

SYMBOL LEGEND

- POWER PANEL, 120/208V, 3PHS, 4WIRE
- ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- JUNCTION BOX - "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER
- LIGHTING FIXTURES- CAPITAL LETTERS DENOTE TYPE AS PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. DIAGONAL LINE INDICATES NIGHT LIGHT - UNSWITCHED
- DISCONNECT SWITCH - 250 VOLT- SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING PROVIDED AND INSTALLED BY E.C. - UNLESS OTHERWISE NOTED. 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 E.C. - UNLESS OTHERWISE NOTED.
- VARIABLE FREQUENCY DRIVE - PROVIDED BY M.C., INSTALLED AND WIRED BY E.C.
- 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 - ARROWS INDICATE QUANTITY OF CIRCUITS- NUMERALS DENOTE CIRCUIT NUMBERS
- BRANCH CIRCUIT WIRING SHALL CONSIST OF 2*12, 1*12G, 1/2" C UNLESS OTHERWISE NOTED. ASTERISK INDICATES #10 AWG FOR ALL CIRCUITS CONTAINED IN HOMERUN. DOUBLE ASTERISK INDICATES 2, *8 & 1, *10, 3/4" C PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ARTICLE 250.
- SINGLE POLE SWITCH, 120 VOLT, 20 AMP, SPEC. GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4 WAY, P-PILOT LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. PL - DENOTES PILOT LIGHT, SWITCHES SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- BURNER SAFETY SWITCH - PROVIDE WITH RED PLATE - MOUNTED 72" AFF
- SELF CONTAINED EMERGENCY LIGHTING UNIT W/2 HEADS DUAL-LITE (LED) MODEL L265-03L WITH REMOTE HEADS (2) - 65 WATTS FOR 90 MINUTES, 6V D.C.
- DUAL-LITE (LED) MODEL No. OCRDB-0603L AT DOORS (EXTERIOR)
- EXIT LIGHT FIXTURE - UNSWITCHED - DUAL-LITE *LX-U-R-W-E OR APPROVED EQUAL
- TEMPERATURE CONTROL PANEL - PROVIDED BY M.C. WIRED BY E.C.
- DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE - MOUNT 18" AFF. "R" DENOTES REFRIGERATOR, MOUNT 48" AFF.
- QUAD RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE - MOUNT 18" AFF.
- 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.
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE- 15A, 125V SPEC. GRADE GROUNDING TYPE
- RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- FIRE ALARM CONTROL PANEL
- FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8" AFF - NUMERAL DENOTES CANDELA RATING "MH" DENOTES MINIHORN, NO DESIGNATION EQUALS A 15cd.
- FIRE ALARM PULL STATION - MOUNT 48" AFF
- FIRE ALARM VISUAL STROBE ONLY - FLUSH MOUNT 6'-8" AFF NUMERALS DENOTE CANDELA RATINGS.
- CEILING MOUNTED (CL) FIRE ALARM VISUAL STROBE ONLY NUMERALS DENOTE CANDELA RATINGS.
- SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SMOKE DETECTOR, PHOTOELECTRIC TYPE- SYSTEM CONNECTED. "ER" - ELEV. RECALL
- SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE- W/ SOUNDER BASE- "SB" DENOTES SOUNDER BASE
- CARBON MONOXIDE DETECTOR, MODEL *....
- DUCT SMOKE DETECTOR & TEST STATION
- CABLE TV JUNCTION BOX "CTV" - SIZE AS REQUIRED BY CABLE TV CO.
- TV OUTLET LOCATION - CABLE AND JACKS BY E.C.
- TELEPHONE/DATA DUAL JACK LOCATION MOUNT 18" AFF - TWO CAT 6 CABLES BACK TO TBB.
- FLUSH FLOOR MOUNTED TELEPHONE/DATA DUAL JACK TWO CAT 6 CABLES BACK TO TBB.
- TELEPHONE JACK LOCATION MOUNT 18" AFF - ONE CAT 6 CABLE BACK TO TBB.
- WIFI ROUTER, ONE CAT 6 CABLE BACK TO TBB OR IT ROOM. "CL" DENOTES MOUNTED ABOVE CEILING, "W" DENOTES WALL MOUNTED AT 72" AFF
- TELEPHONE BACK BOARD
- PHOTOCCELL
- LIGHTING CONTACTOR
- TIMECLOCK
- SPRINKLER SYSTEM FLOW SWITCH - SUPPLIED BY SPRINKLER CONTRACTOR - WIRED BY E.C. VERIFY LOCATIONS WITH SPRINKLER CONTRACTOR.
- SPRINKLER SYSTEM TAMPER SWITCH - SUPPLIED BY SPRINKLER CONTRACTOR - WIRED BY E.C. VERIFY LOCATIONS WITH SPRINKLER CONTRACTOR.
- MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS: WT-2255 SENSOR & B120E-P POWER PACK OTHER COMMON SPACES: WT-605 SENSOR & B120E-P POWER PACK
- WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- SMOKE DAMPER
- FAN/LIGHT UNIT PROVIDED BY MECHANICAL CONTRACTOR WIRED AND LAMPED BY ELECTRICAL CONTRACTOR.
- RM - DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- RL - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
- RV - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED
- FWU - DENOTES FURNISHED WITH UNIT
- RELEASE PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR - FURN. W/ DOOR OPERATOR - WIRED BY E.C.
- DOOR RELEASE PUSHBUTTON
- INTERCOM PANEL IN UNIT
- DOOR ELECTRIC STRIKE
- INTERCOM PANEL AT RECEPTION
- CCTV MONITOR
- CLOSED CAPTION TELEVISION CAMERA

ABBREVIATIONS

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|-------|--|--------|--|
| 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 |
| EC | 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 |
| FWNR | FULL VOLTAGE, NON-REVERSING | 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 |
| HD | 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 | | |

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. PROVIDE PANELBOARDS AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER OR APPROVED EQUAL.
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 F.L.A.). SIZE IN THE FIELD IN ACCORDANCE WITH MFR. 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 ARTICLE 250.
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 - ARTICLE 406.9.
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 ADD TO MASTER AND DATE OBTAIN VALUES FROM ENGINEER.
23. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
24. PROVIDE LABELING AT SERVICE EQUIPMENT INDICATING THE LOCATION OF EMERGENCY/STANDBY GENERATORS.

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