

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING AND NOTES
	TYPICAL LIGHTING SYMBOL NOTES: 1. UPPER CASE LETTER DENOTES FIXTURE TYPE, SEE FIXTURE SCHEDULE 2. LOWER CASE LETTER DENOTES SWITCHED LEG 3. SHADED FIXTURE SYMBOL INDICATES EMERGENCY LIGHT. 4. "NL" DENOTES NIGHT LIGHT CIRCUIT 5. FIXTURES MARKED WITH X INDICATE STUMBLE LIGHT.	
	CEILING OUTLET FOR INCANDESCENT, "PL" FLUORESCENT OR HIGH INTENSITY DISCHARGE DOWNLIGHT FIXTURE. SHADED FIXTURE SYMBOL INDICATES EMERGENCY LIGHT. FIXTURES MARKED WITH X INDICATE STUMBLE LIGHT.	SEE FIXTURE SCHEDULE.
	WALL OUTLET FOR INCANDESCENT, "PL" FLUORESCENT OR HIGH INTENSITY DISCHARGE DOWNLIGHT FIXTURE. SHADED FIXTURE SYMBOL INDICATES EMERGENCY LIGHT.	SEE FIXTURE SCHEDULE.
	CEILING OUTLET FOR 2'x4' FLUORESCENT FIXTURE. SHADED FIXTURE SYMBOL INDICATES EMERGENCY LIGHT.	SEE FIXTURE SCHEDULE.
	CEILING OUTLET FOR 2'x2' FLUORESCENT FIXTURE. SHADED FIXTURE SYMBOL INDICATES EMERGENCY LIGHT.	SEE FIXTURE SCHEDULE.
	CEILING OUTLET FOR 1'x4' FLUORESCENT FIXTURE. (SURFACE, RECESSED, WRAPAROUND, VANDAL-PROOF) SHADED FIXTURE SYMBOL INDICATES EMERGENCY LIGHT.	SEE FIXTURE SCHEDULE.
	CEILING OUTLET FOR FLUORESCENT FIXTURE. (PENDANT MOUNT, CHANNEL, INDUSTRIAL) SHADED FIXTURE SYMBOL INDICATES EMERGENCY LIGHT.	SEE FIXTURE SCHEDULE.
	CEILING OUTLET FOR SINGLE FACE EXIT LIGHT FIXTURE. ARROW INDICATES DIRECTION.	SEE FIXTURE SCHEDULE.
	CEILING OUTLET FOR DOUBLE FACE EXIT LIGHT FIXTURE. ARROW INDICATES DIRECTION.	SEE FIXTURE SCHEDULE.
	TYPICAL SWITCH SUFFIX LEGEND: 3 = 3-WAY 4 = 4-WAY OS = INTEGRAL OCCUPANCY SENSOR VS = VACANCY SENSOR K = KEYS LOWER CASE (a,b) = SWITCH LEG	
	SINGLE POLE SWITCH	44" AFF TO BOTTOM U.O.N.
	DIGITAL DIMMING SWITCH	44" AFF TO BOTTOM U.O.N.
	DIGITAL ON/OFF SWITCH	44" AFF TO BOTTOM U.O.N.
	CEILING OCCUPANCY SENSOR	SEE SPECIFICATIONS
	CEILING VACANCY SENSOR	SEE SPECIFICATIONS
	TYPICAL RECEPTACLE, OUTLET AND JUNCTION BOX SUFFIX LEGEND: EWC = ELECTRIC WATER COOLER EWH = ELECTRIC WATER HEATER GFI = GROUND FAULT INTERRUPTER EX = EXPLOSION PROOF UP = UP (CONDUIT) DN = DOWN (CONDUIT) E = EXISTING IG = ISOLATED GROUND O = OVEN R = RANGE MP = WEATHERPROOF PS = PAYPHONE STATION REF = REFRIGERATOR P = PEDESTAL	
	DUPEX RECEPTACLE (20A,120V), FLOOR	FLUSH FLOOR OUTLET
	DUPEX RECEPTACLE (20A, 120V).	M.H. 18" AFF TO CENTER U.O.N.
	COMBINATION DUPEX RECEPTACLE W/ DUPEX USB PORT (20A, 120V). HUBBELL MODEL #USB20X2X OR EQUAL.	M.H. 18" AFF TO BOTTOM OF THE DEVICE U.O.N.
	DUPEX RECEPTACLE (20A, 120V). ABOVE COUNTER. MOUNT HORIZONTALLY WHEN ABOVE COUNTERTOPS.	42" AFF, ABOVE COUNTER BACKSLASH U.O.N.
	DUPEX RECEPTACLE (20A, 120V). FLUSH WITH CEILING.	FLUSH WITH CEILING
	DOUBLE DUPEX RECEPTACLE (20A, 120V).	M.H. 18" AFF TO CENTER U.O.N.
	RANGE RECEPTACLE, 50A, 250V, ONE PHASE, FOUR WIRE.	4" AFF. U.O.N.
	DRYER RECEPTACLE, 30A, 250V, ONE PHASE, FOUR WIRE.	36" AFF. U.O.N.
	SPECIAL PURPOSE RECEPTACLE, AMPS, VOLTS AND WIRE AS NOTED.	M.H. 18" AFF TO CENTER U.O.N.
	JUNCTION OR OUTLET BOX, 4" SQUARE BOX U.O.N.	AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH, 30A, 3 POLE, U.O.N.	SEE SPECIFICATIONS
	FUSIBLE DISCONNECT SWITCH, AMPS/FUSE SIZE/NO. POLES AS NOTED.	SEE SPECIFICATIONS
	COMBINATION MAGNETIC MOTOR STARTER	SEE SPECIFICATIONS
	MOTOR, NUMERAL INDICATES HORSEPOWER	OTHER DIVISION
	ELECTRIC DUCT HEATER	BY OTHER DIVISION
	PANELBOARD, 120/208V, 3 PH., 4W	6'-6" AFF MIN. TO TOP
	TELEPHONE TERMINAL BOARD, AS NOTED	6'-6" AFF MIN. TO TOP
	RACEWAY RISER, UP OR DOWN AS NOTED.	SEE SPECIFICATIONS
	RACEWAY CONCEALED UNDER FLOOR, IN LAB OR BELOW GRADE	SEE SPECIFICATIONS
	RACEWAY CONCEALED WALL OR CEILING	SEE SPECIFICATIONS
	HOMERUN TO PANEL, LETTERS INDICATE PANEL, NUMBERS INDICATE CIRCUITS.	SEE SPECIFICATIONS
	EMERGENCY POWER OFF SWITCH WITH LEGEND PLATE IDENTIFYING IT AS "EMERGENCY POWER OFF."	M.H. 48" TO TOP, U.O.N.
	MECHANICALLY HELD 6 POLE CONTACTOR WITH 120V COIL CLEARING CONTACTS MOUNTED IN NEMA-1 ENCLOSURE ABOVE SUSPENDED CEILING.	MOUNTED ABOVE CEILING
	REFER TO LIKE NUMBERED KEY NOTES.	

