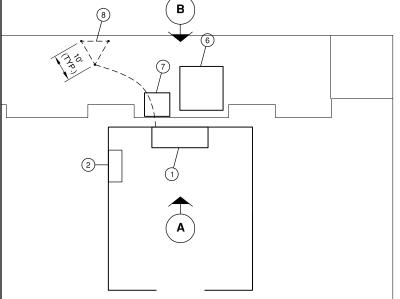


! WARNING

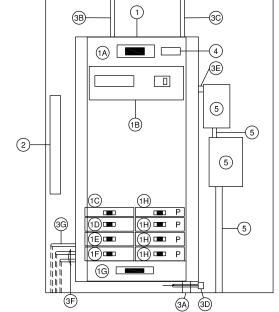
Maximum available fault current: 23,260 Symmetrical RMS Amperes Date: 04/25/14

MAXIMUM FAULT CURRENT WARNING LABEL



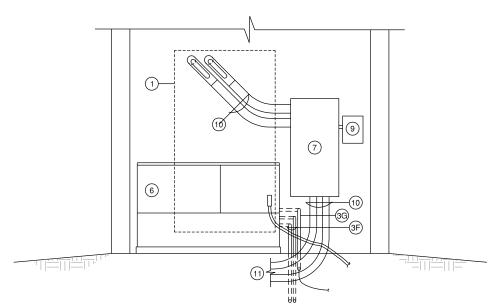
ELECTRICAL / FURNANCE ROOM

- NEW MAIN DISTRIBUTION PANELBOARD, 800A, 208Y/120V, 3 PHASE, 4 WIRE, EATON, CUTLER-HAMMER, OR EQUIVALENT. PANELBOARD SHALL BE UL LISTED AND LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT. PROVIDE AN ENGRAVED NAMEPLATE READING: "800A MAIN PANEL, 208Y/120V, 3P, 4W", PROVIDE THE FOLLOWING AS A MINIMUM:
- 1A 800A, 3P MAIN CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "MAIN BREAKER".
- 1B SURGE PROTECTIVE DEVICE, MINIMUM 240 KA PER PHASE, 120 KA PER MODE, WITH SURGE COUNTER
- 1C 60A, 2P CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "PARKING LOT LIGHTS".
- 1D 100A, 3P CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "TERMINAL BLDG LIGHTING PANEL".
- 100A, 3P CIRCUIT BREAKER TO FUEL DISPENSER PANELBOARD ON EAST WALL OF TERMINAL BLDG. PROVIDE NAMEPLATE READING "FUEL DISPENSER PANELBOARD".
- 100A, 3P CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "TERMINAL BLDG AIR CONDITIONER".
- 1G 300A, 3P CIRCUIT BREAKER. PROVIDE NAMEPLATE READING "AIRFIELD LIGHTING VAULT".
- 1H SPACE FOR FUTURE CIRCUIT BREAKER
- 2. EXISTING TERMINAL BLDG LIGHTING PANEL. CONNECT TO NEW MAIN PANEL AS INDICATED BELOW. PROVIDE NEW TYPED PANELBOARD SCHEDULE.
- 3. EXISTING AND PROPOSED CONDUITS AND WIRING AS FOLLOWS:
- 3A EXISTING WIRING TO TERMINAL BLDG LIGHTING PANEL. RECONNECT TO CIRCUIT BREAKER 1D IN NEW 800A MAIN DISTRIBUTION PANELBOARD.
- 3B EXISTING WIRING TO AVIATION GAS FUEL SYSTEM LOAD CENTER MOUNTED ON EXTERIOR EAST WALL OF TERMINAL BLDG. RECONNECT TO CIRCUIT BREAKER 1E IN NEW 800A MAIN DISTRIBUTION PANELBOARD
- 3C EXISTING WIRING TO AIR CONDITIONER ON ROOF, RECONNECT TO CIRCUIT BREAKER 1F IN NEW 800A MAIN DISTRIBUTION PANELBOARD.



