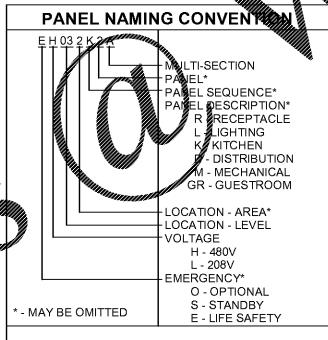


ELECTRICAL ABBREVIATIONS	
WHERE ABBREVIATIONS ARE USED IN THE DOCUMENTS AND NOT LISTED IN THE FOLLOWING, REFER TO ANSIEEE STANDARD 100 AND FOR MECHANICAL EQUIPMENT REFER TO THE MECHANICAL SYSTEMS ABBREVIATIONS SCHEDULE	
AC	ALTERNATING CURRENT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINIUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
CATV	COMMUNITY ACCESS TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CEILING
CO	CONDUIT ONLY
CNTL	CONTROL
CPU	CENTRAL PROCESSING UNIT
CU	COPPER
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
Δ	DELTA
DIM	DIMMER
DISC	DISCONNECT SWITCH
DN	DOWN
E	EMERGENCY
EC	EMPTY CONDUIT
EX	EXISTING
ER	EXISTING TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAP	FIRE ALARM EQUIPMENT PANEL
FDR	FEEDER
FL	FLOOR
F	FUSE OR FUSED
FVNR	FULL VOLTAGE NON-REVERSING
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GF	GROUND FAULT PROTECTION
GRC OR GRS	GALVANIZED RIGID STEEL CONDUIT
G OR GND	GROUND
H OR HT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HOA	HAND-OFF-AUTOMATIC
HZ	HERTZ
IG	ISOLATED GROUND
ISO	ISOLATED
J OR JB	JUNCTION BOX
K	KILO, THOUSAND
KCMIL	THOUSAND CIRCULAR MILLS
LED	LIGHT EMITTING DIODE
M	MOTOR
MA	MASTER ANTENNA TELEVISION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MAN HOLE
MLO	MAIN LUGS ONLY
MT	MOUNT
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OL	OVERLOAD
P	POLE
PC	PHOTOELECTRIC CONTROL
PNL	PANELBOARD
PT	POTENTIAL TRANSFORMER
PVC	POLY-VINYL CHLORIDE
R	RELAY
RA	RETURN AIR
RC	REMOTE CONTROL
RECPT	RECEPTACLE
REF	REFERENCE
RMS	ROOT MEAN SQUARE
SA	SUPPLY AIR
SFL	SUB FED LUGS
SPD	SURGE PROTECTIVE DEVICE
SYM	SYMMETRICAL
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELEPHONE BACKBOARD
TBD	TO BE DETERMINED
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERE
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE
Z	IMPEDANCE

