NOTES:

- THE GROUND CONDUCTOR IS 10" ABOVE AND IN THE SAME TRENCH AS THE POWER CABLES RUNNING FROM STATION TO STATION.
- AT THE MALSR CONTROL CABINET, ALL UNUSED CONDUCTORS OF THE CONTROL CABLE ARE GOUNDED. ELSEWHERE, ALL CONDUCTORS WHICH ARE NOT USED ARE TURNED BACK AND INSULATED, AND DRESSED FLAT AGAINST THE INTERIOR OF THE JB-2 BOX.
- 3. THE FLASHERS FIRE IN SEQUENCED TOWARD THE RUNWAY, STARTING AT THE OUTERMOST UNIT. CONTROL TERMINALS 9 (MEDIUM INTENSITY STEP) AND 10 (HIGH INTENSITY STEP) AND 10 (HIGH INTENSITY STEP) AND 10 (COMMON FOR ALL FLASHERS. EACH FLASHER REGUIRES AN INDIVIDUAL CONDUCTOR FOR THE TRIGGER CIRCUIT. FLASHERS ARE NUMBERED IN FIRING SEQUENCE PER THIS SHEET.
- 4. THE WIRES RUNNING FROM EACH INDIVIDUAL FLASHER CONTROL CABINET TO THE FLASHER SPADE LUG CONNECTORS ARE THE 1/C, 3000V WIRES WHICH COME WITH THE FLASHER EQUIPMENT. (IF ADDITIONAL WIRE QUANTITIES ARE NEEDED, THE CONTRACTOR SHALL FURNISH THEM, THE WIRES MUST MEET MILITARY SPECIFICATION MIL-76B).
- 5. CONNECTION IS MADE TO THE TRANSFORMER TAP WHICH GIVES THE VOLTAGE CLOSEST TO 120/240V AT THE MALS DISTRIBUTION PANEL WHEN LAMPS ARE BURNING AT THE HIGH BRIGHTNESS STEP.
- 6. THE LUGS OF TB1 IN THE JB-2 BOXES AND LUGS 10,11,12, OF 1TB1 IN THE MALSR CONTROL CABINET ARE REPLACED WITH LUGS LARGE ENOUGH TO ACCEPT THE CABLES INDICATED.
- 7. ITEM (3)IS HEAVY DUTY NEMA 1 DISCONNECT SWITCH PER SPECIFICATION FAA-GL-918C, PARAGRAPH 16.A13.
- 8. POWER DISTRIBUTION PANEL 100A, 120/240 VAC, 12 POLE, MAIN LUGS ONLY INTERIOR MOUNTED IN 36"x30"x8" NEMA 4 ENCLOSURE. MAIN LUGS ONLY INTERIOR SHALL BE SQUARE D. CLASS 1630, CAT. NO. NOOTIZLIOCCU WITH 8 EACH 15A, 1 POLE BOLT—ON BREAKERS, CAT. NO. 008115, 4 EACH 20A, 1 POLE BOLT—ON BREAKERS, CAT. NO. 008120, DEAD FRONT TRIM, SOLID NEUTRAL AND GROUND BAR. ENCLOSURE SHALL BE HOFFMAN CAT. NO. A~36H30BLP WITH PANEL CAT. NO. A36P30. CONDUIT HUBS SHALL BE WEATHERTICHT.
- 9. NOT USED
- 10, GROUND PLATE SHALL BE PER SHEET 34.
- 11. COIL 4' OF 12 PR# 19 CONTROL CABLE INSIDE THE CONTROL BOX (14)
- 12. WHERE SPECIFIC MANUFACTURERS OF EQUIPMENT ARE GIVEN, THE CONTRACTOR MAY SUBMIT ALTERNATE EQUIPMENT EQUAL TO THAT PROPOSED FOR CONSIDERATION BY THE ENGINEER.

CABLE LEGEND								
FROM STA	TO STA	Α	В	C	D	E	F	G
66+05	68+00	2					3	
68+00	70+00	13	2				3	
70+00	72+00	3	3				3	
72+00	74+00	4	3	2	-	 	3	
74+00	76+00	4	3	3			3	
76+00	77+23	3		3	3	1	3	3
77+23	78+00	T						
78+00	80+00	3		3	3	1		2
P&C STATION	76+00	2			3	2	3	
80+00	85+00	2			3	1		
82+20	90+00	2	3			1		
A=1/C #6 BARE COPPER GROUNDING CONDUCTOR								
B=1/C #4 TYPE U.S.E. POWER CABLE								
C=1/C #6 TYPE U.S.E. POWER CABLE								
D=1/C #2 TYPE U.S.E. POWER CABLE								
E=12 PR, #19 CONTROL CABLE								
F=1/C #2/0, TYPE U.S.E. POWER CABLE								
G=1/C #8, TYPE U.S.E. POWER CABLE								

SYMBOL	DESCRIPTION
×	LIGHT BAR, 5 EACH, PAR 38, 120 V 120 W MISER
8	SEQUENCED FLASHERS
÷	GROUND ROD

TYPICAL MALSR WIRING SHOWN. ACTUAL CONFIGURATION AND CONNECTIONS MAY VARY ACCORDING TO SPECIFIC EQUIPMENT MANUFACTURER'S REQUIREMENTS.

FR-036

K:\FreeportAp\0229408\Oraw\Sheets\ FILE: ELECTDTLS12.dwa LAYOUT: Model UPDATE BY: johse SURVEY BOOK # DATE: Fri 7/8/05 3:25pm XREF DWG: cintinfo.dwg tb.dwg

REVISIONS						
NUMBER	BY	DATE				

THIS BAR IS EQUAL TO 2"

AT FULL SCALE (34X22)

3-17-0045-I ORT - ALBERTUS AIRPORT FREEPORT, ILLINOIS

DIA WIRING DIA F-3132 EM SHE ST > PROJECT SR SY S MALS

FREEP

CRAWFORD,

DESIGN BY: CMT CMT CHECKED BY APPROVED BY DATE: 06/17/05 JOB No: 02294-08

SHEET 14 OF 34 SHEETS