

project name

Butler Payson
pine st.
state st.
portland, me

avesta housing

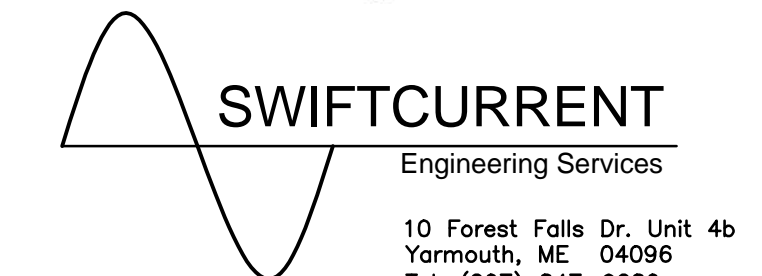
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ISSUED FOR PERMIT

revisions

date

Feb. 6, 2015

sheet title

ELECTRICAL LEGEND, SYMBOLS, & NOTES

scale: as shown

drawn by:JMD checked by:TDM

project number

BEO.O

POWER SYMBOLS

Table of power symbols including Circuit Breaker, Ground Connection, Home Run to Panel, Transformer, Current Transformer, Potential Transformer, 20 Ampere Duplex Receptacles, Motor, Junction Box, Power Pole Connection, Transformer, Circuit Breaker, Panelboard, Bus Duct, Floor Receptacle, Unfused Safety Switch, Fused Safety Switch, Magnetic Motor Starter, Manual Toggle Operated Motor Starter, Electric Actuated Valve, Motor Contactor, Contact Normally Open, Contact Normally Closed, Selector Switch, Temperature Switch, and Pilot Light.

LIGHTING SYMBOLS

Table of lighting symbols including Fluorescent Light Fixture, 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, Emergency LED Exit Sign, Combination Emergency Exit Sign & Lighting Fixture, Emergency Lighting Fixture, Remote Emergency Lighting Lamp Head, Light Switch, Ultrasonic/Infrared Occupancy Sensor, Time Clock, Lighting Contactor, and Photocell.

FIRE ALARM SYMBOLS

Table of fire alarm symbols including Pull Station, Fire Alarm Audible/Visible Notification Appliance, Strobe Unit, Mini Horn Unit, Smoke Detector, Fixed Temp Heat Detector, 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, Red Master Box Light, Knox Box, Hood Ext System, Door Holder, and Signal Power Extender.

SYSTEMS SYMBOLS

Table of systems symbols including Telephone System Wall Jack, Combination Voice/Data System Outlet, Security System Door Switch, Electric Door Lock Set, Security System Card Access Pad, Intercom System Speaker, Intercom Master Station, Cable Tray, Push Button, and 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 NM CABLE (ROMEX) 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

Table of abbreviations including AMPERE, ALTERNATING CURRENT, ABOVE FINISHED FLOOR, AMPERES INTERRUPTING CAPACITY, ALUMINUM, ASYMMETRICAL, AUTOMATIC TRANSFER SWITCH, AUXILIARY, AMERICAN WIRE GAUGE, BREAKER, CONDUIT, CUPPER, DIRECT CURRENT, DISCONNECT, EQUIPMENT GROUND, ELECTRICALLY HELD, EMERGENCY, ELECTRICAL METALLIC TUBING, ETHYLENE PROPYLENE RUBBER, EQUIPMENT, EXTERIOR, FIRE ALARM, FOOT-CANDLE, FEEDER, FLUORESCENT, FLOW SWITCH, FULL VOLTAGE NON REVERSING, FULL VOLTAGE REVERSING, GENERATOR, GROUND FAULT, GROUND FAULT CIRCUIT INTERRUPTER, GROUND, HAND HOLE, HAND-OFF-AUTOMATIC, HORSE POWER, HIGH PRESSURE SODIUM, HIGH VOLTAGE, HERTZ, ISOLATED GROUND, INTERMEDIATE METAL CONDUIT, INCANDESCENT, JUNCTION BOX, THOUSAND CIRCULAR MILS, KILOVOLT, KILO VOLT-AMPERE, KILOWATT, KILOWATT HOUR, LOW PRESSURE SODIUM, LIGHTING, LIGHT SWITCH, LOW VOLTAGE, MAIN CIRCUIT BREAKER, MOTOR CONTROL CENTER, MOTOR CIRCUIT PROTECTION, METAL HALIDE, ELECTRICAL MANHOLE, MAIN LUGS ONLY, MECHANICALLY OPERATED, MOTOR OPERATED DAMPER, MANUAL TRANSFER SWITCH, MERCURY VAPOR, MEGAVOLT-AMPERE, NORMALLY CLOSED, NORMALLY OPENED, OVERHEAD, OVER LOAD, ON-OFF-AUTOMATIC, OUTSIDE STEM & YOKE VALVE, POLE, PUSH BUTTON, POWER FACTOR, PHASE, PANEL, PRIMARY, POTENTIAL TRANSFORMER, POLYVINYL CHLORIDE, RIGID GALVANIZED STEEL CONDUIT, REDUCED VOLTAGE SOLID STATE, RIGID STEEL CONDUIT, REDUCED VOLTAGE AUTO TRANSFORMER, SIGNAL, SECONDARY, SHIELDED CABLE, SWITCH, SWITCHBOARD, SYMMETRICAL, TELEPHONE, TRANSFORMER, TO BE DETERMINED, TELEDIALER, TIME DELAY RELAY, TELEPHONE, TELEMETRY, UNDERGROUND, UTILITY, VOLT-AMPERE, VARIABLE FREQUENCY DRIVE, WATT, WATT HOUR, WEATHERPROOF, TRANSFORMER, CROSS LINKED POLYETHYLENE, EXPLOSION PROOF.