

LIGHTING

- BRANCH CIRCUIT
2x4 FLUORESCENT FIXTURE
TYPE AS SCHEDULED
ASSOCIATED CONTROL DEVICE
- 1x4 FLUORESCENT FIXTURE
- 2x2 FLUORESCENT FIXTURE
- FIXTURE WIRED TO UNSWITCHED
EMERGENCY CIRCUIT
- FIXTURE WIRED TO UNSWITCHED
NORMAL CIRCUIT
- FIXTURE WIRED TO SWITCHED
EMERGENCY CIRCUIT
- DOWN LIGHT
- TRACK LIGHTING
- FLUORESCENT STRIP
- WALL MOUNTED FIXTURES
- WALL WASH LIGHT FIXTURE
- 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
TD - TIME DELAY RESET
- REMOTE EMERGENCY LIGHTING HEAD
- POLE MOUNTED SITE LIGHTING FIXTURE
TYPE AS SCHEDULED
- BOLLARD TYPE SITE LIGHTING FIXTURE
- FLOOD LIGHT
- WALL PACK
- SINGLE POLE TOGGLE SWITCH
INDICATES CONTROLLED FIXTURE
- 3-WAY TOGGLE SWITCH
- 4-WAY TOGGLE SWITCH
- DUAL LEVEL SWITCHING (NOTE *)
- DIMMER SWITCH, INCANDESCENT OR
FLUORESCENT AS REQUIRED.
- TOGGLE SWITCH WITH PILOT LIGHT
- TIMER SWITCH, SPRING WOUND
- SINGLE POLE DOUBLE THROW TOGGLE
SWITCH, CENTER POSITION OFF
- WEATHER PROOF
- EXPLOSION PROOF
- TIME CLOCK
- LIGHTING CONTACTOR
- PHOTOELECTRIC CONTROL
- UNSWITCHED CONTINUATION OF BRANCH CIRCUIT
- HOME RUN
- OCCUPANCY SENSOR
1. NORMAL ANGLE
2. WIDE ANGLE
3. 360° COVERAGE
- OCCUPANCY SENSOR RELAY

POWER

- NON-FUSED SAFETY SWITCH
NEMA ENCLOSURE RATING
AMPERE RATING
- FUSED SAFETY SWITCH, TOP NUMBER INDICATES SWITCH
AMPERE RATING, LOWER NUMBER INDICATES FUSE RATING
NEMA ENCLOSURE RATING
- MAGNETIC MOTOR STARTER, FVNR UNLESS INDICATED
OTHERWISE
NEMA ENCLOSURE RATING (TYPICAL)
NEMA SIZE
- COMBINATION CIRCUIT BREAKER/MAGNETIC MOTOR STARTER
NUMBER INDICATES CIRCUIT BREAKER AMPERE RATING/NEMA
STARTER SIZE
- COMBINATION FUSED DISCONNECT/MAGNETIC MOTOR STARTER
NUMBER INDICATES DISCONNECT AMPERE RATING/FUSE
RATING/NEMA STARTER SIZE
- NON-FUSED DISCONNECT/MAGNETIC MOTOR STARTER
NUMBER INDICATES DISCONNECT AMPERE RATING/NEMA
STARTER SIZE
- MANUAL MOTOR STARTER, TOGGLE OPERATED, 1, 2 OR 3
POLE AS REQUIRED
- MANUAL MOTOR SWITCH, TOGGLE OPERATED, SINGLE PHASE,
1 OR 2 POLE AS REQUIRED (NO OVERLOAD PROTECTION)
- ENCLOSED CIRCUIT BREAKER
- ELECTRIC MOTOR, NUMBER INDICATES HORSEPOWER RATING
- EXPLOSION PROOF MOTOR
- VARIABLE AIR VOLUME CONTROL ACTUATORS
- LOCAL SELECTOR SWITCH
H/O/A - HAND/OFF/AUTO
- EMERGENCY OFF STATION
- PUSH BUTTON STATION
- JUNCTION BOX
- TRANSFORMER
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- EY CONDUIT SEAL
- DUPLEX RECEPTACLE, NEMA 5-20R,
INSTALLED ON EMERGENCY CIRCUIT (TYPICAL)
- GFCI DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE GFCI DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE ISOLATED GROUND DUPLEX RECEPTACLE,
NEMA 5-20R
- SINGLE RECEPTACLE, NEMA 5-20R
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE DOUBLE DUPLEX RECEPTACLE,
NEMA 5-20R
- SWITCHED RECEPTACLE
- FLOOR OUTLET, DUPLEX 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

