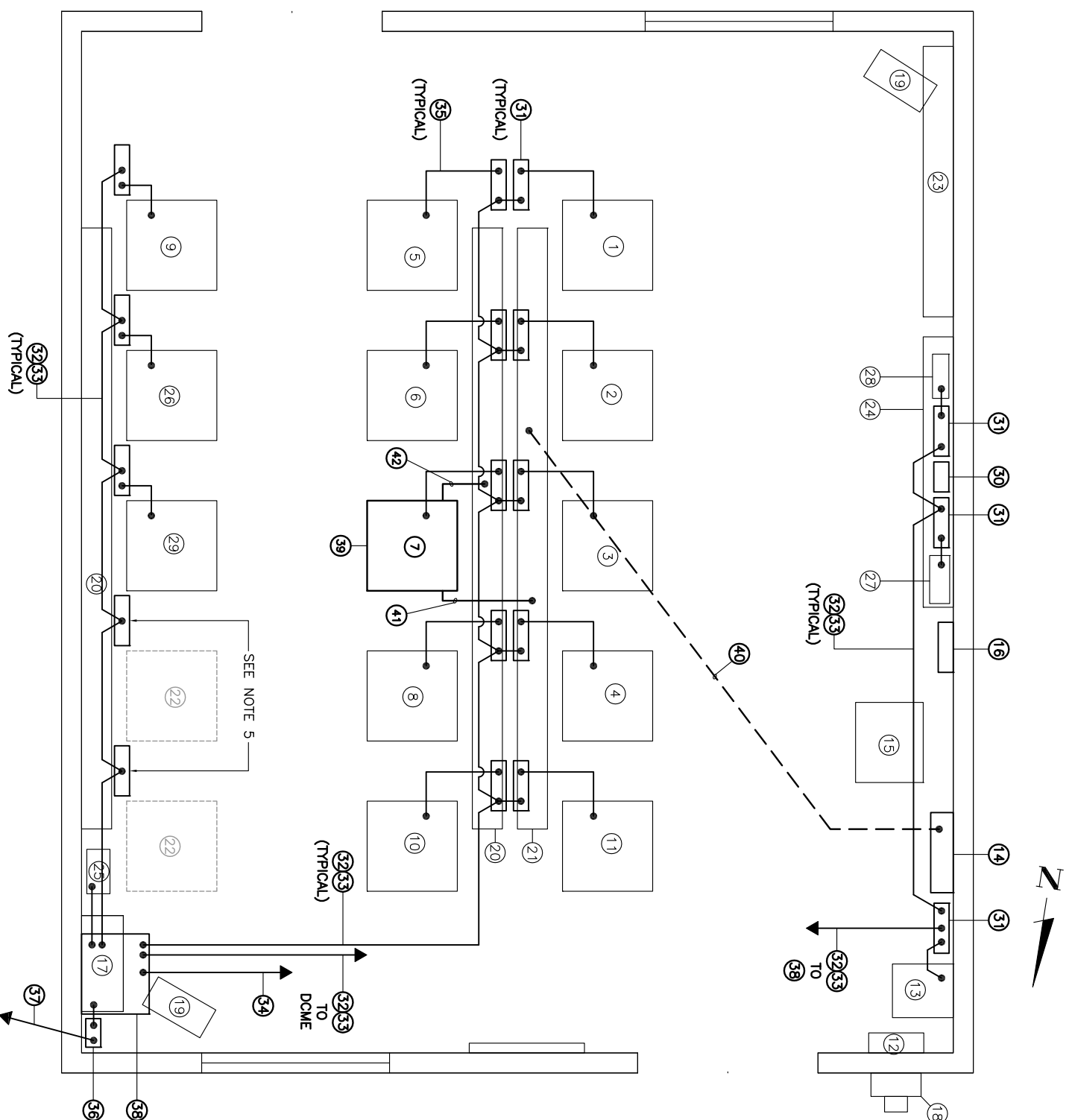


PROPOSED VAULT NOMENCLATURE

- 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 TO BE REMOVED.**
- ⑧ PROPOSED 20kW (3-STEP) REGULATOR FOR TAXIWAY A,B,E AND F.
- 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 8)**
- ⑮ EXISTING 150kVA, 480V-280V/120V, 3ø, 4-WIRE TRANSFORMER.
- ⑯ EXISTING LOW VOLTAGE LIGHTING PANEL, 208Y/120V, 3-PHASE WITH 400AMP MAIN CIRCUIT BREAKER (SEE NOTE 3).**
- ⑰ EXISTING PLC CONTROL CABINET TO BE REMOVED.**
- 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 REIL CONTROL PANEL, (REIL 16, REL 34, REL 12, REL 30)
- ㉘ EXISTING L884 PCU CONTROLLER FOR LAHSO CIRCUIT IN NEMA 1 ENCLOSURE.
- ㉙ EXISTING 10kW (3-STEP) REGULATOR FOR TAXIWAY C.
- ㉚ EXISTING TRANSFORMER TO BE RELOCATED. (SEE NOTE 6)
- ⑳ NEW DISTRIBUTED CONTROL AND MONITORING EQUIPMENT (DCME) MOUNTED ON EXISTING EQUIPMENT PLATE OR WALL. TYPICAL FOR EACH COR (TOTAL OF 15), A.T.S., LAHSO AND REL CONTROLLER (TOTAL OF 3).**
- ㉑ NEW (2) 24 AWG, SHIELDED, TWO TWISTED PAIR, BELDEN 9842 OR AS REQUIRED BY ALCMS MANUFACTURER IN 1" GRS CONDUIT (TYPICAL FOR ALL ACE-II).**
- ㉒ NEW 2 #10 THWN, 1 #10 GND. FOR ACE-II UPS POWER OR AS REQUIRED BY ALCMS MANUFACTURER IN 1" GRS CONDUIT (TYPICAL FOR ALL ACE-II).
- ㉓ NEW 4 #12 THWN, 2 #12 GND. IN 1" GRS CONDUIT TO LOW VOLTAGE LIGHTING PANEL (SEE NOTE 3).
- ㉔ NEW 14 #18 AWG OR AS REQUIRED BY ALCMS IN 3/4" FLEXIBLE CONDUIT (TYPICAL FOR ALL COR'S).
- ㉕ NEW FIBER OPTIC PATCH PANEL AND FIBER OPTIC JUMPER CABLES AS REQUIRED BY ALCMS MANUFACTURER.
- ㉖ NEW 1-12 STRAND MULTI-MODE FIBER OPTIC CABLE IN EXISTING CONDUIT TO ATCT.
- ㉗ NEW ALCMS RACK (SEE NOTE 2).
- ㉘ NEW 30kW, 5-STEP, 480 VAC L-828 REGULATOR, SPARE. (SEE NOTE 7)
- ㉙ NEW 2 #2 THWN, 1 #6 GND. IN EXISTING CONDUIT.
- ㉚ NEW 2 #2 THWN, 1 #6 IN FLEXIBLE CONDUIT.
