

COTTAGE GROVE AVENUE ELECTRICAL AND LIGHTING - SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL QTY
DEMOLITION		
REMOVAL OF POLE FOUNDATION	EACH	2
REMOVE EXISTING STREET LIGHTING EQUIPMENT INCLUDES THE FOLLOWING:	L SUM	1
A. REMOVE EXISTING LIGHT POLES, MAST ARM, AND LUMINAIRE	EACH	6
C. AERIAL CABLE REMOVAL	FOOT	450
D. REMOVE CABLE IN CONDUIT	FOOT	857
MAINTENANCE		
MAINTENANCE OF LIGHTING SYSTEM INCLUDES THE FOLLOWING:	CAL MO	10
A. TEMPORARY AERIAL CABLE INSTALLATION AND REMOVAL, 2/C # 6 AWG, 600V	FOOT	540
B. MAINTENANCE AND OPERATION OF EXISTING BRIDGE POLE LIGHTING	EA	6
C. EXISTING ROADWAY LIGHTING, SOUTH AND NORTH SIDE OF THE BRIDGE	LS	1
PROPOSED		
TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)	FOOT	365
RACK, SECONDARY AERIAL, 2-WIRE OR 3-WIRE	EACH	1
CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 7 FOOT	EACH	2
POLE, STEEL, ANCHOR BASE, 10" DIA., 7-GAUGE, 34'-6"	EACH	2
POLE, STEEL, ANCHOR BASE, 8-1/2" DIAMETER, 7-GAUGE, 32'-6"	EACH	4
LUMINAIRE, STREET LIGHTING, HIGH PRESSURE SODIUM VAPOR, 400 WATT, 240 VOLT	EACH	6
MAST ARM, STEEL, STREET LIGHTING, 12 FT.	EACH	6
FUSE, IN-LINE, 10 AMP	EACH	12
ELECTRIC CABLE IN CONDUIT, 2/C NO. 6	FOOT	959
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	590
WIRE, AERIAL, 1/C # 6	FOOT	220
CONDUIT IN TRENCH, 2" GALVANIZED STEEL	FOOT	215
CONDUIT IN TRENCH, 3 1/2" DIA., PVC	FOOT	595
CONDUIT ATTACHED TO STRUCTURE, 3 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	750

I-94 UNDERPASS ELECTRICAL AND LIGHTING - SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL QTY
DEMOLITION		
REMOVAL OF LIGHTING UNIT, NO SALVAGE 84200600 INCLUDES THE FOLLOWING:		
B. REMOVE 1" RGS CONDUIT ATTACHED TO STRUCTURE	FOOT	1,799
C. REMOVE UNDERGROUND 1" RGS CONDUIT IN TRENCH	FOOT	170
D. REMOVE CONDUIT IN TRENCH, 2 1/2" DIA., PVC CONDUIT	FOOT	180
E. REMOVE EXPOSED CONDUIT, 2 1/2" DIA., RGS CONDUIT	FOOT	20
F. UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (EPR-TYPE RHW), 1 1/4" DIA. POLYETHYLENE	FOOT	180
MAINTENANCE		
PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LIGHTING INCLUDES THE FOLLOWING:	L SUM	1
A. TEMPORARY AERIAL CABLE INSTALLATION AND REMOVAL, 1C-#10 AWG, 600V	FOOT	735
B. MAINTENANCE AND OPERATION OF EXISTING UNDERPASS LUMINAIRES	EA	28
C. EXISTING POLE LIGHT	EA	2
PROPOSED		
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	680
UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	28
STAINLESS STEEL HOUSING CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED	FOOT	1,330
GALVANIZED STEEL		
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 10	FOOT	4,230
UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (EPR-TYPE RHW), 1 1/4" DIA. POLYETHYLENE	FOOT	800
CONDUIT IN TRENCH, 2 1/2" DIA., PVC CONDUIT	FOOT	680
CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	40
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	24
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	10
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 8"	EACH	2

GENERAL NOTES:

- ELECTRICAL MATERIAL INSTALLATION OVER THE COTTAGE GROVE ROAD SHALL COMPLY WITH THE CITY OF CHICAGO STANDARDS AND WORK OVER I-94 FREEWAY AND UNDER BRIDGE SHALL COMPLY WITH THE IDOT DESIGN STANDARDS.
- ALL PRODUCTS CATALOG CUTS AND MATERIAL SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY BOTH THE CITY OF CHICAGO AND IDOT PRIOR TO THE PURCHASE OF THE ELECTRICAL MATERIAL.
- REMOVED PRODUCTS AND MATERIAL IS THE PROPERTY OF THE CITY OF CHICAGO AND OR IDOT AND SHALL BE DISPOSED OFF AS DIRECTED BY THE OWNER.

