	ELECTRICAL ABBREVIATIONS
A.F.F.	ABOVE FINSHED FLOOR
A, AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
С	CONDUIT
СВ	CIRCUIT BREAKER
СКТ	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
ЕМ	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ES	EMERGENCY STOP
ETL	INTERTEK - ELECTRICAL TESTING LABS
ETM	ELAPSE TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	GROUND FAULT INTERRUPTER
GFI	+
GND	GROUND CTEEL CONDUIT
GRSC	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
НОА	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	LIGHTING
LP	LIGHTING PANEL
MAX	MAXIMUM
мсв	MAIN CIRCUIT BREAKER
мсм	THOUSAND CIRCLUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
мн	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
	NATIONAL ELECTRICAL CODE (NFPA 70)
NEC	NORMALLY CLOSED
NEC NC	
NC	NORMALLY OPEN
NC NO	NORMALLY OPEN NOT TO SCALE
NC	NORMALLY OPEN NOT TO SCALE OVERHEAD ELECTRIC

ELI	ECTRICAL ABBREVIATIONS (CONTINUED)
РВ	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
V	VOLTS
w/	WITH
W /0	WITHOUT
WP	WEATHER PROOF
XFER	TRANSFER
XFMR	TRANSFORMER

XFMR	TRANSFORMER					
AIRPORT EQUIPMENT/FACILITY ABBREVIATIONS						
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM					
ATCT	AIR TRAFFIC CONTROL TOWER					
AWOS	AUTOMATED WEATHER OBSERVING SYSTEM					
CCR	CONSTANT CURRENT REGULATOR					
DME	DISTANCE MEASURING EQUIPMENT					
FAR	FEDERAL AVIATION REGULATION					
GS	GLIDE SLOPE FACILITY					
HIRL	HIGH INTENSITY RUNWAY LIGHT					
ILS	INSTRUMENT LANDING SYSTEM					
IM	INNER MARKER					
LIR	LOW IMPACT-RESISTANT					
LOC	LOCALIZER FACILITY					
MALS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM					
MALSR	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATING LIGHTS					
MIRL	MEDIUM INTENSITY RUNWAY LIGHT					
MITL	MEDIUM INTENSITY TAXIWAY LIGHT					
NDB	NON-DIRECTIONAL BEACON					
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					
wc	WIND CONE					

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***	TRANSFORMER
__	DISCONNECT SWITCH
-\=	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
- -}-	THERMAL MAGNETIC CIRCUIT BREAKER
	NORMALLY OPEN (N.O.) CONTACT
-\	NORMALLY CLOSED (N.C.) CONTACT
%	TOGGLE SWITCH / 2 POSITION SWITCH
	FUSE
-	TRANSIENT VOLTAGE SURCE SUPPRESSOR OR SURGE PROTECTOR DEVICE
#	GROUND — GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
Ø	INDICATING LIGHT
W	MOTOR
#	LOAD, MOTOR, # = HORSEPOWER
	ELECTRIC UTILITY METER BASE
•	JUNCTION BOX WITH SPLICE OR TERMINALS
xxx	EQUIPMENT, XXX = DEVICE DESCRIPTION
GND	GROUND BAR, GROUND BUS OR GROUND TERMINAL
S/N	SOLID NEUTRAL, NEUTRAL BUS, OR NEUTRAL TERMINAL
#	PANELBOARD WITH MAIN LUGS
##1	PANELBOARD WITH MAIN BREAKER
-≪□≫	FUSE PANEL WITH MAIN FUSE PULLOUT
0	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
N EM	TRANSFER SWTICH: N = NORMAL EM = EMERGENCY L = LOAD
G	ENGINE GENERATOR SET

