

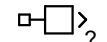
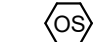



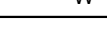

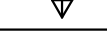
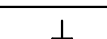
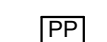

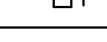
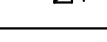

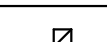


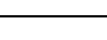
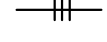
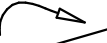
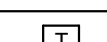





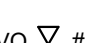
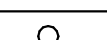
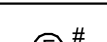
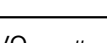
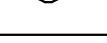
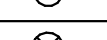
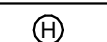

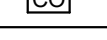
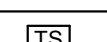

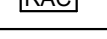
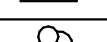
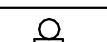
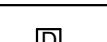
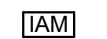
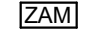
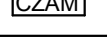
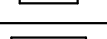
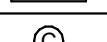
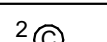

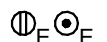


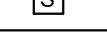
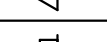
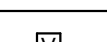




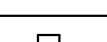
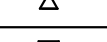
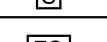




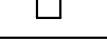
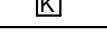

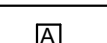




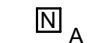
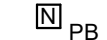
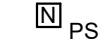
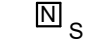
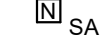
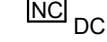

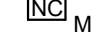
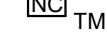
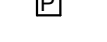
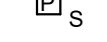

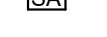







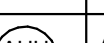




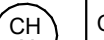
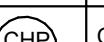

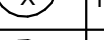


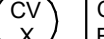
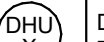
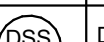

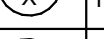



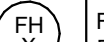
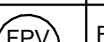




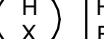

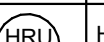

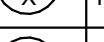




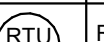
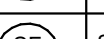
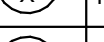







ELECTRICAL LEGEND	
NOTE:	NOT ALL DEVICES SHOWN ON THE LEGEND ARE USED ON THIS PROJECT
	LED LIGHT FIXTURE (UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCHING GROUP)
	LIGHT FIXTURE WITH EMERGENCY LAMP SOCKET
	INCANDESCENT, LED, FLUORESCENT OR H.I.D. LIGHT FIXTURE
	NORMAL-EMERGENCY LIGHT FIXTURE
	EMERGENCY ONLY LIGHT FIXTURE
	WALL SCONCE
	EXIT SIGN
	EMERGENCY BATTERY UNIT
	REMOTE HEAD
	DOUBLE REMOTE HEAD
	POLE-MOUNTED SITE LIGHT FIXTURE
S	SINGLE POLE SWITCH (LOWER CASE LETTER DENOTES GROUP TO BE SWITCHED)
S _D	DIMMER SWITCH
S _{LV}	LOW VOLTAGE SWITCH
S _T	CAPACITIVE TOUCH SCREEN LIGHTING CONTROL PANEL
S ₃	3-WAY SWITCH
S ₄	4-WAY SWITCH
S _F	FAN SWITCH
S _K	KEY SWITCH
S _M	MOMENTARY-CONTACT SWITCH
S _{OR}	OVERRIDE SWITCH
S _p	SWITCH WITH PILOT LIGHT
	OCCUPANCY SENSOR (CEILING-MOUNTED)
	DAYLIGHT SENSOR (CEILING-MOUNTED)
	OCCUPANCY SENSOR (WALL-MOUNTED)
	DUAL-TECH OCCUPANCY SENSOR (CORNER-MOUNTED)
	CORRIDOR OCCUPANCY SENSOR
	ULTRASONIC 360° OCCUPANCY SENSOR (CEILING-MOUNTED)
	EMERGENCY LIGHTING RELAY
	OCCUPANCY SENSOR CONTROL/ POWER PACK
	DIGITAL LIGHTING ROOM CONTROLLER
	DUPLEX CONVENIENCE OUTLET (CT DENOTES COUNTERTOP HEIGHT)
	DUPLEX OUTLET SUSPENDED FROM DROP CORD
	DUPLEX ISOLATED GROUND OUTLET
	DOUBLE DUPLEX (QUADRUPLEX) OUTLET
	QUADRUPLEX ISOLATED GROUND OUTLET
	SPECIAL PURPOSE OUTLET
	RANGE OUTLET, 50AMP 3 WIRE
	TELEPHONE OUTLET (POTS LINE)
	TELEPHONE OUTLET (PROVIDE (1) DATA DROP)
	WALL-MOUNTED TELEPHONE OUTLET (PROVIDE (1) DATA DROP)
	COMPUTER OUTLET (NUMBER DENOTES NUMBER OF JACKS, WHERE NO NUMBER IS SHOWN, PROVIDE TWO JACKS MINIMUM.)
	WIRELESS ACCESS POINT. PROVIDE TWO DATA DROPS IN CEILING OR ON WALL FOR EACH LOCATION INDICATED. FIELD COORDINATE TERMINATION PLATE TYPE WITH OWNER PROVIDED DEVICE REQUIREMENTS.
	AV INPUT/OUTPUT JACK
	FIBER CONNECTION
	FLAT-SCREEN INPUT/OUTPUT JACK
	TELEVISION CABLE OUTLET
	BLANK PLATE
	SMARTBOARD
	PROJECTOR PLATE
	FLOOR OUTLET - DUPLEX RECEPTACLE, TELEPHONE AND COMPUTER JACK
	MOTOR
	DISCONNECT SWITCH (FUSED OR NON-FUSED AS INDICATED ON DRAWING)
	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER/DISCONNECT
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	MOTOR STARTER
	FRACTIONAL MOTOR STARTER
	POWER POLE
	JUNCTION BOX
	PUSHBUTTON
	START/STOP STATION
	OVERHEAD DOOR OPERATOR (UP, DOWN AND STOP)
	WIRING CONCEALED ABOVE CEILING OR IN WALL. CROSS LINES INDICATE NUMBER OF #12 A.W.G. WIRES IN A 3/4" CONDUIT. GROUND WIRES ARE NOT SHOWN. NO CROSS LINES INDICATE (2)#12 A.W.G., (1)#12 A.W.G. GROUND IN A 3/4" CONDUIT.
	WIRING CONCEALED BELOW GRADE OR FLOOR
	CIRCUIT HOME RUN WITH CIRCUIT NUMBER INDICATED
	NORMAL-EMERGENCY OR EMERGENCY ONLY BRANCH CIRCUIT WIRING
	PLUGMOLD
	TRANSFORMER

