

NOTES


1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
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 SHOWN NOT LABELED AS EXISTING IS NEW.
4. CONTRACTOR SHALL CONFIRM POWER REQUIREMENTS WITH THE ACTUAL NAMEPLATE ON EACH CONSTANT CURRENT REGULATOR (OR OTHER RESPECTIVE EQUIPMENT) AND ADJUST CIRCUIT BREAKER, WIRE SIZES & CONDUIT SIZES TO CONFORM WITH NEC & MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE. WIRE SIZES SHOWN ON THE PLANS ARE MINIMUM.
5. HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY.
6. BRANCH CIRCUIT TO NEW REGULATOR SHALL BE INSTALLED IN THE RESPECTIVE LOW VOLTAGE WIREWAY/DUCT, WITH GRSC AT TRANSITIONS AND UL LISTED LIQUID TIGHT FLEXIBLE METAL CONDUIT AT FINAL CONNECTIONS TO THE REGULATOR. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH NEC.
7. BOND NEW REGULATOR TO THE RESPECTIVE VAULT GROUND BUS WITH A DEDICATED #6 AWG BONDING JUMPER.
8. 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.
9. VAULT WORK SHALL BE PAID FOR UNDER ITEM AR109200.

BY	REVISION	DATE

EFFINGHAM COUNTY
MEMORIAL AIRPORT
EFFINGHAM, ILLINOIS

A.I.P. PROJ.: 3-17-0040-B11
IL PROJ.: 1H2-3761

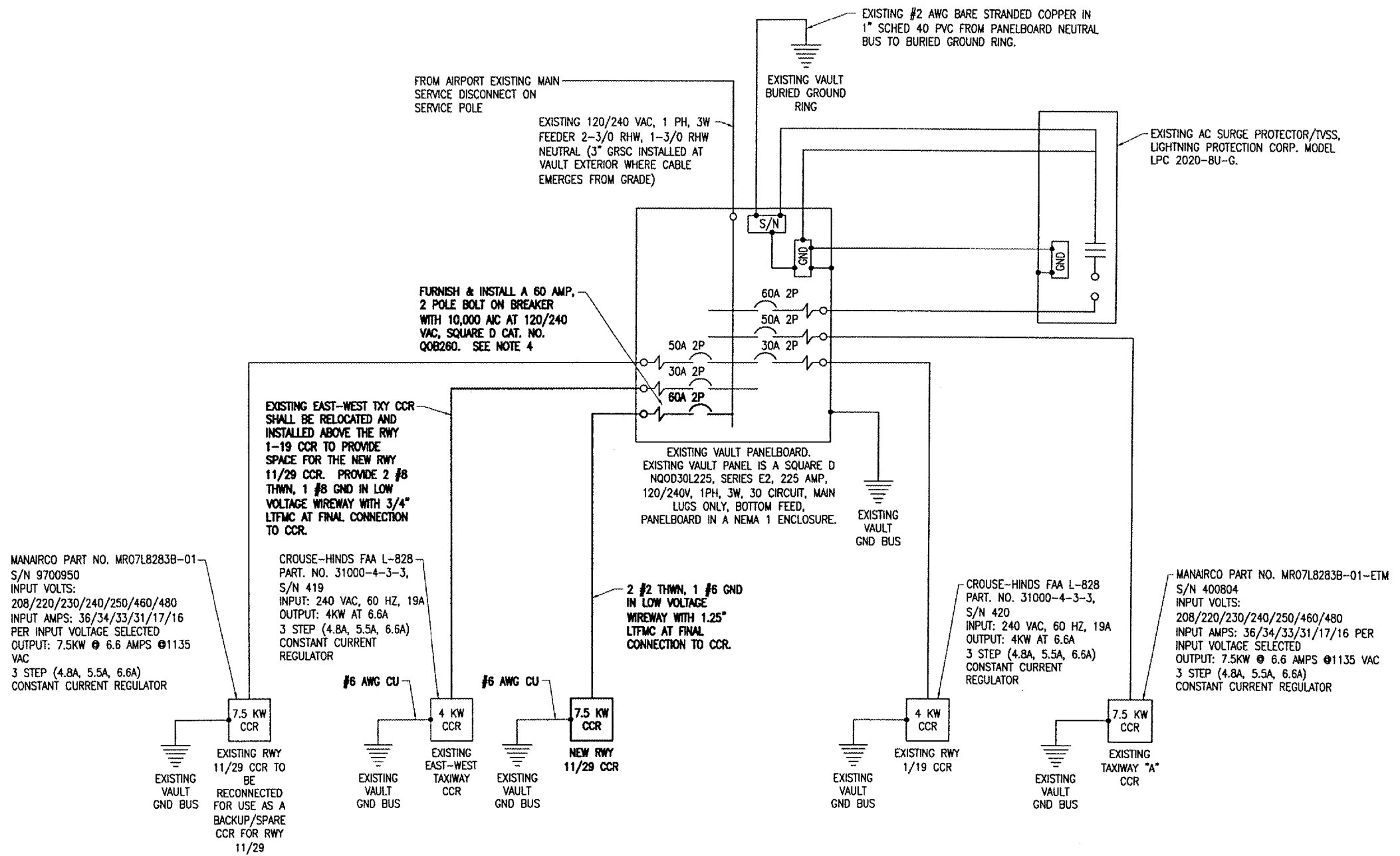
REV. Project No. 07A0143D_0800	02/17/04
E-601.DWG	02/18/04
Scale NONE	02/12/08
Date	
LAYOUT	KNL
DRAWN	DMV
REVIEWED	CAH



