ABBREVIATIONS - ELECTRICAL

AFF	ABOVE FINISHED FLOOR	KVAR	KILOVOLT-AMPERE REACTIVE
ADA	AMERICANS DISABILITIES ACT	LA	LIGHTNING ARRESTOR
A	AMPERE (AMP)	LED	LIGHT EMITTING DIODE
AL	ALUMINUM	LRC	LIGHTING RELAY CONTROL PANEL
ARCH	ARCHITECT / ARCHITECTURAL	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
AWG	AMERICAN WIRE GAUGE	MATV	MASTER ANTENNA TELEVISION
C	CONDUIT	MAX	MAXIMUM
CAT	CATEGORY CABLE	MCA	MINIMUM CIRCUIT AMPACITY
CB	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION	MCC	MOTOR CONTROL CENTER
CKT	CIRCUIT	MDP	MAIN DISTRIBUTION PANEL
CLG	CEILING	MECH	MECHANICAL
CT	CURRENT TRANSFORMER	MH	METAL HALIDE
CU	COPPER	MIN	MINIMUM
DDC	DIRECT DIGITAL CONTROL	MLO	MAIN LUGS ONLY
DN	DOWN	MOCP	MAXIMUM OVERCURRENT PROTECTION
DW	DISHWASHER	MTS	MANUAL TRANSFER SWITCH
EM	EMERGENCY	MV	MEDIUM VOLTAGE
EMT	ELECTRICAL METALLIC TUBING	MW	MICROWAVE
EP	EXPLOSION PROOF	NAC	NOTIFICATION APPLIANCE CIRCUIT
EPO	EMERGENCY POWER OFF	NIC	NOT IN CONTRACT
EWC	ELECTRIC WATER COOLER	NL	NIGHT LIGHT CIRCUIT
FA	FIRE ALARM	PA	PUBLIC ADDRESS
FACP	FIRE ALARM CONTROL PANEL	PDZ	PRIMARY DAYLIGHT ZONE
FLA	FULL LOAD AMPS	PE	PHOTOELECTRIC CELL
FLUOR	FLUORESCENT	PF	POWER FACTOR
FCIC	FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR	PNL	PANELBOARD
		PVC	POLYVINYL CHLORIDE
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	PWR	POWER
		REF	REFRIGERATOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	SDP	SUB-DISTRIBUTION PANEL
		SDZ	SECONDARY DAYLIGHT ZONE
GD	GARBAGE DISPOSAL	STR	STARTER
GEN	GENERATOR	SV	SOLENOID VALVE
GFP	GROUND FAULT PROTECTION	SW	SWITCH
GFI	GROUND FAULT INDICATOR	TD	TIME DELAY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TAMPERPROOF
GRC	GALVANIZED RIGID CONDUIT	TTB	TELEPHONE TERMINAL BOARD
GND	GROUND	TTC	TELEPHONE TERMINAL CABINET
HP	HORSEPOWER	TV	TELEVISION
HPS	HIGH PRESSURE SODIUM	TYP	TYPICAL
HV	HIGH VOLTAGE	UG	UNDERGROUND
HZ	HERTZ	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	V	VOLTAGE
INC	INCANDESCENT	VA	VOLT-AMPERE
INV	INVERTER	VFD	VARIABLE FREQUENCY DRIVE
JB	JUNCTION BOX	VP	VAPORPROOF
KW	KILOWATT	W	WATTS
KWH	KILOWATT HOUR	WP	WEATHERPROOF
KV	KILOVOLT	XFMR	TRANSFORMER
KVA	KILOVOLT-AMPERE		

FIRE ALARM

- FS / TS — SPRINKLER SYSTEM SWITCH: FLOW, TAMPER
- F — MANUAL FIRE ALARM STATION
- I H P — DETECTOR: IONIZATION, HEAT, PHOTOELECTRIC
- B — B — DETECTOR: BEAM
- DUCT DETECTOR, TYPE AS NOTED
- F — FIREMANS PHONE JACK
- D / C — MAGNETIC DOOR HOLDER, CLOSER

WALL	CEILING	NOTIFICATION DEVICES
F	F	FIRE ALARM: VISUAL
F F	F F	FIRE ALARM: HORN; HORN W/VISUAL
S S	S S	FIRE ALARM: SPEAKER; SPEAKER W/VISUAL
F F	F F	FIRE ALARM: BELL; BELL W/VISUAL
C C	C C	FIRE ALARM: CHIME; CHIME W/VISUAL

