

ELECTRICAL SYMBOL LIST

LIGHTING SYMBOLS

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| | LIGHT FIXTURE, RECESSED |
| | LIGHT FIXTURE, RECESSED - EMERGENCY |
| | LIGHT FIXTURE, SURFACE MOUNT |
| | LIGHT FIXTURE, SURFACE MOUNT - EMERGENCY |
| | LIGHT FIXTURE, STRIP |
| | LIGHT FIXTURE, STRIP - EMERGENCY |
| | DOWNLIGHT FIXTURE, RECESSED |
| | DOWNLIGHT FIXTURE, RECESSED, WALLWASH |
| | DOWNLIGHT FIXTURE, RECESSED - EMERGENCY |
| | LIGHT FIXTURE, WALL MOUNT |
| | LIGHT FIXTURE, CEILING MOUNT |
| | RECESSED LIGHT FIXTURE, WALL MOUNT |
| | LIGHT FIXTURE, WALL MOUNT |
| | LIGHT FIXTURE, WALL SCONCE |
| | LIGHT FIXTURE, COVE - RECESSED |
| | LIGHT FIXTURE, COVE - SURFACE |
| | LIGHT FIXTURE, UNDER CABINET/SHELF |
| | EXIT SIGN, UNIVERSAL MOUNT, W/ DIRECTIONAL ARROW |
| | EXIT SIGN, WALL MOUNT, +8'-0" A.F.F. |
| | EMERGENCY LIGHT W/ BATTERY PACK, +8'-0" A.F.F. |
| | FLOOD LIGHT |
| | AREA LUMINAIRE, POST TOP |
| | AREA LUMINAIRE, BOLLARD |
| | AREA LUMINAIRE, WALL MOUNT |
| | AREA LUMINAIRE, POLE MOUNT |

SWITCH SYMBOLS

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| | SWITCH, SPST +48" A.F.F. |
| | SWITCH, DPST +48" A.F.F. |
| | SWITCH, 3-WAY +48" A.F.F. |
| | SWITCH, 4-WAY +48" A.F.F. |
| | SWITCH, MOMENTARY +48" A.F.F. |
| | SWITCH, DIMMER +48" A.F.F. |
| | SWITCH, SPST, W/PILOT LIGHT +48" A.F.F. |
| | SWITCH, 3-WAY, W/PILOT LIGHT +48" A.F.F. |
| | SWITCH, KEY-OPERATED +48" A.F.F. |
| | SWITCH, TIMED +48" A.F.F. |
| | EXISTING SWITCH, SPST |
| | PHOTOCELL CONTROL |
| | OCCUPANCY SENSOR CONTROL |

WIRING SYMBOLS

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| | PANEL & CIRCUIT NUMBER |
| | HOMERUN TO PANEL |
| | CONDUCTOR SIZE (IF OTHER THAN #12) |
| | PHASE CONDUCTOR |
| | NEUTRAL CONDUCTOR |
| | GROUND CONDUCTOR |
| | CONCEALED CONDUIT |
| | CONDUIT SIZE |
| | CONDUIT (UNDER SLAB OR FLOOR) |
| | FLEXIBLE CONNECTION |
| | CONDUIT, STUBBED & CAPPED |
| | NORMAL POWER CIRCUIT LINETYPE |
| | EMERGENCY POWER CIRCUIT LINETYPE |
| | EXISTING POWER CIRCUIT LINETYPE |

FIRE RATED INSTALLATION NOTE:
ELECTRICAL ITEMS (LIGHT FIXTURES, BOXES, ETC.) WHICH ARE RECESSED INTO FIRE-RATED CEILINGS OR WALLS, SHALL BE "ALCOVED" IN GYPSUM BOARD ENCLOSURES PER ARCHITECTURAL DETAILS, OR THE DEVICES SHALL BE "UL" LISTED WITH FIRE-RATING EQUAL TO OR GREATER THAN THE FIRE-RATING OF THE ADJACENT CONSTRUCTION.

