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GENERAL NOTES - UNDERPASS LIGHTING

1. SPLICING OF CONDUCTORS WEATHER TIGHT JUNCTION BOXES ONLY. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
2. LIGHTING CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
3. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER BEFORE ANY WORK BEGINS. THE CONTRACTOR SHALL CONTACT THE ILLINOIS DEPARTMENT OF TRANSPORTATION AT (708) 524-2145.
4. ALL WORK SHALL CONFORM TO THE LATEST IDOT, IDOT DISTRICT 1 STANDARDS, SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, CITY OF CHICAGO ELECTRICAL CODE, AND THE NATIONAL ELECTRICAL SAFETY CODE.
5. ALL ELECTRICAL EQUIPMENT SHALL BE NEW, UL LISTED AND LABELED.
6. ALL CONDUITS SHALL BE SEALED.
7. ALL CIRCUIT WIRES SHALL BE LABELED WITH CIRCUIT IDENTIFICATION.
8. ALL LAMPS SHALL BE FURNISHED AS PART OF THE CONTRACT.
9. CIRCUITS SHALL BE TESTED PER SPECIFICATION.
10. THE LOCATIONS OF ALL PROPOSED EQUIPMENT ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
11. ALL MEASUREMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY MEASUREMENTS IN THE FIELD.
12. THE EXISTING LIGHTING SYSTEM VOLTAGE IS 240/480 VOLT, 1-PHASE 3-WIRE. THE LUMINAIRES ARE 240 VOLT.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING INSTALLATIONS AND DATA PRIOR TO BIDDING.
14. GROUNDING CONDUCTORS SHALL BE CONTINUOUS, INSULATED AND RUN TOGETHER WITH THE CIRCUIT CONDUCTORS.
15. BURIED UTILITY LOCATIONS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES BEFORE STARTING WORK.
16. ALL NEW UNIT DUCTS AND UNDERGROUND CONDUITS SHALL BE PLACED A MINIMUM OR 30" BENEATH THE GROUND SURFACE (FINAL GRADE), UNLESS NOTED OTHERWISE.
17. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUITS WITH THE WORK OF OTHER CONTRACTORS.
18. TEMPORARY LIGHTING SHALL REMAIN IN SERVICE UNTIL THE PERMANENT LIGHTING IS IN OPERATION.
19. FAULT TESTING AND ENERGIZING OF THE NEW CIRCUIT IS INCLUDED IN THE COST OF THE CABLE. ALL CABLE MUST BE FAULT FREE PRIOR TO ENERGIZATION.
20. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING (DECORATIVE ROCKS, PLANTS, ETC.).

BILL OF MATERIALS - LIGHTING

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1" DIA.	FOOT	210
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	360
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	160
CONDUIT ATTACHED TO STRUCTURE 1 1/2" DIA. PVC COATED GALVANIZED STEEL	FOOT	320
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	650
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 6" X 4"	EACH	8
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 8" X 6"	EACH	56
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	3
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2,000
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	5,000
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	3,200
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	8,580
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	350
AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	110
AERIAL CABLE, 3-1/C NO. 8 WITH MESSENGER WIRE	FOOT	530
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	2
UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8
UNDERPASS LUMINAIRE, 400 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	100
LIGHTING CONTROLLER, SPECIAL	EACH	1
LIGHT POLE, WOOD, 60 FOOT, CLASS 3	EACH	2
LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	2
REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	56
REMOVAL OF UNDERGROUND CABLE	FOOT	4,200
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	18

SYMBOL LIST

DESCRIPTION	PROPOSED	EXISTING TO BE REMOVED	TEMPORARY
LIGHTING CONTROLLER			
UNDERPASS LUMINAIRE, HPS, WATTS AS INDICATED ON PLANS			
JUNCTION BOX			
CONDUIT, ATTACHED TO STRUCTURE			
CONDUIT, UNDERGROUND			
LIQUID TIGHT FLEXIBLE METAL CONDUIT			
TEMPORARY WOOD POLE (SIZE AND CLASS AS INDICATED ON PLANS)			
TEMPORARY WOOD POLE (SIZE AND CLASS AS INDICATED ON PLANS), WITH 15' MAST ARM, 400W, 240 VOLT, MC-III HPS LUMINAIRE AND PHOTOCELL CONTROL			
AERIAL CABLE WITH MESSENGER WIRE (CONDUCTORS AS INDICATED ON PLANS)			
GROUND ROD, 5/8" DIA. X 10'			

ABBREVIATIONS

A	AMPS
A.G.	ABOVE GRADE
C	CONDUCTOR
CDOT	CHICAGO DEPARTMENT OF TRANSPORTATION
DIA	DIAMETER
GND	GROUND
EPR	ETHYLENE PROPOLYENE RUBBER
FT	FEET
HPS	HIGH PRESSURE SODIUM
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
P	PUSHED
PH	PHASE
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
RGSC	RIGID GALVANIZED STEEL CONDUIT
STA	STATION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
XLP	CROSS-LINKED POLYETHYLENE
V	VOLTS
W	WATTS
W	WIRES

CONDUIT/CABLE TAGS

A	2" PVC SCHEDULE 40 CONDUIT, IN TRENCH WITH 3-1/C #3/0 600 VOLT (XLP TYPE USE)
B	2" RGS CONDUIT, IN TRENCH WITH 6-1/C #4, 3-1/C #10 AND 1-1/C #8 GROUND (XLP TYPE USE)
C	2" PVC COATED RGS CONDUIT, ATTACHED TO STRUCTURE WITH 6-1/C #4 AND 1-1/C #8 GROUND (XLP TYPE USE)
D	1 1/2" PVC COATED RGS CONDUIT, ATTACHED TO STRUCTURE WITH 3-1/C #10 AND 1-1/C #10 GROUND ((XLP TYPE USE)
E	1" PVC COATED RGS CONDUIT, ATTACHED TO STRUCTURE WITH ILLUMINANCE SENSOR CONDUCTORS PER MANUFACTURERS REQUIREMENTS
F	1" RGS CONDUIT, IN TRENCH WITH ILLUMINANCE SENSOR CONDUCTORS PER MANUFACTURERS REQUIREMENTS



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COLLINS ENGINEERS

USER NAME = CDOT - City of Chicago	DESIGNED - IAB	REVISED -
PLOT SCALE = 2.0000000' / 1" in.	DRAWN - DL/TM	REVISED -
PLOT DATE = 3/15/2013 3:56:43 PM	CHECKED - YK	REVISED -
PLOT DRIVER = HDR - PDF.plt	DATE - DEC 2012	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**I-90/94 AT OHIO STREET
 LEGEND, SYMBOLS, SCHEDULE OF QUANTITIES, AND GENERAL NOTES**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 0303-474HB-R	COUNTY COOK	TOTAL SHEETS 368	SHEET NO. 162
CONTRACT NO. 60F63			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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