NOTES

COORDINATE ELECTRIC SERVICE WITH THE SERVING ELECTRIC UTILITY; SHELBY ELECTRIC COOPERATIVE, ROUTE 128 & N. SIXTH

STREET, SHELBYVILLE, IL 62565

ATTN. MR. JAMES MATLOCK.

PH: (217)774-3986

3/4" DIA x 20'L UL LISTED

COPPER CLAD GND ROD (2-

3/4" DIA. x 10'L GND RODS COUPLED TOGETHER). TOP OF GND ROD SHALL BE 30" BELOW GRADE.

#2 AWG STRANDED COPPER

GROUNDING ELECTRODE

80 PVC.

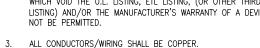
CONDUCTOR IN 1" SCHED

THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION

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

- 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.
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, HANDHOLE, JUNCTION BOX, OR
- 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 LIFMC THAT IS NOT UL" LISTED. CONFIRM LIFMC BEARS THE UL LABEL PRIOR TO INSTALLATION.

ALL VAULT WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT SUPERINTENDENT AND THE AIRPORT FBO MANAGER. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).



COMPATIBLE WITH THE EXISTING PANELBOARD. VAULT GND BUS 2 #1/0 THWN, 荢 1 #1/0 NEUTRAL #2 AWG COPPER 1 #1/0 GND IN 2" GRSC 150A 2P #8 EQUIPT GND AC SURGE PROTECTOR, SUITABLE FOR 120/240 1.5" GRSC NIPPLE VAC, 1 PH, 3W PLUS GROUND SYSTEM WITH SURGE CURRENT RATING OF 240 KA, 8 \times 20 MICROSECOND WAVE PER MODE & STATUS GND + INDICATION LIGHTS IN A NEMA 12 ENCLOSURE, GND LIGHTNING PROTECTION CORP. MODEL LPC #6 GND 2020-8U-G, OR APPROVED EQUAL. AC SURGE S/N PROTECTOR DEVICE SHALL BE INSTALLED ON THE RIGHT HAND SIDE OF THE PANELBOARD. EXISTING SERVICE PANEL "A" #6 NEUTRAL MAINTAIN LEADS AS SHORT & AS STRAIGHT AS 귱 POSSIBLE FROM THE PANELBOARD TO THE AC 60A 2F SURGE PROTECTOR DEVICE. PROVIDE DUCT SEAL AT CONDUIT TERMINATIONS. ŧ 60A 2P -2 #6 THWN LOW VOLTAGE WIREWAY & GRSC 20A 2P 60A 2P 2 #6 THWN, 1 #10 GND IN LOW VOLTAGE 20A 1P WIREWAY & GRSC 2 #6 THWN, 60A 1 #10 GND IN LOW 60A 2 #10 THWN, 2 #8 THWN, 30A 2F VOLTAGE WIREWAY WITH FOR RWY 36 1 #10 1 #8 NEUTRAL-1" LTFMC AT FINAL GND NEÜTRAL 1 #8 GND FOR CONNECTION TO CCR FOR WIND airport TFF ROTATING BEACON 1 #10 GND IN 1" LTFMC VAULT PANEL "B" 7.5 KW 7.5 KW 7.5 KW CCR CCR CCR NEW RWY TO AIRFIELD LIGHTING CONTACTOR PANEL RELOCATED TAXIWAY 18-36 CCR FOR CCR USE AS BACKUP TO

FURNISH AND INSTALL A 150AMP, 2 POLE

QOB2150VH OR APPROVED EQUAL, THAT IS

BOLT-ON BREAKER WITH 22,000 AIC AT

120/240VAC, SQUARE D CAT. NO.

-60 AMP, 240 VAC, 2 POLE DOUBLE THROW HEAVY DUTY FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE. SWITCH SHALL BE UL LISTED AND SUITABLE TO CONNECT A SINGLE POWER SOURCE TO EITHER OF TWO DIFFERENT LOADS. SWITCH SHALL BE EATON CUTLER-HAMMER CAT. NO. DT322FGK OR APPROVED EQUAL.

HANSON Ocopyright Honson Professional Services Inc. 2012
Hanson Professional Services Inc. 1525 South Sixth Street
Springfield, Illinois 62/703-2886
Ph. (21/7) 788-2450 Fax. (21/7) 788-2503
Www.hanson-inc.com

CONSTRUCT VAULT,
LIGHT TAXIWAY &
INSTALL NAVAIDS
PROPOSED ELECTRICAL
ONE-LINE FOR VAULT AND
AIRFIELD (SHEET 1)

1525 Soi Springfield, Ph: (217) 788-24: www ha

SHELBY COUNTY AIRPORT SHELBYVILLE, ILLINOIS

29

CURRENT TRANSFORMER WIRING IN 1" MIN.

ELECTRIC UTILITY TRANSFORMER WITH 120/240VAC,

TRANSFORMER WILL BE DETERMINED BY ELECTRIC

EXISTING SURGE

PROTECTOR

#2 BARE STRANDED COPPER-

GROUNDING ELECTRODE

80 PVC.

CONDUCTOR IN 1" SCHED

10'L x 3/4" DIA UL LISTED COPPER CLAD GND ROD.

CONNECTIONS TO GND RODS

SHALL BE EXOTHERMIC WELD.

EXISTING GND. ROD MAY BE

REUSED IN PLACE.

1PH, 3W SECONDARY. LOCATION OF UTILITY

-UTILITY METER BASE FOR CURRENT

ABOVE GRADE PER UTILITY CO.

60A 2P

REQUIREMENTS.

W

TRANSFORMER METERING PER SERVING

FLECTRIC UTILITY CO. REQUIREMENTS.

LOCATE AT BLDG. EXTERIOR 4.5' TO 5'

2 #4/0 XHHW, 1 #4/0 NEUTRAL, IN 2.5"

XFMR. PROVIDE SUFFICIENT SLACK CABLE

FOR UTILITY CONNECTIONS TO THEIR TRANSFORMER. CONDUIT TO ENTER/EXIT

- EXISTING PULL BOX.

BLDG 24" MIN. ABOVE FINISHED GRADE.

EXISTING PULL BOX MAY BE REUSED IN

SCHEDULE 80 PVC DIRECT BURY TO UTILITY

SCHED 80 PVC CONDUIT PER SERVING

ELECTRIC UTILITY REQUIREMENTS.

UTILITY CO.

UTILITY PRIMARY BY

SERVING ELECTRIC UTILITY }

PROPOSED ELECTRICAL ONE-LINE DIAGRAM FOR VAULT AND AIRFIELD