COMMUNICATION & DATA SYSTEMS

- TELEPHONE SYSTEM WALL JACK, MOUNT 18" AFF.
W-INDICATES WALL MOUNTED AT 60" AFF.
P-INDICATES PAYPHONE.
- DATA SYSTEM OUTLET, MOUNT 18" AFF.
- VOICE/DATA SYSTEM OUTLET
- TELEVISION
- CATV TELEVISION SYSTEM OUTLET, MOUNT 84"
AFF UNLESS OTHERWISE NOTED.
- PAGING SYSTEM CONTROL PANEL AND PAGING AMPLIFIER
- PAGING SYSTEM SPEAKER, CEILING MOUNTED.
- PAGING SYSTEM SPEAKER, WALL MOUNT AT 7"-8" AFF.
- VOLUME CONTROL
- CLOCK SPEAKER
- WALL MOUNTED CLOCK
- UNDERFLOOR VOICE & DATA OUTLET
- CEILING DATA OUTLET
- DOOR CONTACT
- CARD READER
- KEY PAD
- CLOSED CIRCUIT TELEVISION CAMERA
- ELECTRIC STRIKE

SECURITY SYSTEMS

- DOOR CONTACT
- CARD READER
- KEY PAD
- CLOSED CIRCUIT TELEVISION CAMERA
- ELECTRIC STRIKE

ONE LINE DIAGRAM

- MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
- LOW VOLTAGE DRAWOUT CIRCUIT BREAKER
- MOLDED CASE CIRCUIT BREAKER
- ST - SHUNT TRIP
GF - GROUND FAULT
EO - ELECTRICALLY OPERATED
- DISCONNECT, ISOLATION OR SAFETY SWITCH
- FUSED CUTOUT
- FUSED LOAD BREAK SWITCH
- MEDIUM VOLTAGE MOTOR STARTER
- MAGNETIC MOTOR STARTER, NUMERAL INDICATES NEMA SIZE
FVNR UNLESS OTHERWISE NOTED.
FVR - FULL VOLTAGE REVERSING
RWAT - REDWINDING VOLTAGE AUTO TRANSFORMER
2S - TWO SPEED
- CAPACITOR
- VFD
- POWER TRANSFORMER
OA - LIQUID TYPE SELF COOLED
AA - DRY TYPE SELF COOLED
FA - FAN COOLED
CONNECTION
- SHIELDED
ISOLATION TRANSFORMER
- POTENTIAL TRANSFORMER
RATIO
NUMBER REQUIRED
- CURRENT TRANSFORMER
RATIO
NUMBER REQUIRED
- GROUND FAULT CURRENT TRANSFORMER
- MOTOR, NUMBER INDICATES HORSEPOWER
- GENERATOR
- AUTOMATIC TRANSFER SWITCH
- METER
A - AMMETER
V - VOLTMETER
W - WATTMETER
WH - WATT HOURMETER
KWH - KILOWATT HOUR
VAR - VAR METER
HZ - FREQUENCY METER
PF - POWER FACTOR METER
- DIGITAL POWER METER
- METER TRANSFER SWITCH
AS - AMMETER SWITCH
VS - VOLTMETER SWITCH
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- LIGHTING ARRESTER
- KEY INTERLOCK
- FUSE
- ELECTRONIC POWER FUSE
- DRAWOUT DEVICE
- GROUND

ABBREVIATIONS

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

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC).
2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE PROVIDED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
3. 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 80-INCHES AFF OR 6-INCHES BELOW CEILING, WHICHEVER IS LOWER, AND FIRE ALARM MANUAL PULL STATIONS 48-INCHES AFF TO TOP OF DEVICE.
4. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
5. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
6. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH EVERY FEEDER AND BRANCH CIRCUIT.
7. UNLESS OTHERWISE NOTED WIRING SHALL BE 2 #12 AWG CONDUCTORS & #12 GND, HOME RUNS FEED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG.
8. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT IN A 360 DEGREE LOOP.
9. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE 120/277 VOLT, SIDE WIRED AND PROVIDED WITH GROUNDING SCREW, 20 OR 30 AMP AS REQUIRED, LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL, COORDINATE COLOR WITH ARCHITECT.
10. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE GROUNDING TYPE NEMA 5-20R, SIDE WIRED, LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL, COORDINATE COLOR WITH ARCHITECTS.
11. PROVIDE WALL PLATES FOR ALL WIRING DEVICES. COORDINATE COLOR WITH ARCHITECT.
12. UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 600V, COPPER WITH THHN/THWN INSULATION.
13. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR ALL PANELS BEING MODIFIED. BREAKERS BECOMING SPARE UPON REMOVAL OF EQUIPMENT OR DEVICES SHALL BE LABELLED AS "SPARE".

LIGHT FIXTURE SCHEDULE

| TYPE | DESCRIPTION | MFR. | LAMPS | MOUNTING | NOTES |
|------|---|------------------------|-----------------|----------|-------|
| A | 2x4 PARABOLIC TROFFER W/ SEMI-SPECULAR REFLECTOR, 24 CELL, 3" DEEP LOUVER. 277V | COLUMBIA P424 SERIES | 3-F32T8 3500K | RECESSED | |
| B | 8" ROUND APERTURE DOWNLIGHT W/ CLEAR ALZAK REFLECTOR. 277V | PRESCOLITE CFR8 SERIES | 2-26W QUAD TUBE | RECESSED | |

GENERAL NOTE

1. 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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| UNUMPROVIDENT H01 THE BEACON PORTLAND, ME. | | |
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