

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	451
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62114				

ROADWAY ELECTRICAL SYMBOL

SYMBOL	DESCRIPTION
	EXISTING HIGH MAST TOWER TO REMAIN
	EXISTING HIGH MAST TOWER TO BE REMOVED
	PROPOSED HIGH MAST TOWER ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES. NUMBER INDICATES TOWER TYPE
	TYPE TOWER HEIGHT
	1 30.0m (100ft.)
	2 33.5m (110ft.)
	3 36.5m (120ft.)
	4 40.0m (130ft.)
	5 42.5m (140ft.)
	6 45.5m (150ft.)
	PROPOSED LIGHTING UNIT
	PROPOSED LIGHTING UNIT, TWIN ARMS
	EXISTING LIGHTING UNIT TO REMAIN
	EXISTING LIGHTING UNIT, TWIN ARMS
	EXISTING LIGHTING UNIT TO BE REMOVED
	TEMPORARY LIGHTING UNIT
	EXISTING TEMPORARY LIGHTING UNIT TO BE REMOVED
	EXISTING TEMPORARY LIGHTING UNIT TO REMAIN
	TEMPORARY LIGHTING UNIT WITH TWIN MAST ARM
	EXPOSED CONDUIT
	RACEWAY OR DIRECT BURIAL CABLE UNDERGROUND WITHOUT ENCASEMENT
	EXISTING UNDERGROUND WIRING TO REMAIN
	EXISTING CONDUIT EXPOSED
	FLEXIBLE CONDUIT
	EXISTING UNIT DUCT TO BE ABANDONDED
	AERIAL ELECTRIC CABLE
	EXISTING AERIAL ELECTRIC CABLE
	RACEWAY EMBEDDED IN STRUCTURE
	RIGID GALVANIZED STEEL CONDUIT SLEEVE, TRENCHED OR PUSHED
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	EXISTING UNDERPASS LUMINAIRE
	UNDERPASS LUMINAIRE
	ELECTRIC CONNECTION TO SIGN STRUCTURE CANTILEVER SIGN STRUCTURE
	ELECTRIC CONNECTION TO SIGN STRUCTURE TRUSS TYPE SIGN STRUCTURE
	ELECTRIC CONNECTION TO SIGN STRUCTURE BRIDGE MOUNTED SIGN
	DUCT BANK

ROADWAY ELECTRICAL SYMBOL

SYMBOL	DESCRIPTION
	ELECTRIC JUNCTION BOX, TYPE AND SIZE AS INDICATED
	ELECTRIC HANDHOLE
	ELECTRIC PULLBOX
	EXISTING LIGHTING CONTROLLER, DUPLEX
	EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED
	EXISTING UTILITY SERVICE CONNECTION, PAD MOUNTED
	PROPOSED LIGHTING CONTROLLER, DUPLEX
	PROPOSED UTILITY SERVICE CONNECTION, POLE MOUNTED
	PROPOSED UTILITY SERVICE CONNECTION, PAD MOUNTED
	TEMPORARY WOOD POLE
	ELECTRIC UTILITY POLE
	ELECTRIC GROUND ROD
	ELECTRIC SERVICE WEATHERHEAD
	EXISTING DYNAMIC MESSAGE SIGN
	EXISTING FLASHING BEACON SIGN
	EXISTING CLOSED CIRCUIT TELEVISION CAMERA
	EXISTING MICROWAVE DETECTOR
	EXISTING DETECTOR LOOP
	PROPOSED DYNAMIC MESSAGE SIGN
	PROPOSED FLASHING BEACON SIGN
	PROPOSED CLOSED CIRCUIT TELEVISION CAMERA
	PROPOSED MICROWAVE DETECTOR
	PROPOSED DETECTOR LOOP

CALL-OUT SAMPLES

DEFINITION	EXAMPLE
CKT. NO. LOCATION	6 ABC1 STA. 28+169, 48 LT
TOWER HANDHOLE INDICATOR	
QUANTITY OF LUMINAIRES	LIGHTING CONTROL CABINET
LIGHTING CONTROL CABINET	CIRCUIT NUMBERS
CIRCUIT NUMBERS	POLE NUMBER
CKT. NO. LOCATION	CA1 STA. 600+29, 64 LT
LOCATION	14.5M MH, 4.5M MA, 400W
MOUNTING HEIGHT (MH)	
MAST ARM (MA)	
LUMINAIRE WATTAGE (W)	
LIGHTING CONTROL CABINET	LIGHTING NUMBER
CIRCUIT NUMBER	POLE NUMBER
POLE NUMBER	
WOOD POLE DESIGNATION/ LOCATION	WP 18 STA. 1721+30, 65 RT
WP18 - 18.3M POLE HEIGHT	
WP27 - 27.4M POLE HEIGHT	
CONTROLLER DESIGNATION	LIGHTING CONTROLLER DA
LOCATION & DESCRIPTION	STA. 1652+29, 86 LT
	240/480 V, 1Ø, 3 WIRE
CONDUIT QUANTITY, SIZE, TYPE, LENGTH	INSTALLATION TYPE PUSHED, TRENCHED
	100mm (4") DIA. RGC, 40' TRENCHED
CKT: CONDUCTORS	A&B: 3#4 & 1#6 GND.
RACEWAY	30mm (1 1/4") DIA. UNIT DUCT
NEW OR EXISTING CABLE IN DUCT	CONCRETE ENCASED 100MM DIA. CNC CONDUIT WITH CABLE (TYPICAL, U.N.O.)
EMPTY DUCT	120LM
DUCT IDENTIFICATION	DUCT BANK LENGTH
SIGN DESIGNATION	B-1
# OF FLOURESCENT LUMINAIRES	6 LUMINAIRES

ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
ER	EXISTING RELOCATED UNIT
ET	EXISTING TEMPORARY UNIT TO REMAIN
ETR	EXISTING TEMPORARY RELOCATED UNIT
FT	FEET OR FOOT
FND BW	FOUNDATION BARRIER WALL
FND BW OS	FOUNDATION BARRIER WALL OFFSET
FND CON	FOUNDATION CONCRETE
FND CON OS	FOUNDATION CONCRETE OFFSET
FND MET	FOUNDATION METAL
FND PW	FOUNDATION PARAPET WALL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MM	MILLIMETER
MH	MOUNTING HEIGHT
NO. #	NUMBER
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TMP	TEMPORARY
TR	TEMPORARY UNIT TO BE REMOVED. SALVAGE EQUIPMENT AS SPECIFIED
TRR	TEMPORARY UNIT TO BE REMOVED AND RELOCATED
TUR	TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (INTERSTATE 80/294)
NAME	DATE	
TG	7/2/03	ELECTRICAL SYMBOL LIST AND ABBREVIATIONS
		SCALE NONE
		DATE 07/18/05
		DRAWN BY ACE/CAD
		CHECKED BY TJW