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UNIVERSITY OF NEW ENGLAND  
 PORTLAND CAMPUS  
 Fine Arts Gallery  
 716 Stevens Avenue  
 Portland, ME 04103-2693

FINE ARTS GALLERY  
 ELEVATOR ADDITION  
 FOR PERMITTING ONLY - NOT FOR CONSTRUCTION

ELECTRICAL  
 SYMBOLS,  
 ABBREVIATIONS  
 GENERAL NOTES  
 AND  
 SCHEDULES

SCALE: AS NOTED

DATE: 3-29-17

DWG.: E-001

SHEET: 22 OF 26

**ELECTRICAL SYMBOLS**

**LIGHTING**

NOTE: LOWER CASE SUBSCRIPTS INDICATE FIXTURE CONTROLS  
 UPPER CASE SUBSCRIPTS INDICATE FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE.

- S 120/277V, 20A LIGHT SWITCH SPECIFICATION GRADE
- S<sub>3</sub> 120/277V, 20A 3-WAY LIGHT SWITCH SPECIFICATION GRADE
- S<sub>T</sub> TIMER SWITCH
- S<sub>D</sub> LED COMPATIBLE DIMMER SWITCH

- A □ LIGHT FIXTURES
- A □ LIGHT FIXTURE WITH EMERGENCY DRIVER

- <sup>A</sup> WALL MOUNTED FIXTURE SUBSCRIPT INDICATES FIXTURE TYPE
- <sup>A</sup> RECESSED DOWNLIGHT
- <sup>A</sup> EMERGENCY LIGHT, BATTERY POWERED TWO LAMPS
- <sup>A</sup> EMERGENCY LIGHT, REMOTE HEAD ONE LAMP
- <sup>A</sup> EMERGENCY LIGHT, REMOTE HEADS TWO LAMPS

- <sup>A</sup> ILLUMINATED EXIT SIGN, LED TYPE SINGLE FACE OR DOUBLE FACE, ARROW INDICATES DIRECTION OF FLOW FOR THE FACE

- <sup>A</sup> TIME CLOCK

- <sup>A</sup> INVERTER

- <sup>A</sup> TRACK LIGHTING

**RECEPTACLES**

- DUPLEX RECEPTACLE, 120V, 20A, SPECIFICATION GRADE, NEMA 5-20 R
- DUPLEX RECEPTACLE, 120V, 20A SPECIFICATION GRADE, NEMA 5-20 R SUBSCRIPT "G" INDICATES GROUND FAULT INTERRUPT, WP INDICATES WEATHERPROOF GROUND FAULT INTERRUPT.
- DOUBLE DUPLEX RECEPTACLE

**SECURITY**

- SECURITY SYSTEM PANEL
- MOTION DETECTOR
- CCTV DOME CAMERA

**LINE TYPE LEGEND**

- REMOVE EXISTING ITEMS
- EXIST ITEMS TO REMAIN
- PROVIDE ITEMS
- S REMOVE SWITCH (REMOVALS DRAWINGS)
- S PROVIDE SWITCH (INSTALLATION DRAWINGS)
- S EXISTING SWITCH TO REMAIN

**TELEPHONE, DATA AND AUDIO**

- ▶ TELEPHONE JACK OUTLET  
W = WALL TYPE  
POTS = PLAIN OLD TELEPHONE SERVICE
- ▶ CAT6 DATA JACK  
# INDICATES QUANTITY OF JACKS. DEFAULT IS ONE.
- ▶ SPEAKER
- ▶ CAT6 TELEPHONE/(2) CAT6 DATA JACKS

**GENERAL**

- NON-FUSED DISCONNECT SWITCH
- 30AF 15A □ FUSED DISCONNECT SWITCH AF = AMP FRAME / SWITCH SIZE AT AMP TRIP / FUSE SIZE
- JUNCTION BOX
- A-1 BRANCH CIRCUIT HOMERUN, A-1 INDICATES PANEL DESIGNATION AND CIRCUIT NUMBER
- PUSHBUTTON
- EXISTING PANELBOARD
- PANELBOARD

**FIRE ALARM**

- FACP FIRE ALARM CONTROL PANEL
- REMOTE ANNUNCIATOR
- SMOKE DETECTOR  
R = FOR ELEVATOR RECALL  
D = DUCT SMOKE, PHOTOELECTRIC  
Z# = ZONE  
I = IONIZATION
- HEAT DETECTOR
- SPEAKER
- MANUAL PULL STATION
- 15 HORN / STROBE  
# SUBSCRIPT = CANDELA RATING  
C SUBSCRIPT = CEILING MOUNTED  
WP SUBSCRIPT = WEATHERPROOF
- 15 STROBE  
# SUBSCRIPT = CANDELA RATING
- KNOX BOX
- RADIO TRANSMITTER
- REMOTE INDICATOR AND TEST STATION
- MAGNETIC HOLD OPEN
- TAMPER SWITCH
- ANTENNA

