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

3. 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.

4. 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.

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

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

7. 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

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

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

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

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

12. 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).

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

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

15. 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.

16. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.

17. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES

18. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70

ARTICLE 406.9.

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

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

21. 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

22. 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

23. MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE #12.

ABBREVIATIONS LP LIGHTING PANELBOARD ALTERNATING CURRENT, ABOVE COUNTER LSIG LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT AMERICANS WITH DISABILITIES ACT AMP FRAME CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED ARC FAULT CIRCUIT INTERRUPTER MCC MOTOR CONTROL CENTER ABOVE FINISHED FLOOR MCCB MOLDED CASE CIRCUIT BREAKER ABOVE FINISHED GRADE MCB MAIN CIRCUIT BREAKER AMPERES INTERRUPTING CAPACITY MAIN DISTRUBITION PANEL MLO MAIN LUGS ONLY AUTOMATIC TEMPERATURE CONTROL MANUAL TRANSFER SWITCH MTS AUTOMATIC TRANSFER SWITCH NORMALLY CLOSED OF NURSE CALL AMERICAN WIRE GAUGE NATIONAL ELECTRICAL CODE BLDG BUILDING NATIONAL FIRE PROTECTION ASSOCIATION CONDUIT NIGHT LIGHT CB CIRCUIT BREAKER NORMALLY OPEN CAST IRON CKT CENTERLINE CENTRAL MAINE POWER (ELECTRIC UTILITY) PUBLIC ADDRESS CONCRETE MASONRY UNIT PUSH BUTTON POWER FACTOR CONC PH CONCRETE CS CARBON STEEL TP1-2 TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED COPPER CUH CABINET UNIT HEATER PSNH PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY) DAMP LOCATION POTENTIAL TRANSFORMER ELECTRICAL CONTRACTOR POLYVINYL CHLORIDE EXHAUST FAN ELECTRICAL EQUIPMENT TO BE RELOCATED EXISTING REMAINS IN PLACE ELECTRICAL EQUIPMENT TO REMAIN EXISTING RELOCATE RIGID STEEL CONDUIT EXISTING REMOVE ROOF TOP UNIT ELECTRIC UNIT HEATER ELECTRICAL EQUIPMENT TO REMOVE ELECTRICAL WATER COOLER RVNR REDUCED VOLTAGE, NON-REVESING FIRE ALARM CONTROL PANEL SMART BOARD FAPS FIRE ALARM PULL STATION SUPPLY FAN SINGLE LINE DIAGRAM FIBER REINFORCED PLASTIC MANUAL MOTOR STARTER SWITCH WITH THERMAL FULL VOLTAGE, NON-REVERSING OVERLOAD DEVICE, MOUNTED AT UNIT FURNISHED WITH UNIT SOLID STATE DIRECT CURRENT SWBD-1 SWITCHBOARD NUMBER AS DESIGNATED GROUND FAULT INTERRUPTER TC TIME CLOCK TS TRANSFER SWITCH T&B TOP AND BOTTOM TYP HORSEPOWER TYPICAL

UNDERGROUND

VOLT-AMPERE

WEATHERPROOF

EXPLOSION PROOF

VARIABLE FREQUENCY DRIVE

VOLT

XFMR TRANSFORMER

4W FOUR WIRE

3W THREE WIRE

SYMBOL LEGEND

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 POP-UP DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE

TAMPER PROOF WITH (2) USBCHARGING PORTS, COLOR BY ARCH. COORDINATE MOUNTING WITH ARCHITECTURALS.

----- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS ---- RACEWAY & WIRING RUN EXPOSED

BRANCH CIRCUIT WIRING SHALL CONSIST OF (1)1/2"C-2*12AWG+1*12GND UNLESS OTHER WISE NOTED. (*)ASTERISK DENOTED *10AWG FOR ALL RACEWAY & WIRING RUN CIRCUITS CONTAINED IN HOME RUN. (**)DOUBLE CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE

ASTERISK DENOTES (1)3/4"C-2*8AWG+1*10GND HOME RUN TO PANEL, WITH PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE PANEL AND CIRCUIT NUMBER 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