Hanson Professional Services Inc.
1525 South Sixth Street
Springfield, Illinois 62703-2886
Offices Nationwide

WIDEN RUNWAY 11/29
AND REPLACE MRL'S
NEW ELECTRICAL ONE LINE
FOR VAULT

NEW ELECTRICAL ONE LINE DIAGRAM FOR VAULT



FROM AIRPORT EXISTING MAIN SERVICE DISCONNECT ON SERVICE POLE

EXISTING 120/240 VAC, 1 PH, 3W FEEDER 2-3/0 RHW, 1-3/0 RHW NEUTRAL (3" GRSC INSTALLED AT VAULT EXTERIOR WHERE CABLE EMERGES FROM GRADE)

EXISTING #2 AWG BARE STRANDED COPPER IN 1" SCHED 40 PVC FROM PANELBOARD NEUTRAL BUS TO BURIED GROUND RING.

EXISTING AC SURGE PROTECTOR/TVSS, LIGHTNING PROTECTION CORP. MODEL LPC 2020-8U-G.

FURNISH & INSTALL A 60 AMP, 2 POLE BOLT ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. QOB260. SEE NOTE 4

EXISTING EAST-WEST TAXY CCR SHALL BE RELOCATED AND INSTALLED ABOVE THE Rwy 1-19 CCR TO PROVIDE SPACE FOR THE NEW Rwy 11/29 CCR. PROVIDE 2 #8 THWN, 1 #8 GND IN LOW VOLTAGE WIREWAY WITH 3/4" LTFMC AT FINAL CONNECTION TO CCR.

EXISTING VAULT PANELBOARD. EXISTING VAULT PANEL IS A SQUARE D NQ0030L225, SERIES E2, 225 AMP, 120/240V, 1PH, 3W, 30 CIRCUIT, MAIN LUGS ONLY, BOTTOM FEED, PANELBOARD IN A NEMA 1 ENCLOSURE.

2 #2 THWN, 1 #6 GND IN LOW VOLTAGE WIREWAY WITH 1.25" LTFMC AT FINAL CONNECTION TO CCR.

CROUSE-HINDS FAA L-828 PART. NO. 31000-4-3-3, S/N 420 INPUT: 240 VAC, 60 HZ, 19A OUTPUT: 4KW AT 6.6A 3 STEP (4.8A, 5.5A, 6.6A) CONSTANT CURRENT REGULATOR

MANAIRCO PART NO. MR07L8283B-01-ETM S/N 400804 INPUT VOLTS: 208/220/230/240/250/460/480 INPUT AMPS: 36/34/33/31/17/16 PER INPUT VOLTAGE SELECTED OUTPUT: 7.5KW @ 6.6 AMPS @1135 VAC 3 STEP (4.8A, 5.5A, 6.6A) CONSTANT CURRENT REGULATOR

MANAIRCO PART NO. MR07L8283B-01 S/N 9700950 INPUT VOLTS: 208/220/230/240/250/460/480 INPUT AMPS: 36/34/33/31/17/16 PER INPUT VOLTAGE SELECTED OUTPUT: 7.5KW @ 6.6 AMPS @1135 VAC 3 STEP (4.8A, 5.5A, 6.6A) CONSTANT CURRENT REGULATOR

CROUSE-HINDS FAA L-828 PART. NO. 31000-4-3-3, S/N 419 INPUT: 240 VAC, 60 HZ, 19A OUTPUT: 4KW AT 6.6A 3 STEP (4.8A, 5.5A, 6.6A) CONSTANT CURRENT REGULATOR