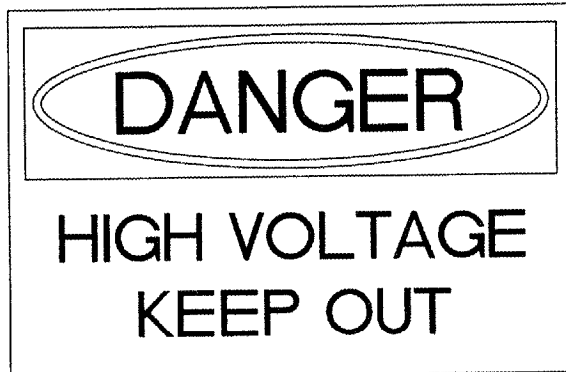


NOTE: CONFIRM WIRING WITH RESPECTIVE TRANSFORMER MFR.

120 VAC TO 132 VAC BOOST TRANSFORMER CONNECTION DIAGRAM FOR SQUARE D CAT. NO. 500SV43B TRANSFORMER

VAULT LEGEND PLATE SCHEDULE	
DEVICE	LABEL
LIGHTING CONTACTOR CONTROL PANEL	RUNWAY 3-21 NAVAID CONTROL PANEL
BOOST TRANSFORMER FOR RUNWAY 21 PLASI	RWY 21 PLASI
SAFETY SWITCH FOR RUNWAY 21 PLASI	RWY 21 PLASI 120 VAC, 1PH, 2W FED FROM VAULT

NOTE: LEGEND PLATES SHALL BE WEATHERPROOF ENGRAVED PLASTIC OR PHENOLIC MATERIAL, 1/4" HIGH BLACK LETTERS ON A WHITE BACKGROUND UNLESS NOTED OTHERWISE. SECURE WITH WEATHERPROOF ADHESIVE AND MACHINE SCREWS. FURNISH ADDITIONAL LEGEND PLATES WHERE REQUIRED BY CODE, FOR ADDITIONAL EQUIPMENT, AS DETAILED HEREIN ON THE PLANS, AND AS NOTED IN THE SPECIAL PROVISION SPECIFICATIONS.



PROVIDE WARNING SIGN ON VAULT EXTERIOR DOOR LABELED "DANGER - HIGH VOLTAGE - KEEP OUT" PER THE REQUIREMENTS OF NEC 110.34 (C).

NOTES

- ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- ALL EQUIPMENT SHOWN NOT LABELED AS EXISTING IS NEW.
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.
- LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LTFMC THAT IS NOT UL LISTED.
- VAULT WORK SHALL BE PAID FOR UNDER ITEM AR109200.
- ALL EXISTING CIRCUIT BREAKERS REMOVED FROM THE PANELBOARD SHALL REMAIN AIRPORT PROPERTY.
- MEASURE VOLTAGE AT PLASI UNIT WITH PLASI OPERATING. PER THE PLASI MFR THE MAX OPERATING VOLTAGE SHOULD NOT EXCEED 130 VAC. IF VOLTAGE EXCEEDS 130 VAC THE BOOST TRANSFORMER WILL NOT BE REQUIRED. CONTACT RESIDENT ENGINEER FOR FURTHER DIRECTION.

ELECTRICAL ONE LINE DIAGRAM FOR PLASI & REIL UNITS

BY	
REVISION	
DATE	
FLORA AIRPORT FLORA, ILLINOIS	
FILE PROJECT NO.	08A0021D_0800
FILENAME	E-601.DWG
SHEET	N/A
DATE	02/01/08
LAYOUT	KNL 01/28/08
DRAWN	MW 01/29/08
REVIEWED	CAH 02/01/08
 Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	
INSTALL REILS & PLASI ON RUNWAY END 21 ELECTRICAL ONE LINE DIAGRAM FOR PLASI & REIL UNITS	
<span style="font-size: 2em; font-weight: bold;">9</span> 9 of 15 sheets	

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