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	NOTES (L-9)
\$	SINGLE POLE SINGLE THROW TOGGLE SWITCH	
\$\$	TWO SINGLE POLE SINGLE THROW TOGGLE SWITCHES AND BALLAST COMBINATION TO CONTROL OUTER LAMP(S) ON ONE SWITCH AND INNER LAMP(S) ON THE OTHER SWITCH	
\$	DOUBLE POLE SINGLE THROW TOGGLE SWITCH	
\$	THREE-WAY TOGGLE SWITCH	
\$	FOUR-WAY TOGGLE SWITCH	
\$	SINGLE POLE SINGLE THROW TOGGLE SWITCH WITH PILOT LAMP	
\$	SINGLE POLE SINGLE THROW KEYED TOGGLE SWITCH	
\$	SINGLE POLE SINGLE THROW PRESSURE TYPE TOGGLE SWITCH	
\$	LOW VOLTAGE SWITCH WITH OVERLOAD PROTECTION	
\$	MANUAL MOTOR RATED SWITCH WITH OVERLOAD PROTECTION	
\$	DIMMER SWITCH	
\$	THREE-WAY DIMMER SWITCH	
\$	INFRARED OCCUPANCY SENSOR WITH MANUAL ON/OFF SWITCH	
\$	ULTRASONIC OCCUPANCY SENSOR, WALL / CEILING MOUNTED	
\$	INFRARED OCCUPANCY SENSOR, WALL / CEILING MOUNTED	
\$	DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL / CEILING MOUNTED	
\$	DAYLIGHT HARVESTOR SENSOR, WALL / CEILING MOUNTED	
\$	OCCUPANCY SENSOR POWER PACK	
\$	SINGLE RECEPTACLE WALL / FLOOR / CEILING MOUNTED	
\$	DUPLEX RECEPTACLE WALL / FLOOR / CEILING MOUNTED	
\$	DOUBLE DUPLEX RECEPTACLE WALL / FLOOR / CEILING MOUNTED	
\$	ABOVE COUNTER RECEPTACLE SINGLE / DUPLEX / DOUBLE DUPLEX	
\$	SPLIT WIRE DUPLEX RECEPTACLE WALL / FLOOR / CEILING MOUNTED	
\$	SPECIAL PURPOSE RECEPTACLE WALL / FLOOR / CEILING MOUNTED	L-5
\$	BLANK FACE GFCI DEVICE, WALL MOUNTED	
\$	CLOCK OUTLET, RECESSED DUPLEX RECEPTACLE, WALL MOUNTED	
\$	JUNCTION BOX WALL / FLOOR / CEILING OR EQUIPMENT MOUNTED	
\$	POKE-THRU JUNCTION BOX	
\$	POWER POLE	
\$	DEDICATED CIRCUIT	L-7
\$	ARROWHEAD INDICATES HOMERUN. X-1,3,5 ADJACENT TO HOMERUN. ARROWHEADS INDICATES HOMERUN TO PANEL X. CIRCUIT NUMBERS 1,3, AND 5.	L-1,7,8
\$	INDICATES CIRCUIT CONTINUATION OF PANEL X CIRCUITS 3 AND 5	L-1,7,8
\$	RACEWAY INSTALLED CONCEALED IN WALL AND/OR ABOVE CEILING	
\$	RACEWAY INSTALLED CONCEALED IN SLAB, UNDER SLAB OR BELOW GRADE	
\$	RACEWAY INSTALLED EXPOSED	
\$	LOW VOLTAGE WIRING/RACEWAY	
\$	GROUND	
\$	FLEXIBLE RACEWAY (6"-0" MAX LENGTH)	
\$	CONDUIT UP / CONDUIT DOWN	
\$	CONDUIT TERMINATION (STUB-OUT)	
\$	CONDUIT CONTINUATION	
\$	BUS DUCT (SIZE/RATING AS NOTED)	
\$	MULTIPLE RACEWAY	
\$	CABLE TRAY	
\$	CABLE TRAY ELBOW AND 'T' CONNECTORS	
\$	HANDHOLE	
\$	MANHOLE	
\$	FLUORESCENT LIGHT FIXTURE, OVERHEAD / WALL MOUNTED	
\$	FLUORESCENT STRIP OR INDUSTRIAL LIGHT FIXTURE	
\$	LIGHT FIXTURE CEILING MOUNTED	
\$	LIGHT FIXTURE WALL MOUNTED	
\$	DIRECTIONAL OR WALL WASH LIGHT FIXTURE	
\$	EXIT SIGN INTERNALLY ILLUMINATED CEILING / WALL MOUNTED. PROVIDE ARROWS AND FACES AS INDICATED.	
\$	EGRESS AND/OR EMERGENCY LIGHT FIXTURE	
\$	TRACK LIGHT HEADS AND TRACK	
\$	STEP LIGHT	
\$	LANDSCAPE UPLIGHT FIXTURE	
\$	BOLLARD FIXTURE AND BASE	
\$	SINGLE HEAD POLE MOUNTED EXTERIOR SITE LIGHTING FIXTURE	
\$	DOUBLE HEAD POLE MOUNTED EXTERIOR SITE LIGHTING FIXTURE	
\$	QUADRUPLE HEAD POLE MOUNTED EXTERIOR SITE LIGHTING FIXTURE	
\$	FIRE ALARM CONTROL PANEL	
\$	FIRE ALARM ANNUNCIATOR PANEL	
\$	FIRE ALARM MANUAL PULLING STATION	
\$	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE, WALL / CEILING MOUNTED	
\$	FIRE ALARM VISUAL AND AUDIBLE NOTIFICATION APPLIANCE, WALL / CEILING MOUNTED	L-11
\$	FIRE ALARM VISUAL NOTIFICATION APPLIANCE, WALL / CEILING MOUNTED	L-10, 11
\$	Subscribes indicates future devices.	
\$	FIRE ALARM MINI HORN, WALL / CEILING MOUNTED.	
\$	FIRE ALARM BELL, WALL MOUNTED	
\$	HEAT DETECTOR, WALL / CEILING MOUNTED	
\$	CARBON MONOXIDE DETECTOR, WALL / CEILING MOUNTED	
\$	SMOKE DETECTOR, WALL / CEILING MOUNTED	
\$	SMOKE DETECTOR, RETURN AIR MOUNTED, REFER TO SPECS.	
\$	DUCT DETECTOR XX = OA, RA, or SA	
\$	MAGNETIC DOOR HOLDER AND RELEASE, WALL / HARDWARE MOUNTED	
\$	COMBINATION SMOKE DETECTOR AND MAGNETIC DOOR HOLDER AND RELEASE	
\$	FIRE COMMUNICATIONS TELEPHONE JACK	
\$	EMERGENCY CALL SYSTEM, ADA COMPLIANT INTERCOM SYSTEM	
\$	TAMPER SWITCH, WALL / CEILING MOUNTED	
\$	FLOW SWITCH, WALL / CEILING MOUNTED	
\$	LOW AIR PRESSURE ALARM, WALL / CEILING MOUNTED	
\$	DRY PIPE RELEASE ALARM, WALL / CEILING MOUNTED	

ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	NOTES	
FSD	FIRE SMOKE DAMPER POWER AND FIRE ALARM CONNECTION		
MOS	MOTOR OPERATED DAMPER POWER CONNECTION		
□	PANELBOARD (SIZE AS INDICATED ON PLANS)		
○	MOTOR		
60A/3R	NON-FUSIBLE DISCONNECT SWITCH, RATING / POLES / NEMA ENCLOSURE		
60A/3R/40A	FUSIBLE DISCONNECT SWITCH, RATING / POLES / NEMA ENCLOSURE / FUSE RATING		
□	EQUIPMENT AS INDICATED ON PLANS		
□	TIME CLOCK		
□	CONTACTOR		
□	VOICE OUTLET, WALL / FLOOR / ABOVE COUNTER	L-3,4	
□	DATA OUTLET, WALL / FLOOR / ABOVE COUNTER	L-3,4	
□	VOICE / DATA OUTLET, WALL / FLOOR / ABOVE COUNTER	L-3,4	
□	TELEVISION OUTLET, WALL / FLOOR / CEILING MOUNTED		
□	TELECOMMUNICATIONS BACKBOARD	L-6	
□	LOW VOLTAGE PUSH BUTTON		
□	AMMETER		
□	VOLTMETER		
□	DOORBELL CHIME		
□	DOORBELL CHIME AND STROBE		
□	PHOTOCELL, WALL / CEILING MOUNTED		
□	ROOM CONTROLLER, WALL / CEILING MOUNTED		
□	PLUG LOAD CONTROLLER		
□	GROUND BAR		