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING AND NOTES
	"NOTONE" #LA52WH WITH C905 TRANSFORMER. MOUNT ON SINGLE GANG BOX WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PUSH BUTTONS DESIGNATED TONE 1 & 3 SHALL ACTIVATE DISTINCT MUSICAL TONES. PUSH BUTTON DESIGNATED TONE 2 SHALL ACTIVATE TWO-NOTE CHIME.	6" BELOW CEILING, U.O.N.
	KEY PAD FOR SECURITY GATE OPERATION	REFERENCE ARCHITECTURAL SITE PLAN
	TYPICAL FIRE ALARM DEVICE SUFFIX LEGEND: F = FLASHING STROBE LIGHT S = SUPPLY R = RETURN	
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR	CEILING, U.O.N.
	FIRE ALARM PHOTOELECTRIC DETECTOR, INSIDE DUCT.	DUCT
	FIRE ALARM MANUAL PULL STATION	48" AFF TO TOP, U.O.N.
	FIRE ALARM SYSTEM FAN OR AHU SHUTDOWN OR RUN RELAY	
	FIRE ALARM DUCT SMOKE DETECTOR TEST SWITCHES & LIGHTS. ONE PER SMOKE DUCT DETECTOR	48" AFF TO TOP, U.O.N.
	FIRE ALARM HORN/FLASHING STROBE LIGHT.	80" AFF TO TOP, U.O.N.
	FIRE ALARM HORN/FLASHING STROBE LIGHT. - LOW FREQUENCY.	80" AFF TO BOTTOM OF LENSE, U.O.N.
	FIRE ALARM WITH FLASHING STROBE LIGHT.	80" AFF TO TOP, U.O.N.
	FIRE ALARM CONTROL PANEL.	M.H. 6'-6" MIN. TO TOP
	FIRE ALARM WATER TAMPER SWITCH.	48" AFF TO TOP, U.O.N.
	FIRE ALARM WATER FLOW SWITCH.	48" AFF TO TOP, U.O.N.
	POWER RESET SWITCH WITH LEGEND PLATE IDENTIFYING IT AS "POWER RESET SWITCH."	M.H. 48" TO TOP, U.O.N.
	MECHANICALLY HELD 6 POLE CONTACTOR WITH 120V COIL CLEARING CONTACTS MOUNTED IN NEMA-1 ENCLOSURE ABOVE SUSPENDED CEILING.	MOUNTED ABOVE CEILING
	REFER TO LIKE NUMBERED KEY NOTES.	
	CARD/ PROXIMITY READER #44" A.F.F. BOTTOM, U.O.N.	44" A.F.F. BOTTOM, U.O.N.
	ELECTRIC LOCK (STRIKE, MAGNETIC LOCK OR LATCH RETRACTION) COORDINATE TYPE WITH DOOR HARDWARE SCHEDULE.	
	DOOR CONTACT	
	REQUEST TO EXIT INTEGRAL SWITCH IN ELECTRIC LATCH RETRACTION LOCK, MOTION SENSOR AND MANUAL PUSH BUTTON ON WALL AT MAGNETIC LOCK LOCATIONS. COORDINATE WITH DOOR LOCK SUPPLIER.	
	AUTOMATED DOOR ENTRY CONTROL PANEL AND ENCLOSURE. REFER TO MOUNTING DETAILS.	60" AFF TO TOP, U.O.N.
	CARBON MONOXIDE SENSOR AS MANUFACTURED BY EST. SENSOR SHALL BE TIED INTO THE BUILDING FIRE ALARM SYSTEM FOR MONITORING AND ALARM. COORDINATE SENSOR MOUNTING HEIGHT WITH MANUFACTURER REQUIREMENTS. SENSOR SHALL BE ADDRESSABLE DEVICE OR MONITORED BY ADDRESSABLE FIRE ALARM MODULE.	WALL, AS REQUIRED.

