

A	AMPERE	MC	MICROPHONE
AC	ALTERNATING CURRENT	MW	MICROWAVE
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUG ONLY
AFG	ABOVE FINISHED GRADE	MT	MOUNT
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM
BKBD	BACKBOARD	N	NEUTRAL
C	CONDUIT	NC	NORMALLY CLOSED
CAT	CATALOG, CATEGORY	NEC	NATIONAL ELECTRICAL CODE
CATV	CABLE TV	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT
CM	CIRCULAR MILS	NF	NON-FUSED
COMM	COMMUNICATIONS	NO	NORMALLY OPEN
CU	MECH CONDENSING UNIT	NO., #	NUMBER
CU	COPPER	NTS	NOT TO SCALE
CUH	CABINET UNIT HEATER	OC	ON CENTER
DC	DIRECT CURRENT	OCC	OCCUPANCY
DDC	DIGITAL DIRECT CONTROL	OCC	OCCUPANCY
DN	DOWN	OH	OVERHEAD
DW	DISHWASHER	P	POLE
DWG	DRAWING	PA	PUBLIC ADDRESS
EF	EXHAUST FAN	PB	PULLBOX
ELEV	ELEVATOR	PH	PHASE
EMT	ELECTRICAL METALLIC TUBING	PIR	PASSIVE INFRARED
EP	EXPLOSION PROOF	PNL	PANELBOARD
ERU	ENERGY RECOVERY UNIT	PIO	PART OF
EWC	ELECTRIC WATER COOLER	PV	PHOTOVOLTAIC
FACP	FIRE ALARM CONTROL PANEL	PVC	POLY-VINYL CHLORIDE
FB	FLOOR BOX	REC	RECEPTACLE RECEPT
FLA	FULL LOAD AMPS	REF	REFRIGERATOR
FWE	FURNISHED WITH EQUIPMENT	RF	RETURN FAN
G_GND	GROUND	RGS	RIGID GALVANIZED STEEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RM	ROOM
GFP	GROUND FAULT PROTECTION	RMC	RIGID METAL CONDUIT
HID	HIGH INTENSITY DISCHARGE	RTU	ROOFTOP UNIT
HOA	HAND-OFF-AUTO SELECTOR SWITCH	REF	REFRIGERATOR
HP	HORSEPOWER	SF	SUPPLY FAN
HVAC	HEATING, VENTILATION AND COOLING UNIT	SPOT	SINGLE POLE, DOUBLE THROW
IDS	INTRUSION DETECTION SYSTEM	SQ	SQUARE
IG	ISOLATED GROUND	TEL	TELEPHONE
IMC	INTERMEDIATE METAL CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
IR	INFRARED	TYP	TYPICAL
K	KILO	UF	UNDER FLOOR
KMIL	KILO CIRCULAR MILS	UG	UNDERGROUND
KW	KILOWATT	UH	UNIT HEATER
KVA	KILO VOLT-AMPS	UL	UNDERWRITER'S LABORATORY
LAN	LOCAL AREA NETWORK	UNO	UNLESS NOTED OTHERWISE
LC	LIGHTING CONTACTOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
LF	LINEAR FEET	V	VOLTS
LC	LOADCENTER	VFD	VARIABLE FREQUENCY DRIVE
LCP	LIGHTING CONTROL PANEL	W	WATT
LED	LIGHT EMITTING DIODE	WP	WEATHERPROOF
LTG	LIGHTING	WG	WIREGUARD
LTS	LIGHTS	XFMR	TRANSFORMER
MAX	MAXIMUM		
MCB	MAIN CIRCUIT BREAKER	(E)	EXISTING ITEM TO REMAIN
MECH	MECHANICAL	(R)	REMOVE ITEM AND DISPOSE OF PROPERLY
MH	MOUNTING HEIGHT	(ER)	RELOCATED ITEM AT NEW LOCATION
		(RL)	REMOVE AND RELOCATE

