ELECTRICAL LEGEND — ONE—LINE DIAGRAM	
0	CABLE TERMINATOR/LUG
***	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
ш	FUSE
<b>↓</b>	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEMCE
Ť	GROUND — GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
a	INDICATING LIGHT
W	MOTOR
<b>①</b>	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
#	Panelboard with main lugs
<b>1</b>	Panelboard with main Breaker
<b>♣</b> □₩	Fuse panel with main fuse pullout
0=	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
N EM	Transfer swiich
	ENGINE GENERATOR SET

	ELECTRICAL LEGEND - SCHEMATIC		
<b>-</b>	normally open (n.o.) contact		
	NORMALLY CLOSED (N.C.) CONTACT		
(₽)	CONTROL RELAY, * = CONTROL RELAY NUMBER		
®	RELAY, * = RELAY NUMBER		
· ~	TOGGLE SWITCH / 2 POSITION SWITCH		
OFF AUTO	2-Position selector switch		
HAND TAUTO	3-POSITION SELECTOR SWITCH (H-0-A SHOWN)		
11	2 POLE DISCONNECT SWITCH		
111	3 POLE DISCONNECT SWITCH		
<del>_0</del>	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		
0 0	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR		
CCR	S1 CUTOUT HANDLE REMOVED		
CCR LOAD	S1 CUTOUT HANDLE INSERTED		

	ELECTRICAL ABBREVIATIONS
AF.F.	ABOVE FINSHED FLOOR
A, AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
С	CONDUIT
C9	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
OPST	DOUBLE POLE SINGLE THROW
EW	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCI.	ENCLOSURE
ЕP	EXPLOSION PROOF
ES	EMERGENCY STOP
ETM	ELAPSE TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
1	JUNCTION BOX
KVA	kilovolt ampere(s)
k₩	KILOWATTS
LC	LIGHTING CONTACTOR
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
u	LIGHTING PANEL
MAX	MAXINUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCLUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE
LISM	MD-11-11-11-11-11-11-11-11-11-11-11-11-11

MAIN LUGS ONLY MLO NORMALLY CLOSED NORMALLY OPEN NTS NOT TO SCALE OHE OVERHEAD ELECTRIC OL OVERLOAD PB PULL BOX 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 VOLTS W/ WITH W/0 WITHOUT WEATHER PROOF XFER TRANSFER XFMR TRANSFORMER

ELECTRICAL ABBREVIATIONS (CONTINUED)

	ELECTRICAL LEGEND - PLANS		
	CONDUIT (EXPOSED)		
	CONDUIT OR UNIT DUCT (CONCEALED OR BURIED)		
0000	DUCT		
E	BURIED/UNDERGROUND ELECTRIC		
UGE	UNDERGROUND ELECTRIC		
ОНЕ	OVERHEAD ELECTRIC		
⊶¤	POLE MOUNTED HID FIXTURE		
<b>e</b>	DUPLEX CONVENIENCE RECEPTACLE, 120V, SINGLE PHASE, GROUNDING TYPE, 48" A.F.F. EXCEPT AS NOTED		
ю о •	WALL OR CEILING NT'D. JUNCTION BOX. CONFIGURATION VARIES WITH USE		
40	SINGLE THROW DISCONNECT SWITCH		
423	SINGLE THROW, FUSIBLE DISCONNECT SWITCH		
<b>4</b> (25)	ENCLOSED CIRCUIT BREAKER		
<b>ල</b> න	CONTROL. PANEL		
9	MOTOR, ESTIMATED H.P. AS INDICATED.		
0	MOTOR		
Ī	TRANSFORMER		
	ELECTRIC UTILITY METER		
	ENCLOSURE		
	CIRCUIT BREAKER PANEL-SEE SCHEDULES		
•	GROUND ROD		

MVØ53

- 70 (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 SHALL NOT BE PERMITTED.
- 2. CONTRACTOR SHALL COORDINATE WORK AND ANY POWER OUTAGES WITH THE RESPECTIVE FACILITY OWNER PERSONNEL AND THE AIRPORT MANAGER.
- COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 8 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 6 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/240 VAC, 1 PHASE, 3 WIRE PHASE A BLACK PHASE B RED NEUTRAL WHITE WHITE

BLACK RED PHASE C BLUE NEUTRAL WHITE GROUND GREEN

GROUND 120/208 VAC, 1 PHASE, 3 WIRE PHASE A BLACK PHASE B NEUTRAL GROUND GREEN 208/120 VAC, 3 PHASE, 4 WIRE PHASE A BLACK PHASE B

REHABILITATE RUNWAY 5-23

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NOTES: 1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA **HANSON** 

MIN MINIMUM

INFORMATION SHOWN ON THIS

SHEET IS FOR BID ALTERNATE

NO. 1 & BID ALTERNATE NO. 2