

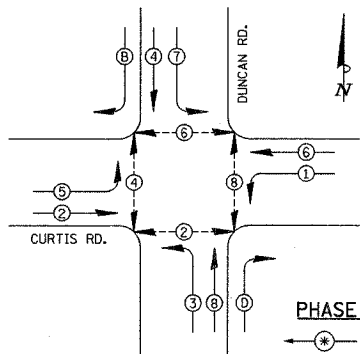
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	195
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	95
CONDUIT IN TRENCH, 5" DIA., PVC	FOOT	4
CONDUIT AUGERED, 2" DIA., PVC	FOOT	125
CONDUIT AUGERED, 4" DIA., PVC	FOOT	233
CONDUIT AUGERED, 5" DIA., PVC	FOOT	109
CONCRETE HANDHOLE	EACH	3
CONCRETE DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK SPECIAL	FOOT	294
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	725
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1450
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2000
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	2450
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 1C	FOOT	400
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	2
PEDESTRIAN PUSH-BUTTON POST, TYPE II	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
TRAFFIC SIGNAL BACKPLATE	EACH	12
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON, SPECIAL	EACH	4
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	625
INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
WIDE AREA VIDEO DETECTION SYSTEM COMPLETE	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	8

• SEE TECHNICAL SPECIFICATIONS FOR SYSTEM GROUNDING INFORMATION.

TRAFFIC SIGNAL GENERAL NOTES

- THE ACTUAL LOCATIONS OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND THE TRAFFIC SIGNAL CONTROLLER WILL BE VERIFIED IN THE FIELD BY THE ENGINEER.
- POST MOUNTED SIGNAL HEADS WILL BE INSTALLED SUCH THAT NO PART OF THE SIGNAL HEAD IS WITHIN TWO (2) FEET OF THE FACE OF CURB. MAST ARM POLES WILL BE PLACED SUCH THAT A MINIMUM DISTANCE OF SIX (6) FEET IS MAINTAINED BETWEEN THE CENTER OF THE POLE AND THE FACE OF CURB (ON THE MAST ARM SIDE).
- 12" LENSES WILL BE USED ON ALL SIGNAL FACES.
- THE LUMINAIRE ARM, LUMINAIRE POLE WIRING, AND LUMINAIRE SHALL BE ERECTED WITH THE TRAFFIC SIGNAL MAST ARM POLE. SEE THE ROADWAY LIGHTING PLANS FOR LUMINAIRE TYPE AND QUANTITY.
- MAST ARM FOUNDATIONS SHALL INCLUDE A SEPARATE STUB AND CAP FOR ROADWAY LIGHTING CABLE. ROADWAY LIGHTING CABLE AND TRAFFIC SIGNAL SHALL NOT SHARE THE SAME CONDUIT.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- A 1/4" CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES, FOUNDATIONS AND CONTROLLERS. THE ROPE SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONDUIT PAY ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK TO OBTAIN UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
- THE CONTROLLER SHALL BE ORIENTED SUCH THAT INTERSECTION OPERATION AND CONTROLLER COMPONENTS CAN BE VIEWED SIMULTANEOUSLY.
- CONTROLLER PROGRAMMING OF SIGNAL TIMING WILL BE PROVIDED BY THE CITY OF CHAMPAIGN.
- THE LIGHT DETECTORS, LIGHT DETECTOR AMPLIFIER, AND CONFIRMATION BEACONS SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND SECTION 807 OF THE STANDARD SPECIFICATIONS. THE NECESSARY CONNECTIONS FOR PROPER OPERATION OF THE EMERGENCY VEHICLE PRIORITY SYSTEM, INCLUDING ALL ELECTRIC CABLE, SHALL BE INCLUDED IN THE COST OF THE LIGHT DETECTOR.
- THE ELECTRIC CABLE FOR THE LIGHT DETECTOR SHALL BE A CONTINUOUS UNBROKEN RUN FROM THE LIGHT DETECTOR TO THE LIGHT DETECTOR AMPLIFIER. SPLICES SHALL NOT BE ALLOWED.
- THE NECESSARY CONNECTIONS FOR PROPER OPERATION OF THE VIDEO DETECTION SYSTEM, INCLUDING ALL ELECTRIC CABLE AND COAXIAL CABLE, SHALL BE INCLUDED IN THE COST OF THE WIDE AREA VIDEO DETECTION SYSTEM COMPLETE.
- THE COAXIAL CABLE FOR THE VIDEO CAMERA SHALL BE A CONTINUOUS UNBROKEN RUN FROM THE VIDEO CAMERA TO THE VIDEO DETECTION PROCESSOR. SPLICES SHALL NOT BE ALLOWED.
- THE NECESSARY CONNECTIONS FOR PROPER OPERATION OF THE INTERNALLY ILLUMINATED STREET NAME SIGN, INCLUDING THE APPLICABLE ELECTRIC CABLE, SHALL BE INCLUDED IN THE COST OF THE INTERNALLY ILLUMINATED STREET NAME SIGN.
- A PEDESTRIAN PUSH-BUTTON SIGN WILL BE MOUNTED ABOVE EACH PEDESTRIAN PUSH-BUTTON. THE PEDESTRIAN PUSH-BUTTON SIGNS WILL BE FURNISHED AND INSTALLED BY THE CITY OF CHAMPAIGN.
- THE CONCRETE FOUNDATION FOR THE PEDESTRIAN PUSH-BUTTON POST SHALL BE INCLUDED IN THE COST OF THE PEDESTRIAN PUSH-BUTTON POST, TYPE II.
- SEE THE PAVEMENT MARKING PLANS FOR THE LOCATION OF PAVEMENT MARKINGS.