모스S 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

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

INTERIOR LIGHT FIXTURE SCHEDULE

| TYPE | MANUFACTURER AND MODEL NUMBER | LAMP INFO | REMARKS |
|-------|-----------------------------------------------------------|-------------------|-----------------------------------------------------------|
| ART | WAC #ME-826LED-X6-WT | 8W, LED | CEILING MOUNTED WALL WASHER FOR ART |
| CL | PROGRESS #P8022-28/30K 9-AC1-L10 | 17W, LED, 3000K | CEILING MOUNTED IN ELECT CLOSET |
| FM1 | FEISS #FM447BK | | GENERAL USE SURFACE MOUNTED |
| FM2 | BRUCK #102-733-mc-CM | 4W, LED | CEILING MOUNTED, CONFIRM SHADE COLOR AND FINISH W/ ARCH |
| P1 | SONNEMAN #4932 TIRBECA 10" PENDANT | (1) 60W MED BASE | VERIFY MOUNTING HEIGHT AT TIME OF INSTALLATION |
| P2/P9 | CERCA #ARN 5352MBK | (1) 75W | LARGE PENDANT, CONFIRM FINISH AND MOUNTING HEIGHT W/ ARCH |
| P3 | TOM DIXON, ETSM01BLKUL (BLACK) | | MINI PENDANT, CONFIRM MOUNTING HEIGHT W/ ARCH |
| P4 | SCHOOLHOUSE, ISAAC PENDANT, NATURAL BRASS | (1) 60W MAX | CONFIRM STEM LENGTH AND COLOR W/ ARC |
| P5/P8 | TROY, F4295 SUPPLOW WITH LB-6W-6 LAMPS | (4) MED BASE LED | |
| P6 | HUDSON VALLEY#8510-OB (ARCHIE CHANDELIER) | (10)40W E12 | CONFIRM STEM LENGTH W/ ARC |
| P7 | TROY#F4297 SUPPLOW WITH LB-6W-6 LAMPS | (4) MED BASE LED | |
| PL | PROGRESS #3649-3030K9 | 9W LED | ELEVATOR PIT LIGHT |
| R1 | ELITE # B51C-W-WH | (1) 75W PAR30 MAX | |
| R2 | WAC #HR2LEDT409P-F-830-WT | 14W, LED, 3000K | RECESSED IN HALLS |
| | | _ | |
| U | COLUMBIA #LRO4-35ML-EDU-GLR | 53W, LED, 3500K | SURFACE MOUNTED UTILITY LIGHT |
| WS1 | REJUVENATION #A9563-BD | (1)40W | CONFIRM MOUNTING HEIGHT W/ ARCH |
| WS2 | SCHOOLHOUSE, CYLINDER SCONCE, ANTIQUE BLACK, FROSTED BLUL | (1) 100W MAX | CONFIRM ROTORY OR PULL CHAIN ACTIVATION W/ ARCH |
| WS3 | | | |
| WS4 | TOM DIXON, TDXP92978 BEAT WALL SCONCE | (1) 25W E12 BASE | CONFIRM MOUNTING HEIGHT W/ ARCH |
| WS5 | SCHOOLHOUSE, ISAAC SCONCE | (1) 60W MAX, G16 | CONFIRM LONG OR SHORT ARM W/ ARCH |
| | | | |

NOTES:

HIGH PRESSURE SODIUM

THOUSAND VOLT-AMPS

LIGHTING CONTACTORS

LCP LATERAL CONTROL PIT

LED LIGHT EMITTING DIODE

THOUSAND WATTS (KILOWATT)

INSULATED CASE CIRCUIT BREAKER

THOUSAND AMP INTERRUPTING CAPACITY

HERTZ

JUNCTION BOX

1. 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.

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. OT INDICATES DUAL TECHNOLOGY

PIR INDICATED PASSIVE INFRARED TECHNOLOGY Sms 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,

 $\mathbb{S}_4\mathbb{S}_3$ 4=4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. SWITCH WITH PILOT LIGHT, SWITCH SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE

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

SRL REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX.

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

 \square_{0} \square SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, \square_{4} \square_{3} 3=3-WAY, 4=4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.

LC LIGHTING CONTACTOR

▼ 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

TELEPHONE BACK BOARD

W((P)) 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 FACE

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"AF

- 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 SB SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE

© CARBON MONOXIDE DETECTOR

SD DUCT SMOKE DETECTOR & TEST STATION

FD/SD 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 WIRED BY EC, VERIFY LOCATIONS WITH

SPRINKLER SYSTEM TAMPER SWITCH SPRINKLER CONTRACTOR.

MAGNETIC DOOR HOLD

PRINT TRUC SS ت پیر OGR OR

ANCIS

NOTES, ABBREVIATION SYMBOLS & LIGHT