

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
	TRACK LIGHTING
	POLE MOUNTED SITE LIGHTING FIXTURE FIXTURE TYPE (SEE LIGHT FIXTURE SCHEDULE)
	FLOOD LIGHT
	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
	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.
	TOGGLE SWITCH WITH PILOT LIGHT
	TIMER SWITCH, SPRING WOUND
	SINGLE POLE DOUBLE THROW TOGGLE SWITCH, CENTER POSITION OFF
	WEATHER PROOF
	EXPLOSION PROOF
	OCCUPANCY SENSOR SWITCH
	UNSWITCHED CONTINUATION OF BRANCH CIRCUIT
	HOME RUN
	OCCUPANCY SENSOR a. INDICATES CONTROLLED FIXTURE INDICATES AIMING DIRECTION
	OCCUPANCY SENSOR RELAY
	DAYLIGHT SENSOR LIGHTS CONTROLLED BY SENSOR

COMMUNICATION & DATA SYSTEMS

	TELEPHONE SYSTEM WALL JACK W-INDICATES WALL MOUNTED AT 64" AFF P-INDICATES PAYPHONE (2)-INDICATES 2 OUTLETS, SINGLE BOX
	DATA SYSTEM OUTLET
	COMBINATION VOICE/DATA SYSTEM OUTLET
	UNDERFLOOR TELEPHONE SYSTEM OUTLET
	UNDERFLOOR DATA SYSTEM OUTLET
	UNDERFLOOR VOICE & DATA OUTLET
	CABLE TELEVISION SYSTEM OUTLET, MOUNT 18" AFF UNLESS OTHERWISE NOTED
	CLOSED CIRCUIT TELEVISION OUTLET, MOUNT 18" AFF UNLESS OTHERWISE NOTED
	PAGING SYSTEM CONTROL PANEL AND PAGING AMPLIFIER
	PAGING SYSTEM SPEAKER, CEILING MOUNTED
	PAGING SYSTEM SPEAKER, WALL MOUNT AT 7'-6" AFF 1. FLUSH, 2. SURFACE, 3. HORN, 4. DUAL HORN
	VOLUME CONTROL
	INTERCOM SYSTEM HAND KEY
	CLOCK SPEAKER
	WALL MOUNTED CLOCK
	CEILING MOUNTED TELEPHONE SYSTEM OUTLET
	CEILING MOUNTED DATA SYSTEM OUTLET
	CEILING MOUNTED VOICE & DATA OUTLET

POWER

	NON-FUSED SAFETY SWITCH AMPERE RATING
	NEMA ENCLOSURE RATING
	FUSED SAFETY SWITCH, TOP NUMBER INDICATES SWITCH AMPERE RATING, LOWER NUMBER INDICATES FUSE RATING
	NEMA ENCLOSURE
	MAGNETIC MOTOR STARTER, FVNR UNLESS INDICATED OTHERWISE NEMA ENCLOSURE RATING
	NEMA SIZE (TYPICAL)
	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
	EXPLOSION PROOF MOTOR
	VARIABLE AIR VOLUME CONTROL ACTUATORS
	LOCAL SELECTOR SWITCH H/O/A - HAND/OFF/AUTO
	EMERGENCY OFF
	PUSHBUTTON STATION
	JUNCTION BOX
	TRANSFORMER
	POWER POLE
	POWER METER
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	EY CONDUIT SEAL
	DUPLEX RECEPTACLE, NEMA 5-20R, INSTALLED ON EMERGENCY CIRCUIT (TYPICAL) GFI 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 (QUADRUPLEX) 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
	MULTI OUTLET ASSEMBLY

GROUNDING

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

NURSE CALL SYSTEM

	NURSE CALL CALL LIGHT
	PATIENT CALL BUTTON
	NURSE CALL PULL CORD
	NURSE CALL MASTER STATION

LINE TYPES

	EXISTING
	NEW
	DEMOLITION

FIRE ALARM

	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM MASTER BOX
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM SPEAKER/STROBE UNIT
	FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION)
	FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE CLEAN ROOM NOTIFICATION (LOCAL)
	FIRE ALARM VISIBLE ONLY NOTIFICATION APPLIANCE CANDELA INTENSITY-15/75 UNLESS OTHERWISE NOTED CEILING MOUNTED
	PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED INDICATES AUXILIARY CONTACT.
	FIXED TEMPERATURE HEAT DETECTOR, CEILING MOUNTED, INDICATES EQUIPMENT INTERLOCKED WITH THE DETECTOR
	CLEAN ROOM SMOKE DETECTOR
	INDICATES EQUIPMENT INTERLOCKED WITH THE SMOKE DETECTOR
	COMBINATION RATE-OF-RISE/FIXED TEMPERATURE HEAT DETECTOR, CEILING MOUNTED
	DUCT SMOKE DETECTOR, PHOTOELECTRIC WITH AUXILIARY CONTACT.
	SPRINKLER SYSTEM FLOW SWITCH
	SPRINKLER SYSTEM TAMPER SWITCH
	FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER
	INTERLOCK RELAY
	SMOKE DAMPER
	DUCT SMOKE DETECTOR REMOTE TEST INDICATOR
	KNOX BOX

