

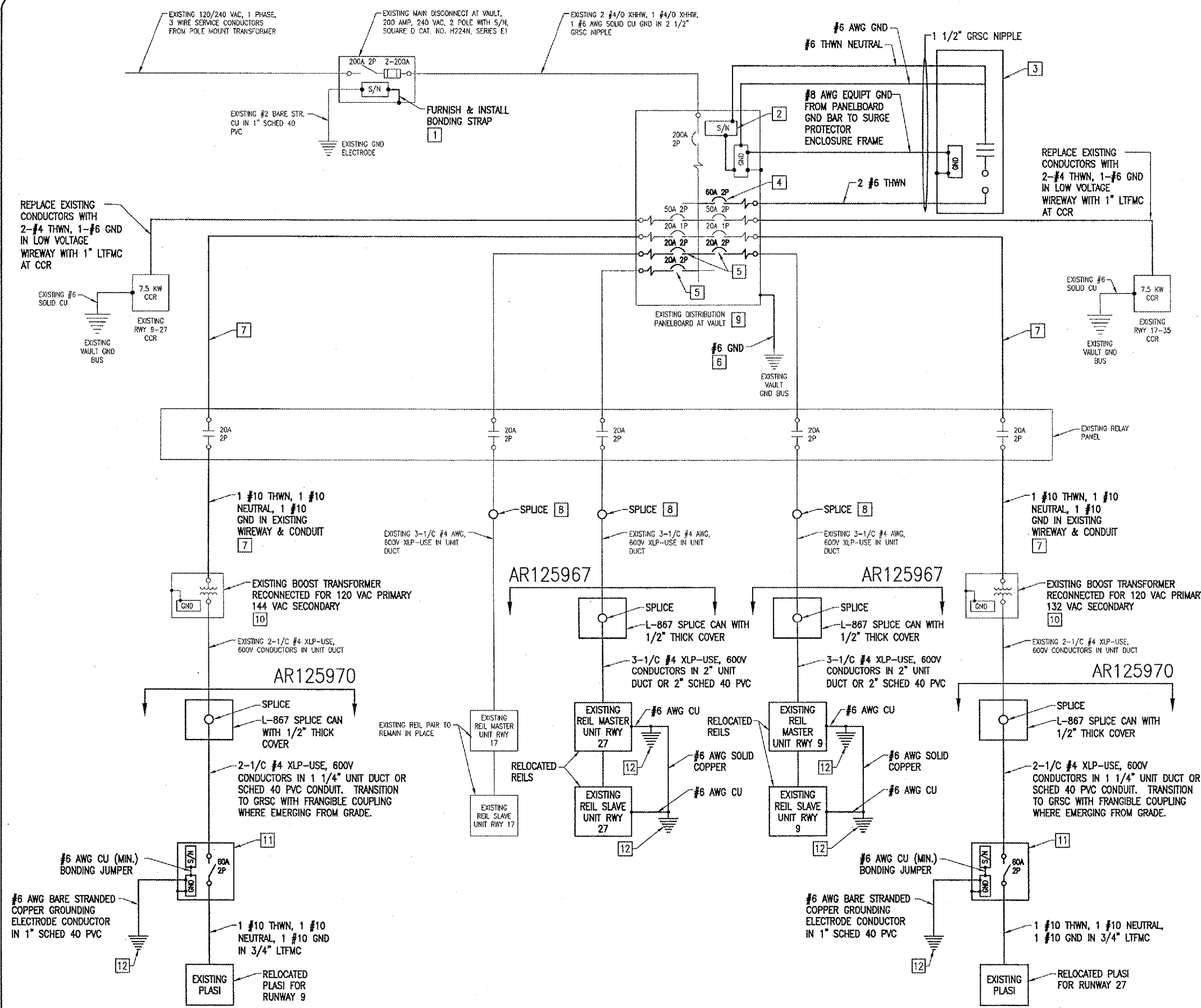
NOTES

1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT AUTHORITY, AND THE RESIDENT ENGINEER.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & REPORT ANY VARIATIONS TO RESIDENT ENGINEER.
3. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (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. CONTRACTOR SHALL KEEP A COPY OF NEC (NATIONAL ELECTRICAL CODE) MOST CURRENT ISSUE IN FORCE, ON SITE FOR USE AS A REFERENCE.
4. ALL EQUIPMENT NOT LABELED AS EXISTING IS NEW.
5. 120/240 VAC, 1 PHASE, 3 WIRE CIRCUITS SHALL BE COLOR CODED PHASE A - BLACK, PHASE B - RED, & NEUTRAL - WHITE. INSULATED GROUND WIRES SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG (SIZES). HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME RACEWAY. FIELD VERIFY CONDUIT & CABLE ROUTING.
6. GRSC DENOTES GALVANIZED RIGID STEEL CONDUIT. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED SUITABLE FOR GROUNDING, AND SUNLIGHT RESISTANT.
7. VAULT WORK SHALL BE PAID FOR UNDER ITEM AR109210.