**NOTE**  
SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN

**LIGHTING SWITCHES**

- \$a LIGHT SWITCH, 20A, 125/277V
- \$3 THREE-WAY LIGHT SWITCH
- \$4 FOUR-WAY LIGHT SWITCH
- \$2 TWO-POLE SWITCH
- \$K KEY OPERATED SWITCH
- \$M MOTOR RATED SWITCH
- \$P SINGLE POLE SWITCH WITH RED PILOT LIGHT - RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED
- \$PP MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING
- \$OS OCCUPANCY SENSOR SWITCH, WALL MOUNTED
- \$OS2 2-BUTTON OCCUPANCY SENSOR SWITCH
- \$OS3 OCCUPANCY SENSOR SWITCH WIRED FOR 3-WAY OPERATION
- \$OSD OCCUPANCY SENSOR SWITCH WITH DIMMING - COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED
- OS OCCUPANCY SENSOR, CEILING MOUNTED
- OSW OCCUPANCY SENSOR, WALL MOUNTED
- \$D DIMMER SWITCH - COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED
- \$H HANDICAP SWITCHES FOR HOOD LIGHT AND FAN
- \$T TIMER SWITCH
- \$LV LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT
- LTC LIGHTING TIME CLOCK
- LC LIGHTING CONTACTOR
- LCP LIGHTING CONTROL PANEL
- PC OUTDOOR PHOTOELECTRIC SWITCH
- DS DAYLIGHT HARVESTING SENSOR

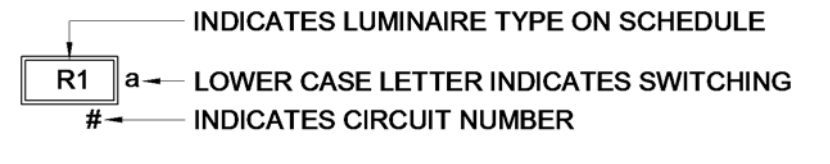
- NOTES:**
- MOUNT LIGHT SWITCHES WITH CENTERLINE 48" AFF, UNO
  - LOWER CASE LETTER AT SWITCH INDICATES SWITCHING

**EMERGENCY LIGHTING**

- WHERE NOTED ON PLANS FIXTURE EQUIPPED WITH EMERGENCY BATTERY DRIVER. CONNECT TO BOTH SWITCHED AND UNSWITCHED PORTION OF LIGHTING CIRCUIT IN ACCORDANCE WITH EMERGENCY BATTERY DRIVER MANUFACTURER'S INSTRUCTIONS.
- EM "EM" INDICATES EMERGENCY WHERE SYMBOL HATCHING IS UNCLEAR
- EMER BATTERY UNIT WITH NO HEADS, MT 7'-6" AFF  
BP# INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- EMER BATTERY UNIT WITH INTEGRAL HEADS, MT 7'-6" AFF  
BP# INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- SINGLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF  
BP# INDICATES BATTERY UNIT CONNECTED TO
- DOUBLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF  
BP# INDICATES BATTERY UNIT CONNECTED TO
- DOUBLE REMOTE EMERGENCY LIGHT HEAD, CEILING MOUNTED  
BP# INDICATES BATTERY UNIT CONNECTED TO
- EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7'-6" AFF OR OVER DOOR, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- INV CENTRAL LIGHTING INVERTER

REFER TO LUMINAIRE SCHEDULE FOR FIXTURE LEGEND

**TYPICAL FOR ALL FIXTURE TYPES :**



**SINGLE RECEPTACLES**

- 20A, 125V, 2P, 3W, NEMA 5-20R
- 20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)
- 30A DRYER RECEPTACLE - 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A, 2P CIRCUIT BREAKER
- 30A, 250V, 2P, 3W, NEMA 6-30R
- 50A RANGE RECEPTACLE - 125/250V, 3P, 4W, GROUNDING, NEMA 14-50R, (3)#6+(1)#10 TO 50A, 2P CIRCUIT BREAKER
- 20A, 250V, 2P, 3W, NEMA 6-20R

**NOTE:**  
PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES

**FLOOR AND CEILING DEVICES**

- F 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- F 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- P 20A, 125V, 2P, 3W, NEMA 5-20R, PEDESTAL MOUNTED
- P 20A, 125V, 2P, 3W, NEMA 5-20R, PEDESTAL MOUNTED
- C 20A, 125V, 2P, 3W, NEMA 5-20R, FLUSH MOUNTED IN CEILING
- C 20A, 125V, 2P, 3W, NEMA 5-20R, FLUSH MOUNTED IN CEILING
- C 20A, 125V, 2P, 3W, NEMA 5-20R, FLUSH MOUNTED IN CEILING
- C 20A, 125V, 2P, 3W, NEMA 5-20R, FLUSH MOUNTED IN CEILING
- PT-1 4" POKE-THRU DEVICE, DUAL SERVICE FURNITURE FEED. BASIS OF DESIGN: WIREMOLD AFATC
- PT-2 6" POKE-THRU DEVICE, WITH (2) DUPLEX RECEPTACLES AND TELDATA AS INDICATED ON PLANS. BASIS OF DESIGN: LEGRAND 6AT SERIES.
- 20A, 125V, 2P, 3W, NEMA 5-20R, MULTI-SERVICE FLUSH FLOOR BOX - WIREMOLD EFB45 SERIES OR APPROVED EQUAL. COVER SHALL BE FLUSH STYLE WITH FLOOR INSERT. COVER FINISH COLOR SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD FINISHES.

