

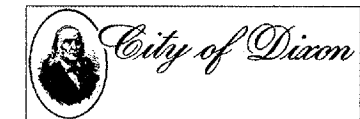
**AIRFIELD LIGHTING CONTROL SCHEMATIC WIRING DIAGRAM**

D1022



HANSON PROFESSIONAL SERVICES INC.

815 Commerce Drive Suite 200  
Oak Brook, Illinois 60523  
Telephone: 630.990.3800  
Fax: 630.990.3801



CITY OF DIXON, ILLINOIS

Post Office Box 386  
Dixon, Illinois 61021  
Telephone: 815.288.1485

DIXON MUNICIPAL AIRPORT  
CHARLES R. WALGREEN FIELD

CONSTRUCT REPLACEMENT  
AIRFIELD ELECTRICAL VAULT

AIP PROJECT NO. 3-17-0036-B8  
IDA PROJECT NO. C73-3548

**NOTES:**

- RELAY INTERFACE CONTROL PANEL SHALL BE MANUFACTURED BY UNIVERSE INC., 1833 W. HOVEY AVENUE, NORMAL, IL 61761, PHONE: 309-452-5313, FAX: 309-452-2521, OR AN APPROVED EQUIVALENT MANUFACTURER.
- RELAY INTERFACE CONTROL PANEL WIRING SHALL BE #16 AWG (MINIMUM) COPPER 600 VOLT CABLE. ALL EXTERNAL CONTROL CABLE SHALL BE #12 AWG, COPPER 600 VOLT CABLE. EQUIPMENT GROUND WIRES SHALL BE INCLUDED WITH EACH BRANCH CIRCUIT & EACH CONTROL CIRCUIT. "N" DENOTES NEUTRAL FOR RESPECTIVE BRANCH CIRCUIT OR CONTROL CIRCUIT.
- THE RUNWAY 8-26 LIGHTING CIRCUIT WILL BE CONTROLLED BY PHOTOCELL & THE L-854 RADIO CONTROL UNIT IN THE FOLLOWING MANNER:  
PHOTOCELL - 10% BRIGHTNESS & ACTIVATE RADIO CONTROL  
5 CLICKS - 30% BRIGHTNESS  
7 CLICKS - 100% BRIGHTNESS
- THE RUNWAY 12-30 LIGHTING CIRCUIT WILL BE CONTROLLED BY THE PHOTOCELL & THE L-854 RADIO CONTROL UNIT IN THE FOLLOWING MANNER:  
PHOTOCELL - ACTIVATE RADIO CONTROL  
3 CLICKS - 10% BRIGHTNESS  
5 CLICKS - 30% BRIGHTNESS  
7 CLICKS - 100% BRIGHTNESS
- RADIO OVER-RIDE SWITCH WILL ALLOW DAY LIGHT ACTIVATION OF RUNWAY LIGHTING.
- THE PHOTOCELL OR PHOTOCELL BYPASS SWITCH SHALL ACTIVATE THE AIRPORT ROTATING BEACON, WIND-TEE, & THE AIRPORT ENTRANCE SIGN.
- THE L-854 RADIO SHALL ACTIVATE THE RUNWAY 8-26 PAPI IN THE FOLLOWING MANNER:  
3 CLICKS - ON  
5 CLICKS - REMAIN ON  
7 CLICKS - REMAIN ON
- PROVIDE 2 SPARE CONTROL RELAYS FOR EACH TYPE USED IN THE INTERFACE CONTROL PANEL.

No.	Drawing Issue	Description	Date	By

Date  
JUNE 23, 2006  
Sheet Title

**AIRFIELD LIGHTING CONTROL SCHEMATIC**

843-05C8010	
Project Number	
KNL	05/25/06
Layout By Date	
KNL	05/25/06
Designed By Date	
RMH	06/23/06
Reviewed By Date	
MV	---
Drawn By	
SHEET 26 OF 36	
Sheet No.	

**E12**

P:\05\0805\100943\05C8010\05C8010.DWG JUN 23, 2006 1:45PM LDH