KEYED NOTES

- 1 FURNISH & INSTALL A NEUTRAL BONDING STRAP FOR THE EXISTING MAIN DISCONNECT/ SAFETY SWITCH, BONDING STRAP SHALL BE SQUARE D CAT. NO. 40552-19450. CONFIRM CAT. NO. WITH SQUARE D FOR THE RESPECTIVE SAFETY SWITCH.
- 2 REMOVE EXISTING NEUTRAL BONDING STRAP IN THE DISTRIBUTION PANELBOARD.
- 3 AC SURGE PROTECTOR/TVSS, SUITABLE FOR 120/240 VAC, 1 PH, 3W PLUS GROUND SYSTEM WITH SURGE CURRENT RATING OF 240 KA, 8 x 20 MICROSECOND WAVE PER MODE & STATUS INDICATION LIGHTS IN A NEMA 12 ENCLOSURE, LIGHTNING PROTECTION CORP. MODEL LPC 2020-8U-G, OR APPROVED EQUAL. AC POWER SURGE ARRESTER/ TVSS SHALL BE UL 1449, 2ND EDITION LISTED. AC SURGE PROTECTOR/TVSS DEVICE SHALL BE INSTALLED ON THE RIGHT HAND SIDE OF THE VAULT PANELBOARD. MAINTAIN LEADS AS SHORT & AS STRAIGHT AS POSSIBLE FROM THE PANELBOARD TO THE AC SURGE PROTECTOR/TVSS DEVICE. PROVIDE DUCT SEAL AT CONDUIT TERMINATIONS. EXISTING BOOST TRANSFORMERS SHALL BE REMOVED AND/OR RELOCATED TO PROVIDE WALL MOUNTING SPACE FOR THE AC SURGE PROTECTOR/TVSS DEVICE.
- 4 FURNISH & INSTALL A NEW 60 AMP, 2 POLE BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. Q0B260 IN POSITIONS 40 & 42, FOR THE AC SURGE PROTECTOR/TVSS DEVICE.
- 5 REPLACE EXISTING 30A, 2P BREAKER WITH A 20 AMP, 2 POLE BREAKER, SQUARE D CAT. NO. Q0B220, FOR EACH REIL CIRCUIT.
- 6 FURNISH & INSTALL A #6 STRANDED COPPER GROUND CONDUCTOR FROM THE DISTRIBUTION PANELBOARD GROUND BAR OR FRAME TO THE VAULT GROUND BUS.
- 7 REPLACE EXISTING #12 THWN BRANCH CIRCUIT CONDUCTOR FOR PLASI'S WITH #10 THWN CONDUCTORS. INCLUDE #10 GND.
- 8 EXISTING BOOST TRANSFORMER IS NOT REQUIRED FOR THE RESPECTIVE REIL CIRCUIT. REMOVE THE EXISTING BOOST TRANSFORMER. FURNISH & INSTALL 2 #10 THWN CONDUCTORS FROM THE RESPECTIVE RELAY AND SPLICE TO THE EXISTING #4 AWG XLP-USE CONDUCTORS, IN EXISTING WIREWAY OR RELAY PANEL. EXISTING BOOST TRANSFORMERS SHALL REMAIN THE PROPERTY OF THE AIRPORT AUTHORITY.
- 9 SEE PANELBOARD SCHEDULES FOR DETAILS ON CIRCUIT BREAKER REPLACEMENTS & ADDITIONS.
- 10 SEE RESPECTIVE BOOST TRANSFORMER CONNECTION DIAGRAM FOR WIRING MODIFICATIONS.
- 11 HEAVY DUTY 60 AMP, 600 VAC, 2 POLE OR 3 POLE WITH S/N & GND, NOT FUSIBLE SAFETY SWITCH IN A NEMA 3R & 12 ENCLOSURE, SQUARE D CLASS 3110, CAT. NO. HU362AWK WITH SNO610 & GTK0610, OR APPROVED EQUAL. INSTALL AT PLASI. NOTE 60 AMP SAFETY SWITCH REQUIRED TO ACCOMMODATE #4 AWG CONDUCTORS FOR LUG TERMINATIONS & WIRE BENDING SPACE.
- 12 10"L x 3/4" DIA. UL LISTED COPPERCLAD GND ROD. MIN. BURY 30" BELOW GRADE. ALL CONNECTIONS TO GND ROD SHALL BE EXOTHERMIC WELD.

NEW ELECTRICAL ONE LINE DIAGRAM FOR VAULT, PLASI'S, & REIL'S

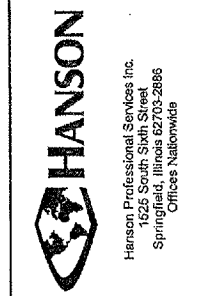


BY	
REVISION	
DATE	

ROBINSON MUNICIPAL AIRPORT
ROBINSON
CRAWFORD COUNTY, ILLINOIS

ALP. PROJ.: 3-17-0886-B10
IL. PROJ.: RSV-3490

Project No.	838-04RWY
Revision	E-602.DWG
Scale	NONE
Date	01/13/04
LAYOUT	KNL 03/04/04
DRAWN	MV 03/05/04
REVIEWED	CAH 03/05/04



RUNWAY 9-27
WIDENING
NEW ELECTRICAL
ONE LINE DIAGRAM FOR
VAULT, PLASI'S & REIL'S

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