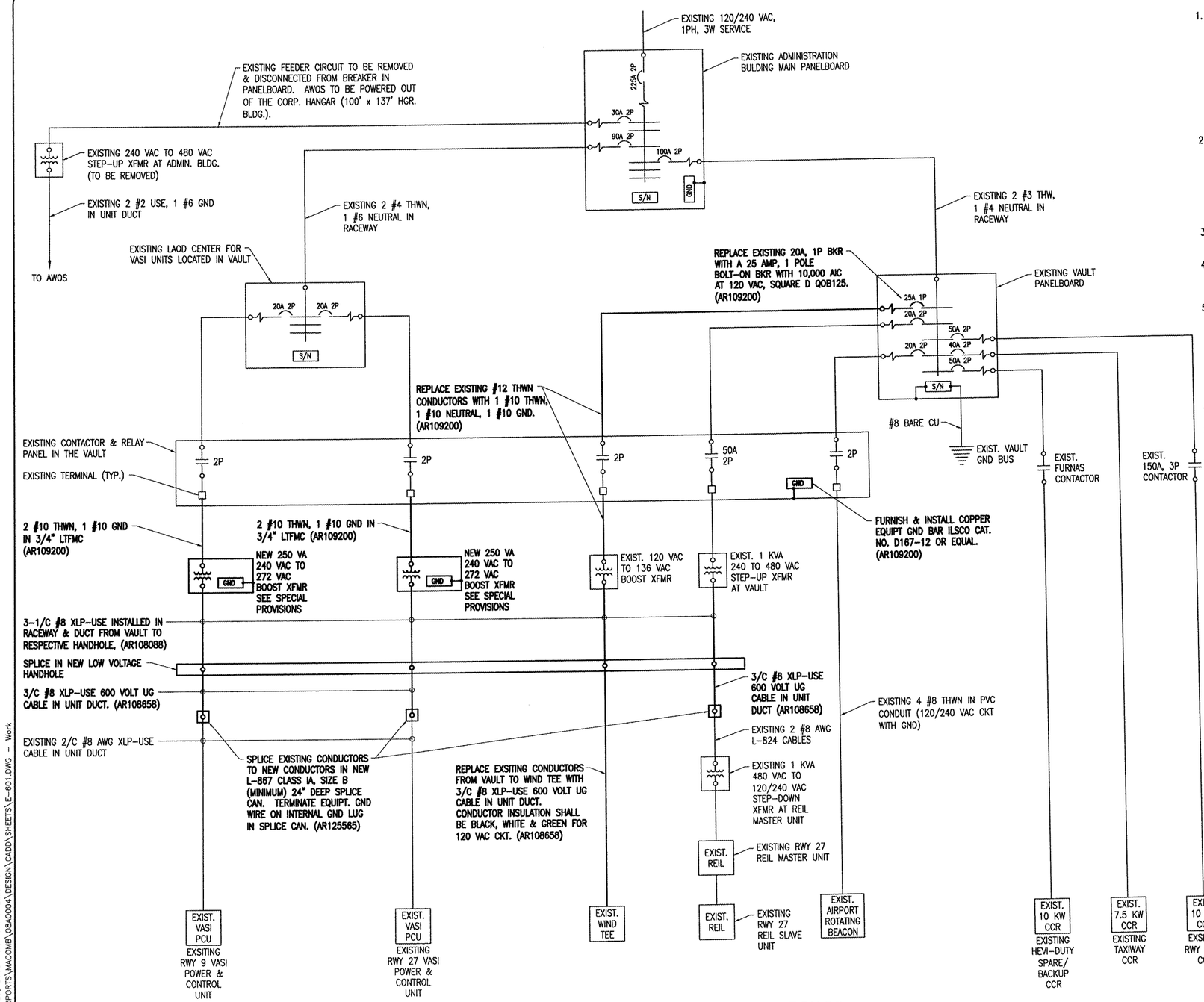

VAULT & AIRFIELD ELECTRICAL ONE LINE DIAGRAM

NOTES

1. ALL VAULT WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT MANAGER. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
2. 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 WILL NOT BE PERMITTED.
3. ALL EQUIPMENT AND MATERIALS SHOWN NOT LABELED AS EXISTING ARE NEW.
4. HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, JUNCTION BOX, MANHOLE, OR HANDHOLE.
5. 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. DO NOT INSTALL LTFMC THAT IS NOT UL LISTED.
6. VAULT WORK SHALL BE PAID FOR UNDER ITEM AR109200.
7. ALL EXISTING CIRCUIT BREAKERS REMOVED FROM THE PANELBOARD SHALL REMAIN AIRPORT PROPERTY.
8. LOW VOLTAGE AIRFIELD CABLES AND CABLE IN UNIT DUCT SHALL HAVE COLOR CODED INSULATION AS FOLLOWS:

120 VAC CIRCUITS

PHASE A	BLACK
PHASE B	RED OR BLACK WITH RED TAPE
NEUTRAL	WHITE
GROUND	GREEN

240 VAC CIRCUITS

PHASE A	BLACK
PHASE B	RED
GROUND	GREEN

480 VAC CIRCUITS (480 VAC LINE TO NEUTRAL)

HOT	BLACK WITH BROWN TAPE
NEUTRAL	WHITE OR GRAY
GROUND	GREEN

DANGER

HIGH VOLTAGE
KEEP OUT

PROVIDE WEATHERPROOF WARNING SIGN ON VAULT TRANSCLOSURE EXTERIOR DOORS (4 TOTAL) LABELED "DANGER – HIGH VOLTAGE – KEEP OUT" PER THE REQUIREMENTS OF NEC 110.34 (C).

DATE	REVISION	BY

MACOMB MUNICIPAL AIRPORT
MACOMB, ILLINOIS

A.I.P. PROJ.: 3-17-0064-B16
IL PROJ.: MQB-3798

HEI Project No. 08A0004D 0800
Filename: E-601.DWG
Scale: NONE
Date: 04-11-08

LAYOUT	KNL	04/08/08
DRAWN	MV	04/08/08
REVIEWED	RAW	04/11/08

HANSON
Hanson Professional Services Inc.
1525 S. Sunset Street Road
Springfield, Illinois 62703-2888
Offices Nationwide

CONSTRUCT RAMP EXPANSION

VAULT & AIRFIELD ELECTRICAL ONE LINE DIAGRAM

APR 25, 2008 10:34 AM WALLE00723
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