

LIGHTING

	2x4 FLUORESCENT FIXTURE ASSOCIATED CONTROL DEVICE FIXTURE TYPE (SEE LIGHT FIXTURE SCHEDULE)
	1x4 FLUORESCENT FIXTURE
	2x2 FLUORESCENT FIXTURE
	FIXTURE WIRED TO UNSWITCHED NORMAL CIRCUIT
	FIXTURE WIRED TO UNSWITCHED EMERGENCY CIRCUIT
	FIXTURE WIRED TO SWITCHED EMERGENCY CIRCUIT
	DOWN LIGHT
	FLUORESCENT STRIP
	WALL MOUNTED FIXTURES
	FLOOD LIGHT
	EXIT SIGN, CEILING MOUNTED ARROW INDICATES EGRESS DIRECTION SHADING INDICATES SIGN FACE
	EXIT SIGN, WALL MOUNTED SHADING INDICATES SIGN FACE
	DUAL HEAD EMERGENCY LIGHT BATTERY PACK TO - TIME DELAY RESET
	REMOTE EMERGENCY LIGHTING HEAD
	WALL PACK
	3-WAY TOGGLE SWITCH
	SINGLE POLE TOGGLE SWITCH INDICATES CONTROLLED FIXTURE
	4-WAY TOGGLE SWITCH
	DUAL LEVEL SWITCHING
	DIMMER SWITCH, INCANDESCENT OR FLUORESCENT AS REQUIRED.
	OCCUPANCY SENSOR SWITCH
	UNSWITCHED CONTINUATION OF BRANCH CIRCUIT
	HOME RUN
	OCCUPANCY SENSOR INDICATES CONTROLLED FIXTURE INDICATES AIMING DIRECTION
	MOMENTARY PUSH BUTTON SWITCH FOR LIGHTING CONTROL SYSTEM

COMMUNICATION & DATA SYSTEMS

	DATA SYSTEM BACK BOX AND COVERPLATE. PROVIDE 1" EMT STUBBED TO ABOVE CEILING SPACE. W-INDICATES WALL MOUNTED AT 48" AFF
	WALL MOUNTED VIDEO INTERCOM BACK BOX. PROVIDE 3/4" EMT STUBBED TO ABOVE CEILING SPACE.

POWER

	NON-FUSED SAFETY SWITCH AMPERE RATING
	FUSED SAFETY SWITCH, TOP NUMBER INDICATES SWITCH AMPERE RATING, LOWER NUMBER INDICATES FUSE RATING
	MAGNETIC MOTOR STARTER, FVNR UNLESS INDICATED OTHERWISE NEMA ENCLOSURE RATING
	COMBINATION CIRCUIT BREAKER/MAGNETIC MOTOR STARTER FIRST NUMBER INDICATES CIRCUIT BREAKER AMPERE RATING SECOND NUMBER INDICATES NEMA STARTER SIZE
	COMBINATION FUSED DISCONNECT/MAGNETIC MOTOR STARTER NUMBERS INDICATE DISCONNECT AMPERE RATING/FUSE RATING/NEMA STARTER SIZE
	NON-FUSED DISCONNECT/MAGNETIC MOTOR STARTER FIRST NUMBER INDICATES CIRCUIT BREAKER AMPERE RATING SECOND NUMBER INDICATES NEMA STARTER SIZE
	MANUAL MOTOR STARTER, TOGGLE OPERATED, 1,2 OR 3 POLE AS REQUIRED, OVERLOAD PROTECTION
	MANUAL MOTOR SWITCH, TOGGLE OPERATED, SINGLE PHASE, 1 OR 2 POLE AS REQUIRED (NO OVERLOAD PROTECTION)
	ENCLOSED CIRCUIT BREAKER AMPERE RATING
	ELECTRIC MOTOR, NUMBER INDICATES HORSEPOWER RATING
	VARIABLE AIR VOLUME CONTROL ACTUATORS
	JUNCTION BOX
	TRANSFORMER
	POWER POLE
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	EY CONDUIT SEAL
	DUPLEX RECEPTACLE, NEMA 5-20R INSTALLED ON EMERGENCY CIRCUIT (TYPICAL)
	SINGLE RECEPTACLE, NEMA 5-20R
	DOUBLE DUPLEX (QUADRUPLEX) RECEPTACLE, NEMA 5-20R
	POWER RECEPTACLE, 480 VOLT NEMA CONFIGURATION AS NOTED.
	POWER RECEPTACLE, 240 VOLT NEMA CONFIGURATION AS NOTED.
	PANELBOARD, NORMAL POWER
	PANELBOARD, EMERGENCY POWER
	EMERGENCY HVAC SHUTOFF
	AUTOMATIC DOOR PUSH PLATE

