



NEW AIRFIELD ELECTRICAL VAULT PLAN VIEW

NOT TO SCALE

NOTES:

1. CONTRACTOR SHALL INSTALL (1) 60A, 2-POLE CIRCUIT BREAKER IN THE EXISTING HIGH VOLTAGE PANELBOARD. MATCH EXISTING CIRCUIT BREAKERS. UPDATE CIRCUIT DIRECTORY FOR NEW 20KW REGULATOR.
2. CONNECT NEW AND EXISTING POWER/CONTROL WIRES TO NEW 20KW REGULATOR TO BE OPERATIONAL FOR TAXIWAY A, B, E AND F CIRCUIT.

PROPOSED VAULT NOMENCLATURE

- 1 EXISTING 30KW (5-STEP) REGULATOR FOR RUNWAY 16/34.
- 2 EXISTING 20KW (5-STEP) REGULATOR FOR RUNWAY 6/24.
- 3 EXISTING 10KW (5-STEP) REGULATOR FOR RUNWAY 12/30.
- 4 EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY G,D AND 34 HOLD APRON.
- 5 EXISTING 15KW (3-STEP) REGULATOR FOR RGL.
- 6 EXISTING 10 KW (3-STEP) REGULATOR FOR RUNWAY 16 APPROACH LIGHTING.
- 7 EXISTING 10 KW (3-STEP) REGULATOR FOR HFC APRON LIGHTING (DISCONNECTED).
- 8 **EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY A,B,E AND F TO BE REMOVED.**
- 9 EXISTING 30 KW (5-STEP) REGULATOR FOR TAXIWAY D, L, Y AND Z.
- 10 EXISTING 20 KW (3-STEP) REGULATOR FOR TAXIWAY "K".
- 11 EXISTING 10KW (3-STEP) REGULATOR FOR RUNWAY 16/34 RDR.
- 12 EXISTING MAIN UTILITY SERVICE CIRCUIT BREAKER DISCONNECT, 800A, 480V..
- 13 EXISTING AUTOMATIC TRANSFER SWITCH, 800A, 480V, 3-POLE.
- 14 **EXISTING HIGH VOLTAGE POWER DISTRIBUTION PANEL, 480V, 3-PHASE WITH 800AMP MAIN CIRCUIT BREAKER (SEE NOTE 1).**
- 15 EXISTING 150KVA, 480V-280V/120V, 3Φ, 4-WIRE TRANSFORMER.
- 16 EXISTING LOW VOLTAGE LIGHTING PANEL. 208Y/120V, 3-PHASE WITH 400AMP MAIN CIRCUIT BREAKER.
- 17 EXISTING PLC CONTROL CABINET.
- 18 EXISTING 800AMP CT CABINET.
- 19 EXISTING GAS FIRED UNIT HEATER.
- 20 EXISTING 12"x12"x12' LONG HIGH VOLTAGE WIREWAY.
- 21 EXISTING 12"x12"x12' LONG LOW VOLTAGE WIREWAY.
- 22 SPACE FOR FUTURE REGULATORS.
- 23 EXISTING 12"x12"x9' LONG HIGH VOLTAGE WIREWAY.
- 24 EXISTING 12"x12"x9' LONG LOW VOLTAGE WIREWAY.
- 25 EXISTING L-854 RADIO CONTROLLER FOR PILOT CONTROL LIGHTING.
- 26 EXISTING 30 KW (3-STEP) REGULATOR, SPARE.
- 27 EXISTING REL CONTROL PANEL.
- 28 EXISTING L884 PCU CONTROLLER FOR LAHSO CIRCUIT IN NEMA 1 ENCLOSURE.
- 29 **NEW 2 #4 THWN, 1 #8 GND, IN EXISTING 4" GRS CONDUIT TO LOW VOLTAGE WIREWAY.**
- 30 **NEW 2-1/C #8 5KV, L-824 CABLE IN 1" WP/FLEX CONDUIT.**
- 31 **NEW 20KW, L-828 (3-STEP) REGULATOR FOR TAXIWAY A, B, E AND F. (SEE NOTE 2).**
- 32 **NEW 2 #4 THWN, 1 #8 GND, 4 #12 THWN, 1 #12 GND, IN 1-1/2" WP FLEX CONDUIT.**
- 33 EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY C.

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 UPDATE BY: Marc Katz
 SURVEY BOOK #
 DATE: Friday, April 01, 2011 9:21:59 AM
 XREF DWG: tblcint_txy.dwg
 tb.dwg

REVISIONS		
NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (3/4X22).

**CHICAGO EXECUTIVE AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS
 CONSTRUCT PARTIAL PARALLEL TAXIWAY ECHO AND
 PARTIAL OVERLAY OF TAXIWAY ECHO**

**AIRFIELD ELECTRICAL VAULT
 MODIFICATIONS**

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CHICAGO EXECUTIVE AIRPORT

DESIGN BY:	AB
DRAWN BY:	JRO
CHECKED BY:	AB
APPROVED BY:	DLP
DATE:	04/22/11
JOB No:	08290-08
ILLINOIS PROJECT:	PWK-3244
A.I.P. PROJECT:	3-17-0018-B32
SHEET	33 OF 49 SHEETS