**RECEPTACLES**

- DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, NEMA 5-20R
- DOUBLE DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, HATCH INDICATES AFCI PROTECTION AND TAMPERPROOF
- TAMPERPROOF DUPLEX RECEPTACLE
- GFCI DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
- GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
- GFCI RECEPTACLE FOR ELECTRIC WATER COOLER - COORDINATE LOCATION WITH DIVISION 22.
- GFCI RECEPTACLE WITH WEATHERPROOF COVER
- GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF
- MULTI-OUTLET STRIP, PROVIDE OUTLETS 24" OC UNO, MOUNT 48" AFF UNO
- SURFACE RACEWAY WITH DIVIDER, MOUNT 44" AFF UNO. PROVIDE NEMA 5-20 RECEPTACLES AND TECHNOLOGY OUTLETS AS SHOWN ON PLAN

- NOTES:**
- MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO
  - MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFF UNO

- SEC SECURITY PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- ANN ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- KP KEYPAD, MOUNT 48" AFF
- MSP MOTION SENSOR, PASSIVE INFRARED (PIR), WALL MOUNTED 96" AFF
- MSP MOTION SENSOR, PASSIVE INFRARED (PIR), CEILING MOUNTED
- MSM MOTION SENSOR, MICROWAVE, WALL MOUNTED
- MSM MOTION SENSOR, MICROWAVE, CEILING MOUNTED
- MS MOTION SENSOR, DUAL TECHNOLOGY, PIR/MICROWAVE, WALL MOUNTED
- MS MOTION SENSOR, DUAL TECHNOLOGY, PIR/MICROWAVE, CEILING MOUNTED
- REX REQUEST TO EXIT - PROVIDE RECESSED WALL MOUNTED SINGLE GANG BOX 44" AFF WITH 3/4" CONDUIT WITH PULL STRING.
- CA CARD ACCESS - PROVIDE RECESSED WALL MOUNTED SINGLE GANG BOX 44" AFF WITH 1/2" CONDUIT WITH PULL STRING. EXTERIOR BOXES SHALL BE WATERPROOF.
- L DOOR LOCK - PROVIDE 1/2" RECESSED CONDUIT WITH PULL STRING IN DOOR FRAME, RUN FROM DOOR LOCK LOCATION IN FRAME TO DOOR LOCK POWER LOCATION.
- D DOOR LOCK POWER - PROVIDE 120 VOLT POWER AT DOOR LOCATION AS NOTED ON PLANS. CONFIRM LOCATIONS WHERE 120 VOLT IS REQUIRED PRIOR TO ROUGH IN. POWER SUPPLIES BY OTHERS.
- DS DOOR POSITION SWITCH - PROVIDE 3/4" RECESSED CONDUIT IN DOOR FRAME.
- T TRANSFORMER
- CH CHIME
- SS STROBE
- SH HORN
- B BELL

**L13 SECURITY**

- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- MOTOR STARTER - NUMBER INDICATES NEMA SIZE
- COMBINATION MOTOR STARTER/FUSED DISCONNECT
- MOTOR OR FAN
- METER AND CABINET
- JUNCTION BOX - CEILING MOUNTED
- JUNCTION BOX - WALL MOUNTED
- JUNCTION BOX - FLUSH FLOOR MOUNTED
- JUNCTION BOX - PEDESTAL MOUNTED
- TRANSFORMER - NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
- VARIABLE FREQUENCY DRIVE
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- EMERGENCY SHUTOFF SWITCH - WALL MOUNTED 48" TO CENTERLINE - PROVIDE TAMPER-PROOF COVER
- SHUT-OFF SWITCH
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- WIRING UNDERGROUND OR UNDERSLAB
- HOMERUN - (2)#12+(1)#12G UNO (EXCEPT LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
- SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- FLEXIBLE CONNECTION
- GROUNDING SYSTEM
- POWER POLE
- PUSHBUTTON
- DOORBELL CHIME
- SYSTEMS FURNITURE WHIP, DUAL SERVICE, WALL MOUNTED
- MOTORIZED DOOR OPERATOR AND PUSH PADDLE - FURNISHED BY DIV 08, WIRED BY DIV 26
- ENCLOSED CIRCUIT BREAKER
- AUTOMATIC TRANSFER SWITCH
- HAND DRYER, COORDINATE HEIGHT WITH ARCHITECTURAL PLANS
- SYSTEMS FURNITURE FEED

