

ELECTRICAL SYMBOL LIST

LIGHTING SYMBOLS

	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

	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

	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

	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

	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

'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

	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

REVISIONS

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SHEET:

E1.00

ELECTRICAL SYMBOL LIST

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