- ㉛ NEW 2 #1/C #8, SKV L-824 AIRFIELD LIGHTING CABLE IN FLEXIBLE CONDUIT. (SEE NOTE 9)



NEW AIRFIELD ELECTRICAL VAULT PLAN VIEW
NOT TO SCALE

NOTES:

- 1. ALL PROPOSED WORK OR ITEMS BEING MODIFIED ARE SHOWN IN BOLD. ALL OTHER ITEMS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
- 2. PROPOSED ALCMS RACK SHALL BE SUPPLIED WITH WHEELS. NEW CONTROL SYSTEM SHALL BE OPERATIONAL AND TESTED PRIOR TO THE REMOVAL OF EXISTING PLC CABINET. PROVIDE J-BOX, FLEX CONDUIT AND SUFFICIENT CABLE SLACK REQUIRED FOR ALCMS RACK TO BE OPERATIONAL.
- 3. INSTALL 2-20A, 1-POLE CIRCUIT BREAKERS IN LIGHTING PANEL FOR PROPOSED ALCMS.
- 4. INSTALL POWER AND CONTROL WIRES BETWEEN INTERFACE CONTROL PANEL AND A.T.S., BEACON CONTROL, LAHSO CONTROL, L-854 RADIO CONTROLLER AND REL CONTROLLER PER ALCMS MANUFACTURER.
- 5. INSTALL AND WIRE PROPOSED DCME FOR FUTURE REGULATORS.
- 6. RELOCATE EXISTING WALL MOUNTED TRANSFORMER BELOW LAHSO CONTROLLER. MOUNT (2) ACE-II UNITS ON TOP OF EACH OTHER BETWEEN LAHSO AND REL CONTROLLERS.
- 7. REMOVE EXISTING REGULATOR AND INSTALL PROPOSED REGULATOR. INSTALL PROPOSED POWER AND CONTROL WIRES IN FLEXIBLE CONDUIT. MATCH EXISTING CONDITIONS.
- 8. INSTALL 1-1100A, 2-POLE CIRCUIT BREAKER IN EXISTING POWER DISTRIBUTION PANEL.
- 9. INSTALL L-823 CONNECTORS IN HIGH VOLTAGE WIREWAY.

K:\Chicago\epk\0829008_Taxi\Draw\Sheets\Taxiway
 FILE: Taxi-dicrns_02.dwg
 LAYOUT: Layout1
 UPDATE BY: Marc Katz
 SURVEY BOOK #
 DATE: Friday, April 01, 2011 9:25:04 AM
 XREF DWG: tcdrnt_Lxy.dwg
 tb.dwg

REVISIONS	
NUMBER	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).

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

**ADDITIVE ALTERNATE #2
 ALCMS - SHEET 2**

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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 47 OF 49 SHEETS	