	FIRE ALARM PULL STATION
	WALL-MOUNTED AUDIO/VISUAL FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	WALL-MOUNTED VISUAL-ONLY FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	FIRE ALARM BELL
	CEILING-MOUNTED AUDIO/VISUAL FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	CEILING-MOUNTED VISUAL-ONLY FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
	CEILING-MOUNTED AUDIO ONLY FIRE ALARM DEVICE.
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	SPRINKLER SYSTEM FLOW SWITCH (BY OTHERS)
	SPRINKLER SYSTEM TAMPER SWITCH (BY OTHERS)
	SPRINKLER SYSTEM PRESSURE SWITCH (BY OTHERS)
	RESCUE ASSISTANCE REMOTE CALL STATION
	RESCUE ASSISTANCE MASTER STATION/ANNUNCIATOR PANEL
	SPRINKLER SYSTEM ELECTRIC MOTOR GONG
	DOORBELL
	DOOR HOLDER - FIRE ALARM SYSTEM
	INDIVIDUAL ADDRESSABLE MODULE - FIRE ALARM SYSTEM
	ZONE ADDRESSABLE MODULE - FIRE ALARM SYSTEM
	CONTROL RELAY ZONE ADDRESSABLE MODULE - F/A SYSTEM
	REQUEST-TO-EXIT DETECTOR
	CLOCK, SPEAKER UNIT
	WALL MOUNTED CLOCK
	DOUBLE FACE CLOCK
	CORD REEL WITH 20A 120V OUTLET
	EXISTING DEVICES TO REMAIN
	MICROPHONE JACK - SOUND SYSTEM
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, WALL-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, WALL-MOUNTED)
	PUBLIC ADDRESS/ INTERCOM VOLUME CONTROL
	INTERCOM DOOR STATION
	INTERCOM MASTER STATION
	MOTION DETECTOR - SECURITY SYSTEM
	CEILING MOUNTED, 360° MOTION DETECTOR
	DOOR MAGNET CONTACT - SECURITY SYSTEM
	SECURITY CAMERA
	ALARM HORN - SECURITY SYSTEM
	ELECTRIC DOOR STRIKE
	CARD READER
	KEY PAD
	RESET KEYSWITCH STATION
	PUSH PLATE
	EMERGENCY OFF PUSH-BUTTON
	EMERGENCY KILLSWITCH
	GAS SOLENOID VALVE
	NURSE CALL DOME LIGHT, 'C' INDICATES CEILING MOUNTED
	NURSE CALL AUXILIARY STATION
	NURSE CALL CODE BLUE STATION
	CALL CANCEL BUTTON
	DUTY STATION
	EMERGENCY CALL STATION
	NURSE CALL PATIENT STATION W/ CODE BLUE AND STAFF ASSISTANCE
	NURSE CALL SINGLE PATIENT WALL-MOUNTED PUSH BUTTON STATION
	NURSE CALL PATIENT STATION W/ STAFF ASSISTANCE AND PILLOW SPEAKER
	NURSE CALL PATIENT STATION W/ STAFF ASSISTANCE
	NURSE CALL STAFF STATION W/ CODE BLUE
	NURSE CALL DECENTRALIZED MINI-MASTER TOUCH STATION
	NURSE CALL CONTROL STATION HEAD END
	NURSE CALL MASTER STATION
	NURSE CALL FULL SIZED MASTER STATION
	NURSE CALL PULL CORD STATION
	SLAVE SHOWER BATH STATION WITH PULL CORD
	NURSE CALL STAFF STATION
	NURSE CALL STAFF ASSISTANCE STATION

