

GENERAL NOTES

- NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 2*12 AWG AND 1*12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUN FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
- CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH #10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
- TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
- SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
- FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFR RECOMMENDATION.
- ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE 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 ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING. ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMPS.
- COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
- LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
- ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
- OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2
- MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE #12.

ABBREVIATIONS

A AMP	LP LIGHTING PANELBOARD
AC ALTERNATING CURRENT, ABOVE COUNTER	LTG LIGHTING
ADA AMERICANS WITH DISABILITIES ACT	LSIG LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED
AF AMP FRAME	MCC MOTOR CONTROL CENTER
AFCI ARC FAULT CIRCUIT INTERRUPTER	MCCB MOLDED CASE CIRCUIT BREAKER
AFF ABOVE FINISHED FLOOR	MCB MAIN CIRCUIT BREAKER
AFG ABOVE FINISHED GRADE	MDP MAIN DISTRIBUTION PANEL
AIC AMPERES INTERRUPTING CAPACITY	MH MANHOLE
AL ALUMINUM	MLO MAIN LUGS ONLY
AT AMP TRIP	MTS MANUAL TRANSFER SWITCH
ATC AUTOMATIC TEMPERATURE CONTROL	NC NORMALLY CLOSED OF NURSE CALL
ATS AUTOMATIC TRANSFER SWITCH	NEC NATIONAL ELECTRICAL CODE
AWG AMERICAN WIRE GAUGE	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
BLDG BUILDING	NL NIGHT LIGHT
C CONDUIT	NO NORMALLY OPEN
CB CIRCUIT BREAKER	NO. NUMBER
CI CAST IRON	OL OVERLOAD
CKT CIRCUIT	P POLE
CL CENTERLINE	PA PUBLIC ADDRESS
CMP CENTRAL MAINE POWER (ELECTRIC UTILITY)	PB PUSH BUTTON
CMU CONCRETE MASONRY UNIT	PF POWER FACTOR
CT CURRENT TRANSFORMER	PH PHASE
CONC CONCRETE	PNL PANEL
CS CARBON STEEL	TP1-2 TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED
CU COPPER	PSNH PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY)
CUH CABINET UNIT HEATER	PT POTENTIAL TRANSFORMER
DL DAMP LOCATION	PVC POLYVINYL CHLORIDE
EL ELECTRICAL CONTRACTOR	RL ELECTRICAL EQUIPMENT TO BE RELOCATED
EF EXHAUST FAN	RM ELECTRICAL EQUIPMENT TO REMAIN
ER EXISTING REMAINS IN PLACE	RSC RIGID STEEL CONDUIT
ERL EXISTING RELOCATE	RTU ROOF TOP UNIT
ERM EXISTING REMOVE	RV ELECTRICAL EQUIPMENT TO REMOVE
EUH ELECTRIC UNIT HEATER	RVNR REDUCED VOLTAGE, NON-REVESING
EWC ELECTRICAL WATER COOLER	SB SMART BOARD
FACP FIRE ALARM CONTROL PANEL	SF SUPPLY FAN
FAPS FIRE ALARM PULL STATION	SLD SINGLE LINE DIAGRAM
FRP FIBER REINFORCED PLASTIC	SM MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT
FVNR FULL VOLTAGE, NON-REVERSING FURNISHED WITH UNIT	SS SOLID STATE
FWU FURNISHED WITH UNIT	SWBD-1 SWITCHBOARD NUMBER AS DESIGNATED
DC DIRECT CURRENT	TC TIME CLOCK
GFI GROUND FAULT INTERRUPTER	TS TRANSFER SWITCH
GND GROUND	T&B TOP AND BOTTOM
HID HIGH INTENSITY DISCHARGE	TYP TYPICAL
HOA HAND-OFF-AUTOMATIC	UG UNDERGROUND
HP HORSEPOWER	V VOLT
HPS HIGH PRESSURE SODIUM	VA VOLT-AMPERE
HZ HERTZ	VFD VARIABLE FREQUENCY DRIVE
ICB INSULATED CASE CIRCUIT BREAKER	W WATT
JB JUNCTION BOX	W/ WITH
KAIC THOUSAND AMP INTERRUPTING CAPACITY	WP WEATHERPROOF
KCMIL THOUSAND CIRCULAR MIL	XFMR TRANSFORMER
KV THOUSAND VOLTS	XP EXPLOSION PROOF
KVA THOUSAND VOLT-AMPS	3PH THREE PHASE
KW THOUSAND WATTS (KILOWATT)	4W FOUR WIRE
LC LIGHTING CONTACTORS	3W THREE WIRE
LCP LATERAL CONTROL PIT	
LED LIGHT EMITTING DIODE	

