

ALL L-890 EQUIPMENT SHOWN IS NEW

AIR TRAFFIC CONTROL TOWER

CONTROL TOWER EQUIPMENT ROOM (OR WHERE DIRECTED BY OWNER)

ELECTRICAL VAULT

ALL EQUIPMENT SHOWN IS NEW

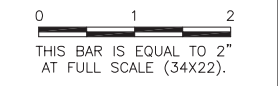
WIRELESS MAINTENANCE COMPUTER
 A WIRELESS ROAMING MAINTENANCE COMPUTER SHALL BE PROVIDED TO ALLOW FOR REMOTE CONNECTION TO THE ALCMS SYSTEM FROM A MAINTENANCE VEHICLE OR OTHER REMOTE LOCATION. THE ROAMING MAINTENANCE COMPUTER SHALL BE A NOTEBOOK COMPUTER WITH DOCKING STATION TO ALLOW THE UNIT TO BE DOCKED AND RE-CHARGED. A 2.4 GHZ RADIO AND REMOTE ANTENNA WITH MAGNET FOR TEMPORARY VEHICLE ROOF-TOP MOUNTING SHALL BE PROVIDED. THE COMPUTER SHALL PROVIDE REAL-TIME CONTROL AND MONITORING OF THE AIRFIELD LIGHTING SYSTEM WHEN IN RANGE OF THE WIRELESS COVERAGE. THE WIRELESS COMPUTER SHALL USE WIRELESS ETHERNET TO PROVIDE WIRELESS ROAMING ACCESS TO THE ALCMS SYSTEM.

- L-890 BLOCK DIAGRAM LEGEND**
- DCMI - DISTRIBUTED CONTROL AND MONITORING INTERFACE
 - T - TERMINATOR
 - UPS - UNINTERRUPTIBLE POWER SUPPLY
 - CONV - COPPER TO FIBER CONVERSION MODULE
 - FOTB - FIBER OPTIC TERMINATOR BOX
 - LA - LIGHTNING ARRESTOR
 - M - MODEM
 - PCEX - VIDEO EXTENDER (TRANSMITTER)
 - PCER - VIDEO EXTENDER (RECEIVER)
 - R - RADIO
 - 900 - 900 MHz RADIO
 - IR - INTERPOSING RELAY
 - PLC - PROGRAMMABLE LOGIC CONTROLLER

- L-821 PANEL REMOVAL**
1. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING L-821 PANEL IN CONTROL TOWER CAB.
 2. EXISTING CONTROL WIRING FROM EXISTING L-821 PANEL TO EXISTING REGULATOR VAULT BUILDING SHALL BE REMOVED.
 3. EXISTING ON/OFF CONTROL WIRING FROM EXISTING L-821 PANEL TO EXISTING FAA POWER AND CONTROL FOR VASI 04, VASI 22, PAPI 18 AND VASI 36 SHALL BE INTERCEPTED AT L-821 PANEL, SPLICED, AND REROUTED TO NEW L-890 SYSTEM PLC IN CONTROL TOWER EQUIPMENT ROOM. THIS WORK SHALL BE COORDINATED WITH FAA PERSONNEL.
 4. INTERPOSING RELAYS WITH MIN. 5A, 120V CONTACTS SHALL BE PROVIDED FOR ALL DIGITAL OUTPUTS FROM PLC USED FOR ON/OFF CONTROL OF FAA EQUIPMENT.
 5. CONTRACTOR SHALL COORDINATE TRANSFER FROM EXISTING L-821 PANEL TO NEW L-890 SYSTEM WITH AIRPORT AND FAA PERSONNEL.

UN051

REVISIONS		
NUMBER	BY	DATE



WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS
 NEW AIRFIELD LIGHTING VAULT
 L-890 AIRFIELD LIGHTING CONTROL & MONITORING SYSTEM

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DESIGN BY:	WDP
DRAWN BY:	CMT
CHECKED BY:	JEH
APPROVED BY:	JEH
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SHEET	58 OF 60 SHEETS

L-890 SYSTEM BLOCK DIAGRAM

N.T.S.