GROUNDING

	GROUND ROD
	EXOTHERMIC WELD CONNECTION
	BOLTED CONNECTION
	BARE COPPER CONDUCTOR RUN EXPOSED
	BARE COPPER CONDUCTOR EMBEDDED IN CONCRETE OR BURIED

LINE TYPES

	EXISTING
	NEW
	DEMOLITION

FIRE ALARM

	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR BACK BOX PROVIDE 3/4" EMT STUBBED TO ABOVE CEILING SPACE.
	FIRE ALARM MANUAL PULL STATION BACK BOX PROVIDE 3/4" EMT STUBBED TO ABOVE CEILING SPACE.
	FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION BACK BOX PROVIDE 3/4" EMT STUBBED TO ABOVE CEILING SPACE.
	FIRE ALARM VISIBLE ONLY NOTIFICATION BACK BOX PROVIDE 3/4" EMT STUBBED TO ABOVE CEILING SPACE.
	DUCT SMOKE DETECTOR JUNCTION BOX
	DUCT SMOKE DETECTOR REMOTE TEST INDICATOR BACK BOX
	KNOX BOX

SECURITY SYSTEMS

	CARD READER BACK BOX. PROVIDE 3/4" EMT STUBBED TO ABOVE CEILING SPACE.
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ONE LINE DIAGRAM

	MOLDED CASE CIRCUIT BREAKER
	ST - SHUNT TRIP
	GF - GROUND FAULT
	EO - ELECTRICALLY OPERATED
	DISCONNECT, ISOLATION OR SAFETY SWITCH
	FUSED CUTOUT
	FUSED LOAD BREAK SWITCH
	MAGNETIC MOTOR STARTER, NUMERAL INDICATES NEMA SIZE FVNR UNLESS OTHERWISE NOTED. FVR - FULL VOLTAGE REVERSING RVAT - REDUCING VOLTAGE AUTO TRANSFORMER 2S - TWO SPEED
	VARIABLE FREQUENCY DRIVE
	POWER TRANSFORMER OA - LIQUID TYPE SELF COOLED FA - FAN COOLED AA - DRY TYPE SELF COOLED FA - FAN COOLED CONNECTION
	CURRENT TRANSFORMER RATIO NUMBER REQUIRED
	MOTOR, NUMBER INDICATES HORSEPOWER
	GENERATOR
	ATS - AUTOMATIC TRANSFER SWITCH
	MTS - MANUAL TRANSFER SWITCH
	METER KWH - KILOWATT HOUR
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	FUSE
	GROUND

ABBREVIATIONS

AAMP	AMPERE	LA	LIGHTNING ARRESTER
AFT	ABOVE FINISHED FLOOR	LTG	LIGHTING
AFG	ABOVE FINISHED GRADE	MC	METAL CLAD
AHJ	AUTHORITY HAVING JURISDICTION	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING CAPACITY	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MI	MINERAL INSULATED
BFG	BELOW FINISHED GRADE	MLO	MAIN LUG ONLY
BOS	BOTTOM OF STEEL	MTD	MOUNTED
BMS	BUILDING MANAGEMENT SYSTEM	MV	MEDIUM VOLTAGE
C	CONDUIT, CONDUCTOR	NC	NORMALLY CLOSED
CATV	CABLE TELEVISION	NEC	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	NEG	NEGATIVE
CCTV	CLOSED CIRCUIT TELEVISION	NEUT	NEUTRAL
CPT	CONTROL POWER TRANSFORMER	NIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	NO	NORMALLY OPEN
CU	COPPER	NTS	NOT TO SCALE
DACT	DIGITAL ALARM COMMUNICATOR	PF	POWER FACTOR
DB	DIRECT BURIED	PH	PHASE
DISC	DISCONNECT	PVC	POLYVINYL CHLORIDE
DN	DOWN	RGS	RIGID GALVANIZED STEEL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RSC	RIGID STEEL CONDUIT
EWC	ELECTRIC WATER COOLER	RTD	RESISTANCE TEMPERATURE DETECTOR
FAA	FIRE ALARM ANNUNCIATOR	SN	SOLID NEUTRAL
FACP	FIRE ALARM CONTROL PANEL	STP	SHIELDED TWISTED PAIR
FBO	FURNISHED BY OTHERS	STT	SHIELDED TWISTED TRIPLET
FU	FUSE	SWBD	SWITCHBOARD
FWE	FURNISHED WITH EQUIPMENT	SWGR	SWITCHGEAR
GEN	GENERATOR	TOS	TOP OF STEEL
GFCI	GROUND FAULT CIRCUIT BREAKER	TRANSF	TRANSFORMER
GND	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
HP	HORSEPOWER	V	VOLT
HTR	HEATER	VA	VOLT-AMPERE
IG	ISOLATED GROUND	VAR	VOLT-AMPERE REACTIVE
IMC	INTERMEDIATE METAL CONDUIT	WM	WATT METER
K	KILO	WP	WEATHER PROOF
KCMIL	THOUSAND CIRCULAR MILS	XFMR	TRANSFORMER
KV	KILOVOLT	XP	EXPLOSION PROOF
KVA	KILOVOLT-AMPERE		
KVAR	KILOVOLT-AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT-HOUR		