SYMBOL LEGEND

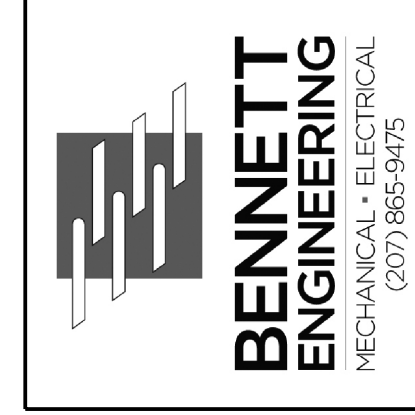
- SURFACE MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- JUNCTION BOX, "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER
- MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE MOUNTED AT UNIT
- DISCONNECT SWITCH, SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING. PROVIDED BY EC UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
- COMBINATION MOTOR STARTER/ DISCONNECT SWITCH WITH AUXILIARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT. PROVIDED AND INSTALLED BY EC UNLESS NOTED OTHERWISE.
- VARIABLE FREQUENCY DRIVE, PROVIDED BY MC, INSTALLED AND WIRED BY EC
- DUPLEX RECEPTACLE, 20A, 125V, SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE, MOUNT 18" AFF UNLESS NOTED OTHERWISE. "IG" DENOTES ISOLATED GROUNDING TYPE.
- QUAD RECEPTACLE, 20A, 125V, SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE, MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE, 20A, 125V, SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE, MOUNT 18" AFF, BOTTOM RECEPTACLE SWITCHED.
- GROUND FAULT DUPLEX RECEPTACLE, 20A, 125V, TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET, FLUSH MOUNTED 45" AFF EXCEPT AS NOTED.
- REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V, SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE, MOUNT RECEPTACLE AT 48 INCHES ABOVE FINISHED FLOOR.
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE - 20A, 125V, SPEC GRADE GROUNDING TYPE. "CL" DENOTES CEILING MOUNTED
- RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS
- RACEWAY & WIRING RUN EXPOSED
- RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE
- HOME RUN TO PANEL, WITH PANEL AND CIRCUIT NUMBER
- BRANCH CIRCUIT WIRING SHALL CONSIST OF (1)1/2" C-2*12AWG-1*12GND UNLESS OTHER WISE NOTED. (*)ASTERISK DENOTES #10AWG FOR ALL CIRCUITS CONTAINED IN HOME RUN. (**)DOUBLE ASTRISK DENOTES (1)3/4" C-2*8AWG-1*10GND. PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ARTICLE 250.
- CABLE TV JUNCTION BOX "CTV", SIZE AS REQUIRED BY CABLE UTILITY
- TV OUTLET LOCATION, CABLE AND JACKS BY EC
- TEMPERATURE CONTROL PANEL, PROVIDED BY MC WIRED BY EC
- PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR, FURN W/ DOOR OPERATOR, WIRED BY EC
- DOOR PUSHBUTTON-DOORBELL
- DOOR ELECTRIC STRIKE
- DOOR CHIME WITH STROBE-ADA COMMUNICATIONS REQUIREMENT
- LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. "30" INDICATES INBOARD LAMPS CONTROLLED BY OUTBOARD SWITCHED "a" AND "b". DIAGONAL INDICATED NIGHT LIGHT (UNSWITCHED)
- SELF CONTAINED EMERGENCY LIGHT W/2 HEADS DUAL-LITE (LED) MODEL LZ651-03L, 65 WATTS FOR 90 MINUTES, COLOR BY ARCHITECT
- EMERGENCY LIGHTING BATTERY PACK DUAL-LITE No LM130-12VI-0 SELF-DIAGNOSTIC
- INTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No OPRD 1203L, COLOR BY ARCHITECT
- EXTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No OCRD 1203L COLOR BY ARCHITECT
- EXIT LIGHT FIXTURE, UNSWITCHED, DUAL-LITE LX-U-R-W-E OR APPROVED EQUAL
- SECURITY CAMERA LOCATION, COORDINATE AND PROVIDE DUPLEX RECEPTACLE, DATA AND CONDUIT PER MANUFACTURERS RECOMMENDATIONS
- CEILING MOUNTED MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS: WT-2255 SENSOR & B120E-P POWER PACK, OTHER COMMON SPACES: WT-605 SENSOR & B120E-P POWER PACK. SENSORS AND RELAYS TO CONTROL CIRCUITS IN SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED. DT INDICATES DUAL TECHNOLOGY PIR INDICATED PASSIVE INFRARED TECHNOLOGY
- WALL MOUNTED SWITCH MOTION SENSOR, MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- SINGLE POLE SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- SWITCH WITH PILOT LIGHT, SWITCHES SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX.
- REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX.
- BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF
- SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- PHOTOCELL
- LIGHTING CONTACTOR
- TIMECLOCK
- TELEPHONE/DATA DUAL JACK, MOUNT 18" AFF, RUN TWO CAT 5E CABLES BACK TO TBB
- DATA JACK, RUN TWO CAT 5E CABLES BACK TO TBB.
- FLUSH FLOOR MOUNTED TELEPHONE/DATA DUAL JACK, RUN TWO CAT 5E CABLES BACK TO TBB. "CL" DENOTES CEILING MOUNTED
- TELEPHONE JACK, MOUNT 18" AFF UNLESS NOTED OTHERWISE, RUN ONE CAT 5E CABLE BACK TO TBB.
- TELEPHONE BACK BOARD
- WIFIROUTER, OCE CAT 5E CABLE BACK TO TBB OR IT ROOM, MOUNT ABOVE CEILING, "W" DENOTES WALL MOUNTED AT 72" AFF
- INTERCOM PANEL IN UNIT
- INTERCOM PANEL AT RECEPTION
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE EXTINGUISHER ELECTRONIC MONITOR SHALL BE ACCOMPLISHED THROUGH USE OF AN ADDRESSABLE INTERFACE DEVICE AND SHALL PROVIDE INPUT TO THE FACP
- FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATING. "MH" DENOTES MIMHORN, "CL" DENOTES CEILING MOUNTED. NO DESIGNATION EQUALS 15cd
- FIRE ALARM PULL STATION, MOUNT 48" AFF
- FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATINGS. "CL" DENOTES CEILING MOUNTED
- SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" DENOTES ELEV RECALL
- SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE
- CARBON MONOXIDE DETECTOR
- DUCT SMOKE DETECTOR & TEST STATION
- FIRE/SMOKE DAMPER, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING CONNECTIONS AND FIRE ALARM DUCT SMOKE DETECTORS, ADDRESSABLE MODULES AND PROGRAMMING.
- SPRINKLER SYSTEM FLOW SWITCH } SUPPLIED BY SPRINKLER CONTRACTOR
- SPRINKLER SYSTEM TAMPER SWITCH } WIRED BY EC, VERIFY LOCATIONS WITH SPRINKLER CONTRACTOR.
- MAGNETIC DOOR HOLD
- NURSE CALL BASE STATION
- NURSE CALL PULL STATION
- NURSE CALL ANNUNCIATOR LIGHT
- WP DENOTES WEATHERPROOF CONSTRUCTION
- RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
- RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
- RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