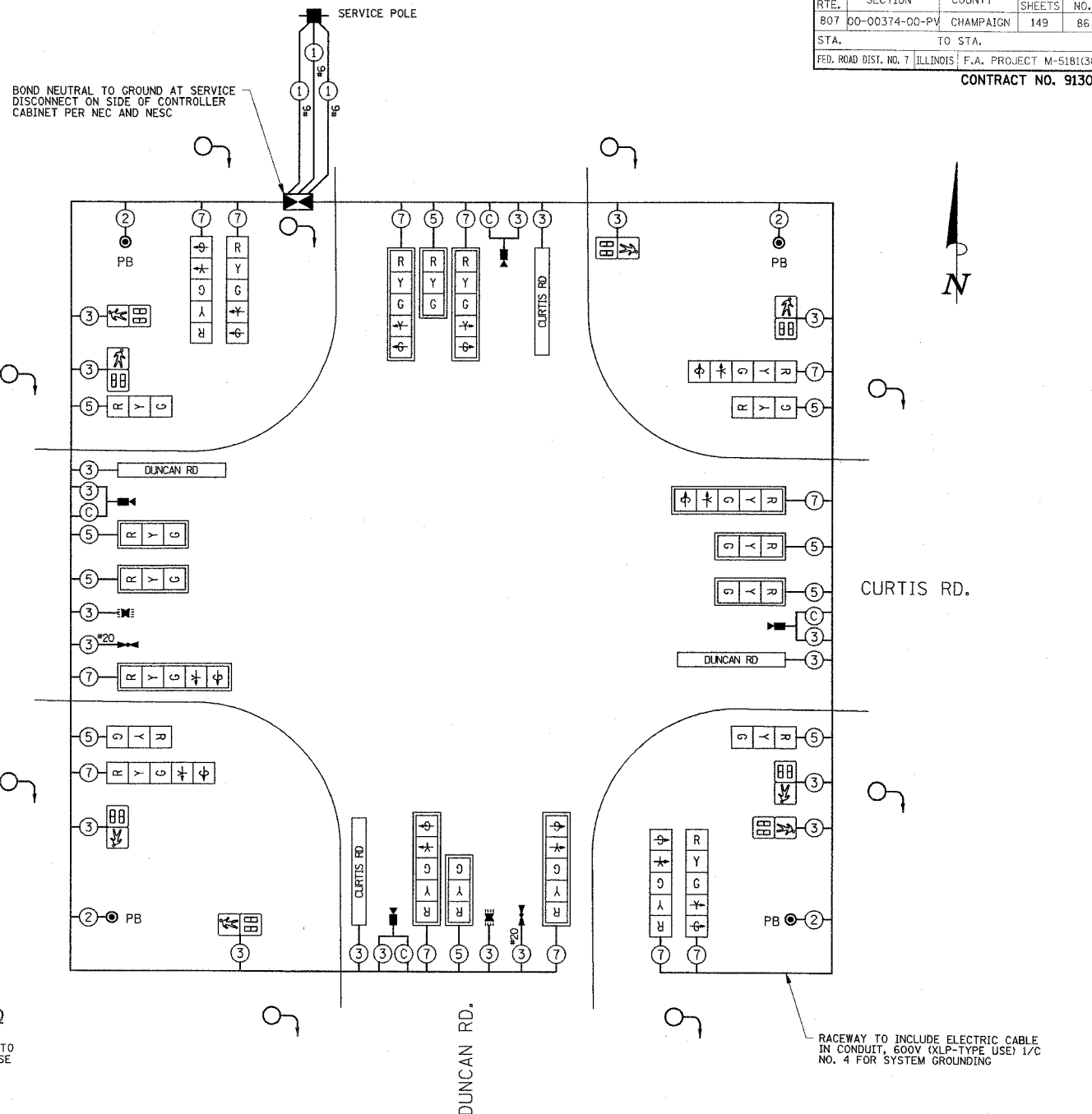


PHASE DESIGNATION DIAGRAM LEGEND

- (*) DUAL ENTRY PHASE * NUMBER REFERS TO ASSOCIATED PHASE
- (*) PEDESTRIAN PHASE
- (B, D) RIGHT TURN OVERLAP
B = 5
D = 1

PHASE DESIGNATION DIAGRAM

NO SCALE



CABLE DIAGRAM - CURTIS RD. / DUNCAN RD.

NO SCALE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
807	00-00374-00-PV	CHAMPAIGN	149	86
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS F.A. PROJECT M-5181(38)			

CONTRACT NO. 91308

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
CABLE DIAGRAM/PHASE DESIGNATION DIAGRAM/
TRAFFIC SIGNAL GENERAL NOTES/BILL OF MATERIALS

DATE : 8-05
DRAWN BY : S.M.W.
CHECKED BY : J.T.P.

SCALE : NONE