ELECTRICAL WORK:

- THE PROJECT SCOPE IS TO REMOVE AND REPLACE ROADWAY LIGHTING FIXTURES POLES AND ASSOCIATED ELECTRICAL SYSTEM WIRING CROSSING OVER THE S. COTTAGE GROVE AVENUE BRIDGE STRUCTURE AND REPLACE UNDERPASS LIGHTING UNDER S. COTTAGE GROVE AVENUE AND I.C.R.R. BRIDGE STRUCTURE.
- CONSTRUCTION SHALL BE COORDINATED WITH THE PHASING PLAN AND STAGING SEQUENCE WITH OTHER DISCIPLINES.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING FIELD CONDITION INCLUDING, BUT NOT LIMITED TO COMMONWEALTH EDITION POWER LINES, CITY ELECTRIC SERVICES AND STREET LIGHTING BRANCH CIRCUITS PRIOR TO BID AND NOTIFY PROJECT ENGINEER FOR ANY DISCREPANCY OF THE EXISTING CONDITION AS NOTED ON THE DRAWINGS.
- DEMOLITION OF WORK SHALL NOT INTERRUPT ANY EXISTING CITY ELECTRICAL SERVICES AND STREET LIGHTING CIRCUITS CROSSING OVER THE BRIDGE.
- CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND/OR TEMPORARY CIRCUIT WIRING TO MAINTAIN THE FUNCTIONALITY OF EXISTING ELECTRICAL SYSTEMS.
- ALL EXISTING AND TEMPORARY ROADWAY LIGHTING SHALL REMAIN FAULT FREE AND OPERATIONAL.

PRELIMINARY STAGE:

- NO WORK SHALL BE DONE UNTIL AFTER THE PRECONSTRUCTION INSPECTION OF ROADWAY LIGHTING, UNDERPASS LIGHTING, AND ELECTRICAL SERVICE UTILITIES.
- FORMAL TRANSFER OF MAINTENANCE SHALL BE COMPLETED BEFORE BEGINNING OF CONSTRUCTION.

STAGE I:

- COORDINATE WITH CITY OF CHICAGO, OEC, AND IDOT REPRESENTATIVE(S) TO REROUTE EXISTING ELECTRICAL WIRING EMBEDDED IN CONCRETE ENCASED CONDUITS AND/OR EXPOSED STRUCTURE.
- PROVIDE TEMPORARY POWER WIRING TO MAINTAINING FUNCTIONALITY EXISTING LIGHTING SYSTEM AT NO ADDITIONAL COST TO THE CONTRACT.
- ELECTRICAL WORK SHALL BE PERFORMED ON THE BRIDGE, EAST SIDE OF THE S. COTTAGE GROVE AVENUE. REMOVE AND REPLACE EXISTING BRIDGE LIGHTS, AND UNDERPASS LIGHTS, AND ASSOCIATED WIRING.
- ELECTRICAL SYSTEM SHALL REMAIN FUNCTIONAL AT BOTH THE NORTH AND SOUTH OF THE BRIDGE STRUCTURE, SOUTHBOUND LANES OF THE S. COTTAGE GROVE AVENUE, AND I-94 FREEWAY.
- REMOVE AND REPLACE UNDERPASS LIGHTS UNDER I.C.R.R. AND S. COTTAGE GROVE BRIDGE CROSSING OVER I-94 WESTBOUND AND EASTBOUND ROADWAY.

STAGE II:

- COORDINATE WITH CITY OF CHICAGO, OEC, AND IDOT REPRESENTATIVE(S) TO REROUTE EXISTING ELECTRICAL WIRING EMBEDDED IN CONCRETE ENCASED CONDUITS AND/OR EXPOSED STRUCTURE.
- PROVIDE TEMPORARY POWER WIRING TO MAINTAINING FUNCTIONALITY EXISTING LIGHTING SYSTEM AT NO ADDITIONAL COST TO THE CONTRACT.
- ELECTRICAL WORK SHALL BE PERFORMED ON THE BRIDGE, EAST SIDE OF THE S. COTTAGE GROVE AVENUE. REMOVE AND REPLACE EXISTING BRIDGE LIGHTS, AND UNDERPASS LIGHTS, AND ASSOCIATED WIRING.
- ELECTRICAL SYSTEM SHALL REMAIN FUNCTIONAL AT BOTH THE NORTH AND SOUTH END OF THE BRIDGE, NORTHBOUND LANES OF THE S. COTTAGE GROVE AVENUE, AND I-94 FREEWAY.
- REMOVE AND REPLACE UNDERPASS LIGHTS UNDER I.C.R.R. AND S. COTTAGE GROVE BRIDGE CROSSING OVER I-94 WESTBOUND AND EASTBOUND ROADWAY.

