

GENERAL ELECTRICAL PLAN NOTES


1. THIS PROJECT INCLUDES THE INSTALLATION OF INTERSECTION LIGHTING AT MILLER RD. AND RIVER RD. (INCLUDING BRIDGE LIGHTING).
 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 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 CITY OF McHENRY/McHENRY COUNTY TO LOCATE AND MARK/STAKE ALL CITY 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 SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRICAL WORK.
 10. THE CONTRACTOR SHALL COORDINATE THE FOUNDATION HEIGHTS WITH THE FINISHED ELEVATION SO FOUNDATION DOES NOT PROTRUDE BEYOND SPECIFIED REQUIREMENTS. (SEE LIGHT POLE FOUNDATION, METAL DETAIL).
 11. AT THE COMPLETION OF THE PROJECT THE LIGHTING SYSTEMS SHALL BE OWNED AND MAINTAINED BY McHENRY COUNTY.
 12. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
 13. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
 14. 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.
15. GROUND RODS SHALL BE FURNISHED AND INSTALLED AS REQUIRED AT LIGHT POLE PER PLAN. THE COST SHALL BE INCLUDED WITH PAY ITEM LIGHT POLE, 40 FT MH 15 FT DAVIT ARM. GROUND RODS SHALL BE FURNISHED AND INSTALLED AS REQUIRED PER PLAN FOR EACH LIGHTING CONTROLLER. THE COST SHALL BE INCLUDED WITH THE PAY ITEM LIGHTING CONTROLLER.
16. EXISTING LIGHTING SHALL REMAIN OPERATIONAL AS TEMPORARY LIGHTING ON BRIDGE UNTIL PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL ON NEW BRIDGE.
17. ALL UNIT DUCT FOR LIGHTING RUNS SHALL CONTAIN AN INSULATED, GRAY TRACER WIRE 1/C, NO. 14, IN DUCT STRANDED. 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. SEE DETAILS FOR CONNECTIONS.

PROFESSIONAL ENGINEER'S SIGN & SEAL











FOR LIGHTING SHEETS: LTC-01 TO LTC-09

Syed S. Ali 7/19/12


SYED ALI ALE
EXPIRES 11-30-2013



LEGEND

-  LIGHTING UNIT: 40 FT MH, 6 FT MA 310W HPS, MCIII LUMINAIRE ON BRIDGE STRUCTURE
-  LIGHTING UNIT: 40 FT MH, 12 FT MA 310W HPS, MCIII LUMINAIRE WITH BREAKAWAY DEVICE
-  COMBINATION SIGNAL/LIGHTING UNIT
40 FT, 15 FT MA, 310W HPS MCIII LUMINAIRE
-  LIGHTING UNIT TO BE REMOVED
-  UNIT DUCT 3 1/C #6 WITH 1/C #8 GROUND, GRAY TRACER WIRE, 1/C NO. 14 STRANDED
-  ELECTRIC CABLE IN CONDUIT 3-1/C #1/0 (EPR-TYPE USE) INSTALLED IN TRENCH
-  UTILITY SERVICE CONNECTION, POLE MOUNTED
-  LIGHTING CONTROLLER
-  RIGID GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS INDICATED
-  GROUND ROD

COMPANY NAME: AMES Engineering, Inc.
 PROJECT CONTACT: SPERNAI
 CLIENT: MCHENRY COUNTY
 DATE PLOTTED: 7/19/2012 2:17:41 PM
 FILE NAME: 090074-10-01.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl

 AMES Engineering, Inc. CONSULTING ENGINEERS 1341 Warren Avenue Downers Grove, IL 60515 (630) 737-1187 (630) 410-2891 (F) www.amesengineering.com	USER NAME = spernai	DESIGNED - BL	REVISED -
	FILE NAME = 090074-10-01.dgn	DRAWN - RV/MSA	REVISED -
	PLOT SCALE = N.T.S.	CHECKED - SA	REVISED -
	PLOT DATE = 7/19/2012	DATE - 5/29/12	REVISED -

**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**CHARLES J. MILLER ROAD LIGHTING PLAN
GENERAL NOTES AND LEGEND**

SCALE: N.T.S. SHEET NO. 1 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3860	09-00372-00-PW	MCHENRY	252	115
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63633	

LTC-01