

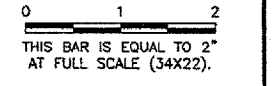
SPARE REGULATOR WIRING NOTE
 PROVIDE SUFFICIENT LENGTH OF SERIES CIRCUIT CABLE AT THE SPARE REGULATORS TO REACH THE L-823 CONNECTORS ON THE SERIES CIRCUIT HOMERUN CABLES OF THE FURTHEST REGULATOR OF SAME KW SIZE AS SPARE REGULATOR. PROVIDE L-823 CONNECTORS FOR THESE CABLES TO PERMIT CONNECTION TO SERIES CIRCUIT HOMERUN CABLES.

NOMENCLATURE

- ① 30KW RUNWAY 03/21 REGULATOR, L-828, 5-STEP, 240V INPUT, 6.6A OUTPUT, FLIGHT LIGHT (HEVI-DUTY) 30-LB28-R-5-D-6-IA, OR EQUIVALENT. PROVIDE ENGRAVED NAMEPLATE READING: "RUNWAY 03/21"
- ② 15KW RUNWAY 16/34 AND TAXIWAY D REGULATOR, L-828, 3-STEP, 240V INPUT, 6.6A OUTPUT, FLIGHT LIGHT (HEVI-DUTY) 15-LB28-A-5-D-6-IA, OR EQUIVALENT. PROVIDE ENGRAVED NAMEPLATE READING: "RUNWAY 16/34" "TAXIWAY D"
- ③ 15KW TAXIWAY A, A-1, A-2 (CIRCUIT #1) REGULATOR, L-828, 3-STEP, 240V INPUT, 6.6A OUTPUT, FLIGHT LIGHT (HEVI-DUTY) 15-LB28-A-5-D-6-IA, OR EQUIVALENT. PROVIDE ENGRAVED NAMEPLATE READING: "CIRCUIT #1" "TAXIWAY A, A-1, A-2"
- ④ 15KW TAXIWAY C, C1 (CIRCUIT #2) REGULATOR, L-828, 3-STEP, 240V INPUT, 6.6A OUTPUT, FLIGHT LIGHT (HEVI-DUTY) 15-LB28-A-5-D-6-IA, OR EQUIVALENT. PROVIDE ENGRAVED NAMEPLATE READING: "CIRCUIT #2" "TAXIWAY C, C1"
- ⑤ 15KW TAXIWAY B (CIRCUIT #3) REGULATOR, L-828, 3-STEP, 240V INPUT, 6.6A OUTPUT, FLIGHT LIGHT (HEVI-DUTY) 15-LB28-A-5-D-6-IA, OR EQUIVALENT. PROVIDE ENGRAVED NAMEPLATE READING: "CIRCUIT #3" "TAXIWAY B"
- ⑥ 240V WIRING FROM PANEL #1 AS FOLLOWS:
 - RUNWAY 03/21 REGULATOR AND SPARE 30KW REGULATOR: TWO #2/0 THWN, ONE #6 GROUND IN 1-1/2" FLEX.
 - ALL OTHER REGULATORS: TWO #3 THWN, ONE #8 GROUND IN 1" FLEX.
- ⑦ TWO 1/C #8, 5KV, L-824 TYPE C SERIES CIRCUIT CABLES IN 1" FLEX.
- ⑧ HINGED NEMA 1 ENCLOSURE SIZED AS REQUIRED TO HOUSE ISOLATION TRANSFORMER AND L-823 CONNECTORS.
- ⑨ RUNWAY OR TAXIWAY EDGE LIGHT MOUNTED TO TOP OF NEMA 1 ENCLOSURE.
- ⑩ ENGRAVED NAMEPLATE MATCHING ASSOCIATED REGULATOR NAMEPLATE.
- ⑪ SERIES CUTOUT, SIEMENS SCO, ORDER #1475.92.030. THE FOLLOWING WIRING IS REQUIRED, BUT NOT SHOWN FOR CLARITY:
 - INSTALL REGULATOR ON/OFF INTERLOCK WIRING FROM REGULATOR TO SERIES CUTOUT MICROSWITCH. (SEE SCO WORKING DIAGRAMS FOR ADDITIONAL INFORMATION.)
- ⑫ PLUG CUTOUT USED AS GROUNDING DISCONNECT, CROUSE-HINDS TYPE S-1, CATALOG #30775. (SEE SCO WORKING DIAGRAMS FOR ADDITIONAL INFORMATION.)
- ⑬ TWO 1/C #8, 5KV, L-824 TYPE C SERIES CIRCUIT CABLES. PROVIDE L-823 CONNECTORS ON HOMERUN SIDE OF SCO. (SEE SPARE REGULATOR WIRING NOTE FOR WIRING INFORMATION FOR THESE REGULATORS.)
- ⑭ 1/C #8, 5KV, L-824 TYPE C CABLE. ROUTE BEHIND BOTH WIREWAYS AND CLAMP TO VAULT GROUND BUS.
- ⑮ #8 GROUND WIRE. CLAMP TO VAULT GROUND BUS.
- ⑯ 5KV SERIES CIRCUIT WIRING WIREWAY, 4" X 4", NEMA 1, HINGED COVER. STAND-OFF MOUNT FROM WALL AS REQUIRED TO PERMIT CONDUIT INSTALLATION BEHIND WIREWAY TO WIREWAY BELOW.
