## GENERAL NOTES

1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.

2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.

3. MOUNT PANELS IN RESIDENTIAL SPACES SO NO CIRCUIT BREAKER HANDLE IS HIGHER THAN 44" AFF.

4. 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. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE \*10 AWG.

5. 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.

6. TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.

7. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).

8. 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 MFGR RECOMMENDATION.

9. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.

10. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.

11. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.

12. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70

13. 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 LAMP(S).

14. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.

15. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE

16. OPERATE ALL FLUORESCENT AND METAL HALIDE LAMPS FROM INITIAL INSTALLATION FOR 100 HOURS AT FULL OUTPUT (NO DIMMING) TO SEASON LAMPS AND STABILIZE LAMP COLOR.

17. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS. 18. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED

TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT. 19. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.

20. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 -

21. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.

22. PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.

23. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24

24. IF BUILDING REQUIRES TWO SERVICE ENTRANCES, PROVIDE SIGNS PER NFPA 70-230.

25. 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

26. PROVIDE AIR VAPOR BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX

27. MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE \*12.

LOCATION OF EMERGENCY GENERATOR PER NEC 700.7.

28. PROVIDE SIGN AT SERVICE ENTRANCE EQUIPMENT INDICATING TYPE AND

LCP LATERAL CONTROL PIT

LIGHT EMITTING DIODE

LIGHTING PANELBOARD

**ABBREVIATIONS** AMP LTG LIGHTING ALTERNATING CURRENT, ABOVE COUNTER LSIG LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT CIRCUIT BREAKER TRIP AMERICANS WITH DISABILITIES ACT FUNCTIONS AS INDICATED AMP FRAME MCC MOTOR CONTROL CENTER AFCI ARC FAULT CIRCUIT INTERRUPTER MCCB MOLDED CASE CIRCUIT BREAKER ABOVE FINISHED FLOOR MAIN CIRCUIT BREAKER AFG ABOVE FINISHED GRADE MAIN DISTRUBITION PANEL AMPERES INTERRUPTING CAPACITY MANHOLE ALUMINUM AL MAIN LUGS ONLY AMP TRIP MANUAL TRANSFER SWITCH AUTOMATIC TEMPERATURE CONTROL AUTOMATIC TRANSFER SWITCH NORMALLY CLOSED OF NURSE CALL AWG AMERICAN WIRE GAUGE NATIONAL ELECTRICAL CODE BLDG BUILDING NFPA NATIONAL FIRE PROTECTION ASSOCIATION CONDUIT NIGHT LIGHT CIRCUIT BREAKER NORMALLY OPEN CAST IRON NUMBER CKT CIRCUIT OVERLOAD CENTERLINE POLE CENTRAL MAINE POWER (ELECTRIC UTILITY) PA PUBLIC ADDRESS PUSH BUTTON CONCRETE MASONRY UNIT POWER FACTOR CURRENT TRANSFORMER CONC CONCRETE CS CARBON STEEL TP1-2 TELE-POWER POLE - POLE AND CIRCUIT COPPER NUMBER AS INDICATED CABINET UNIT HEATER PUBLIC SERVICE OF NEW HAMPSHIRE DAMP LOCATION (ELECTRIC UTILITY) ELECTRICAL CONTRACTOR POTENTIAL TRANSFORMER EXHAUST FAN PVC POLYVINYL CHLORIDE ER EXISTING REMAINS IN PLACE ELECTRICAL EQUIPMENT TO BE RELOCATED ERL EXISTING RELOCATE ELECTRICAL EQUIPMENT TO REMAIN ERM EXISTING REMOVE RSC RIGID STEEL CONDUIT ELECTRIC UNIT HEATER RTU ROOF TOP UNIT EWC ELECTRICAL WATER COOLER RV ELECTRICAL EQUIPMENT TO REMOVE FACP FIRE ALARM CONTROL PANEL RVNR REDUCED VOLTAGE, NON-REVESING FAPS FIRE ALARM PULL STATION SMART BOARD FRP FIBER REINFORCED PLASTIC SF SUPPLY FAN FVNR FULL VOLTAGE, NON-REVERSING SLD SINGLE LINE DIAGRAM FWU FURNISHED WITH UNIT MANUAL MOTOR STARTER SWITCH WITH DC DIRECT CURRENT THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT GFI GROUND FAULT INTERRUPTER SOLID STATE GND GROUND SWBD-1 SWITCHBOARD NUMBER AS DESIGNATED HID HIGH INTENSITY DISCHARGE TIME CLOCK HOA TRANSFER SWITCH HAND-OFF-AUTOMATIC HORSEPOWER TOP AND BOTTOM HPS HIGH PRESSURE SODIUM TYP TYPICAL HERTZ UNDERGROUND INSULATED CASE CIRCUIT BREAKER VOLT JUNCTION BOX VA VOLT-AMPERE THOUSAND AMP INTERRUPTING CAPACITY VFD VARIABLE FREQUENCY DRIVE KCMIL THOUSAND CIRCULAR MIL WATT THOUSAND VOLTS WITH KVA THOUSAND VOLT-AMPS WP WEATHERPROOF THOUSAND WATTS (KILOWATT) XFMR TRANSFORMER LIGHTING CONTACTORS

