENT LOCATION
UNIT PER MONTH:
\$232.50

MULTIPLIED BY ELU'S

= \$56,346.38 /MO.

FOR ROUTINE MAINTENANCE
(A AND B PAY ITEMS)

\$56,346.38 X 12 MONTHS

= \$676,156.50

FOR ROUTINE MAINTENANCE
FOR ENTIRE YEAR

ITEM	DESCRIPTION	EQUIVALENT LOCATION UNITS	ITEM	EXTENSION DOLLARS PER MONTH
A-1	TRAFFIC SIGNAL LOCATION	175	A-1	\$49,325.00
A-2	TEMPORARY TRAFFIC SIGNAL LOCATION	0	A-2	\$0.00
A-3	FLASHING BEACON, OVERHEAD MOUNT, ONE OR MORE FACES	2	A-3	\$565.00
A-4	VEHICLE COUNTING STATION	4.6	A-4	\$1,271.44
A-5	VIDEO COMMUNICATIONS CABINET, GIGABIT ETHERNET	2	A-5	\$565.00
A-6	LAYER II DATA LINK SWITCH	10	A-6	\$2,784.00
A-7	LAYER III NETWORK SWITCH	15.4	A-7	\$4,256.56
A-8	HIGHWAY ADVISORY RADIO (HAR)	4.6	A-8	\$1,271.44
A-9	REMOTE-CONTROLLED VIDEO SYSTEM	2.5	A-9	\$691.00
A-10	STREET LIGHTING LOCATION	3.75	A-10	\$1,036.50
B-1		22.5	B-1	\$6,218.00
TOTAL ELU'S		242.35		

ITEM	EXTENSION DOLLARS PER MONTH
A-1	\$49,325.00
A-2	\$0.00
A-3	\$565.00
A-4	\$1,271.44
A-5	\$565.00
A-6	\$2,784.00
A-7	\$4,256.56
A-8	\$1,271.44
A-9	\$691.00
A-10	\$1,036.50
B-1	\$6,218.00

ITEM	EXTENSION DOLLARS PER MONTH
A-1	\$40,687.50
A-2	\$0.00
A-3	\$465.00
A-4	\$1,069.50
A-5	\$465.00
A-6	\$2,325.00
A-7	\$3,580.50
A-8	\$1,069.50
A-9	\$581.25
A-10	\$871.88
B-1	\$5,231.25

AB-1 HOURLY RATE FOR EXTRA WORK

100 HR \$100.00 \$10,000.00

\$82.40 \$8,240.00

\$109.00 \$10,900.00

SUBTOTAL FOR AB ITEMS: \$ 10,000.00

\$ 8,240.00

\$ 10,900.00

AC-1 BUDGETARY ALLOWANCE FOR EXTRA WORK

SUBTOTAL FOR AC ITEMS: \$ 40,000.00

\$ 40,000.00

\$ 40,000.00

AD-1 KNOCKDOWNS

SUBTOTAL FOR AD ITEMS: \$ 100,000.00

\$ 100,000.00

\$ 100,000.00

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2016 TRAFFIC SIGNAL MAINTENANCE CONTRACT, SECTION 16-00000-01-CM1, BID TABULATION