- ⑰ 240V, 120V AND CONTROL WIRING WIREWAY, 4" X 4", NEMA 1, HINGED COVER.
- ⑱ 1/8" X 3/4" COPPER GROUND BUS, ALL AROUND INSIDE OF VAULT. MOUNT AT LEAST 6" ABOVE FLOOR. STAND-OFF MOUNT 1/4" FROM WALL.
- ⑲ 3/4" A-C PLYWOOD MOUNTING PANEL, SIZED AS REQUIRED TO MOUNT EQUIPMENT. PAINT WITH MINIMUM OF TWO COATS OF WHITE EPOXY PAINT.
- ⑳ ADHESIVE WARNING LABEL READING: "SERIES CIRCUIT WIRING". (TYPICAL)
- ㉑ ADHESIVE WARNING LABEL READING: "240V, 120V AND CONTROL WIRING". (TYPICAL)
- ㉒ DUPLEX RECEPTACLE.
- ㉓ EXISTING 15KW REGULATOR RELOCATED FROM EXISTING VAULT. PROVIDE ENGRAVED NAMEPLATE READING "SPARE".
- ㉔ EXISTING 30KW REGULATOR RELOCATED FROM EXISTING VAULT. PROVIDE ENGRAVED NAMEPLATE READING "SPARE".
- ㉕ PANEL #1, 42-POLE, 120/240V, 3-PHASE, 4-WIRE, SQUARE D I-LINE OR EQUIVALENT. PROVIDE ENGRAVED NAMEPLATE READING: "PANEL #1" "120/240V 3PH, 4W" "400A"
- ㉖ L-854 RADIO CONTROLLER. PROVIDE ENGRAVED NAMEPLATE READING "RADIO CONTROLLER".
- ㉗ RADIO INTERFACE UNIT, ONE FOR EACH REGULATOR (EXCEPT SPARES). PROVIDE ENGRAVED NAMEPLATE MATCHING ASSOCIATED REGULATOR NAMEPLATE. PROVIDE CONDUITS AND POWER AND CONTROL WIRING AS DETAILED IN SCHEMATICS AND AS REQUIRED BY L-854 EQUIPMENT SUPPLIER. ROUTE CONDUITS BEHIND SERIES CIRCUIT WIREWAY.
- ㉘ PHOTOCELL BYPASS SWITCH, CONTROL RELAYS AND TIME CLOCK IN NEMA 1 HINGED COVER ENCLOSURE. PROVIDE ENGRAVED NAMEPLATE READING: "PHOTOCELL BYPASS & TIME CLOCK".
- ㉙ TWO #12 THWN (2-WIRE PHOTOCELL CONTROL), ONE #12 GROUND IN 3/4" CONDUIT.
- ㉚ PHOTOCELL, SUPPLIED WITH TIME CLOCK.
- ㉛ ANTENNA CABLE IN 1" CONDUIT (OR AS REQUIRED BY L-854 EQUIPMENT SUPPLIER).
- ㉜ RADIO CONTROLLER ANTENNA. INSTALL AS REQUIRED BY L-854 EQUIPMENT SUPPLIER.
- ㉝ EXHAUST FAN, GREENHECK MODEL CW-98-A, 120V, 1/4 HP, 1.017 CFM, OR EQUIVALENT. PROVIDE WALL-MOUNT THERMOSTAT WITH AUTO-OFF-FAN SUB-BASE.
- ㉞ WIRING BETWEEN EXHAUST FAN AND THERMOSTAT AT DOOR IN 3/4" CONDUIT (CKT. #13).
- ㉟ 5KW 240V SINGLE-PHASE UNIT HEATER, CHROMALOX LUH-05-21, OR EQUIVALENT, WITH THE FOLLOWING ACCESSORIES:
 - 40A DISCONNECT SWITCH
 - UNIVERSAL WALL MOUNT BRACKET
 - REMOTE WALL-MOUNT THERMOSTAT
- ㊱ TWO #10 THWN, ONE #10 GROUND IN 3/4" CONDUIT (CIRCUIT #9).
- ㊲ WIRING BETWEEN HEATER AND WALL-MOUNTED THERMOSTAT AS REQUIRED IN 3/4" CONDUIT.
- ㊳ WIRING BETWEEN INTAKE LOUVER AND THERMOSTAT AT DOOR IN 3/4" CONDUIT.
- ㊴ HEATER THERMOSTAT, SUPPLIED WITH HEATER. INSTALL 4' ABOVE FLOOR PER MANUFACTURER'S REQUIREMENTS.
- ㊵ EXHAUST FAN THERMOSTAT, SUPPLIED WITH FAN. INSTALL 4' ABOVE FLOOR PER MANUFACTURER'S REQUIREMENTS.
- ㊶ INTAKE LOUVER, RUSKIN MODEL ELF3750, 30"W X 30" H, MIN. FREE AREA: 2.97 SQ. FT., WITH CD35 MOTORIZED DAMPER (POWER-OPEN/SPRING-CLOSE), OR EQUIVALENT.

REVISIONS

NUMBER	BY	DATE



VERMILION COUNTY AIRPORT
 DANVILLE, ILLINOIS
 RELOCATE AIRFIELD ELECTRICAL VAULT
 VAULT DETAILS - 1

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SHEET 7 OF 16 SHEETS	