



NOTES

1. 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 WILL NOT BE PERMITTED.
2. CONTRACTOR SHALL COORDINATE ELECTRIC SERVICE WITH THE SERVING ELECTRIC UTILITY & THE AIRPORT MANAGER. THE SERVING ELECTRIC UTILITY COMPANY IS COMMONWEALTH EDISON COMPANY, 17028 SOUTH ROUTE 23, PO BOX 646, DEKALB, ILLINOIS 60115, ATTN. MR. JIM ACKERT, PHONE 815-748-2271, FAX: 815-748-2267. THE AIRPORT MANAGER IS MR. TOM CLEVELAND, CITY OF DEKALB AIRPORT DIVISION, 3232 PLEASANT STREET, DEKALB, IL 60115, PHONE: 815-748-2020, FAX 815-748-2022.
3. SURGE ARRESTER WIRING SHALL BE AS SHORT & AS STRAIGHT AS POSSIBLE BETWEEN THE PANELBOARD & THE SURGE ARRESTER PER FAA STD 019e, PART 4.2.2.2, 2005 NEC 285 & MANUFACTURER'S RECOMMENDATIONS. FOR TOP FEED MAIN LUG PANELBOARD THE SURGE PROTECTIVE DEVICE SHALL BE MOUNTED DIRECTLY ABOVE THE PANELBOARD. FOR BOTTOM FEED MAIN LUG PANELBOARD THE SURGE PROTECTIVE DEVICE SHALL BE MOUNTED DIRECTLY BELOW THE PANELBOARD.
4. PROVIDE DUCT SEAL IN CONDUIT NIPPLE BETWEEN PANELBOARD & SURGE PROTECTIVE DEVICE.

**RUNWAY 2 GLIDESLOPE SHELTER
ELECTRICAL ONE LINE DIAGRAM**

CKT #	DUTY	SIZE	SIZE	DUTY	CKT #
1	LIGHTS	15A 1P	20A 2P	HVAC UNIT	2
3	CONVENIENCE OUTLETS	20A 1P	---	---	4
5	CONVENIENCE OUTLETS	20A 1P	---	---	6
7	GLIDE SLOPE RACK	20A 1P	15A 2P	GLIDE SLOPE RACK OUTLETS	8
9	GLIDE SLOPE RACK	20A 1P	---	---	10
11	SPARE	20A 1P	15A 1P	OBSTRUCTION LIGHTS	12
13	SPARE	20A 1P	20A 2P	SPARE	14
15	SPARE	20A 1P	---	---	16
17	BLANK	---	---	---	18
19	BLANK	---	---	---	20

100 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 20 CIRCUIT PANELBOARD WITH MAIN LUGS SUITABLE FOR TWO SETS OF CONDUCTORS, IN A NEMA 1 ENCLOSURE. INCLUDE SEPARATE GROUND BAR KITS. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH 10,000 AIC AT 120/240 VAC. PANELBOARD SHALL BE SQUARE D COMPANY CAT. NO. NQ0D20L100CU, WITH NQ0D100SFL SUB-FEED LUG KIT, OR APPROVED EQUAL.

- NOTES
1. PANELBOARD BUS SHALL BE COPPER. NEUTRAL BUS SHALL BE COPPER. EQUIPMENT GROUND BARS SHALL BE COPPER.
 2. INCLUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED "RWY 2 GLIDESLOPE PANEL, 120/240 VAC, 1 PHASE, 3 WIRE".
 3. CONTRACTOR SHALL CONFIRM POWER REQUIREMENTS WITH THE RESPECTIVE GLIDESLOPE MANUFACTURER & OTHER ASSOCIATED EQUIPMENT NAMEPLATE DATA AND ADJUST CIRCUIT BREAKER SIZES TO CONFORM WITH NEC & MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE.
 4. 15 AMP & 20 AMP, BRANCH CIRCUITS SHALL USE #12 AWG THWN COPPER CONDUCTORS (MINIMUM). FOR 20 AMP BRANCH CIRCUITS NO MORE THAN 9 #12 AWG CURRENT CARRYING CONDUCTORS SHALL BE INSTALLED IN THE SAME RACEWAY. ADJUST/INCREASE CABLE SIZES WHERE MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY, PER THE REQUIREMENTS OF NEC 310.15(B)(2).
 5. BRANCH CIRCUITS SHALL INCLUDE EQUIPMENT GROUND WIRES.
 6. 120/240 VAC BRANCH CIRCUIT CONDUCTORS SHALL BE COLOR CODED PHASE A - BLACK, PHASE B - RED, NEUTRAL - WHITE, GROUND - GREEN.

DATE	REVISION	BY

DIMAX
DEKALB TAYLOR MUNICIPAL AIRPORT
A.I.P. PROJ.: 3-17-0139-B37
I.L. PROJ.: DKB-3225

HANSON PROJECT No. 803-08ELEC	DATE 04/20/07	LAYOUT KNL 03/14/07
Estimate E-601.DWG	Scale NONE	DRAWN MW 03/15/07
		REVIEWED CAH 03/29/07

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

INSTALL MALSR & GLIDE SLOPE
GLIDE SLOPE ELECTRICAL
ONE LINE, RUNWAY 02
DKB-D-GS02-E02

2007 06 06 10:21 AM BAK \\P\PROJECTS\DEKALB\803-08ELEC\AIRPORT\SHEETS\AUTO-CADD\SHEETS\E-601.DWG - Work