1. SYMBOLS & ABBREVIATIONS MAY OR MAY NOT APPLY TO PROJECT
2. REFER TO LOW VOLTAGE DRAWINGS FOR ASSOCIATED SYMBOLS

POWER SYMBOLS

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| | RECEPTACLE, SINGLE +18" A.F.F. |
| | RECEPTACLE, DUPLEX +18" A.F.F. |
| | RECEPTACLE, QUAD +18" A.F.F. |
| | RECEPTACLE, DUPLEX +6" ABV COUNTER |
| | RECEPTACLE, DUPLEX +18" A.F.F. (ONE OUTLET SWITCHED) |
| | RECEPTACLE, DUPLEX +18" A.F.F. (BOTH OUTLETS SWITCHED) |
| | RECEPTACLE, DUPLEX, PEDESTAL MOUNT |
| | RECEPTACLE, DUPLEX, FLUSH FLOOR MOUNT |
| | RECEPTACLE, SPECIAL (COORDINATE WITH EQUIPMENT SERVED) |
| | RELAY |
| | TIME CLOCK CONTROL |
| | PUSHBUTTON STATION |
| | JUNCTION BOX |
| | JUNCTION BOX, EMERGENCY CIRCUIT |
| | THERMOSTAT |
| | TRANSFORMER |
| | DISCONNECT, NON-FUSED |
| | DISCONNECT, FUSED |
| | ELECTRICAL CONNECTION |
| | ELECTRICAL CONNECTION, SINGLE MOTOR |
| | ELECTRICAL CONNECTION, MULTI-MOTOR |
| | ELECTRICAL DISTRIBUTION PANEL, RECESSED |
| | ELECTRICAL DISTRIBUTION PANEL, SURFACE |
| | MISCELLANEOUS PANEL, RECESSED |
| | MISCELLANEOUS PANEL, SURFACE |
| | FLUSH FLOOR BOX (W/ DEVICES AS SHOWN ON PLAN) |
| | FIRE SMOKE DAMPER |

ONE-LINE DIAGRAM SYMBOLS

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| | ELECTRICAL DISTRIBUTION PANELBOARD (MLO) |
| | ELECTRICAL DISTRIBUTION PANELBOARD (MCB) |
| | SUB-FEED CIRCUIT BREAKER |
| | CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN) |
| | MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN) |
| | FUSE (RATING & CLASS AS INDICATED ON PLAN) |
| | TRANSFER SWITCH (MANUAL OR AUTOMATIC) |
| | GENERATOR (RATING AS INDICATED ON PLAN) |
| | TRANSFORMER (RATING AS INDICATED ON PLAN) |
| | FUSE (RATING & CLASS AS INDICATED ON PLAN) |
| | GROUND SYSTEM (SIZE AS INDICATED ON PLAN) |
| | WATER PIPE GROUND ELECTRODE |
| | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| | UTILITY METER & METER BASE |
| | UTILITY METER CURRENT TRANSFORMER |
| | FEEDER NO. (SEE FEEDER SCHEDULE) |
| | POTENTIAL TRANSFORMER (RATING AS INDICATED ON PLANS) |

ABBREVIATIONS

| | |
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| 'A' | LIGHT FIXTURE TYPE (SEE FIXTURE LIST) |
| A.F.F. | ABOVE FINISHED FLOOR |
| A.F.G. | ABOVE FINAL GRADE |
| A.F.I. | ARC FAULT INTERRUPTER |
| A.T.S. | TRANSFER SWITCH, AUTOMATIC |
| C | CONDUIT |
| C.O. | CONDUIT ONLY |
| CATV | CABLE TELEVISION |
| CB | CIRCUIT BREAKER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| C.T. | CURRENT TRANSFORMER |
| (E) | EXISTING |
| E.L. | EMERGENCY LIGHT |
| E.L.C. | EXTERIOR LIGHTING CONTROL |
| FACP | FIRE ALARM CONTROL PANEL |
| G.F.I. | GROUND FAULT INTERRUPTER |
| GND | GROUND |
| H.I.D. | HIGH INTENSITY DISCHARGE |
| HP | HORSEPOWER |
| I.G. | ISOLATED GROUND |
| I R | INFRARED |
| JB | JUNCTION BOX |
| LCP | LIGHTING CONTROL PANEL |
| MCB | MAIN CIRCUIT BREAKER |
| MLO | MAIN LUGS ONLY |
| M.T.S. | TRANSFER SWITCH, MANUAL |
| (N) | NEW |
| N.I.C. | NOT IN CONTRACT |
| N.L. | NIGHT LIGHT |
| OL | OVERLOAD |
| O.L.C. | OFFICE LIGHTING CONTROL |
| P | POLE |
| P.A. | PUBLIC ADDRESS |
| PC | PARTIAL CIRCUIT |
| PH | PHASE |
| PRI | PRIMARY |
| R.T.U. | REMOTE TELEMETRY UNIT |
| SEC | SECONDARY |
| SCCR | SHORT CIRCUIT CURRENT RATING |
| T.V.S.S. | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| U.G. | UNDERGROUND |
| U.O.N. | UNLESS OTHERWISE NOTED |
| VFD | VARIABLE FREQUENCY DRIVE |
| W | WIRE |
| W.G. | WIRE GUARD |
| W.P. | WEATHERPROOF |
| W.T. | WATERTIGHT |
| X.P. | EXPLOSION PROOF |

