

POWER SYMBOLS

- CIRCUIT BREAKER
- GROUND CONNECTION
- HOME RUN TO PANEL (CKT. NO. AS SHOWN)
- TRANSFORMER
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- 20 AMPERE, 120 VOLT DUPLEX RECEPTACLE, +18" AFF
- 20 AMPERE, 120 VOLT DUPLEX HOSPITAL GRADE RECEPTACLE, +18" AFF
- 20 AMPERE, 120 VOLT DOUBLE DUPLEX RECEPTACLE, +18" AFF
- 20 AMPERE, 120 VOLT DOUBLE DUPLEX HOSPITAL GRADE RECEPTACLE, +18" AFF
- 20 AMPERE, 120 VOLT SINGLE RECEPTACLE
- 20 AMPERE, 120 VOLT DUPLEX HOSPITAL GRADE GFCI RECEPTACLE
- 20 AMPERE, 120 VOLT DOUBLE DUPLEX HOSPITAL GRADE GFCI RECEPTACLE
- 20 AMPERE, 120 VOLT DUPLEX GFCI RECEPTACLE, +18" AFF
- OTHER POWER RECEPTACLE NEMA DESIGNATION AS NOTED
- MOTOR
- JUNCTION BOX
- POWER POLE CONNECTION TO MODULAR FURNITURE WHIP
- TRANSFORMER
- CIRCUIT BREAKER SIZED AS NOTED
- PANELBOARD NORMAL POWER
- PANELBOARD EMERGENCY POWER
- BUS DUCT AMPERE RATING AS NOTED
- FLOOR RECEPTACLE CONDUIT INSTALLED IN SLAB
- UNFUSED SAFETY SWITCH, RATING AS NOTED
- FUSED SAFETY SWITCH, RATING AS NOTED
- MAGNETIC MOTOR STARTER, RATING AS NOTED
- MANUAL TOGGLE OPERATED MOTOR STARTER
- ELECTRIC ACTUATED VALVE
- MOTOR CONTACTOR
- CONTACT NORMALLY OPEN
- CONTACT NORMALLY CLOSED
- SELECTOR SWITCH
- TEMPERATURE SWITCH
- PILOT LIGHT

LIGHTING SYMBOLS

- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE W/ EMERGENCY BATTERY BALLAST
- FLUORESCENT WALL MOUNTED FIXTURE
- FLUORESCENT PENDANT MOUNTED FIXTURE
- FLUORESCENT STRIP/WRAP FIXTURE
- EXTERIOR H.I.D. WALL-PACK
- ROUND RECESSED CEILING MOUNTED FIXTURE
- SURFACE MOUNTED FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- WALL SCONCE
- TRACK LIGHTING FIXTURE (TRACK MOUNTED FIXTURE TYPE MAY VARY)
- EMERGENCY LED EXIT SIGN
- COMBINATION EMERGENCY EXIT SIGN & LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
- EMERGENCY LIGHTING FIXTURE WITH DUAL LAMPS HEADS BATTERY AND CHARGER
- REMOTE EMERGENCY LIGHTING LAMP HEAD
- LIGHT SWITCH
 - P = PILOT LIGHT (WHERE NOTED)
 - 3 = 3-WAY (WHERE NOTED)
 - 4 = 4-WAY (WHERE NOTED)
- ULTRASONIC/INFRARED OCCUPANCY SENSOR
 - C = CEILING MOUNTED
 - W = WALL MOUNTED 48" AFF (TO TOP)
- TIME CLOCK
- LIGHTING CONTACTOR
- PHOTOCELL

FIRE ALARM SYMBOLS

- PULL STATION
- FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE (GENERAL EVACUATION)
- STROBE UNIT XX= CANDELA
- NON-SYSTEM STROBE UNIT
- MINI HORN UNIT
- SMOKE DETECTOR
- FIXED TEMP HEAT DETECTOR (135F OR 200F)
- FIRE ALARM CONTROL PANEL
- ANNUNCIATOR
- MASTER BOX
- DIGITAL COMMUNICATOR
- DUCT SMOKE DETECTOR
- REMOTE TEST STATION
- SPRINKLER TAMPER SWITCH
- SPRINKLER FLOW SWITCH
- SPRINKLER PRESSURE SWITCH
- MONITOR MODULE
- CONTROL MODULE
- NON-SYSTEM SMOKE DETECTOR STR = DENOTES INTEGRAL STROBE FOR H/C UNITS
- RED MASTER BOX LIGHT
- KNOX BOX, FBO
- HOOD EXT SYSTEM
- DOOR HOLDER
- SIGNAL POWER EXTENDER

SYSTEMS SYMBOLS

- TELEPHONE SYSTEM WALL JACK
- COMBINATION VOICE/DATA SYSTEM OUTLET
- COMBINATION VOICE/DATA SYSTEM OUTLET IN FLOOR BOX. FURNISH 1" CONDUIT IN SLAB
- CATV JACK
- SECURITY SYSTEM DOOR SWITCH
- ELECTRIC DOOR LOCK SET
- SECURITY SYSTEM CARD ACCESS PAD
- INTERCOM SYSTEM SPEAKER
- INTERCOM MASTER STATION
- CABLE TRAY
- PUSH BUTTON
- DOOR BELL

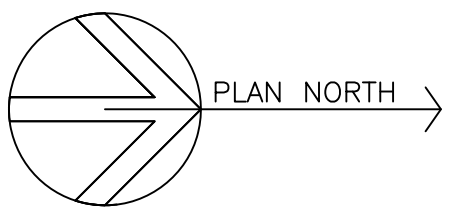
GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.
2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
3. UNLESS OTHERWISE NOTED, CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18 INCHES AFF AND LIGHTING TOGGLE SWITCHES 48 INCHES AFF.
4. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
5. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
6. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
7. DEVICE COVERPLATES SHALL BE THERMOPLASTIC NYLON TYPE WITH IVORY FINISH IN ALL FINISHED SPACES. MECHANICAL ROOMS, ELECTRICAL ROOM, AND UTILITY ROOMS SHALL BE FURNISHED WITH BRUSHED STAINLESS STEEL COVERPLATES.
8. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12 GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
9. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. PROPERLY SUPPORTED MC CABLE ASSEMBLIES MAY BE USED ABOVE CEILINGS AND IN WALLS. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM.

