

PROPOSED AIRFIELD VAULT MODIFICATIONS 1/4"=1'-0"

NOTES:

- 1. ALL PROPOSED WORK OR ITEMS BEING MODIFIED ARE SHOWN IN BOLD, ALL OTHER ITEMS SHOWN ARE FOR
- 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 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 GENERATOR, A.T.S., BEACON CONTROL, L-854 RADIO CONTROLLER AND PAPI/WINDCONE CONTROLLER PER ALCMS MANUFACTURER.
- 5. INSTALL 12"x12" WIREWAY 24" AFF. EXTEND EXISTING CONDUIT. MATCH EXISTING CONDITIONS,
- 6. CUT 30" LENGTH OF EXISTING WIREWAY TO INSTALL ALCMS RACK.
- INSTALL AND WIRE NEW INTERFACE CONTROL PANEL AND IRMS FOR FUTURE REGULATOR FOR RUNWAY 2L/20R DISTANCE REMAINING SIGN CIRCUIT.

AIRFIELD VAULT NOMENCLATURE

- EXISTING 430 KW (537.5 KVA) STAND-BY GENERATOR SET.
- 2 EXISTING 800A, 480V, 3¢ UTILITY MAIN DISCONNECT.
- (3) EXISTING BOOA, 480V, 30 AUTOMATIC TRANSFER SWITCH.
- (4)
- EXISTING 800A, 480V, 3p GENERATOR SET MAIN DISCONNECT.
- (3) EXISTING 208Y/120 VAC, 34, 4W, LIGHTING PANEL - SEE NOTE 3.
- (6) EXISTING 75 KVA, 480-208Y/120 VAC TRANSFORMER.
- (7) EXISTING 480V, 30 POWER DISTRIBUTION PANEL POP-2.
- (8) EXISTING 480V, 30 POWER DISTRIBUTION PANEL POP-1.
- (9) EXISTING 480V, 30, 480V DELTA TO 480Y/277 VAC TRANSFORMER.
- 10 EXISTING 480Y/277V POWER DISTRIBUTION PANEL.
 - EXISTING HIGH VOLTAGE "HOMERUN" WIREWAY.
- 12 EXISTING 480 VAC, 10 KW, RW 15-33 REGULATOR,
- (3) NOT USED.

(1)

29

(31)

- (14) EXISTING 30KW, 480V, RUNWAY 10/28 REGULATOR.
- (15) EXISTING PAPI/WINDCONE CONTROL PANEL
- **(6)** EXISTING 480 VAC, 10 KW, RUNWAY 2R/20L REGULATOR.
- (17) EXISTING 480 VAC, 20 KW, RUNWAY 2L/20R REGULATOR.
- (18) EXISTING 480 VAC, 30 KW, RUNWAY 2L/20R CENTERLINE REGULATOR.
- (19) EXISTING 480 VAC, 30 KW, RUNWAY 2L/20R TOUCHDOWN ZONE REGULATOR.
- 20) EXISTING 480 VAC. 30 KW. SPARE REGULATOR.
- 21) EXISTING 480 VAC, 30 KW, SPARE REGULATOR.
- (22) EXISTING 480 VAC, 30 KW, TAXIWAY C REGULATOR.
- (23) EXISTING 480 VAC, 30 KW, TAXIWAY W REGULATOR.
- (24) EXISTING 480 VAC, 20 KW, TAXIWAY R REGULATOR.
- EXISTING 480 VAC, 15 KW, TAXIWAY G REGULATOR.
- (26) EXISTING 480 VAC. 15 KW. TAXIWAY E REGULATOR.
- 2 EXISTING 480 VAC. 10 KW, TAXIWAY B-SOUTH REGULATOR.
- EXISTING 480 VAC, 10 KW, TAXIWAY 8-NORTH REGULATOR.
- EXISTING 480 VAC. 10 KW. TAXIWAY C REGULATOR.
- 30) EXISTING 480 VAC, 15 KW, TAXIWAY C, D, E-EAST REGULATOR.
 - PROPOSED 12"x12" WIREWAY SEE NOTE 5.
- (32) FUTURE 480V AC, 10 KW RUNWAY 2L/20R RDR (SEE HOTE 7).
- (3) PROPOSED ALCHS RACK - SEE NOTE 2.
- EXISTING WORK BENCH.
 - PROPOSED 4 #12 THWN, 2 #12 GND. IN 3/4" CONDUIT TO LIGHTING PANEL.
 - EXISTING L-854 RADIO CONTROLLER TO BE RELOCATED.
- EXISTING PLC CONTROL CABINET TO BE REMOVED.
- (38) EXISTING 8" x 8" HIGH VOLTAGE (5 KV) WIREWAY.
- EXISTING 8" x 8" LOW VOLTAGE (600V) WIREWAY SEE NOTE 6.
 - PROPOSED INTERFACE CONTROL PANEL AND INSULATION RESISTANCE MONITOR, TYPICAL FOR EACH CCR, BEACON, GENERATOR AND PAPI/WINDCONE CONTROLLERS.
- PROPOSED (2) 24 AWG SHIELDED TWISTED PAIRS IN 1" CONDUIT TO ALCMS RACK.
- PROPOSED 2 \$10 THWN, 1 \$12 GND. IN EXISTING CONDUIT FOR 120V UPS POWER TO (40)
- PROPOSED 2 \$10 THWN, 1 \$12 GND. IN 3/4" CONDUIT TO ALCHS RACK.

FILE: E-3.dwg LAYOUT: Lavout1 UPDATE BY: Jeremy Linke SURVEY BOOK # DATE: Friday, April 20, 2007 11:31:04 AM XREF DWG: tbcln1.dwg lb.dwg

0	1	2
	***************************************	<u> </u>
		
		1
NUMBER	BY	DATE
F	REVISION	3

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). SYSTEM MONITORING DUPAGE AIRPORT LIGHTIN 28 LIGHTING AIRFIELD

DESIGN BY AB 480

CHECKED BY: APPROVED BY: DATE: 04/20/07 JOB No: 07257-03

E-3

SHEET 4 OF 6 SHEETS