



ONE LINE DIAGRAM  
RWY 2 PAPI & REIL, & RWY 27 PLASI

KEYED NOTES

- 1 3KVA 240 VAC TO 480 VAC, 1 PHASE, 2 WIRE STEP UP TRANSFORMER IN A WEATHERPROOF HOUSING, ACME CAT. NO. T-2-53013-S OR APPROVED EQUAL. SECONDARY SHALL BE WIRED 480 VAC, PHASE TO PHASE WITH ONE SECONDARY LEAD BONDED TO GROUND. OUTPUT SHALL BE 1 HOT AND 1 GROUNDED (NEUTRAL) CONDUCTOR.
- 2 30 AMP, 3 POLE, 600 VAC, UL LISTED HEAVY DUTY FUSIBLE SAFETY SWITCH IN A NEMA 3R & 12 ENCLOSURE WITHOUT KNOCKOUTS, SQUARE D CLASS 3110, CAT. NO. H361AWK WITH H60SN NEUTRAL ASSEMBLY, OR APPROVED EQUAL. INCLUDE EQUIPMENT GROUND KIT. PROVIDE 1-15 AMP, 600V, CLASS RK5 FUSE, BUSSMANN FRN-R-15, OR APPROVED EQUAL. USE CENTER POLE FOR SINGLE PHASE APPLICATION. INCLUDE 2 SPARE FUSES OF SAME SIZE & TYPE.
- 3 3KVA 480 VAC TO 120/240 VAC, 1 PHASE, 3 WIRE, 60HZ STEP DOWN TRANSFORMER IN A WEATHERPROOF HOUSING, ACME CAT. NO. T-2-53013-S OR APPROVED EQUAL.
- 4 30 AMP, 2 POLE WITH SOLID NEUTRAL, 240VAC, UL LISTED HEAVY DUTY FUSIBLE SAFETY SWITCH IN A NEMA 3R & 12 ENCLOSURE WITHOUT KNOCKOUTS, SQUARE D CLASS 3110, CAT. NO. H221AWK WITH H60SN NEUTRAL ASSEMBLY. INCLUDE EQUIPMENT GROUND KIT. PROVIDE 2-20 AMP, 250V, CLASS RK5 FUSES, BUSSMANN FRN-R-20, OR APPROVED EQUAL. INCLUDE 2 SPARE FUSES OF SAME SIZE & TYPE.
- 5 BOND NEUTRAL TO GROUND WITH #8 AWG CU BONDING JUMPER OR BONDING SCREW IN CONFORMANCE WITH 2005 NEC 250.32
- 6 BOND NEUTRAL TO GROUND WITH #8 AWG CU BONDING JUMPER OR BONDING SCREW IN CONFORMANCE WITH 2005 NEC 250.30
- 7 EXISTING RWY 2 PAPI PCU (POWER & CONTROL UNIT). NOTE WHERE STEP-DOWN TRANSFORMER IS LOCATED WITHIN 10' OF PAPI PCU ONE GROUND ROD SHALL BE USED FOR THE XFMR & PAPI PCU.
- 8 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. INCLUDE LEGEND PLATE LABELED "RWY 27 PLASI 120 VAC FED FROM VAULT".
- 9 10' x 3/4" DIA UL LISTED COPPERCLAD GND ROD. MIN. BURY 30" BELOW GRADE. ALL CONNECTIONS TO GND RODS SHALL BE EXOTHERMIC WELD.

NOTES

1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
2. 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 (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
3. ALL EQUIPMENT NOT LABELED AS "EXISTING" IS NEW.
4. ADDITIONAL EXISTING CIRCUITS NOT SHOWN FOR CLARITY.
5. FIELD VERIFY LOCATION OF STEP DOWN TRANSFORMERS AND ASSOCIATED SAFETY SWITCHES WITH RESIDENT ENGINEER.
6. RELOCATION OF REILS SHALL BE PAID FOR UNDER ITEM AR125967 RELOCATE REILS - PER PAIR.
7. RELOCATION OF PAPI SHALL BE PAID FOR UNDER ITEM AR125968 RELOCATE PAPI - PER EACH.
8. SAFETY SWITCH AND GROUNDING UPGRADES FOR PLASI SHALL BE PAID FOR UNDER ITEM AR125950 ADJUST PLASI - PER EACH.

|          |  |
|----------|--|
| BY       |  |
| REVISION |  |
| DATE     |  |



|                                  |  |
|----------------------------------|--|
| U.L. Project No. 803-0577AD 0800 |  |
| Filename E-601.DWG               |  |
| Scale NONE                       |  |
| Date 12/05/02                    |  |
| LAYOUT KNL 03/20/06              |  |
| DRAWN MW 03/20/06                |  |
| REVIEWED CAH 12/16/05            |  |



REMOVE AND REGRADE  
RUNWAY END 2  
ONE LINE DIAGRAM  
RUNWAY 2 PAPI AND REIL  
AND RUNWAY 27 PLASI

APR 07, 2006 10:02 AM BAK I:\AIRPORTS\DEKALB\803-0577AD\AIRPORT\SHEETS\ELECTRICAL\E-601.DWG - Work-FLR