ELECTRICAL ABBREVIATIONS	
A/a	AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AFI	ARC FAULT INTERRUPTER RECEPTACLE
ARCH.	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
AV	AUDIOVISUAL
AWG.	AMERICAN WIRE GAUGE
BEPs	BUILDING ENTRANCE PROTECTORS
BKR.	BREAKER
CKT.	CIRCUIT
CLG.	CEILING
COND.	CONDUIT
CT	COUNTERTOP
DISC.	DISCONNECT
DN	DOWN
DWG.	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EM.	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWG	ELECTRIC WATER COOLER (PROVIDE GROUND FAULT PROTECTION)
EXIST./EX/E	EXISTING
F.A.	FIRE ALARM
G.C.	GENERAL CONTRACTOR
GEN.	GENERATOR
GFI	GROUND FAULT INTERRUPTER RECEPTACLE
GND.	GROUND
H.C.	HEATING CONTRACTOR
HD	HAND DRYER
HWH	HOT WATER HEATER
IDF	INTERMEDIATE DISTRIBUTION FRAME
MAX.	MAXIMUM
M.C.	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MIN.	MINIMUM
MTD.	MOUNTED
N/E	NORMAL EMERGENCY
P	POLE
P.C.	PLUMBING CONTRACTOR
PNL.	PANEL
POTS	PLAIN OLD TELEPHONE SERVICE
PTZ	PAN, TILT, ZOOM
S.F.	SQUARE FEET
SW.	SWITCH
TR	TAMPER RESISTANT
TYP.	TYPICAL
U/E	UNDERGROUND ELECTRIC
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
W/	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

EQUIPMENT TAG LEGEND	
NOTE:	NOT ALL TAGS SHOWN ON THE LEGEND ARE USED ON THIS PROJECT
	AIR-COOLED CHILLER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	AIR-COOLED CONDENSOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	AIR HANDLING UNIT - SUPPLIED AND INSTALLED BY H.C., AND INSTALLED BY H.C. FINAL CONNECTION BY E.C.
	AUTOMATIC TEMPERATURE CONTROL DAMPER - SUPPLIED AND INSTALLED BY H.C. FINAL CONNECTION BY E.C.
	BOILER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	BOOSTER FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONSOLE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONDENSATE PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	COOLING TOWER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONDENSING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	CONSTANT VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	DEHUMIDIFICATION UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	DUCTLESS SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC DUCT COIL - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	EXHAUST FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ELECTRIC RADIATION - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FUME HOOD - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FAN-POWERED VAV BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	FUEL TRANSFER PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	GAS FURNACE - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	GAS-FIRED UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HUMIDIFIER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	HEAT RECOVERY UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	INFRARED HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	MAKEUP AIR UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	PUMP - SUPPLIED AND INSTALLED BY OTHERS, FINAL CONNECTION BY E.C.
	PACKAGED THRU-WALL A/C UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	RETURN AIR FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	ROOFTOP UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	SUPPLY FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	UNIT VENTILATOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	VARIABLE AIR VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	WALL HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
	WATER SOURCE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.

