TRAFFIC SIGNAL GENERAL NOTES

1. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12 INCH SINGLE LED LENSES.
2. THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 16 FOOT CLEARANCE FROM THE BOTTOM OF THE SIGNAL HEAD ASSEMBLY TO THE HIGHEST POINT ON THE ROADWAY.
3. FOR ALL THROUGH LANES THE PROPOSED MAST ARM SIGNAL HEADS SHALL BE MOUNTED DIRECTLY ABOVE THEIR RESPECTIVE LANES.
4. ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.
5. ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
6. ALL HANDHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE SIDEWALK OR GROUND LINE.
7. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
8. THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE ORIENTED SO THAT THE DOOR OPENS AWAY FROM THE ROADWAY.
9. THE DOUBLE HANDHOLE SHALL NOT BE USED IN LIEU OF THE CONTROLLER FOUNDATION PAD.
10. THE CONTRACTOR MAY INSTALL SIGNAL CONDUIT BY USING ANY OF THE IDOT APPROVED METHODS OF INSTALLATION. TRENCHING AND BACKFILLING OF CONDUIT WILL BE ALLOWED, HOWEVER THE CONTRACTOR WILL NOT BE PAID FOR TRENCHING AND BACKFILLING AREAS FOR ELECTRICAL SYSTEMS.
11. THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FONDATIONS AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE FIELD LOCATION SHALL BE COORDINATED WITH IDOT'S TRAFFIC OPERATIONS MANAGER AND THE CITY OF ROCKFORD PRIOR TO INSTALLATION.
12. THE EXISTING TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL UNTIL THE PROPOSED SIGNALS ARE INSTALLED AND OPERATIONAL.
13. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES OR EXISTING PAVEMENT.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTIONG THE CONDUIT.
15. ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS AND LIGHITNG CONTROLLERS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING DEPARTMENT LIGHTING AND TRAFFIC SIGNAL FACILITIES. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE.
17. THE EXISTING SIGNAL INTERCONNECT CABLE SHALL BE PULLED BACK TO THE NEAREST HANDHOLE OUTSIDE THE PROJECT LIMITS TO BE REINSTALLED TO THE NEW CONTROLLER.
18. ALL EXISTING SIGNAL HARDWARE AND EQUIPMENT (INCLUDING EVP) SHALL BE INSPECTED, AND AT THE DISCRETION OF THE CITY, REMOVED BY THE CONTRACTOR AND RETURNED TO THE CITY OF ROCKFORD, 500 S. INDEPENDENCE, ROCKFORD, IL. PRIOR TO THE REMOVAL, THE SIGNAL HARDWARE AND EQUIPMENT SHALL BE INSPECTED BY MR. JOHN ANDREE AT (815) 987-5535 TO ENSURE THAT ALL APPROPRIATE EQUIPMENT IS SALVAGED AND RETURNED. PLEASE NOTE THAT NOT ALL EQUIPMENT WILL BE KEPT BY THE CITY AND THE REMAINING EQUIPMENT SHALL BE DISPOSED OF BY THE CONTRACTOR.
19. THE CONTRACTOR SHALL MAINTAIN ALL SIGNALS DURING CONSTRUCTION.
20. THE CONTRACTOR SHALL COORDINATE THE TEMPORARY SIGNALS WITH THE CITY'S EXISTING SIGNALS DURING CONSTRUCTION.

TRAFFIC SIGNAL SUMMARY OF QUANTITIES

PAY ITEM	ITEM DESCRIPTION	UNIT	QUANITY	SP
72000100	Sign Panel - Type 1	SqFt	48	
72000200	Sign Panel - Type 2	SqFt	80	
80500100	Service Installation, Type A	Each	1	
81028750	Underground Conduit, Coilable Nonmetallic Conduit, 2" Dia.	Foot	373	
81028760	Underground Conduit, Coilable Nonmetallic Conduit, 2 1/2" Dia.	Foot	46	
81028790	Underground Conduit, Coilable Nonmetallic Conduit, 4" Dia.	Foot	614	
81400100	Handhole	Each	3	
81400300	Double Handhole	Each	1	
81400730	Handhole, Composite Concrete	Each	3	*
81702110	Electric Cable in Conduit, 600V (XLP-Type Use) 1/C No. 10	Foot	1036	
85100500	Paint New Traffic Signal Post	Each	2	
85100900	Paint New Combination Mast Arm and Pole, Over 40 Foot	Each	4	
85700300	Full-Actuated Controller and Type V Cabinet	Each	1	
87301215	Electric Cable In Conduit, Signal No. 14 2C	Foot	568	
87301235	Electric Cable In Conduit, Signal No. 14 4C	Foot	928	
87301245	Electric Cable In Conduit, Signal No. 14 5C	Foot	3968	
87301255	Electric Cable In Conduit, Signal No. 14 7C	Foot	1435	
87301815	Electric Cable In Conduit, Service No. 6 3C	Foot	167	
87301900	Electric Cable in Conduit, Equipment Grounding Conductor, No. 6 1/C	Foot	660	
87500600	Traffic Signal Post, 10 Ft.	Each	2	
87702990	Steel Combination Mast Arm Assembly and Pole, 54 Ft.	Each	1	
87703000	Steel Combination Mast Arm Assembly and Pole, 55 Ft.	Each	2	
87703030	Steel Combination Mast Arm Assembly and Pole, 60 Ft.	Each	1	
87800100	Concrete Foundation, Type A	Foot	6	
87800200	Concrete Foundation, Type D	Foot	4	
87800415	Concrete Foundation, Type F, 36 Inch Diameter	Foot	45	*
87800420	Concrete Foundation, Type E, 42 Inch Diameter	Foot	21	*
88040070	Signal Head, Polycarbonate LED, 1-Face, 3-Section, Bracket Mounted	Each	2	
88040090	Signal Head, Polycarbonate LED, 1-Face, 3-Section, Mast Arm Mounted	Each	12	
88040150	Signal Head, Polycarbonate LED, 1-Face, 5-Section, Bracket Mounted	Each	6	
88040160	Signal Head, Polycarbonate LED, 1-Face, 5-Section, Mast Arm Mounted	Each	2	
88102825	Pedestrian Signal Head, Polycarbonate, LED, 1-Face, Bracket Mounted with Countdown Timer	Each	6	
88200100	Traffic Signal Backplate	Each	14	
88600600	Detector Loop Replacement	Foot	3617	*
88800100	Pedestrian Push Button	Each	4	
89000100	Temporary Traffic Signal Installation	Each	3	
89502375	Remove Existing Traffic Signal Equipment	Each	1	*
89502380	Remove Existing Handhole	Each	6	*
89502382	Remove Existing Double Handhole	Each	2	*
89502385	Remove Existing Concrete Foundation	Each	5	*
89502500	Remove Temporary Traffic Signal Installation	Each	5	*
X0324102	Emergency Vehicle Signal Control System	Each	1	*
XX006577	Luminaire, Pulse Start, Metal Halide 400 Watt	Each	4	*
Z0033044	Re-Optimize Traffic Signal System, Level 1	Each	1	*
Z0033072	Video Vehicle Detection System	Each	1	*
Z0073510	Temporary Traffic Signal Timing	Each	1	*
*2000256	Transfer Switch	Each	1	*

