



LEGEND

----- EXISTING EQUIPMENT/WIRE

———— NEW EQUIPMENT/WIRE

PROJECTED QUANTITIES FOR MALS SYSTEM

PIECE NO.	DESCRIPTION	QUANTITY
1	CONTROL CABINET FA-10097	EXISTING
2	15KVA POWER TRANSFORMER FA-10097/3	EXISTING
3	DISCONNECT SWITCH, 120/240V, 100 AMP NEMA 3R FUSED @ 70A	EXISTING
4	INDIVIDUAL CONTROL CABINET FA-10097/1	5
5	FLASHER LIGHT UNIT FA-10097/2	5
6	NOT USED	
7	PAR 38 LAMP HOLDER ASSEMBLY FA-10097/5	25
8	LIGHTNING ARRESTOR	EXISTING
9	PLUG & RECEPTACLE L-823	AS REQ'D
10	CABLE 1/C #2, 600V TYPE USE (MALS)	5550 FT.
11	CABLE 1/C #4, 600V TYPE USE (MALS) AND (RAIL)	3250 FT.
12	CABLE 1/C #6, 600V TYPE UF (RAIL)	N/A
13	CABLE 1/C #8, 600V TYPE UF	1050 FT.
14	CABLE 1/C #10, 600V TYPE UF	250 FT.
15	CABLE 1/C #16, 600V	N/A
16	CABLE 1/C #14, 600V TYPE THW	N/A
17	NOT USED	
18	CABLE 6PR #19 FLASHER CONTROL CABLE	2200 FT.
19	2" FRANGIBLE COUPLING	AS REQ'D
20	NO. 6 BARE COPPER WIRE	3000 FT.
21	NOT USED	
22	NOT USED	
23	NOT USED	
24	AIR-GROUND RECEIVER CONTROLLER (MODEL RC-1T5A)	EXISTING
25	NOT USED	
26	NOT USED	
27	NOT USED	
28	NOT USED	
29	PAR-56 THRESHOLD FIXTURES WITH COUPLING AND GREEN LENS	N/A
30	JUNCTION BOX JB-2 14" X 14" X 6" W/TERMINAL BLOCKS	5
31	PAR-56 AIMING DEVICE	N/A
32	PAR-38 AIMING DEVICE	1
33	MG-20/MG-30 TILT LOWERING DEVICE	1

- NOTES:
- RESERVED.
 - REPLACE TERMINAL BLOCKS WITH A TERMINAL BLOCK SIZED TO HANDLE THE SIZE WIRE BEING TERMINATED.
 - CABLE LENGTHS GIVEN ARE NOMINAL AND ARE BASED ON ENGINEER'S ESTIMATE. CONTRACTOR IS RESPONSIBLE FOR ITS OWN ESTIMATE AND MUST FURNISH CABLE IN SUFFICIENT QUANTITIES.
 - CONTRACTOR SHALL FURNISH A COMPLETE AND OPERABLE SYSTEM INCLUDING AIMING FIXTURES REQUIRED FOR MAINTENANCE AND ALL LAMPS FOR ORIGINAL COMMISSIONING.
 - MALS SYSTEM MUST CONSIST OF EQUIPMENT OF A TYPE CURRENTLY IN THE FAA INVENTORY AND BE COMPATIBLE WITH THE EXISTING MULTI ELECTRIC MFG., INC. SYSTEM.
 - SCHEMATICS SHOWN ARE FOR BIDDING PURPOSES ONLY. EQUIPMENT IS TO BE WIRED TO MANUFACTURER'S SPECIFICATIONS.
 - CONTRACTOR SHALL FURNISH AND INSTALL MALS DISTRIBUTION PANEL NQ00D12L100CU WITH ENCLOSURE MH20WP AND INTERIOR TRIM KIT MH20TK OR APPROVED EQUIVALENT. ENCLOSURE SHALL NEMA 3R WITH LOCKABLE DOOR. ALL BREAKERS ARE SQUARE-D NQ0B OR APPROVED EQUIVALENT.

WIRING DIAGRAM
(EQUIPMENT GROUNDING REQUIRED BUT NOT SHOWN)

PROJECT NAME: **RUNWAY 15 ESA GRADING**

DRAWING TITLE: **MALS ELECTRICAL DETAILS - SHEET 2 OF 2**

DRAWING NO.: **E16**

DATE: 2/6/01

PROJECT NO.:

DESIGN NO.:

DATE: 07/04/00

DESIGNER:

DRAWN:

CHECKED:

SCALE:

REVISIONS:

BY:

DATE:

PRELIMINARY
NOT FOR CONSTRUCTION
CHECK FOR REVISIONS

AWATION ALLIANCE, INC.
CONSULTING ENGINEERS
DATE: 2/20/01
APPROVED

AWATION ALLIANCE, INC.
CONSULTING ENGINEERS
4100 Arnon Center Boulevard, Suite 108
Fort Worth, TX 76185
www.aa-inc.com