EQUIPMENT									
AU-1	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, MOUNTING AS SPECIFIED	2	EA	\$250.00	\$500.00	\$0.01	\$0.02	\$50.00	\$100.00
AU-2	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MOUNTING AS SPECIFIED	2	EA	\$750.00	\$1,500.00	\$0.01	\$0.02	\$250.00	\$500.00
AU-3	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MOUNTING AS SPECIFIED	2	EA	\$850.00	\$1,700.00	\$0.01	\$0.02	\$350.00	\$700.00
AU-4	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MOUNTING AS SPECIFIED	8	EA	\$1,100.00	\$8,800.00	\$0.01	\$0.08	\$400.00	\$3,200.00
AU-5	PEDESTRIAN SIGNAL HEAD, LED, MOUNTING AS SPECIFIED	2	EA	\$500.00	\$1,000.00	\$0.01	\$0.02	\$150.00	\$300.00
AU-6	PEDESTRIAN SIGNAL HEAD, LED, COUNTDOWN, MOUNTING AS SPECIFIED	4	EA	\$650.00	\$2,600.00	\$0.01	\$0.04	\$325.00	\$1,300.00
AU-7	TRAFFIC SIGNAL BACKPLATE	4	EA	\$125.00	\$500.00	\$0.01	\$0.04	\$110.00	\$440.00
AU-8	EMERGENCY VEHICLE PREEMPTION SYSTEM	2	EA	\$3,500.00	\$7,000.00	\$0.01	\$0.02	\$1,000.00	\$2,000.00
AU-9	FULL ACTUATED CONTROLLER, IN TYPE IV CABINET, NEMA-TS2	1	EA	\$13,000.00	\$13,000.00	\$11,737.50	\$11,737.50	\$9,800.00	\$9,800.00
AU-10	INSTALL EXISTING TRAFFIC SIGNAL CABINET	2	EA	\$750.00	\$1,500.00	\$0.01	\$0.02	\$25.00	\$50.00
AU-11	INSTALL EXISTING TRAFFIC SIGNAL CONTROLLER	2	EA	\$150.00	\$300.00	\$0.01	\$0.02	\$25.00	\$50.00
AU-12	FULL ACTUATED CONTROLLER	2	EA	\$3,500.00	\$7,000.00	\$3,975.00	\$7,950.00	\$2,400.00	\$4,800.00
AU-13	INSTALL UPDATED PROM SET AT EXISTING LOCAL OR MASTER CONTROLLER	2	EA	\$500.00	\$1,000.00	\$0.01	\$0.02	\$400.00	\$800.00
AU-14	UPGRADE EXISTING LOCAL CONTROLLER SOFTWARE TO NTCP	4	EA	\$500.00	\$2,000.00	\$0.01	\$0.04	\$400.00	\$1,600.00
AU-15	DETECTOR LOOP	500	LN FT	\$25.00	\$12,500.00	\$4.00	\$2,000.00	\$14.00	\$7,000.00
AU-16	PEDESTRIAN PUSH BUTTON	16	EA	\$400.00	\$6,400.00	\$143.30	\$2,292.80	\$200.00	\$3,200.00
AU-17	GALVANIZED STEEL UNDERGROUND CONDUIT, 2 INCH	100	LN FT	\$20.00	\$2,000.00	\$2.80	\$280.00	\$15.00	\$1,500.00
AU-18	ELECTRIC CABLE IN CONDUIT, NO. 14 1/C	1500	LN FT	\$0.75	\$1,125.00	\$0.01	\$15.00	\$0.60	\$900.00
AU-19	ELECTRIC CABLE IN CONDUIT, NO. 14 2/C	100	LN FT	\$2.25	\$225.00	\$0.01	\$1.00	\$1.00	\$100.00
AU-20	ELECTRIC CABLE IN CONDUIT, NO. 14 3/C	100	LN FT	\$2.50	\$250.00	\$0.01	\$1.00	\$1.00	\$100.00
AU-21	ELECTRIC CABLE IN CONDUIT, NO. 14 5/C	100	LN FT	\$3.00	\$300.00	\$0.01	\$1.00	\$1.00	\$100.00
AU-22	ELECTRIC CABLE IN CONDUIT, NO. 14 7/C	200	LN FT	\$3.50	\$700.00	\$0.01	\$2.00	\$1.00	\$200.00
AU-23	ELECTRIC CABLE IN CONDUIT, NO. 14 2/C, TWISTED, SHIELDED	100	LN FT	\$3.00	\$300.00	\$6.20	\$20.00	\$2.00	\$200.00
AU-24	ELECTRIC CABLE IN CONDUIT, NO. 6 1/C	200	LN FT	\$2.00	\$400.00	\$0.30	\$60.00	\$3.00	\$600.00
AU-25	ELECTRIC CABLE IN CONDUIT, NO. 10 2/C	100	LN FT	\$2.00	\$200.00	\$0.70	\$70.00	\$1.00	\$100.00
AU-26	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	100	LN FT	\$1.70	\$170.00	\$0.01	\$1.00	\$0.75	\$75.00
AU-27	ELECTRIC CABLE IN CONDUIT, COAXIAL	100	LN FT	\$2.50	\$250.00	\$0.01	\$1.00	\$1.50	\$150.00
AU-28	ELECTRIC CABLE IN CONDUIT, NO. 18 3/C FOR VIDEO	100	LN FT	\$2.00	\$200.00	\$0.01	\$1.00	\$1.00	\$100.00
AU-29	DELETED	0	LN FT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LETTING DATE 9/29/2015