ELECTRICAL SYMBOL LEGEND NOTES	
L-1	EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.
L-2	UNLESS NOTED, MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTER OF THE DEVICE OR OUTLET ABOVE FINISHED GRADE OR FINISHED FLOOR.
L-3	FURNISH AND INSTALL 3/4" CONDUIT HOMERUNS TO NEAREST TELEPHONE BACKBOARD, UNLESS OTHERWISE INDICATED OR SPECIFIED.
L-4	FURNISH AND INSTALL 3/4" CONDUIT HOMERUNS TO NEAREST DATA SYSTEM BACKBOARD
L-5	SPECIAL PURPOSE RECEPTACLE, REFER TO DRAWING AND SPECIFICATIONS FOR DESCRIPTION.
L-6	TELEPHONE BACKBOARD TO BE PLYWOOD PAINTED WITH LOW SMOKE RELEASE PAINT. PROVIDE GROUND CONDUCTOR AND DOUBLE DUPLEX RECEPTACLE. REFER TO SPECIFICATIONS.
L-7	DEDICATED CIRCUITS SHALL NOT SHARE A COMMON GROUND OR NEUTRAL CONDUCTOR WITH NON-DEDICATED CIRCUITS. DEDICATED CIRCUITS SHALL BE INSTALLED IN INDIVIDUAL RACEWAY SYSTEMS. DEDICATED CIRCUIT HOMERUNS SHALL NOT BE COMBINED TO SHARE NEUTRAL OR GROUND CONDUCTORS.
L-8	NON-DEDICATED BRANCH CIRCUITS SHALL CONSIST OF ONE PHASE CONDUCTOR, NEUTRAL CONDUCTOR AND ONE GROUND CONDUCTOR. SINGLE PHASE HOMERUNS TO BE COMBINED INTO THREE PHASE (a,b,c) 5-WIRE HOMERUN. SEE DISCRESSION OF THE CONTRACTOR.
L-9	MOUNTING HEIGHT DIMENSIONS ARE AS INDICATED ON SPECIFICATIONS. CONFIRM WITH ARCHITECT AND/OR INTERIOR DESIGNER.
L-10	FOR FUTURE DEVICE, PROVIDE 4"x4" JUNCTION BOX AND 1/2" CONDUIT TO NEAREST FIRE ALARM DEVICE IN SAME UNIT.
L-11	VISUAL DEVICES LOCATED IN SLEEPING AREAS AND MOUNTED WITHIN 24" OF THE CEILING SHALL BE 177CD.



GRAPHICS LEGEND	
SYMBOL	DESCRIPTION
□	KEYNOTE
#	COLUMN REFERENCE GRID
---	MATCHLINE
⚡	CUT LINE
1	DRAWING TITLE
1/2	SCALE
1	DRAWING NUMBER
1/2	SHEET NUMBER
1/2	DRAWING NUMBER
1/2	SHEET NUMBER
☁	REVISION AREA
▲	REVISION DELTA