LIGHT FIXTURE SCHEDULE

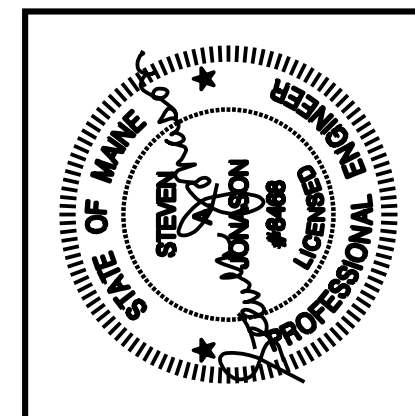
TYPE	MANUFACTURER AND MODEL NUMBER	LAMP INFO	REMARKS
A	FINELITE CAT No HPR-A-2x4-RCO-LED-SO-3500K-120-SC-C1	36W LED 3500K	GENERAL USE RECESSED 2'x4'
B	FINELITE CAT No HPR-A-2x2-RCO-LED-SO-3500K-120-SC-C1	36W LED 3500K	GENERAL USE RECESSED 2'x2'
C	PRESCOLITE CAT No Lf4SQLEDG4/4SQLED5G435K/B24	14.4W LED 3500K	4" SQUARE, RECESSED DOWNLIGHT
D	FOCAL POINT SEEM 4 CAT No FSM4L-FL-1000LF-35K-1C-120V-LD1-G3-WH-4'	51W LED 3500K	CLOSED OFFICE AND MEETING ROOM RECESSED 1'x4'

NOTES:

- FIXTURES SHALL BE ENERGY STAR RATED OR HAVE HIGH PERFORMANCE BALLASTS AND LAMPS TO MEET STATE EFFICIENCY CRITERIA.
- CONTRACTOR SHALL APPLY FOR ALL STATE EFFICIENCY INCENTIVES ON OWNERS BEHALF.
- CONTRACTOR SHALL COORDINATE TYPES AND QUANTITIES OF FIXTURES SUPPLIED BY OWNER.



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PORTLAND, ME 04101

REVISION NO.	DATE

ELECTRICAL DEMO PLAN

TITLE: AS NOTED
SCALE: 01.07.2015
DATE: DRWN CAT CHK SAJ

DRAWING NO.
E-5