2016 TRAFFIC SIGNAL MAINTENANCE CONTRACT, SECTION 16-00000-01-CM, BID TABULATION

AU-30	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24 FIBER (12 MULTIMODE AND 12 SINGLEMODE)	500	LIN FT	\$6.50	\$3,250.00	\$0.01	\$5.00	\$4.75	\$2,375.00
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	\$0.80	\$400.00	\$4.75	\$2,375.00
AU-32	FIBER OPTIC CABLE IN CONDUIT, 24 SINGLEMODE	500	LIN FT	\$6.00	\$3,000.00	\$0.01	\$5.00	\$4.75	\$2,375.00
AU-33	TRANSCIVER, FIBER OPTIC	1	EA	\$1,500.00	\$1,500.00	\$0.01	\$0.01	\$1,250.00	\$1,250.00
AU-34	SERVICE INSTALLATION, POLE MOUNT	5	EA	\$2,500.00	\$12,500.00	\$755.50	\$3,777.50	\$1,450.00	\$7,250.00
AU-35	SERVICE INSTALLATION, GROUND MOUNT	2	EA	\$3,000.00	\$6,000.00	\$1,328.20	\$2,656.40	\$4,900.00	\$9,800.00
AU-36	CONCRETE FOUNDATION, TYPE A	16	LIN FT	\$75.00	\$1,200.00	\$0.01	\$0.16	\$25.00	\$400.00
AU-37	CONCRETE HANDHOLE	2	EA	\$900.00	\$1,800.00	\$0.01	\$0.02	\$100.00	\$200.00
AU-38	CONCRETE HEAVY DUTY HANDHOLE	2	EA	\$1,200.00	\$2,400.00	\$0.01	\$0.02	\$200.00	\$400.00
AU-39	REBUILD EXISTING HANDHOLE	2	EA	\$750.00	\$1,500.00	\$310.70	\$621.40	\$200.00	\$400.00
AU-40	DRILL EXISTING HANDHOLE	2	EA	\$400.00	\$800.00	\$0.01	\$0.02	\$200.00	\$400.00
AU-41	ROTATE SIGNAL PHASING AT AN EXISTING TRAFFIC SIGNAL INTERSECTION	2	EA	\$200.00	\$400.00	\$0.01	\$0.02	\$50.00	\$100.00
AU-42	VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)	1	EA	\$22,500.00	\$22,500.00	\$13,511.70	\$13,511.70	\$8,000.00	\$8,000.00
AU-43	SPLICE FIBER OPTIC CABLE IN CABINET	50	EA	\$50.00	\$2,500.00	\$75.00	\$3,750.00	\$40.00	\$2,000.00
AU-44	TERMINATE FIBER IN CABINET	50	EA	\$50.00	\$2,500.00	\$0.01	\$0.50	\$40.00	\$2,000.00
AU-45	REMOTE-CONTROLLED VIDEO SYSTEM	1	EA	\$7,500.00	\$7,500.00	\$1,993.20	\$1,993.20	\$4,500.00	\$4,500.00
AU-46	LED INTERNALLY ILLUMINATED STREET NAME SIGN	4	EA	\$3,000.00	\$12,000.00	\$1,634.20	\$6,536.80	\$2,000.00	\$8,000.00
AU-47	UNINTERRUPTIBLE POWER SUPPLY (UPS)	2	EA	\$7,000.00	\$14,000.00	\$2,000.00	\$4,000.00	\$4,500.00	\$9,000.00
AU-48	RELAMP EXISTING TRAFFIC SIGNAL WITH LED MODULES	12	EA	\$7,500.00	\$90,000.00	\$557.60	\$6,691.20	\$4,300.00	\$51,600.00
AU-49	OUTDOOR RATED NETWORK CABLE	750	LIN FT	\$2.50	\$1,875.00	\$0.01	\$7.50	\$1.50	\$1,125.00
AU-50	TRAFFIC SIGNAL GROUNDING AND ELECTRICAL SERVICE UPGRADE	10	EA	\$7,500.00	\$75,000.00	\$755.50	\$7,555.00	\$4,500.00	\$45,000.00
AU-51	MODIFY EXISTING CONTROLLER CABINET	10	EA	\$1,000.00	\$10,000.00	\$0.01	\$0.10	\$500.00	\$5,000.00
AU-52	BATTERY	10	EA	\$900.00	\$9,000.00	\$1,037.70	\$10,377.00	\$350.00	\$3,500.00
AU-53	MULTIFUNCTION MANAGEMENT UNIT	5	EA	\$1,500.00	\$7,500.00	\$1,250.00	\$6,250.00	\$800.00	\$4,000.00
AU-54	PAINT POST	6	EA	\$1,000.00	\$6,000.00	\$75.00	\$450.00	\$300.00	\$1,800.00
AU-55	PAINT SHROUD	6	EA	\$1,000.00	\$6,000.00	\$25.00	\$150.00	\$600.00	\$4,800.00
AU-56	PAINT BACKPLATE	20	EA	\$750.00	\$15,000.00	\$10.00	\$200.00	\$40.00	\$800.00
AU-57	PAINT MAST ARM	60	LIN FT	\$150.00	\$9,000.00	\$5.00	\$300.00	\$30.00	\$1,800.00
SUBTOTAL FOR AU ITEMS:				\$	385,520.00	\$	83,672.21	\$	220,215.00