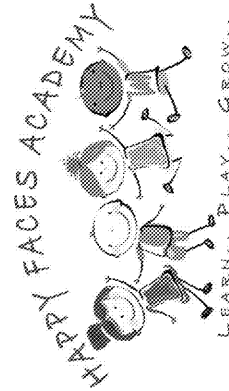
GENERAL NOTES	
1.	ALL SYMBOLS INDICATED IN LEGEND(S) MAY NOT NECESSARILY BE USED ON THIS PROJECT.
2.	THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. REVIEW ARCHITECTURAL DRAWINGS FOR DOOR SWINGS, CABINETS, COUNTERS, AND BUILT-IN EQUIPMENT; CONDITIONS INDICATED ON ARCHITECTURAL PLANS SHALL GOVERN. COORDINATE INSTALLATION OF ELECTRICAL EQUIPMENT WITH STRUCTURAL SYSTEM AND MECHANICAL EQUIPMENT AND ACCESS THERETO. COORDINATE INSTALLATION OF RECESS ELECTRICAL EQUIPMENT WITH CONCEALED DUCTWORK AND PIPING. REFER TO ARCHITECTURAL DRAWINGS AND/OR INTERIOR DESIGN DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS, AND STANDARD DETAILS. DO NOT SCALE.
3.	CAPITAL LETTERS BESIDE LIGHTING SYMBOL INDICATES FIXTURE TYPE. WHERE INDICATED ON DRAWINGS LOWER CASE LETTER INDICATES SWITCH LEG, DIMMER OR CONTROL DESIGNATION.
4.	NUMERAL BESIDE EQUIPMENT, DEVICE, OR OUTLETS INDICATES CIRCUIT CONNECTION.
5.	WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOMERUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT UNLESS OTHERWISE INDICATED.
6.	EXTEND THREE (3) EMPTY 1" CONDUITS FROM EACH FLUSH MOUNTED PANEL TO POSITION ABOVE ACCESSIBLE CEILING, IF APPLICABLE.
7.	PROVIDE OUTLET BOX FITTING FOR EACH DEVICE, SIZE TO ACCOMMODATE DEVICE AND CONDUCTORS.
8.	WALL SWITCHES CONTROLLING 277 VAC CIRCUIT OF OPPOSITE PHASES (OR 120VAC) SHALL NOT BE INSTALLED IN A COMMON BOX UNLESS A PERMANENT BARRIER IS PROVIDED.
9.	ALL CONDUITS PENETRATING ROOF SHALL BE SEALED. REFER TO ARCHITECTURAL DOCUMENTS AND DETAILS.
10.	ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE ATTACHED TO STRUCTURAL MEMBERS COORDINATE WITH STRUCTURAL DOCUMENTS.
11.	ROOF MOUNTED MECHANICAL EQUIPMENT SHALL HAVE POWER AND CONTROL RACEWAY ROUTED WITH EQUIPMENT ROOF CURB.
12.	DISCONNECT SWITCHES, MOTOR STARTERS, AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE A MAXIMUM OF ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY. CODE AND MANUFACTURER REQUIRED CLEARANCES SHALL BE MAINTAINED.
13.	ACCESS PANELS SHALL BE CONSOLIDATED TO MINIMIZE THE QUANTITY REQUIRED. COORDINATE LOCATION WITH ARCHITECTURAL DOCUMENTS. THE PROPOSED LOCATION OF ACCESS PANELS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.
14.	ALL CIRCUIT SHALL BE #12, 1#12G, 1#12G UNLESS NOTED OTHERWISE.
15.	TYPE MI (MINERAL INSULATED) CABLE SHALL BE FURNISHED WITH OUTER COPPER SHEATH, LISTED TO PROVIDE AN ADEQUATE PATH TO SERVICE AS AN EQUIPMENT GROUNDING CONDUCTOR.
16.	ALL DWELING UNIT ELECTRICAL PANELS AND 20" RECEPTACLES SHALL BE TAMPER-RESISTANCE TYPE AS REQUIRED BY NEC 406.12.

COORDINATION NOTES	
1.	REFER ALL SPECIFICATIONS AND DOCUMENTS FOR ELECTRICAL REQUIREMENTS AND LOCATION OF EQUIPMENT REQUIRING ELECTRICAL SERVICE. PROVIDE SERVICE TO AND MAKE CONNECTIONS TO ALL SUCH EQUIPMENT.
2.	REFER TO LIGHTING DESIGN, INTERIOR DESIGN, AND/OR LANDSCAPE DESIGN DOCUMENTS FOR ALL PUBLIC AREA AND EXTERIOR BUILDING LIGHTING REQUIREMENTS. PROVIDE QUANTITY OF BRANCH CIRCUITS AS REQUIRED TO SERVE LIGHTING. PROVIDE ALL SWITCHES, DIMMERS, DIMMING SYSTEMS, LOW VOLTAGE CONTROL STATIONS, CONTACTORS, EMERGENCY INTERFACE, ETC., FOR CONTROL OF LIGHTING AS REQUIRED.
3.	REFER TO MECHANICAL AND PLUMBING DOCUMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT POWER REQUIREMENTS. PROVIDE QUANTITY OF BRANCH CIRCUITS, SWITCHES, DISCONNECTS, STARTERS, ETC., FOR EQUIPMENT AS REQUIRED.
4.	REFER TO FIRE PROTECTION DRAWINGS FOR ALL DEVICE REQUIRING ELECTRIC SERVICE AND/OR FIRE ALARM INTERFACE. PROVIDE CONNECTIONS AS REQUIRED.

FLOOR BOX TAGS	
TAG	DESCRIPTION
P	POKE THRU - FLOOR BOXES
R	RAISED FLOOR - FLOOR BOXES
S	IN SLAB FLOOR BOXES
SS	SURFACE UNDER CARPET RACEWAY

JOB NUMBER: 19221
 CHECKED BY: Checker

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REVISIONS		
NO	DATE:	DESCRIPTION:

LEGENDS - ELECTRICAL

E0.1
 DATE 10/21/20

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