

GENERAL ELECTRICAL PLAN NOTES












1. THIS PROJECT INCLUDES THE INSTALLATION OF INTERSECTION LIGHTING AT JOHNSBURG RD AND SPRING GROVE ROAD ALONG WITH PEDESTRIAN LIGHTING FROM SPRING GROVE ROAD TOWARD ST. JOHNS/CHAPEL HILL RD. ALONGSIDE JOHNSBURG ROAD.
 2. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK.
 3. THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER'S REVIEW WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT COPIES OF APPROVED MANUFACTURER'S PRODUCT DATA AND DETAILED SHOP DRAWINGS TO THE RESIDENT ENGINEER.
 4. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRE. NOTE THAT THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE FULLY APPROVED AND THE LUMINAIRES AND ACCESSORIES ARE INSTALLED.
 5. THE QUANTITIES OF RACEWAY WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
 6. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
 7. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF JOHNSBURG/MCHENRY COUNTY TO LOCATE AND MARK/STAKE ALL VILLAGE OWNED AND COUNTY OWNED UNDERGROUND UTILITIES.
 8. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
 9. WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH MAY BE USED.
 10. THE CONTRACTOR SHALL COORDINATE THE FOUNDATION HEIGHTS WITH THE FINISHED SIDEWALK ELEVATION SO FOUNDATION DOES NOT PROTRUDE BEYOND SPECIFIED REQUIREMENTS.
 11. AT THE COMPLETION OF THE PROJECT THE INTERSECTION LIGHTING SYSTEM SHALL BE OWNED AND MAINTAINED BY MCHENRY COUNTY.
 12. AT THE COMPLETION OF THE PROJECT THE PEDESTRIAN LIGHTING SYSTEM SHALL BE OWNED AND MAINTAINED BY THE VILLAGE OF JOHNSBURG.
 13. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
 14. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
 15. THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF FULL SIZED COMPLETE AND ACCURATE "RECORD DRAWINGS" TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED. THE "RECORD DRAWINGS" SHALL BE UPDATED ON A REGULAR BASIS AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "REPRODUCIBLE RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.
16. ALL UNIT DUCT FOR LIGHTING RUNS SHALL CONTAIN AN INSULATED, GRAY TRACER WIRE 1/C, NO. 14. THE COST OF THE TRACER WIRE SHALL BE INCLUDED IN THE COST OF PAY ITEM UNIT DUCT, 600V, 3-1/C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE), 1" DIA. POLYETHYLENE. THE TRACER WIRE SHALL BE SPLICED IN POLE HAND HOLE AND GROUNDED.
17. THE LIGHTING CABINET WILL HAVE A SKELETON LOCK BY CORBIN. THE COST SHALL BE INCLUDED IN THE COST OF THE CABINET.

SUMMARY OF QUANTITIES - ROADWAY LIGHTING IMPROVEMENT


PAY ITEM	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	416
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	261
81603050	UNIT DUCT, 600V, 3-1/C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	720
81603090	UNIT DUCT, 600V, 3-1/C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1,460
81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	90
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1
82500370	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	1
83007400	LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT. MAST ARM	EACH	7
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	63
83600350	LIGHT POLE FOUNDATION, METAL, 11" BOLT CIRCLE, 8" X 6'	EACH	20
83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	7
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	6
*	LUMINAIRE, METAL HALIDE, 175 WATT	EACH	9
*	ORNAMENTAL LIGHT UNIT WITH BANNER COMPLETE	EACH	10
*	ORNAMENTAL LIGHT UNIT WITH PLANTER, COMPLETE	EACH	10

* REQUIRES SPECIAL PROVISIONS

LEGEND

-  LIGHTING UNIT: 35 FT MH, 10 FT MA 175W MH, MCIII LUMINAIRE WITH BREAKAWAY DEVICE
-  COMBINATION SIGNAL/LIGHTING UNIT
40 FT, 15 FT MA, 175W MH MCIII LUMINAIRE
-  HANDHOLE
-  UNIT DUCT (SIZE AS NOTED ON PLANS)
-  ELECTRIC CABLE IN CONDUIT 3-1/C #1/0 (EPR-TYPE USE)
-  UTILITY SERVICE CONNECTION, POLE MOUNTED
-  LIGHTING CONTROLLER
-  UNDERGROUND RIGID GALVANIZED STEEL CONDUIT
-  GROUND ROD
-  ORNAMENTAL LIGHT UNIT WITH BANNER: 17'-7" FT MH, 2 FT MA 70W MH LUMINAIRE (UNITS ON CIRCUITS "A" AND "C")
-  ORNAMENTAL LIGHT UNIT WITH PLANTER: 17'-7" FT MH, 2 FT MA 70W MH LUMINAIRE (UNITS ON CIRCUITS "B" AND "D")

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 12/19/2012 3:16:04 PM
 FILE NAME: RLP-01.dgn
 PLOT NUMBER: 187
 PLOT DATE: 12/19/2012

 HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME : jettene	DESIGNED -	REVISED -
	FILE NAME : RLP-01.dgn	DRAWN -	REVISED -
	PLOT SCALE :	CHECKED -	REVISED -
	PLOT DATE : 12/19/2012	DATE - 12/19/12	REVISED -

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

LIGHTING PLAN
GENERAL NOTES, SUMMARY OF QUANTITIES AND LEGEND

SCALE: SHEET NO. 1 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-00-WR	MCHENRY	187	109
CONTRACT NO.			63515	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

RLP-01