LETTING DATE 9/29/2015

2016 TRAFFIC SIGNAL MAINTENANCE CONTRACT, SECTION 16-00000-01-GM, BID TABULATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION

AV-1	INSTALL TEMPORARY TRAFFIC SIGNAL, FOUR APPROACHES OR LESS	1	EA	\$25,000.00	\$25,000.00
AV-2	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL, FOUR APPROACHES OR LESS	1	EA	\$2,000.00	\$2,000.00
SUBTOTAL FOR AV ITEMS:				\$	27,000.00

TOTAL CONTRACT PRICE

ROUTINE		
MAINTENANCE:	\$	823,020.80
AB SUBTOTAL:	\$	10,000.00
BUDGET ALLOWANCE, ITEM AC:	\$	40,000.00
BUDGET ALLOWANCE, ITEM AD:	\$	100,000.00
AU SUBTOTAL:	\$	395,520.00
AV SUBTOTAL:	\$	27,000.00

TOTAL CONTRACT PRICE
(SUM OF 6 LINES ABOVE)
\$ 1,385,540.80

	\$0.01	\$0.01
	\$0.01	\$0.01
	\$	0.02

TOTAL CONTRACT PRICE

ROUTINE		
MAINTENANCE:	\$	803,826.48
AB SUBTOTAL:	\$	8,240.00
ITEM AC:	\$	40,000.00
ITEM AD:	\$	100,000.00
AU SUBTOTAL:	\$	93,672.21
AV SUBTOTAL:	\$	0.02

TOTAL CONTRACT PRICE
(SUM OF 6 LINES ABOVE)
\$ 1,045,738.71

	\$500.00	\$500.00
	\$100.00	\$100.00
	\$	600.00

TOTAL CONTRACT PRICE

ROUTINE		
MAINTENANCE:	\$	676,156.50
AB SUBTOTAL:	\$	10,900.00
ITEM AC:	\$	40,000.00
ITEM AD:	\$	100,000.00
AU SUBTOTAL:	\$	220,215.00
AV SUBTOTAL:	\$	600.00

TOTAL CONTRACT PRICE
(SUM OF 6 LINES ABOVE)
\$ 1,047,871.50