NOTE:
NOT ALL SYMBOLS SHOWN IN THIS LEGEND MAY NECESSARILY APPEAR IN THESE DOCUMENTS. ADDITIONAL SYMBOLS MAY BE DEFINED ELSEWHERE IN SPECIFIC DRAWINGS.

GENERAL NOTES ELECTRICAL

- DO NOT SCALE FROM THESE DRAWINGS.
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES TO ASSURE PROPER CLEARANCES FOR EQUIPMENT AND TO KEEP THE JOB PROGRESSING.
- ALL EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S).
- PROVIDE CEILING MOUNTED RED LED ALARM INDICATOR FOR EACH SMOKE DETECTOR MOUNTED IN PLENUM SPACE(S) OR CONCEALED AREAS.
- FROM EACH FLUSH MOUNTED PANELBOARD, STUB-OUT INTO CEILING CAVITY ABOVE, A 3/4" C. FOR EACH SET OF 3 - SPARES AND/OR SPACES OR FRACTIONS OF EITHER SET THEREOF.
- MOTOR CONTROL: REFER TO MECHANICAL DRAWINGS; FOR MOTORS INDICATED TO BE INTERLOCK, AS WELL AS, STARTERS, ETC. PROVIDED BY THE MECHANICAL CONTRACTOR.
- ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTIVE CEILING PLANS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.
- PROVIDE ADEQUATE POWER IN THE FIRE ALARM SYSTEM TO OPERATE ALL LIFE SAFETY SYSTEM AND E.M.C.S. CONTROL DEVICES.
- REFER TO DIVISION 15 DRAWINGS FOR LOCATIONS OF FIRE PROTECTION WATER FLOW AND TAMPER SWITCHES. PROVIDE/ COORDINATE WIRING REQUIREMENTS.
- WHERE NON-FUSED DISCONNECT IS NOT PROVIDED "WITHIN SIGHT" OF MOTOR (OR HEATER UNIT), FEEDER (AND/OR BRANCH CIRCUIT) OVER-CURRENT DEVICE SERVING SUCH MOTOR (OR HEATER) SHALL HAVE APPROVED "LOCKED-OFF" PROVISION.
- PROVIDE WALL SWITCHES IN EACH OFFICE/AREA TO CONTROL THE LIGHT FIXTURE(S) IN EACH OFFICE/AREA.
- REFERENCE MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE CONDUIT AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE EXIT SIGNAGE AT ALL EXITS AND AS REQUIRED.
- RECEPTACLES IN MECHANICAL ROOM, ELECTRICAL ROOMS, STORAGE ROOMS AND JANETTES CLOSETS TO BE MOUNTED 48" A.F.F. AND G.F.L.
- ALL EXTERIOR WIRING DEVICES TO BE WEATHERPROOF AND GROUND INTERLOCKING TYPE.
- REFER TO ARCHITECTURAL FLOOR PLANS FOR DIMENSIONAL LOCATIONS OF ALL EXTERIOR MOUNTED ELECTRICAL DEVICES.
- CONDUIT RUNS SHOWN ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZE AND LOCATING PULL BOXES PER NEC AND FOR COORDINATION WITH OTHER DISCIPLINES.
- ALL H.I.D. AND FLUORESCENT LIGHT FIXTURES SHALL BE FURNISHED WITH INTEGRAL BUSHING.
- COORDINATE EXACT LOCATIONS OF ALL ITEMS INSTALLED ON SITE WITH THE ENGINEER.
- COORDINATE ALL LOCATIONS OF RECEPTACLES AND SYSTEMS OUTLETS WITH IN ALL CASEWORK.
- USE 10 AWG OR CONDUCTORS FOR 20 AMPERE VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE 12 AWG OR CONDUCTORS FOR 20 AMPERE VOLT BRANCH CIRCUITS LONGER THAN 200 FEET.
- ALL CONDUCTORS SHALL BE STRANDED WIRE TYPE.

FUNCTIONAL TESTING NOTE

CONTRACTOR SHALL PROVIDE FUNCTIONAL TESTING OF THE LIGHTING CONTROL SYSTEM TO ENSURE COMPLIANCE WITH FECC C408.3

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