

## POWER SYMBOLS

	CIRCUIT BREAKER
	GROUND CONNECTION
	HOME RUN TO PANEL (CCT. NO. AS SHOWN)
	TRANSFORMER
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF
	20 AMPERE, 120 VOLT DUPLEX HOSPITAL GRADE RECEPTACLE, +18" AFF
	20 AMPERE, 120 VOLT DUPLEX SWITCHED RECEPTACLE, +18" AFF
	20 AMPERE, 120 VOLT DOUBLE DUPLEX RECEPTACLE, +18" AFF
	20 AMPERE, 120 VOLT DOUBLE DUPLEX HOSPITAL GRADE RECEPTACLE, +18" AFF
	20 AMPERE, 120 VOLT SINGLE RECEPTACLE
	20 AMPERE, 120 VOLT DUPLEX HOSPITAL GRADE GFCI RECEPTACLE
	20 AMPERE, 120 VOLT DUPLEX GFCI RECEPTACLE, +18" AFF
	OTHER POWER RECEPTACLE NEMA DESIGNATION AS NOTED
	MOTOR
	JUNCTION BOX
	TRANSFORMER
	CIRCUIT BREAKER SIZED AS NOTED
	PANELBOARD NORMAL POWER
	PANELBOARD EMERGENCY POWER
	BUS DUCT AMPERE RATING AS NOTED
	BUS DUCT 20A FUSE ASSEMBLY W/10' DROP CORD & NEMA 5-20 QUAD RECEPTACLE
	BUS DUCT 20A FUSE ASSEMBLY W/10' DROP CORD & 2- OR 3-POLE TWIST LOCK RECEPTACLE AS SHOWN
	UNFUSED SAFETY SWITCH, RATING AS NOTED
	FUSED SAFETY SWITCH, RATING AS NOTED
	MAGNETIC MOTOR STARTER, RATING AS NOTED
	MANUAL TOGGLE OPERATED MOTOR STARTER
	ELECTRIC ACTUATED VALVE
	MOTOR CONTACTOR
	CONTACT NORMALLY OPEN
	CONTACT NORMALLY CLOSED
	SELECTOR SWITCH
	TEMPERATURE SWITCH
	PILOT LIGHT

## LIGHTING SYMBOLS

	FLUORESCENT LIGHT FIXTURE
	FLUORESCENT LIGHT FIXTURE ON UNSWITCHED NIGHT LIGHT CIRCUIT
	FLUORESCENT WALL MOUNTED FIXTURE
	FLUORESCENT STRIP FIXTURE
	EXTERIOR H.I.D. WALL-PACK
	ROUND RECESSED CEILING MOUNTED FIXTURE
	PENDANT MOUNTED FIXTURE
	WALL MOUNTED INCANDESCENT LIGHTING FIXTURE
	WALL SCONCE
	TRACK LIGHTING FIXTURE (TRACK MOUNTED FIXTURE TYPE MAY VARY)
	EMERGENCY LED EXIT SIGN
	COMBINATION EMERGENCY EXIT SIGN & ALARM FIXTURE WITH SIGNAL & ALARMS HEADS BATTERY AND CHARGER
	EMERGENCY LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
	REMOTE EMERGENCY LIGHTING LAMP HEAD
	LIGHT SWITCH
	DENOTES FIXTURE SWITCHED BY PILOT LIGHT (WHERE NOTED)
	3 = 3-WAY (WHERE NOTED)
	4 = 4-WAY (WHERE NOTED)
	ULTRASONIC/INFRARED OCCUPANCY SENSOR
	C = CEILING MOUNTED W = WALL MOUNTED 48" AFF (TO TOP)
	LIGHTING CONTACTOR
	LIGHTING TIME CLOCK

## FIRE ALARM SYMBOLS

	PULL STATION
	FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION)
	STROBE UNIT XX = CANBELA
	NON-SYSTEM STROBE UNIT
	MINI HORN UNIT
	SMOKE DETECTOR
	FIXED TEMP HEAT DETECTOR (135F OR 200F)
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR
	MASTER BOX
	DIGITAL COMMUNICATOR
	DUCT SMOKE DETECTOR
	REMOTE TEST STATION
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER PRESSURE SWITCH
	MONITOR MODULE
	CONTROL MODULE
	NON-SYSTEM SMOKE DETECTOR STR = DENOTES INTEGRAL STROBE FOR T/C UNITS
	RED MASTER BOX LIGHT
	KNOB BOX, F80
	HOOD EXT SYSTEM
	DOOR HOLDER
	SIGNAL POWER EXTENDER

## SYSTEMS SYMBOLS

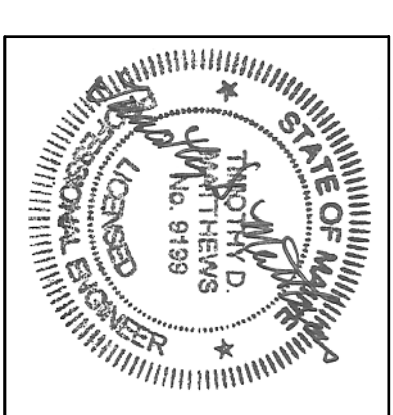
	TELEPHONE SYSTEM WALL JACK
	COMBINATION VOICE/DATA SYSTEM OUTLET
	CAT JACK
	NURSE CALL - CALL LIGHT
	NURSE CALL - PUSH BUTTON
	NURSE CALL - MASTER STATION
	ROOM OCCUPIED - DOOR LIGHT
	ROOM OCCUPIED - PUSH BUTTON
	SECURITY SYSTEM DOOR SWITCH
	SECURITY SYSTEM DOOR SWITCH
	SECURITY SYSTEM CARD ACCESS PAD
	INTERCOM SYSTEM SPEAKER
	INTERCOM MASTER STATION