ELECTRICAL GENERAL NOTES	
1.	UNLESS OTHERWISE INDICATED, WIRE SIZES SHALL BE AS FOLLOWS: 20A #12, 30A #10, 40A #8, 50A #6, 75A #4, 100A #1.
2.	LIGHTING LAYOUT IS DIAGRAMMATICAL. E.C. SHALL COORDINATE LIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER TRADES AND ADJUST AS REQUIRED.
3.	ALL ROOF AND EXTERIOR-MOUNTED, GROUND-FAULT RECEPTACLES SHALL HAVE LOCKABLE "IN-USE" WEATHERPROOF COVERS.
4.	E.C. SHALL REFER TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE THE ELECTRICAL DEVICE LOCATIONS. WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGHING IN.
5.	THE E.C. SHALL PROVIDE A 4" HIGH CONCRETE PAD UNDER ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT PROVIDED UNDER THE ELECTRICAL CONTRACT. THIS SHALL INCLUDE SWITCHBOARDS, EMERGENCY GENERATOR, AND OTHER ELECTRICAL FLOOR-MOUNTED EQUIPMENT. THE EQUIPMENT MOUNTED ON THE PADS SHALL CONFORM TO THE SEISMIC REQUIREMENTS.
6.	THE E.C. SHALL NOT INSTALL ANY CONDUITS WITHIN ANY OF THE ELEVATED FLOOR SLABS. ANY CONDUITS INSTALLED BELOW THE SLAB ON GRADE SHALL BE INSTALLED IN THE STONE BASE AND NOT WITHIN THE CONCRETE.
7.	GFI RECEPTACLES SHOWN ON DRAWINGS ARE NOT ALL INCLUSIVE. E.C. SHALL PROVIDE GFI RECEPTACLES IN KITCHEN, SERVING AREAS, AND WHERE LOCATED WITHIN 6FT OF SINK BASINS AS REQUIRED PER THE NEC. E.C. SHALL ALSO PROVIDE ALL ARC-FAULT, TAMPER RESISTANT, WEATHER-RESISTANT, AND GFI RECEPTACLES WHERE REQUIRED BY THE NEC FOR EACH RECEPTACLE LOCATION SHOWN ON THE DRAWINGS AND AS REQUIRED FOR BUILDING TYPE AND OCCUPANCY GROUP.
8.	THE E.C. SHALL INCLUDE IN THE ELECTRICAL BID FOR THE POST-CONSTRUCTION ADJUSTMENT OF THE OCCUPANCY SENSORS AS DIRECTED BY THE ARCHITECT OR OWNER. THIS SHALL INCLUDE ADJUSTMENT OF THE TIME AND SENSITIVITY OF THE DEVICES, ALSO INCLUDE THE COST TO RELOCATE (2) SENSORS UP TO 2' IN ORDER TO ELIMINATE FALSE TRIPPING OF THE SENSORS.
9.	DEVICE MOUNTING HEIGHTS AS FOLLOWS: RECEPTACLES 18" ABOVE FINISHED FLOOR TO CENTER OF BOX CT RECEPTACLES 3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPLASH SWITCHES 48" ABOVE FINISHED FLOOR TO TOP OF BOX FIRE ALARM PULL STATIONS THE OPERABLE PART (PULL HANDLE) OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" A.F.F. PANELS 54" TO CENTERLINE FIRE ALARM A/V UNITS UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED AUDIO/VISUAL OR VISUAL-ONLY DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" A.F.F.

OCCUPANCY SENSOR SCHEDULE					
SYMBOL	MANUFACTURER	MODEL #	COVERAGE AREA SQ. FT.	SENSOR TYPE	ADDITIONAL REMARKS
	WATTSTOPPER	WS-301	900	INFRARED	WALL MOUNTING
	WATTSTOPPER	DT-200	2000	DUAL TECHNOLOGY	WALL OR CEILING MOUNTING
	WATTSTOPPER	DT-300	1000	DUAL TECHNOLOGY	360° CEILING MOUNTING
	WATTSTOPPER	WT-225S	90 LINEAL FEET	ULTRASONIC	CEILING MOUNTED CORRIDOR SENSOR
	WATTSTOPPER	UT-35S-2	1000	ULTRASONIC	CEILING MOUNTED