ELECTRICAL LEGEND - ONE-LINE DIAGRAM CABLE TERMINATOR/LUG, TERMINAL BLOCK, OR SPLICE

	ELECTRICAL LEGEND — PLANS
	CONDUIT (EXPOSED)
	CONDUIT OR UNIT DUCT (CONCEALED OR BURIED)
	DUCT
	DUCT
—Е—	BURIED/UNDERGROUND ELECTRIC
—оне—	OVERHEAD ELECTRIC
\$	TOGGLE SWITCH
ⅎ	PUSH BUTTON STATION
ю о о	WALL OR CEILING MT'D. JUNCTION BOX. CONFIGURATION VARIES WITH USE
-	SINGLE THROW DISCONNECT SWITCH
42	SINGLE THROW, FUSIBLE DISCONNECT SWITCH
408	ENCLOSED CIRCUIT BREAKER
W	MOTOR
Т	TRANSFORMER
Ф	ELECTRIC UTILITY METER
	ENCLOSURE
	CIRCUIT BREAKER PANEL-SEE SCHEDULES
СР	CONTROL PANEL
•	GROUND ROD
⊗-⊅	POLE WITH CAMERA

NOTES:

- 1. 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 DIRECTOR/MANAGER, ONCE SHUT DOWN, THE CIRCUITS SHALL BÉ 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:

PHASE A BLACK
I IIASE A DEACK
PHASE B RED
NEUTRAL WHITE
GROUND GREEN

240/120 VAC, 3 PHASE, 4 WIRE BLACK PHASE B ORANGE PHASE C RLUF NFUTRAL WHITE GROUND GRFFN

- 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 LTFMC THAT IS NOT UL LISTED. CONFIRM LTFMC BEARS THE UL LABEL PRIOR TO INSTALLATION.
- 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 NFMA 4. 4X RATING.
- 7. HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.
- 8. PER NEC 513 THE ENTIRE AREA OF A HANGAR INCLUDING ANY ADJACENT AND COMMUNICATING AREAS NOT SUITABLY CUT OFF FROM THE HANGAR, SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 HAZARDOUS LOCATION UP TO A LEVEL 18 INCHES ABOVE THE FLOOR, PER NEC 513.3(C) "VICINITY OF AIRCRAFT", THE AREA WITHIN 5 FT. HORIZONTALLY FROM AIRCRAFT POWER PLANTS OR AIRCRAFT FUEL TANKS SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 LOCATION THAT SHALL EXTEND UPWARD FROM THE FLOOR TO A LEVEL 5FT. ABOVE THE UPPER SURFACE OF WINGS AND OF ENGINE ENCLOSURES. ALL ELECTRICAL INSTALLATIONS IN CLASSIFIED HAZARDOUS LOCATIONS SHALL BE AVOIDED UNLESS SPECIFICALLY APPROVED FOR SUCH LOCATIONS AND INSTALLED IN CONFORMANCE WITH NEC 500, 501, AND 513 AS WELL AS OTHER APPLICABLE CODES AND REQUIREMENTS.
- PER NEC 511 THE GARAGE AREAS OF THE 9. MAINTENANCE/SNOW REMOVAL EQUIPMENT FACILITY AND/OR THE FIRE STATION MIGHT BE CLASSIFIED AS A CLASS 1, DIVISION 2, GROUP D HAZARDOUS LOCATION FOR A LEVEL OF 18 IN. ABOVE THE FLOOR. ALL ELECTRICAL INSTALLATIONS SHALL CONFORM TO THE APPLICABLE SECTIONS OF NEC 500, 501, AND 511 IN ADDITION TO THE OTHER APPLICABLE SECTIONS OF NEC. WHERE ELECTRICAL EQUIPMENT IS INSTALLED IN A CLASSIFIED HAZARDOUS LOCATION, IT SHALL BE SUITABLE FOR USE IN THE RESPECTIVE CLASSIFIED HAZARDOUS LOCATION. WHERE POSSIBLE, AVOID INSTALLATION OF ELECTRICAL EQUIPMENT, RACEWAYS, AND WIRING IN THE CLASSIFIED HAZARDOUS AREAS OF THE FACILITY.

REVISION					
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ILLINOIS DECATUR,

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REPLACE PERIMETER FENCE

ELECTRICAL LEGEND AND ABBREVIATIONS

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