NOTATIONS

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| | DRAWING NOTE |
| | DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO. |
| | MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE) |
| | EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE) |
| | EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE) |
| | EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE) |
| | FIXTURE REFERENCE: TOP=TYPE, BOTTOM=LAMP QTY & WATTS |

GENERAL CONSTRUCTION NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR THOROUGHLY REVIEWING THE PLANS AND SPECIFICATION DOCUMENTS PRIOR TO THE START OF ANY WORK. ANY DISCREPANCIES IN THE PROJECT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY AND PRIOR TO THE START OF ANY WORK.

ALL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED AS IS STANDARD BUILDING PRACTICE.

ALL ELECTRICAL PLANS ARE DIAGRAMMATICAL AND THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES AND FIXTURES.

THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTATION AND COORDINATE WITH ALL OTHER TRADES THROUGHOUT THE COURSE OF THE PROJECT.

ALL WORK SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES. CONTRACTOR SHALL BE RESPONSIBLE TO BE INFORMED OF ALL SUCH CODES AS THEY APPLY TO THE SCOPE OF THE PROJECT.

GENERAL NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & NATIONAL CODES.
- C. CONTRACTOR SHALL REVIEW THE DIVISION 26 SPECIFICATIONS AND THE ENTIRE DRAWING PACKAGE FOR THIS PROJECT PRIOR TO THE START OF ANY WORK.
- D. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH ALL OTHER TRADES AND PROVIDE THE APPROPRIATE POWER CONNECTION(S) AND COORDINATE EXACT LOCATIONS PRIOR TO ROUGH IN.
- E. THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT OF ANY DISCREPANCIES DISCOVERED WITHIN THE DOCUMENTS.
- F. ALL PRODUCT SUBMITTALS AND SUBSTITUTIONS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY ORDERS.
- G. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- H. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR EXACT LOCATION(S) AND ELEVATIONS FOR FIXTURES & DEVICES.
- I. ELECTRICAL CONTRACTOR SHALL CONSULT ARCHITECTURAL AND INTERIOR DECORATOR'S PLAN DOCUMENTS SUCH AS INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ETC., FOR FIXTURE AND DEVICE DIMENSIONS NOT OTHERWISE NOTED ON THE ELECTRICAL PLANS.

GENERAL POWER NOTES:

- A. ELECTRICAL PANELS LOCATED IN PUBLIC OR UNSECURED SPACES SHALL BE PROVIDED WITH A LOCKABLE DOOR PANEL.
- B. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON INDUSTRY STANDARD PRODUCTS. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT WILL FIT THE SPACE AND MAINTAIN REQUIRED WORKING CLEARANCES.
- C. COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT AND CONDUCTORS REQUIREMENTS.
- D. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH PGE ELECTRICAL SERVICE REQUIREMENTS.
- E. THERE SHALL BE NO SURFACE MOUNTED DEVICES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- F. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- G. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- H. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ("T" SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.

GENERAL LIGHTING NOTES:

- A. REFER TO SHEET E1.21 & E1.22 FOR LIGHT FIXTURE SCHEDULES.
- B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- C. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- D. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- E. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, LIGHTING PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- F. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.
- G. REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/Common AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.
- H. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A LIGHTING FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL LIGHTING. REFER TO SWITCHING DETAILS ON SHEET E1.22.

STUDIO

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IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-110

DATE: 06/16/2021
PERMIT SET

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