- FACP FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- FAA FIRE ALARM ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF, WIRED TO FACP
- S SMOKE DETECTOR, WIRED TO FACP
- E SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL, WIRED TO FACP
- SS SINGLE STATION SMOKE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, WALL MOUNTED
- SS AV SINGLE STATION SMOKE DETECTOR WITH AUDIBLE/VISUAL INDICATING APPLIANCE, CEILING MOUNTED
- SS SS SINGLE/MULTI-STATION SMOKE/CARBON MONOXIDE DETECTOR WITH AUDIBLE/VISIBLE INDICATING APPLIANCE, CEILING MOUNTED
- SS SS SINGLE/MULTI-STATION SMOKE/CARBON MONOXIDE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, WALL MOUNTED
- H HEAT DETECTOR, WIRED TO FACP
- E HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL, WIRED TO FACP
- D DUCT SMOKE DETECTOR, WIRED TO FACP
- GD GAS DETECTOR, WIRED TO FACP
- GV GAS VALVE, WIRED TO FACP
- FD FLAME DETECTOR, WIRED TO FACP
- RTS REMOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS
- M MANUAL PULL STATION, MOUNT 48" AFF
- HORN/HORN/STROBE, WALL MOUNTED CANDELA AS NOTED ON PLANS, WIRED TO FACP
- HORN/HORN/STROBE, CEILING MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP
- STROBE ONLY INDICATING APPLIANCE, WALL MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP
- STROBE ONLY INDICATING APPLIANCE, CEILING MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP
- STROBE ONLY INDICATING APPLIANCE, CEILING MOUNTED, CANDELA AS NOTED ON PLANS, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR
- STROBE ONLY INDICATING APPLIANCE, WALL MOUNTED, CANDELA AS NOTED ON PLANS, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR
- MINI HORN, WALL MOUNTED, WIRED TO FACP
- MINI HORN, CEILING MOUNTED, WIRED TO FACP
- HORN/STROBE WITH PULL STATION DIRECTLY BELOW
- MAGNETIC DOOR HOLD OPEN DEVICE, WIRED TO FACP
- TRANSFORMER
- SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED TO FACP UNDER DIVISION 26
- SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 23, WIRED TO FACP UNDER DIVISION 26
- SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED TO FACP UNDER DIVISION 26
- SPRINKLER SYSTEM PRE-ACTION VALVE, FURNISHED AND INSTALLED UNDER DIVISION 21, WIRED TO FACP UNDER DIVISION 26
- KNOX BOX, MOUNT 60" AFF
- SMOKE DAMPER, WIRED TO FACP
- FIRE AND SMOKE DAMPER, WIRED TO FACP
- HORN/STROBE, CANDELA AS NOTED ON PLANS, WIRED TO FACP
- SPEAKER/STROBE, WALL MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP
- SPEAKER/STROBE, CEILING MOUNTED, CANDELA AS NOTED ON PLANS, WIRED TO FACP
- MASTER BOX

**A17 FIRE ALARM**

**Allied Engineering**  
Structural Mechanical Electrical Commissioning  
160 Veranda Street  
Portland, Maine 04103  
Tel: 207-221-2266  
Fax: 207-221-2266  
Web: www.allied-eng.com

29 BLACK POINT ROAD  
SCARBOROUGH, MAINE 04074  
207-883-4307  
WWW.GAWRONTURGEON.COM

**GAWRON TURGEON ARCHITECTS, P.C.**

**cPort Credit Union**  
50 India Street  
Portland, Maine

REVISIONS	
#	DATE
1	09.14.17
	PERMIT SET NOT FOR CONSTRUCTION

DATE:	09.14.17
PROJECT #	010416
DRAWN BY:	GMC
CHECKED BY:	SRM
DRAWING SCALE	AS NOTED

**SHEET TITLE**  
ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL NOTES

**E000**

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