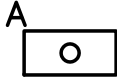


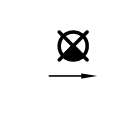






## ELECTRICAL SYMBOLS

### LIGHTING




NOTE: 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>4</sub> 120/277V, 20A 4-WAY LIGHT SWITCH, SPECIFICATION GRADE
-  FLUORESCENT/LED LIGHT FIXTURES
-  LED DOWNLIGHT
-  LED LIGHT FIXTURE WITH AC DRIVER AND EMERGENCY BATTERY BACKUP  
NL = NIGHT LIGHT
-  ILLUMINATED EXIT SIGN, LED TYPE  
SINGLE FACE, ARROW INDICATES DIRECTION OF FLOW FOR THE FACE
-  EXIT SIGN WITH EMERGENCY FLOODS
-  EXTERIOR PHOTOCELL



### COMMUNICATIONS

-  # DATA JACK OUTLET, CAT6  
# INDICATES QUANTITY OF EACH JACK  
DEFAULT IS 1
-  (AP) WIRELESS ACCESS POINT CAT6 JACK  
(ACCESS POINT PROVIDED BY OWNER)









### SECURITY

-  PIR SENSOR
-  MAGNETIC DOOR CONTACT
-  KEYPAD




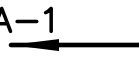
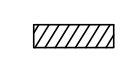

### RECEPTACLES

-  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.

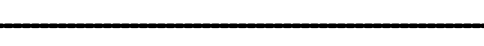
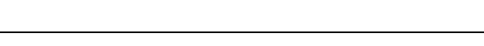

### FIRE ALARM

-  SMOKE DETECTOR
-  HEAT DETECTOR
-  FIRE ALARM HORN/STROBE  
# INDICATES CANDELLA RATING
-  FIRE ALARM CONTROL PANEL
-  NAC POWER EXTENDER
-  MANUAL PULL STATION
-  INTERFACE DEVICE
-  MAGNETIC DOOR HOLDER

### GENERAL

-  NON-FUSED DISCONNECT SWITCH  
WP INDICATES NEMA 3R
-  JUNCTION BOX
-  ENCLOSED CIRCUIT BREAKER
-  A-1 BRANCH CIRCUIT HOMERUN,  
A-1 INDICATES PANEL DESIGNATION AND CIRCUIT NUMBER
-  EXISTING PANELBOARD
-  PANELBOARD

### 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

## ELECTRICAL ABBREVIATIONS

- A, AMP AMPERE
- AC ALTERNATING CURRENT
- AFF ABOVE FINISHED FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- AVG AVERAGE
- AWG AMERICAN WIRE GAUGE
- BKR BREAKER
- C CONDUCTOR, CONDUIT
- CAT CATALOG, CATEGORY
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- CU COPPER
- DWG DRAWING
- EMT ELECTRICAL METALLIC TUBING
- FACP FIRE ALARM CONTROL PANEL
- G GROUND; GROUND FAULT CIRCUIT INTERRUPTER
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- HP HORSEPOWER
- HVAC HEATING, VENTILATION, AND AIR CONDITIONING
- IT INFORMATION TECHNOLOGY
- KVA KILO-VOLT-AMPERE
- KW KILO-WATT
- LED LIGHT EMITTING DIODE
- LTG LIGHTING
- LTS LIGHTS
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUG ONLY
- NAC NOTIFICATION APPLIANCE CIRCUIT
- 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
- REC RECEPTACLE
- RM ROOM
- SW SWITCH
- THHN HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
- THWN MOISTURE & HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
- TYP TYPICAL
- UL UNDERWRITERS LABORATORIES
- V VOLT
- VA VOLT AMPERE
- W WATT, WIRE
- W/ WITH
- WP WEATHERPROOF

## ELECTRICAL GENERAL NOTES

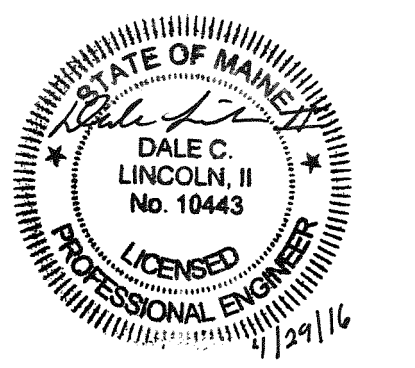
1. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA, AND STATE AND LOCAL CODES.
2. WORK SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, SPRINKLER, AND FIRE ALARM TRADES.
3. ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.
4. LIGHT FIXTURES AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, SPRINKLER, AND FIRE ALARM WORK TO AVOID INTERFERENCE.
5. A SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH INDIVIDUAL CIRCUIT. METAL CONDUIT SHALL BE GROUNDED BUT SHALL NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
6. CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE.
7. CONDUIT SHALL BE MINIMUM 1/2" UNLESS OTHERWISE NOTED.
8. UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 1P, 15A 2P, 20A 1P, 20A 2P BRANCH CIRCUIT SHALL BE 2 #12 + #12G, IN 1/2"C.
9. A SEPARATE NEUTRAL CONDUCTOR SHALL BE PROVIDED FOR EACH INDIVIDUAL 120V AND 277V CIRCUIT.
10. WIRE EXIT SIGNS AND EMERGENCY LIGHTING UNITS AHEAD OF LOCAL SWITCHES AND OCCUPANCY SENSORS.

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'

## MOUNTING HEIGHT SCHEDULE

(UNLESS NOTED OTHERWISE)

1. RECEPTACLES: 18" UNLESS NOTED OTHERWISE
2. RECEPTACLES AT COUNTERS: 6" ABOVE COUNTER TOP/BACKSPLASH
3. SWITCHES: 48"
4. FIRE ALARM STROBES: 80"



MHL RSW DCL  
 DESIGNED BY: DRAWN BY: CHECKED BY: PROJECT: 21602.06

**REICHE ELEMENTARY SCHOOL  
PORTLAND SCHOOL DEPARTMENT**  
 353 Cumberland Avenue  
 Portland, ME 04102

**REICHE ELEMENTARY  
ELEVATOR ADDITION**  
 166 Brackett Street  
 Portland, ME 04102

## ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

SCALE: AS NOTED  
DATE: 04-29-2016

DWG.: **E-001**

SHEET: **37** OF **40**