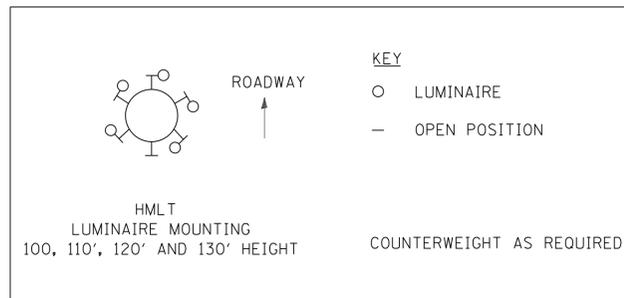


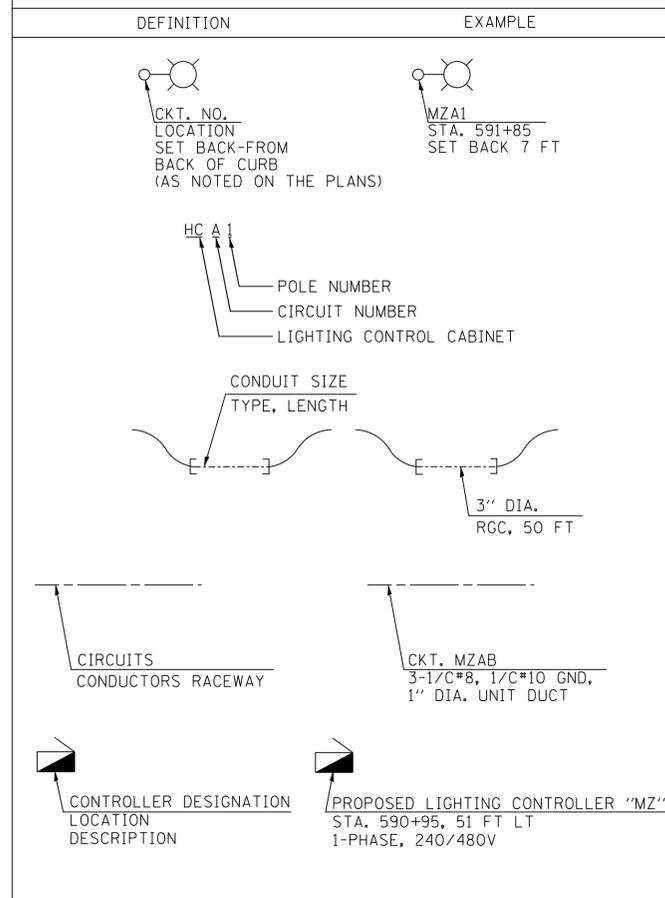
**LEGEND**

-  PROPOSED LIGHTING UNIT  
47.5' M.H., 12' M.A., WITH 400W, 240V HPS LUMINAIRE WITH TRANSFORMER BASE BREAKAWAY DEVICE
-  PROPOSED LIGHTING UNIT  
47.5' M.H., 6' M.A., WITH 400W, 240V HPS LUMINAIRE WITH TRANSFORMER BASE BREAKAWAY DEVICE
-  PROPOSED COMBINATION LIGHTING UNIT  
45' M.H., 12' M.A., WITH 400W, 240V HPS LUMINAIRE
-  PROPOSED COMBINATION LIGHTING UNIT  
45' M.H., 6' M.A., WITH 400W, 240V HPS LUMINAIRE
-  TEMPORARY LIGHTING UNIT  
60' WOOD POLE, 50' M.H., 15' M.A., WITH 400W, 240V HPS LUMINAIRE
-  EXISTING LIGHTING UNIT TO BE REMOVED AND SALVAGED
-  EXISTING LIGHTING UNIT TO REMAIN IN PLACE
-  PROPOSED HIGH MAST LIGHT TOWER  
AS SPECIFIED IN HIGH MAST LIGHT TOWER DATA TABLE  
400W HPS LUMINAIRES (NUMBER PER PLANS)
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN IN PLACE
-  UNDERGROUND RIGID GALVANIZED STEEL CONDUIT (RGC)  
SIZE AS INDICATED
-  UNIT DUCT, AS SPECIFIED IN PLANS
-  EXISTING CABLE AND CONDUIT TO REMAIN IN PLACE
-  AERIAL CABLE, AS SPECIFIED IN PLANS
-  PROPOSED LIGHTING CONTROLLER CABINET,  
SINGLE DOOR, CONSOLE TYPE,  
240/480V, SINGLE PHASE
-  PROPOSED LIGHTING CONTROLLER CABINET,  
RADIO CONTROL, DUPLEX CONSOLE TYPE  
240/480V, SINGLE PHASE
-  EXISTING LIGHTING CONTROLLER CABINET
-  PROPOSED ELECTRIC SERVICE TRANSFORMER  
BY COMED ON EXISTING OR PROPOSED  
UTILITY WOOD POLE
-  PROPOSED HANDHOLE
-  EXISTING HANDHOLE
-  GROUND ROD, 5/8" X 10 FT
-  WOOD POLE, SIZE AS NOTED
-  EXISTING COMED TRANSFORMER