88600600 DETECTOR LOOP REPLACEMENT

LOCATION	OFFSET	LOOP SIZE	TOTAL LENGTH (FT)
266+26.50	22.00' RT	6' X 6'	61
266+26.50	34.00' RT	6' X 6'	51
266+26.50	46.00' RT	6' X 6'	39
267+81.00	22.00' RT	6' X 6'	65
267+81.00	34.00' RT	6' X 6'	53
267+81.00	46.00' RT	6' X 6'	41
269+54.00	10.00' RT	6' X 20'	117
269+75.00	10.00' RT	6' X 20'	117
269+80.50	22.00' RT	6' X 20'	105
269+80.50	34.00' RT	6' X 20'	93
270+08.00	70.00' LT	6' X 20'	99
270+08.00	63.00' LT	6' X 20'	99
270+19.00	70.00' LT	6' X 20'	112
270+19.00	63.00' LT	6' X 20'	112
270+31.00	72.00' RT	6' X 20'	64
270+64.00	24.00' LT	6' X 20'	117
270+64.00	12.00' LT	6' X 20'	117
270+75.00	3.00' RT	6' X 20'	105
270+97.00	3.00' RT	6' X 20'	93
272+40.00	22.00' LT	6' X 6'	48
272+40.00	10.00' LT	6' X 6'	60
274+11.50	22.00' LT	6' X 6'	48
274+11.50	10.00' LT	6' X 6'	60
278+94.00	22.00' RT	6' X 6'	47
278+94.00	34.00' RT	6' X 6'	35
280+68.00	22.00' RT	6' X 6'	47
280+68.00	34.00' RT	6' X 6'	35
281+70.00	10.00' RT	6' X 20'	117
281+91.00	10.00' RT	6' X 20'	117
282+25.00	22.00' RT	6' X 20'	80
282+25.00	34.00' RT	6' X 20'	68
282+19.00	56.00' LT	6' X 20'	78
282+26.00	69.00' LT	6' X 20'	86
282+47.00	63.00' LT	6' X 20'	108
282+48.00	57.00' LT	6' X 20'	108
282+89.00	79.00' RT	6' X 6'	32
282+91.00	60.00' RT	6' X 20'	74
282+98.00	53.00' RT	6' X 20'	66
283+20.00	23.00' LT	6' X 20'	89
283+20.00	11.00' LT	6' X 20'	101
283+32.00	1.00' RT	6' X 20'	115
283+53.00	1.00' RT	6' X 20'	122
284+96.00	22.00' LT	6' X 6'	48
284+96.00	10.00' LT	6' X 6'	60
286+68.00	22.00' LT	6' X 6'	48
286+68.00	10.00' LT	6' X 6'	60
		TOTAL	3617 FT

MICHAEL C. HUTCHINSON
062-059525
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
Michael C. Hutchinson
Expires: 11/30/2013

TERRA ENGINEERING LTD.
225 W. OHIO ST., FOURTH FL.
CHICAGO, IL 60654
(312)467-0123

FILE NAME = D201502-sht-ts01-SignalNotes.dgn	USER NAME = TERRA	DESIGNED - MCH	REVISED -
		DRAWN - MCH	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	CHECKED - DPA	REVISED -
	PLOT DATE = 2/24/2012	DATE - 01/17/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAL PLAN
GENERAL NOTES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	34R	WINNEBAGO	491	285
		CONTRACT NO. 64515		
	ILLINOIS FED. AID PROJECT			