XP EXPLOSION PROOF

3PH THREE PHASE

4W FOUR WIRE

3W THREE WIRE

SURFACE MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING

(1/4) ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN

H, DS, DW JUNCTION BOX, "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL "DW" DENOTES DISHWASHER

> SM 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 AUXILARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT. PROVIDED AND INSTALLED BY EC UNLESS NOTED OTHERWISE.

VFD 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

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 UNLESS OTHERWISE NOTED.

REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT RECEPTACLE AT 48" AFF.

CL FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE. "CL" DENOTES CEILING MONTED

- 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 DENOTED \*10 AWG FOR ALL CIRCUITS CONTAINED IN HOME RUN. (\*\*)DOUBLE ASTERISK 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

일이 DOOR CHIME WITH STROBE-ADA COMMUNICATIONS REQUIREMENT

LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. "ab" 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 LZ25NI-03L. 25 WATTS FOR 90 MINUTES, COLOR BY ARCHITECT

BATT EMERGENCY LIGHTING BATTERY PACK DUAL-LITE No LM130-12VI-0 SELF-DIAGNOSTIC

P INTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No CPRD 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

EXIT/ EMERGENCY LIGHT COMBO, DUAL-LITE No EVCU-R-D4-IOR APPROVED EQUAL COLOR BY ARCHITECT

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

S<sub>MS</sub> WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED S SINGLE POLE SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3=3-WAY,  $S_4S_3$  4=4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.

SWITCH WITH PILOT LIGHT, SWITCH SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE

SRF REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX. >RL REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX.

SB BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF

PIR INDICATED PASSIVE INFRARED TECHNOLOGY

\_D SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF,  $D_4D_3$  3=3-WAY, 4=4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.

PC PHOTOCELL

LC LIGHTING CONTACTOR

TC 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.

CL 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

ER CARD READER LOCATION: PROVIDE BOX AND 3/4" CONDUIT TO NEAREST LOCATION ABOVE SUSPENDED CEILING. PROVIDE 120V DOOR STRIKE POWER FROM NEAREST RECEPTACLE CIRCUIT.

FACE FIRE ALARM CONTROL PANEL WITH DEDICATED TELEPHONE JACK

ANN FIRE ALARM ANNUNCIATOR PANEL

FEM 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 MINIHORN, "CL" DENOTES CEILING MOUNTED. NO DESIGNATION EQUALS 15cd

F FIRE ALARM PULL STATION, MOUNT 48"AFF

15 SD 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 135° 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

SD 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.

F SPRINKLER SYSTEM FLOW SWITCH | SUPPLIED BY SPRINKLER CONTRACTOR WIRED BY EC, VERIFY LOCATIONS WITH

SPRINKLER SYSTEM TAMPER SWITCH SPRINKLER CONTRACTOR.

MAGNETIC DOOR HOLD NURSE CALL BASE STATION

NURSE CALL PULL STATION

MH NURSE CALL ANNUNCIATOR LIGHT

WP DENOTES WEATHERPROOF CONSTRUCTION

RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED

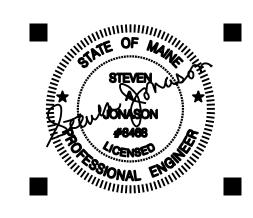
RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED

RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

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NOTES, **ABBREVIATIONS &** SYMBOL LEGEND