ELEC	CTRICAL LEGEND - ONE-LINE DIAGRAM
	CABLE TERMINATOR/LUG
***	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
-2-4	THERMAL MAGNETIC CIRCUIT BREAKER
	FUSE
<b>1</b>	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
#	GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
a	INDICATING LIGHT
W	MOTOR
0	LOAD, MOTOR, # == HORSEPOWER
0	ELECTRIC UTILITY METER BASE
	JUNCTION BOX WITH SPLICE
XXX	EQUIPMENT, XXX = DEVICE DESCRIPTION
GND	GROUND BUS OR TERMINAL
S/N	NEUTRAL BUS
1	Panelboard with main lugs
1	PANELBOARD WITH MAIN BREAKER
**	Fuse Panel with Main Fuse Pullout
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
N EM	transfer switch
	engine generator set

f	ELECTRICAL LEGEND - SCHEMATIC							
-\f-	NORMALLY CLOSED (N.C.) CONTACT							
(8)	STARTER COIL, * = STARTER NUMBER							
OL.	OVERLOAD RELAY CONTACT							
(R)	CONTROL RELAY, * = CONTROL RELAY NUMBER							
®	RELAY, * = RELAY NUMBER							
	TOGGLE SWITCH / 2 POSITION SWITCH							
OFF AUTO	, 1							
∑,ox	2-position selector switch							
HAND T AUTO XOO	3-Position selector switch (H-O-A Shown)							
I	2 POLE DISCONNECT SWITCH							
王	3 POLE DISCONNECT SMTCH							
	PHOTOCELL.							
-0-	Terminal Block, * = Terminal Number							
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER							
***************************************	INTERNAL PANEL WIRING							
	FIELD WIRING							
	FUSE							
GND	GROUND BUS OR TERMINAL							
S/N	NEUTRAL BUS							
	GROUND, GROUND ROD, GROUND BUS							
0000	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR							
	S1 CUTOUT HANDLE REMOVED							
 	S1 CUTOUT HANDLE INSERTED							
3	N.O. THERMAL SWITCH							
्रु	N.C. THERMAL SWITCH							
(W)	L-830 SERIES ISOLATION TRANSFORMER							

	ELECTRICAL ABBREVIATIONS					
AF.F.	ABOVE FINSHED FLOOR					
A, AMP	AMPERES					
ATS	AUTOMATIC TRANSFER SWITCH					
AWG	AMERICAN WIRE CAUCE					
BKR	BREAKER					
С.	CONDUIT					
CB	CIRCUIT BREAKER					
CKT	CIRCUIT					
CR	CONTROL RELAY					
	COPPER					
DPDT	DOUBLE POLE DOUBLE THROW					
DPST	DOUBLE POLE SINGLE THROW					
EM	EMERGENCY					
EMT	ELECTRICAL METALLIC TUBING					
ENCL	ENCLOSURE					
EP	EXPLOSION PROOF					
23	EMERGENCY STOP					
ETL.	INTERTEX — ELECTRICAL TESTING LABS					
ETM	ELAPSE TIME METER					
GFC1	GROUND FAULT CIRCUIT INTERRUPTER					
GFI	GROUND FAULT INTERRUPTER					
GND	GROUND					
GRSC	GALYANIZED RIGIO STEEL CONDUIT					
HID	HIGH INTENSITY DISCHARGE					
HOA	HAND OFF AUTOMATIC					
HP	HORSEPOWER					
HPS	HIGH PRESSURE SODIUM					
J	JUNCTION BOX					
KVA	KILOVOLT AMPERE(S)					
KW	KILOWATTS					
LC	LIGHTING CONTACTOR					
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)					
LTG	UCHTING					
LP	LIGHTING PANEL					
MAX	MAXIMUM					
MCB	MAIN CIRCUIT BREAKER					
MCM	THOUSAND CIRCLUAR MIL					
MDP	MAIN DISTRIBUTION PANEL					
MFR	MANUFACTURER					
мн	METAL HALIDE					
MIN	MINIMUM					
MLO	MAIN LUGS ONLY					
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)					
NC	NORMALLY CLOSED					
NO	NORMALLY OPEN					
NTS	NOT TO SCALE					