**HMLT ORIENTATION DETAILS**



**CALL-OUT SAMPLES**



**ABBREVIATIONS**

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DIA.	DIAMETER
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FND MET	FOUNDATION METAL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HMLT	HIGH MAST LIGHT TOWER
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
M.A.	MAST ARM
M.H.	MOUNTING HEIGHT
NO. #	NUMBER
RGC	RIGID GALVANIZED CONDUIT
RGS	RIGID GALVANIZED STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TB	TRANSFORMER BASE
TMP	TEMPORARY
UD	UNIT DUCT
V	VOLT
W	WATT
WP	WOOD POLE
XFMR	TRANSFORMER

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS.
3. ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL CONDITIONS (LATEST EDITION).
5. THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
6. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
7. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
8. BREAKAWAY DEVICE, TRANSFORMER BASE, FOR 47.5' LIGHT POLES SHALL BE INSTALLED ON ALL GROUND MOUNTED POLES WITH 15" BOLT CIRCLE ON 24" DIA. FOUNDATION AS SHOWN IN THE PLANS.
9. WHEREVER TEMPORARY AERIAL CABLE IS REQUIRED TO CROSS AN EXISTING AND/OR PROPOSED ROADWAY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 20 FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIMES.
10. LIGHT POLE SETBACKS ARE MEASURED FROM BACK OF CURB (OR EDGE OF TRAVELED PAVEMENT IN NON-CURBED AREAS) TO FACE OF POLE.
11. THE CONTRACTOR SHALL CONTACT THE ELECTRICAL FIELD OFFICE AT (708) 524-2145 TO ARRANGE FOR LOCATES OF EXISTING IDOT UNDERGROUND CABLES AND CONDUITS.
12. ALL WOOD POLES TO BE USED ON THE IMPROVEMENT WILL BE FURNISHED FROM DEPARTMENT STOCK AND WILL REMAIN THE PROPERTY OF THE DEPARTMENT. THE POLES SHALL BE RETURNED TO THE DEPARTMENT'S STORAGE FACILITY AT THE CONCLUSION OF THE CONTRACT. THE COST OF THIS WORK IS INCLUDED IN THE PRICE OF THE ITEM "REMOVAL OF TEMPORARY LIGHTING UNIT."

**LIGHTING SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	3986
HANDHOLE	EACH	1
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	14108
UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	9039
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	1602
AERIAL CABLE, 3-1/C NO. 1/0, WITH MESSENGER WIRE	FOOT	1068
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	16788
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	192
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT	EACH	68
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 6 FT. MAST ARM	EACH	64
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 12 FT. MAST ARM	EACH	20
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	753
LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	161
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	84
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	97
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	85
REMOVAL OF POLE FOUNDATION	EACH	73
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	2
REMOVE EXISTING HANDHOLE	EACH	1
LIGHT TOWER, SERVICE PAD, SPECIAL	EACH	10
TEMPORARY LIGHTING CONTROLLER	EACH	1
LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12	EACH	10
LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	45
RELOCATE EXISTING LIGHTING CONTROLLER	EACH	2
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	94
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	25
LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX CONSOLE TYPE WITH SCADA	EACH	1
MAST ARM, STREET LIGHTING 15 FT.	EACH	96
TEMPORARY WOOD POLE, 60 FOOT, CLASS 4 (INSTALL ONLY)	EACH	86
UNIT DUCT, 600V, 5-1C NO. 2, 1/C NO.4 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	660

**HMLT DATA TABLE**

LIGHT TOWER	STATION	OFFSET	POLE HEIGHT	TOP OF FOUNDATION ELEVATION
JAB2	1280+49 (I-57)	174.96 FT LT	100 FT	609.50
JCD3	1280+56 (I-57)	202.41 FT RT	100 FT	607.90
JCD1	1284+36 (I-57)	158.54 FT RT	100 FT	609.70
JAB1	1284+41 (I-57)	150.15 FT LT	100 FT	608.60
JGH1	1288+41 (I-57)	155.93 FT RT	100 FT	609.90
JEF1	1288+16 (I-57)	151.86 FT LT	100 FT	609.70
JEF2	1291+68 (I-57)	146.3 FT LT	100 FT	609.40
JGH2	1291+71 (I-57)	154.8 FT RT	100 FT	609.40
JIJ2	1054+95 (I47TH)	138.06 FT RT	100 FT	602.50
JOP2	4401+27 (RAMP K)	72.24 FT RT	100 FT	603.00



USER NAME - rswanson	DESIGNED - RDP	REVISED -
PLOT SCALE - NONE	DRAWN - PS	REVISED -
PLOT DATE - 6/28/2012	CHECKED - RAS	REVISED -
	DATE - 04/20/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>147TH STREET</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>LIGHTING GENERAL NOTES AND LEGEND</b>			(0405-1 & 0506-2) R-1	COOK	577	417
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60M57	