LEGEND - IDOT STANDARDS:

- E— EXISTING UNDERGROUND UNIT DUCT, CONDUIT AND WIRING TO BE REMOVED
- E— EXISTING UNDERGROUND UNIT DUCT, CONDUIT AND WIRING TO REMAIN
- — — — PROPOSED UNDERGROUND STREET LIGHTING CONDUIT AND WIRING
- E— EXISTING CONDUIT AND WIRING - SURFACE TYPE TO BE REMOVED
- E— EXISTING CONDUIT AND WIRING - SURFACE TYPE INSTALLATION TO REMAIN
- — — — PROPOSED CONDUIT AND WIRING - SURFACE TYPE INSTALLATION
- AC— TEMPORARY CONDUIT AND WIRING - SURFACE TYPE INSTALLATION
- ⊙ EXISTING STREET LIGHTING POLE AND FIXTURE TO REMAIN FUNCTIONAL
- ⊙ OR ⊙ EXISTING UNDERPASS LUMINAIRE, TO BE REMOVED
- ⊙ PROPOSED UNDERPASS LUMINAIRE, DECK MOUNT, 70 WATT, HIGH PRESSURE SODIUM
- ⊙ E ⊙ EXISTING UNDERPASS LUMINAIRE, WALL MOUNT, 55 WATT, LOW PRESSURE SODIUM
- ⊙ PROPOSED UNDERPASS LUMINAIRE, WALL MOUNT, 70 WATT, HIGH PRESSURE SODIUM
- ⊙ A ⊙ EXISTING/PROPOSED JUNCTION BOX, ATTACHED TO STRUCTURE, 16"x 14"x 6"
- ⊙ B ⊙ EXISTING/PROPOSED JUNCTION BOX, ATTACHED TO STRUCTURE, 12"x 10"x 6"
- ⊙ C ⊙ EXISTING/PROPOSED JUNCTION BOX, ATTACHED TO STRUCTURE, 6"x 6"x 4"
- ⊙ D ⊙ EXISTING/PROPOSED JUNCTION BOX, ATTACHED TO STRUCTURE, 24"x 24"x 8"
- ⊗ EXISTING STREET LIGHTING CONTROLLER
- CONDUIT TURN UP
- CONDUIT TURN DOWN

CITY OF CHICAGO STANDARDS:

- — — — EXISTING COMMONWEALTH ELECTRIC POWER LINE TO REMAIN
- E— EXISTING CITY ELECTRICAL SERVICE CONDUIT AND WIRING TO BE REMOVED
- E— EXISTING CITY ELECTRICAL SERVICE CONDUIT AND WIRING TO REMAIN
- E— PROPOSED CITY ELECTRICAL SERVICE CONDUIT AND WIRING
- 2W— EXISTING WIRE, STREET LIGHTING, 2 1/C-#6, HDNS. AERIAL TO BE REMOVED
- 2W— EXISTING WIRE, STREET LIGHTING, 2 1/C-#6, HDNS. AERIAL TO REMAIN
- 2W— PROPOSED WIRE, STREET LIGHTING, 2 1/C-#6, HDNS. AERIAL
- 2W(TE)— TEMPORARY PROPOSED WIRE, STREET LIGHTING, 2 1/C-#6, HDNS. AERIAL
- (TE)— TEMPORARY PROPOSED CITY ELECTRIC SERVICE WIRE
- 2NC— EXISTING CABLE, STREET LIGHTING, 2 1/C-#6, 600V RINS IN CONDUIT TO BE REMOVED
- 2NC— EXISTING CABLE, STREET LIGHTING, 2 1/C-#6, 600V RINS IN CONDUIT REMAIN
- 2NC— PROPOSED CABLE, STREET LIGHTING, 2 1/C-#6, 600V RINS IN CONDUIT
- ⊗ EXISTING MAST ARM, AND LIGHT FIXTURE
- ⊗ REM EXISTING MAST ARM, AND LIGHT FIXTURE TO BE REMOVED
- ⊗ PROPOSED 12' MAST ARM, AND 400 WATT, 240V HIGH PRESSURE SODIUM LUMINAIRE
- ⊗ EXISTING POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 3 GA. WITH STEEL BAL. HSG. BASE AND FND. WITH 10" D. B.C. AND 1" ANCHOR RODS DWG. #719
- ⊗ REM EXISTING POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 3 GA. WITH STEEL BAL. HSG. BASE AND FND. WITH 10" D. B.C. AND 1" ANCHOR RODS DWG. #719 TO BE REMOVED
- ⊗ PROPOSED POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 1 1/2" B.C. AND 1" ANCHOR RODS DWG. #753
- ⊗ PROPOSED POLE, CITY STEEL, ANCHOR BASE, 34'-6", 7 GA. 10" DIA. AND 15" B.C. 24"x 7" FND. WITH 1 1/4" ANCHOR RODS DWG. #818
- ⊗ PROPOSED HANDHOLE
- ⊗ EXISTING STREET LIGHTING CONTROLLER
- ⊗ EXISTING ELECTRICAL MANHOLE TO REMAIN

FILE NAME =	DESIGNED - PD	REVISED -
...\\DI-60F65-sh1026-11ght1.dgn	DRAWN - AP	REVISED -
PLOT TIME = 4:49:43 PM	CHECKED - PD/JM/RD	REVISED -
PLOT DATE = 8/9/2010	DATE - 07/19/2010	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL LEGEND AND
GENERAL NOTES

SCALE: SHEET NO. 1 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314B-1	COOK	110	26
CONTRACT NO. 60F65			ILLINOIS FED. AID PROJECT	