ABBREVIATIONS

| | | | |
|--------|----------------------------------|------|---------------------------------------|
| A | AMPERE | LV | LOW VOLTAGE |
| AC | ALTERNATING CURRENT | MCB | MAIN CIRCUIT BREAKER |
| AFF | ABOVE FINISHED FLOOR | MCC | MOTOR CONTROL CENTER |
| AFG | ABOVE FINISHED GRADE | MCP | MOTOR CIRCUIT PROTECTION |
| AIC | AMPERES INTERRUPTING CAPACITY | MH | METAL HALIDE |
| AL | ALUMINUM | EMH | ELECTRICAL MANHOLE |
| ASYM | ASYMMETRICAL | MLO | MAIN LUGS ONLY |
| ATS | AUTOMATIC TRANSFER SWITCH | MO | MECHANICALLY OPERATED |
| AUX | AUXILIARY | MOD | MOTOR OPERATED DAMPER |
| AWG | AMERICAN WIRE GAUGE | MTS | MANUAL TRANSFER SWITCH |
| BKR | BREAKER | MV | MERCURY VAPOR |
| C | CONDUIT | MVA | MEGAVOLT-AMPERE |
| CAB | CABINET | NC | NORMALLY CLOSED |
| CB | CIRCUIT BREAKER | NO | NORMALLY OPENED |
| CKT | CIRCUIT | OH | OVERHEAD |
| CT | CURRENT TRANSFORMER | OL | OVER LOAD |
| CU | COPPER | OOA | ON-OFF-AUTOMATIC |
| DC | DIRECT CURRENT | OSY | OUTSIDE STEM & YOKE VALVE (FA SYSTEM) |
| DISC | DISCONNECT | P | POLE |
| EG | EQUIPMENT GROUND | PB | PUSH BUTTON |
| EH | ELECTRICALLY HELD | PF | POWER FACTOR |
| EM | EMERGENCY | PH | PHASE |
| EMT | ELECTRICAL METALLIC TUBING | PNL | PANEL |
| EO | ELECTRICALLY OPERATED | PRI | PRIMARY |
| EPR | ETHYLENE PROPYLENE RUBBER | PT | POTENTIAL TRANSFORMER |
| EQUIP | EQUIPMENT | PVC | POLYVINYL CHLORIDE |
| EX | EXTERIOR | RGSC | RIGID GALVANIZED STEEL CONDUIT |
| FA | FIRE ALARM | RVSS | REDUCED VOLTAGE SOLID STATE |
| FC | FOOT-CANDLE | RSC | RIGID STEEL CONDUIT |
| FDR | FEEDER | RVAT | REDUCED VOLTAGE AUTO TRANSFORMER |
| FLUOR | FLUORESCENT | S | SIGNAL |
| FS | FLOW SWITCH (FA SYSTEM) | SEC | SECONDARY |
| FVNR | FULL VOLTAGE NON REVERSING | SHLD | SHIELDED CABLE |
| FVR | FULL VOLTAGE REVERSING | SW | SWITCH |
| GEN | GENERATOR | SWBD | SWITCHBOARD |
| GF | GROUND FAULT | SYM | SYMMETRICAL |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER | T | TELEPHONE |
| GND | GROUND | TR | TRANSFORMER |
| H | HAND HOLE | TBD | TO BE DETERMINED |
| HOA | HAND-OFF-AUTOMATIC | TD | TELEDIALER |
| HP | HORSE POWER | TDR | TIME DELAY RELAY |
| HPS | HIGH PRESSURE SODIUM | TEL | TELEPHONE |
| HV | HIGH VOLTAGE | TM | TELEMETRY |
| HZ | HERTZ | UG | UNDERGROUND |
| IG | ISOLATED GROUND | UT | UTILITY |
| IMC | INTERMEDIATE METAL CONDUIT | V | VOLT |
| INCAND | INCANDESCENT | VA | VOLT-AMPERE |
| JB | JUNCTION BOX | VFD | VARIABLE FREQUENCY DRIVE |
| KCMIL | THOUSAND CIRCULAR MILS | W | WATT |
| KV | KILOVOLT | WH | WATT HOUR |
| KVA | KILO VOLT-AMPERE | WP | WEATHERPROOF |
| KW | KILOWATT | XFMR | TRANSFORMER |
| KWH | KILOWATT HOUR | XLP | CROSS LINKED POLYETHYLENE |
| LPS | LOW PRESSURE SODIUM | XP | EXPLOSION PROOF |
| LTG | LIGHTING | | |
| LSW | LIGHT SWITCH | | |

ISSUE FOR CONSTRUCTION



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| <p>9/4/14</p> | <p>ROBERT J. FOSTER ARCHITECT 36 Groveside Road, Portland, Maine 04102 (207) 761-3822</p> | <p>Project Title</p> <p>U-HAUL MOVING & STORAGE</p> <p>425 MARGINAL WAY Portland, Maine</p> | <p>Drawing Title</p> <p>ELECTRICAL LEGEND, SYMBOLS & GENERAL NOTES</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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