ELECTRICAL GENERAL NOTES

1. ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" 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 FT. MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.

3. THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF 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. THE #18 3-PAIR TWISTED/SHIELDED CABLE SHALL HAVE THE SAME SLACK AS OTHER SIGNAL CABLE AND WILL BE MEASURED FOR PAYMENT.

7. ALL DETECTOR LOOPS SHALL UTILIZE A SEPARATE PAIR OF LEAD-INS.

8. A TYPE II SPLICE SHALL BE USED FOR ALL DETECTOR LEAD-INS.

9. THE PROPOSED DETECTOR LOOPS SHALL BE CUT IN THE EXISTING PAVEMENT, MILLED SURFACE, OR BINDER COURSE BEFORE THE FINAL OVERLAY. THE RISER AREA SHALL BE CHIPPED OUT AND FILLED WITH EPOXY. THIS WORK SHALL BE INCLUDED IN PRICE FOR DETECTOR LOOPS.

10. ALL DETECTOR LOOPS SHALL BE INSTALLED IN THE CENTER OF THEIR RESPECTIVE TRAVEL LANES. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR VERIFICATION OF DETECTOR PLACEMENT BEFORE INSTALLATION.

11. PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.

12. THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.

13. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.

14. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC UNDERGROUND CONDUIT.

15. THE TRAFFIC SIGNAL CONTROLLER SHALL BE ORIENTED SO THAT THE DOOR IS FACING AWAY FROM TRAFFIC.

16. THE DOUBLE HANDHOLE SHALL NOT BE USED IN LIEU OF THE CONTROLLER FOUNDATION PAD.

17. THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERFICATION BEFORE INSTALLATION.

18. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.

19. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

20. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.

21. ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, AND PHOTOCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.

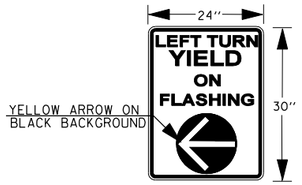
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING DEPARTMENT LIGHTING, ITS, AND TRAFFIC SIGNAL FACILITIES. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE.

23. ALL SIGNS LOCATED ON EXISTING MAST ARMS SHALL BE REINSTALLED ON THE CORRESPONDING RELOCATED OR NEW MAST ARMS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF RELOCATING THE EXISTING MAST ARMS OR INSTALLING THE NEW MAST ARMS.

24. PROPOSED CONDUIT SHALL BE COUPLED TO EXISTING CONDUITS OUTSIDE OF HANDHOLES AND FOUNDATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUITS.

25. EXISTING TRAFFIC SIGNAL AND PEDESTRIAN HEADS SHALL BE RE-ALIGNED AS REQUIRED FOR THE PROPOSED INTERSECTION GEOMETRICS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED SIGNAL HEADS.

26. ALL WORK REQUIRED TO CONNECT EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND PEDESTRIAN PUSH BUTTONS TO PROPOSED ELECTRICAL CABLE SHALL BE INCLUDED IN THE COST OF THE ELECTRIC CABLE.



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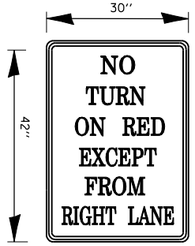
FURNISH & INSTALL FOUR (4) EACH SIGN

SIGN BACKGROUND : WHITE
SIGN LETTERING: BLACK

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



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FURNISH & INSTALL ONE (1) EACH SIGN

SIGN BACKGROUND : WHITE
SIGN LETTERING: BLACK

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)

SUMMARY OF QUANTITIES

ITEM	UNIT	TOTAL QUANTITIES	IL 6 NB RAMPS	IL 6 SB RAMPS	ALLEN ROAD AND VAN WINKLE WAY
SIGN PANEL - TYPE 1	SQ FT	28.75	13.75	5	10
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	5,477	1,069	1,114	3,294
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	794	226	393	175
UNDERGROUND CONDUIT, PVC, 3 1/2" DIA.	FOOT	574	327	92	155
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	21	6	8	7
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1		1	
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4,909	3,204	902	803
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3,390	2,444	946	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	497			497
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5,113	1,450	1,544	2,119
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,310	662	462	1,186
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	4,823	1,641	1,381	1,801
TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	2	1	1	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1	1		
PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	3			3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1		1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1	1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 60 FT.	EACH	1		1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 60 FT. AND 36 FT.	EACH	1	1		
CONCRETE FOUNDATION, TYPE A	FOOT	9	6	3	
CONCRETE FOUNDATION, TYPE D	FOOT	3.5		3.5	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54	13	11	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42	21	21	
DRILL EXISTING HANDHOLE	EACH	10	3		7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12	5	5	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	3	4	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	1	1	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2	1	1	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTIC	EACH	19	8	9	2
INDUCTIVE LOOP DETECTOR	EACH	25	8	7	10
DETECTOR LOOP, TYPE I	FOOT	2,862	894	680	1,288
RELOCATE EXISTING SIGNAL HEAD	EACH	3			3
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	5			5
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1		1	
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	2			2
REBUILD EXISTING SIGNAL HEAD, LED	EACH	4			4
MODIFY EXISTING CONTROLLER CABINET	EACH	3	1	1	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1	1	
REMOVE EXISTING HANDHOLE	EACH	10	4	5	1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	13	5	6	2
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM	EACH	2	1	1	

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	PLOT DATE = 1/27/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALLEN ROAD IMPROVEMENTS
TRAFFIC SIGNAL PLAN
GENERAL NOTES, DETAILS, AND SUMMARY OF QUANTITIES

SCALE: | SHEET 1 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6584	105	PEORIA	487	251
		CONTRACT NO. 68683		
	ILLINOIS	FED. AID PROJECT		