## GENERAL NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.
- ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS SHALL BE AS FOLLOWS:  
CONVENIENCE RECEPTACLES: 18" AFF  
VOICE/DATA JACKS: 18" AFF  
LIGHTING TOGGLE SWITCHES: 48" AFF TO TOP OF DEVICE  
FIRE ALARM HORN AND STROBE UNITS: 80" AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER)  
FIRE ALARM PULL STATION: 48" TO TOP OF DEVICE
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
- LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE. GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE #12AWG & #12 GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
- CONDUIT SYSTEMS- EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM, PROPERLY SUPPORTED. MC CABLE ASSEMBLIES MAY BE USED ABOVE CEILINGS AND IN WALLS. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM.

## ABBREVIATIONS

A	AMPERE	LV	LOW VOLTAGE
AC	ALTERNATING CURRENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AGF	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AGC	AMPERES INTERRUPTING CAPACITY	MHL	METAL HALIDE
AL	ALUMINUM	EMH	ELECTRICAL MANHOLE
ASTM	ASTM MATERIAL	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MOP	MECHANICALLY OPERATED MOTOR OPERATED DAMPER
AUX	AUXILIARY	MOS	MANUAL OPERATED SWITCH
AWG	AMERICAN WIRE GAUGE	WVA	MERCURY VAPOR
BKR	BREAKER	WNA	MERCURY-AMPERE
C	CABINET	NG	NORMALLY CLOSED
CAB	CABINET	NO	NORMALLY OPENED
CB	CIRCUIT BREAKER	OH	OVERHEAD
CKT	CIRCUIT	OOL	OVER LOAD
CU	CURRENT TRANSFORMER	OOS	ON-OFF-AUTOMATIC OUTSIDE STEM & YOKE VALVE (FA SYSTEM)
DC	DC	OST	OUTSIDE STEM & YOKE VALVE (FA SYSTEM)
DISC	DISCONNECT	P	POLE
EG	ELECTRICAL GROUND	PB	PUSH BUTTON
EH	ELECTRICALLY HELD	PF	POWER FACTOR
EM	EMERGENCY	PH	PHASE
EMT	ELECTRICALLY METALLIC TUBING	PNL	PANEL
EO	ELECTRICALLY OPERATED EQUIPMENT	PT	POTENTIAL TRANSFORMER
EPR	ETHYLENE PROPYLENE RUBBER EQUIPMENT	PVC	POLYVINYL CHLORIDE
EX	EXTERIOR	RSSC	RIGID GALVANIZED STEEL CONDUIT
FA	FIRE ALARM	RSS	RIGID VOLTAGE SOLID STATE
FC	FOOT-CANDLE	RSC	RIGID STEEL CONDUIT
FDR	FEEDER	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
FLUOR	FLUORESCENT	S	SIGNAL
FS	FLOW SWITCH (FA SYSTEM)	SEC	SECONDARY
FVR	FULL VOLTAGE NON REVERSING	SHD	SHIELDED CABLE
FN	FULL VOLTAGE NON REVERSING GENERATOR	SHW	SHIELDED CABLE
GF	GROUND FAULT	SWB	SWITCHBOARD
GN	GROUND FAULT CIRCUIT INTERRUPTER	SYM	SYMMETRICAL
GND	GROUND	T	TRANSFORMER
H	HAUD HOLE	TBD	TO BE DETERMINED
HOA	HAND-OFF-AUTOMATIC	TD	TELEDEALER
HPS	HORSE POWER	TDR	TIME DELAY RELAY
HPS	HIGH PRESSURE SODIUM	TEL	TELEPHONE
HV	HIGH VOLTAGE	TM	TELEMETRY
HZ	HERTZ	UG	UNDERGROUND
IG	ISOLATED GROUND	UT	UTILITY
IMC	INTERMEDIATE METAL CONDUIT	V	VOLT
INCAND	INCANDESCENT	VA	VARIABLE FREQUENCY DRIVE
JB	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE
KOMIL	THOUSAND CIRCULAR MILS	W	WATT
KV	KILOVOLT	WH	WATT HOUR
KVA	KILO VOLT-AMPERE	WP	WEATHERPROOF
KW	KILOWATT	WPK	WEATHERPROOF
KWH	KILOWATT HOUR	XLP	CROSS LINKED POLYETHYLENE
LPS	LOW PRESSURE SODIUM LIGHTING	XP	EXPLOSION PROOF
LTG	LIGHTING		
LSW	LIGHT SWITCH		



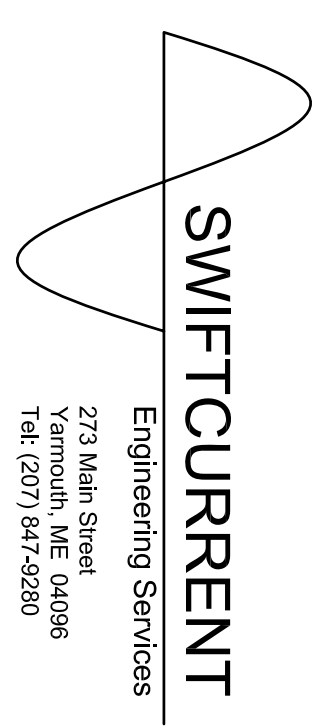
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Title	ELECTRICAL LEGEND AND GENERAL NOTES
Scale:	1/4"=1'-0"
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