SECURITY SYSTEMS

	2-WAY CEILING MOUNTED INTERCOM SPEAKER
	CEILING MOUNTED PAGING SPEAKER
	WALL MOUNTED PAGING HORN
	CEILING OR WALL MOUNTED FIXED CAMERA
	CEILING OR WALL MOUNTED PTZ CAMERA
	PAGING CONTROL EQUIPMENT
	INTERCOM MASTER STATION
	DOOR CONTROL EQUIPMENT
	MONITORED DOOR POSITION SWITCH AND CONTROLLED DOOR HARDWARE
	MONITORED DOOR POSITION SWITCH
	STANDARD INTERCOM STATION
	VISITATION TELEPHONE
	WALL MOUNTED DURESS BUTTON
	GRAPHIC CONTROL PANEL
	TOUCH SCREEN WORKSTATION
	CCTV CONTROL OR DISPLAY EQUIPMENT
	PERIMETER CONTROL EQUIPMENT
	DURESS CONTROL EQUIPMENT
	DURESS ALARM RECEIVER
	OFFICER CONTROLLED COLLECT-ONLY PUBLIC TELEPHONE
	OFFICER CONTROLLED FIRE SPRINKLER (DELUGE) HEAD
	DUAL TECHNOLOGY VOLUMETRIC SENSOR
	LOCAL DOOR RELEASE BUTTON
	OFFICER CONTROLLED SHOWER WATER SUPPLY
	OFFICER CONTROLLED LIGHTING AND ELECTRICAL OUTLETS
	DOOR CONTACT
	CARD READER
	KEY PAD
	CLOSED CIRCUIT TELEVISION CAMERA
	ELECTRIC STRIKE
	MAG LOCK

ONE LINE DIAGRAM

	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
	LOW VOLTAGE DRAWOUT CIRCUIT BREAKER AF - AMP FRAME AT - AMP TRIP EO - ELECTRICALLY OPERATED
	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 - FULL VOLTAGE REVERSING RVAT - REDUCING VOLTAGE AUTO TRANSFORMER 2S - TWO SPEED
	CAPACITOR
	VARIABLE FREQUENCY DRIVE
	POWER TRANSFORMER OA - LIQUID TYPE SELF COOLED AA - DRY TYPE SELF COOLED FA - FAN COOLED CONNECTION
	SHIELDED ISOLATION TRANSFORMER
	POTENTIAL TRANSFORMER RATIO 480/120 NUMBER REQUIRED
	CURRENT TRANSFORMER RATIO 600/5 NUMBER REQUIRED
	GROUND FAULT CURRENT TRANSFORMER
	MOTOR, NUMBER INDICATES HORSEPOWER
	GENERATOR
	ATS - AUTOMATIC TRANSFER SWITCH MTS - MANUAL TRANSFER SWITCH
	METER A - AMMETER V - VOLTMETER W - WATTMETER WH - WATT HOURMETER KWH - KILOWATT HOUR KVAR - KILOVAR METER 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
	LIGHTNING ARRESTER
	KEY INTERLOCK
	FUSE
	ELECTRONIC POWER FUSE
	DRAWOUT DEVICE
	GROUND

ABBREVIATIONS

A.AMP	AMPERE	LA	LIGHTNING ARRESTER
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AFG	ABOVE FINISHED GRADE	MC	METAL CLAD
AHU	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
C	CONDUIT, CONDUCTOR	MV	MEDIUM VOLTAGE
CATV	CABLE TELEVISION	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CCTV	CLOSED CIRCUIT TELEVISION	NEG	NEGATIVE
CPT	CONTROL POWER TRANSFORMER	NEUT	NEUTRAL
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
CU	COPPER	NO	NORMALLY OPEN
DAC	DIGITAL ALARM COMMUNICATOR	NTS	NOT TO SCALE
DB	DISCONNECT	PF	POWER FACTOR
DN	DOWN	PH	PHASE
EMT	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE
EWC	ELECTRIC WATER COOLER	RGS	RIGID STEEL CONDUIT
FAA	FIRE ALARM ANNUNCIATOR	RSC	RIGID STEEL CONDUIT
FACP	FIRE ALARM CONTROL PANEL	RTD	RESISTANCE TEMPERATURE DETECTOR
FBO	FURNISHED BY OTHERS	SN	SOLID NEUTRAL
FU	FUSE	STP	SHIELDED TWISTED PAIR
FWE	FURNISHED WITH EQUIPMENT	STT	SHIELDED TWISTED TRIPLET
GEN	GENERATOR	SWBD	SWITCHBOARD
GFCI	GROUND FAULT CIRCUIT BREAKER	SWGR	SWITCHGEAR
GND	GROUND	TOS	TOP OF STEEL
HP	HORSEPOWER	TRANSF	TRANSFORMER
HTR	HEATER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
IG	ISOLATED GROUND	V	VOLT
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT-AMPERE
K	KILO	VAR	VOLT-AMPERE REACTIVE
KCMIL	THOUSAND CIRCULAR MILS	WM	WATT METER
KV	KILOVOLT	WP	WEATHER PROOF
KVA	KILOVOLT-AMPERE	XFMR	TRANSFORMER
KVAR	KILOVOLT-AMPERE REACTIVE	XP	EXPLOSION PROOF
KW	KILOWATT		
KWH	KILOWATT-HOUR		

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC 2011).
- 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 80-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 120 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.

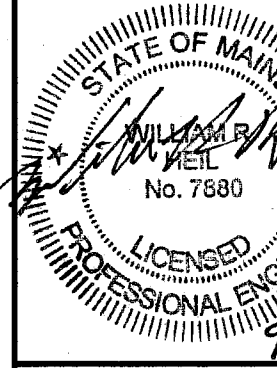
GENERAL NOTE

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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EQUIPMENT REPLACEMENT
PORTLAND, ME

ISSUED FOR CONSTRUCTION
9-12-12

REV	DATE	DESCRIPTION
0	9-12-12	ISSUED FOR CONSTRUCTION

GRAPHIC SCALE:
0" 1"

SCALE: N/A
PROJECT MANAGER: KD
JC/DRAWN BY: RBB
A/E OF RECORD: WRH
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LEGEND AND
GENERAL NOTES

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