ELECTRICAL / FURNACE ROOM ELEVATION

- 3D THIS WIRING IS BELIEVED TO GO TO TERMINAL BUILDING BATTERY POWERED EXIT SIGNS AT DOORS, CONTRACTOR SHALL CONFIRM, AND IF SO, THIS WIRING SHALL BE RECONNECTED TO A SPARE 15A OR 20A CIRCUIT BREAKER IN TERMINAL BUILDING LIGHTING PANEL. INSTALL NEW NEMA 1 JUNCTION BOX AND NEW CONDUIT AND #12 THWN POWER AND GROUND WIRING AS NEEDED. REVISE LIGHTING PANEL SCHEDULE TO READ "EXIT SIGNS".
- 3E INSTALL NEW TWO #6 THWN, ONE #8 GROUND FROM PARKING LOT CONTACTOR TO CIRCUIT BREAKER 1C IN NEW 800A MAIN DISTRIBUTION PANELBOARD.
- 3F TWO 2" CONDUITS, EACH WITH THREE #1/0 THWN, ONE #1/0 NEUTRAL, ONE #4 GROUND, TO NEW AIRFIELD LIGHTING
- 3G 1" PVC CONDUIT WITH #2/0 BARE COPPER GROUND TO TRIANGULAR GROUND FIELD.
- 4. MAXIMUM FAULT CURRENT WARNING LABEL. SEE DETAIL, THIS SHEET.
- 5. PARKING LOT LIGHTING CONTACTOR, LOAD CENTER, CONDUIT AND WIRING TO REMAIN UNDISTURBED.
- 6. EXISTING PAD MOUNT UTILITY TRANSFORMER, 150 KVA, 208Y/120V, 3 PHASE, 4 WIRE.
- NEW CONTRACTOR FURNISHED AND INSTALLED, UTILITY-APPROVED C.T. CABINET (AMEREN CT-84-AMR, ERICKSON 283-2, CONTRACTOR TO VERIFY), 24"W X 48"H X 8"D. MOUNT TO EXTERIOR WALL IN COMPLIANCE WITH UTILITY
- 8. #2/0 BARE COPPER TRIANGULAR GROUND FIELD, 10' MINIMUM EACH SIDE, MINIMUM BURY 12", EACH CORNER SHALL TERMINATE IN 3/4" DIAMETER BY 10" LONG COPERCLAD GROUND ROD, CONNECT ONE CORNER OF GROUND FIELD TO NEUTRAL BAR IN NEW MAIN DISTRIBUTION PANELBOARD WITH #2/0 BARE COPPER WIRE IN 1" PVC CONDUIT.
- 9. NEW CONTRACTOR FURNISHED AND INSTALLED, UTILITY-APPROVED METER BASE.
- 10. SERVICE ENTRANCE, TWO 4" CONDUITS, EACH WITH THREE 600 MCM THWN, ONE 600 MCM THWN NEUTRAL. CORE DRILL THROUGH BRICK WALL OF TERMINAL BLDG AND SEAL OPENINGS AFTER CONDUIT INSTALLATION TO MAKE WATER TIGHT



UTILITY SERVICE ELEVATION

- 11. CONTRACTOR WORK AS FOLLOWS. ALL WORK SHALL BE IN COMPLIANCE WITH UTILITY COMPANY REQUIREMENTS
 - 11A IF UTILITY TRANSFORMER IS ON A PAD. THE CONTRACTOR SHALL HAND DIG AND INSTALL 4" CONDUITS UNDER PAD AND UP INTO LOW VOLTAGE OPENING OF PAD. TERMINATE CONDUCTORS AND TAG FOR CONNECTION TO TRANSFORMER BY UTILITY.
 - 11B IF UTILITY TRANSFORMER IN ON A TRANSFORMER VAULT THE CONTRACTOR SHALL CORE DRILL THROUGH WALLS FOR CONDUITS. TERMINATE CONDUCTORS AND TAG FOR CONNECTION TO TRANSFORMER BY UTILITY.
- 12. EXISTING AIRFIELD LIGHTING VAULT TRANSCLOSURES. SEE TERMINAL BLDG ELECTRICAL 1 SHEET FOR ADDITIONAL
- 13. EXISTING FUEL DISPENSER PANELBOARD
- 14. EXISTING CONDUITS TO FUEL DISPENSING EQUIPMENT. NOTE THAT THIS WIRING WAS INSTALLED IN COMPLIANCE WITH NEC REQUIREMENTS FOR CLASS 1, DIVISION 1 & 2 CONDITIONS. THIS WIRING SHALL NOT BE DISTURBED. THE CONTRACTOR SHALL HAND DIG IN THIS AREA FOR INSTALLATION OF 3" CONDUIT FOR L-821 CONTROL PANEL WIRING. ANY DAMAGE TO THESE EXISTING CONDUITS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS DIRECTED BY THE
- 15. LOCATION OF BOTH THE EXISTING L-821 CONTROL PANEL AND CABINET AND THE NEW L-821 CONTROL PANEL AND CABINET. REMOVE OLD L-821 PANEL AND INSTALL NEW L-821 PANEL.
- 16. NEW L-821 PANEL CONTROL WIRING IN 3" PVC CONDUIT TO L-821 RELAY PANEL IN NEW VAULT: FOUR 5/C #14 (RWY & TXY CONTROL) THREE 4/C #14 (PCAL INDICATING LIGHT/SPARE TOGGLE SWITCH CONTROL), ONE 5/C #14 (SPARE), 600V, BELDEN, OR EQUIVALENT. CORE DRILL THROUGH BUILDING WALL AND SEAL OPENINGS AFTER CONDUIT INSTALLATION TO MAKE WATER TIGHT.
- 17. NEW POLYMER CONCRETE HANDHOLE, OPEN-BOTTOM DESIGN, 24" X 36" X 42" DEEP, QUAZITE/HUBBELL #PG-2436-BA-42 WITH #PG-2436-HH-00-17 COVER LABELED "ELECTRICAL", OR EQUIVALENT.
- 18. CONDUIT AND WIRING TO NEW AIRFIELD LIGHTING VAULT. SEE VAULT AREA PLAN FOR ADDITIONAL INFORMATION.

FILE: TERMINAL BUILDING ELECTRICAL IPDATE BY: Dale Draughar PLOT DATE: 5/8/2014 12:27 PM BASE_PROP_ELEC

CE032

REVISIONS		
NUMBER	BY	DATE

THIS BAR IS FOLIAL TO 2

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE MIRLS, PAPI & REILS ON RUNWAY 18/36 ELECTRICAL BUILDING **TERMINAL**

CONSULTING



CITY OF CENTRALIA, ILLINOIS CENTRALIA MUNICIPAL AIRPOR-CENTRALIA, ILLINOIS

WDP DESIGN BY: ADD, DPA CHECKED BY APPROVED BY: MAY 2, 2014 JOB No: 11072-02

> IL. PROJ. NO. ENL-4230 PROJ. NO. 3-17-SBGP-XX

SHEET 23 OF 30 SHEETS