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC).
- ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE PROVIDED BY DIVISION 260000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- UNLESS OTHERWISE NOTED CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18-INCHES AFF, LIGHTING TOGGLE SWITCHES 48-INCHES AFF, DATA SYSTEM OUTLETS 18-INCHES AFF, FIRE ALARM NOTIFICATION DEVICES 86-INCHES AFF OR 6-INCHES BELOW CEILING, WHICHEVER IS LOWER, AND FIRE ALARM MANUAL PULL STATIONS 48-INCHES TO TOP OF DEVICE.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH EVERY FEEDER AND BRANCH CIRCUIT.
- UNLESS OTHERWISE NOTED WIRING SHALL BE 2#12 AWG CONDUCTORS AND #12 GND. HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG.
- FLEXIBLE CONNECTIONS TO MOTORS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, UNLESS OTHERWISE NOTED.
- LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE 277 VOLT, SIDE WIRED AND PROVIDED WITH GROUNDING SCREW, LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH ARCHITECT.
- CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE GROUNDING TYPE NEMA 5-20R, SIDE WIRED, LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH ARCHITECT.
- PROVIDE WALL PLATES FOR ALL WIRING DEVICES, NYLON SMOOTH TYPE IN FINISHED AREAS AND GALVANIZED IN UNFINISHED AREAS.
- ALL WIRING SHALL BE 600V, COPPER WITH THHN/THWN INSULATION. SERVICE ENTRANCE CONDUCTORS SHALL HAVE XHHW INSULATION.
- LL BEAN TO PROVIDE ALL SECURITY AND FIRE ALARM DEVICES AND LOW VOLTAGE WIRING (0-24V). ELECTRICAL CONTRACTOR TO PROVIDE POWER CONNECTIONS (120-480V) TO SECURITY POWER SUPPLIES AND FIRE ALARM CONTROL PANEL AS SHOWN ON THE DRAWINGS. ELECTRICAL CONTRACTOR TO PROVIDE BACKBOXES AT SECURITY AND FIRE ALARM DEVICE LOCATIONS FOR DEVICE MOUNTING AND STUB 3/4" CONDUIT TO ABOVE CEILING PER SPECIFICATIONS. ELECTRICAL CONTRACTOR TO COORDINATE WITH LL BEAN ON DEVICE MOUNTING REQUIREMENTS.

GENERAL NOTE

- ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.

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1	ISSUED FOR ADDENDUM 2	3-18-15
0	ISSUED FOR CONSTRUCTION	3-3-15
REV.	DESCRIPTION	DATE
CONFORMED SET 4-21-15		
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PROJECT NORTH	STATE OF MAINE WILLIAM BEAN 4/21/15 LICENSED PROFESSIONAL ENGINEER	
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L.L. BEAN CHESHIRE BUILDING RENOVATIONS PORTLAND, MAINE		
ELECTRICAL LEGEND AND GENERAL NOTES		
SHEET TITLE:		
SCALE:	1/8"=1'-0"	DATE: 3-3-15
PROJECT MANAGER:	JLH	GRAPHIC SCALE: 0' 1'
JOB CAP/DRAWN:	RBB	
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