OVERLOAD

EL	ECTRICAL ABBREVIATIONS (CONTINUED)					
PB	PULL BOX					
PC	PHOTO CELL					
PDB	POWER DISTRIBUTION BLOCK					
PNL	PANEL					
RCPT	RECEPTACLE					
R	RELAY					
s	STARTER					
SPD	SURGE PROTECTION DEVICE					
SPST	SINGLE POLE SINGLE THROW					
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR					
TYP	TYPICAL					
UG	UNDERGROUND					
UGE	UNDERGROUND ELECTRIC					
UL	Underwriter's Laboratories					
٧	volts					
w/	WITH					
w/o	WITHOUT					
₩P	WEATHER PROOF					
XFER	TRANSFER					
XFMR	TRANSFORMER					

WP	WEATHER PROOF					
XFER	TRANSFER					
XFMR	TRANSFORMER					
AIRPO	AIRPORT EQUIPMENT/FACILITY ABBREVIATIONS					
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM					
ATCT	AIR TRAFFIC CONTROL TOWER					
AWOS	AUTOMATED WEATHER OBSERVING SYSTEM					
CCR	CONSTANT CURRENT REGULATOR					
DNE	DISTANCE MEASURING EQUIPMENT					
FAR	FEDERAL AVAITON REGULATION					
GS	GLIDE SLOPE FACILITY					
HIRL	HIGH INTENSITY RUNWAY LIGHT					
ILS	INSTRUMENT LANDING SYSTEM					
IM	INNER MARKER					
UR	LOW IMPACT—RESISTANT					
FOC	LOCALIZER FACILITY					
MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM					
MALSR	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY AUGNMENT INDICATING LIGHTS					
MIRL	MEDIUM INTENSITY RUNWAY LIGHT					
MITL	MEDIUM INTENSITY TAXIWAY LIGHT					
NDA	NON-DIRECTIONAL REACON					
PAPI	PRECISION APPROACH PATH INDICATOR					
PLASI	PULSE LIGHT APPROACH SLOPE INDICATOR					
RAIL	RUNWAY ALIGNMENT INDICATING LIGHTS					
REIL	RUNWAY END IDENTIFIER LIGHT					
RVR	RUNWAY VISUAL RANGE					
VADI	VISUAL APPROACH DESCENT INDICATOR					
VASI	VISUAL APPROACH SLOPE INDICATOR					
VOR	VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE FACILITY					
₩C	WIND CONE					
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CO055

## NOTES:

- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- 2. ALL WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT MANAGER. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
- COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL TO COMPLY WITH NEC 250.119. NEUTRAL CONDUCTORS SHALL HAVE WHITE COLORED INSULATION FOR NO. 6 AWG AND SMALLER TO MEET THE REQUIREMENTS OF NEC 200.6. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/2	40	VAC.	1	PHASE.	3	WIRE
PHASE	Α			BLACK		
PHASE	В			RED		
NEUTR	AL			WHITE		
GROU	۷D			GREEN	l	

- 4. SEE RESPECTIVE SITE PLANS FOR SITE LEGEND INFORMATION.
- LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LIFMC THAT IS NOT UL LISTED.
- ALL ENCLOSURES RATED NEMA 4, 4X SHALL HAVE WATERTIGHT HUBS AT CONDUIT ENTRANCES U.L. LISTED NEMA 4, 4X FOR THE RESPECTIVE ENCLOSURE, TO MAINTAIN THE NEMA 4. 4X RATING.
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.

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REVISION					
DATE					

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PERIMETER FENCE INSTALLATION ELECTRICAL LEGEND AND ABBREVIATIONS

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