**ELECTRICAL GENERAL NOTES**

- COMPLY WITH THE REQUIREMENTS OF THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA, AND STATE AND LOCAL CODES).
- COMPLY WITH THE CITY OF PORTLAND FIRE DEPARTMENT RULES AND REGULATIONS.
- COORDINATE WORK WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND SPRINKLER TRADES.
- ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.
- LIGHT FIXTURES AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL WORK TO AVOID INTERFERENCE.
- PROVIDE A SEPARATE GREEN GROUNDING CONDUCTOR FOR EACH INDIVIDUAL CIRCUIT. METAL CONDUIT SHALL BE GROUNDED BUT SHALL NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
- VERIFY EXISTING CONDITIONS AND DIMENSIONS AND REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. PROCEED WITH THE WORK ONLY AFTER THE DISCREPANCIES HAVE BEEN RESOLVED BY THE OWNER'S REPRESENTATIVE.
- CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE.
- CONDUIT SHALL BE MINIMUM 1/2" FOR POWER AND 1" FOR COMMUNICATIONS UNLESS OTHERWISE NOTED.
- COORDINATE LOCATION OF DEVICES IN ELEVATOR PIT AND HOISTWAY WITH ELEVATOR INSTALLER.
- UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 1P, 15A 2P, 20A 1P AND 20A 2P BRANCH CIRCUIT SHALL BE 2 #12 + #12G, IN 1/2"C.
- UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 3P AND 20A 3P BRANCH CIRCUIT SHALL BE 3 #12 + #12G, IN 1/2"C.
- A SEPARATE NEUTRAL CONDUCTOR SHALL BE PROVIDED FOR EACH INDIVIDUAL 120V CIRCUIT.
- DISCONNECT SWITCHES WITH NO RATING INDICATED SHALL BE 30A.

**ELECTRICAL ABBREVIATIONS**

- A, AMP AMPERE
- A3P AMPERES, 3-POLE
- AC ALTERNATING CURRENT
- AFF ABOVE FINISHED FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- AHJ AUTHORITY HAVING JURISDICTION
- AVG AVERAGE
- AWG AMERICAN WIRE GAUGE
- BKR BREAKER
- C CONDUCTOR, CONDUIT
- CAT CATALOG, CATEGORY
- CB CIRCUIT BREAKER
- CCTV CLOSED CIRCUIT TELEVISION
- CFM CUBIC FEET PER MINUTE
- CKT CIRCUIT
- CU COPPER
- DWG DRAWING
- ELEV ELEVATOR
- EMT ELECTRICAL METALLIC TUBING
- FACP FIRE ALARM CONTROL PANEL
- G GROUND; GROUND FAULT CIRCUIT INTERRUPTER
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- H HEATING LOAD TYPE FOR PANEL SCHEDULE
- HO HIGH OUTPUT
- HP HORSEPOWER
- HVAC HEATING, VENTILATION, AND AIR CONDITIONING
- IDS INTRUSION DETECTION SYSTEM
- KCMIL KILO-CIRCULAR MILS
- KVA KILO-VOLT-AMPERE
- KW KILO-WATT
- L LIGHTING LOAD TYPE FOR PANEL SCHEDULE
- LC LIGHTING CONTROL PANEL
- LED LIGHT EMITTING DIODE
- LTG LIGHTING
- M MOTOR LOAD TYPE FOR PANEL SCHEDULE
- MAX MAXIMUM
- MCB MAIN CIRCUIT BREAKER
- MIN MINIMUM
- MLO MAIN LUG ONLY
- N NEUTRAL
- NA NOT APPLICABLE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NIC NOT IN CONTRACT
- NO, # NUMBER
- OCC OCCUPANCY
- Ø PHASE
- P POLE
- P/O PART OF
- R RECEPTACLE LOAD TYPE FOR PANEL SCHEDULE
- RA REMOTE ANNUNCIATOR
- REC RECEPTACLE
- RGS RIGID GALVANIZED STEEL
- RM ROOM
- RMC RIGID METAL CONDUIT
- SPDT SINGLE POLE, DOUBLE THROW
- SQ SQUARE
- SW SWITCH
- THHN HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
- THWN MOISTURE & HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
- TYP TYPICAL
- UL UNDERWRITERS LABORATORIES
- UNE UNIVERSITY OF NEW ENGLAND
- V VOLT
- VA VOLT AMPERE
- W WATT, WIRE
- W/ WITH
- WP WEATHERPROOF

**MOUNTING HEIGHT SCHEDULE**

(UNLESS NOTED OTHERWISE)

- RECEPTACLES: 18" TO CENTER.
- SWITCHES: 48" TO CENTER.

WIRE SIZE	HOME RUNS (20A CIRCUIT) MAXIMUM DISTANCE IN FEET UNLESS NOTED OTHERWISE	
	120V	208V
#12	60'	100'
#10	100'	160'
#8	150'	250'
#6	240'	400'