POWER - SINGLE LINE DIAGRAM & RISER

- GFP — CIRCUIT BREAKER, WITH GROUND FAULT PROTECTION, DRAW OUT
- DISTRIBUTION SWITCHBOARD / PANELBOARD, WITH INTERNAL BUS
- UTILITY POLE
- PANEL NAME, MCB 225 — PANELBOARD; PANEL INCOMING DESIGNATOR: MLO UNLESS MARKED MCB; AMPACITY (AMPS)
- T — TRANSFORMER
- T T — SERVICE TRANSFORMER, WITH VAULT
- G — GENERATOR, AUTOMATIC TRANSFER SWITCH
- METER: UTILITY, BASIC, ADVANCED, POWER QUALITY
- TRANSDUCER: CURRENT, POTENTIAL (VOLTAGE), COMBINED
- SPD — SURGE PROTECTIVE DEVICE, PUSH BUTTON
- ELECTRICAL BUSWAY, BUSWAY PLUG-IN CIRCUIT BREAKER
- X / XX.XX — XXXX — FEEDER CONTINUATION CALLOUT, FEEDER TAG
- XX.XXX — CALCULATED AVAILABLE SHORT-CIRCUIT CURRENT
- FEEDER: DROP, RISE, CAP, BREAK, CONTINUATION
- SWITCH, FUSED SWITCH
- DISCONNECT, FUSED DISCONNECT
- MOTOR, MOTOR WITH CONTROLLER, MOTOR WITH STARTER
- PV ARRAY, INVERTER

ELECTRICAL EQUIPMENT DESIGNATION

E 4 L - 1 - 1A - A

POWER TYPE:
- BLANK - NORMAL POWER
- E - EMERGENCY POWER
- U - UNINTERRUPTIBLE POWER

VOLTAGE:
- 2 - 208Y/120V
- 4 - 480Y/277V
- 5 - 4160Y/2400V
- 15 - 12470Y/7200V

EQUIPMENT:
- D - MAIN DISTRIBUTION PANEL
- S - SUB DISTRIBUTION PANEL
- B - BUSWAY
- M - MOTOR CONTROL CENTER
- A - AUTOMATIC TRANSFER SWITCH
- P - POWER PANEL
- L - LIGHTING PANEL
- T - TRANSFORMER
- U - UPS
- LRC - LIGHTING RELAY CONTROL PANEL

BUILDING LEVEL:
- 0 - BASEMENT
- 1 - FIRST LEVEL
- 2 - SECOND LEVEL
- 3 - THIRD LEVEL
- 4 - FOURTH LEVEL
- ETC.

GRID LOCATION:
- 1A - NEAR INTERSECTION OF GRID LINES 1 AND A

IDENTIFIER:
- A - FIRST IN SERIES OF EQUIPMENT
- B - SECOND IN SERIES OF EQUIPMENT
- ETC.

POWER - PLANS

- WALL RECEPTACLE: DUPLEX, QUADPLEX
- G — SINGLE WALL RECEPTACLE, FACELESS GFCI REMOTE TEST BUTTON
- G — G — DENOTES GFCI
- W — W — DENOTES GFCI AND WEATHER PROOF
- * — * — DENOTES RECEPTACLE ABOVE COUNTER
- SPECIAL PURPOSE RECEPTACLE.
- CEILING RECEPTACLE: DUPLEX, QUADPLEX
- FB1 FB2 — FLUSH FLOORBOX RECEPTACLE. REFER TO SCHEDULE FOR QUANTITY AND TYPES OF DEVICES.
- PT1 PT2 — FLUSH POKE-THROUGH RECEPTACLE. REFER TO SCHEDULE FOR QUANTITY AND TYPES OF DEVICES.
- DENOTES SPLIT-WIRED, HALF SWITCHED / CONTROLLED VIA MANUAL CONTROL, MOTION CONTROL OR TIME-BASED CONTROL. SEE SPECIFICATIONS & PLANS.
- DENOTES FULL SWITCHED / CONTROLLED VIA MANUAL CONTROL, MOTION CONTROL OR TIME-BASED CONTROL. SEE SPECIFICATIONS & PLANS.
- FB3 FB4 — SWITCHED / CONTROLLED FLUSH FLOORBOX RECEPTACLE REFER TO SCHEDULE & PLANS FOR CONTROL INFORMATION.
- PT3 PT4 — SWITCHED / CONTROLLED FLUSH POKE-THROUGH RECEPTACLE REFER TO SCHEDULE & PLANS FOR CONTROL INFORMATION.
- FB1 X / PT1 X — LETTER DESIGNATOR:

E = EMERGENCY	IG = ISOLATED GROUND
U = UPS	P = SURGE PROTECTIVE DEVICE
S = STANDBY	A = AFCI
C = CRITICAL	B = WITH USB OUTLETS

- 2NP1:42. — DENOTES PANELBOARD AND CIRCUIT NUMBER.
- 42. — DENOTES CIRCUIT NUMBER. REFER TO SHEET GENERAL NOTES FOR PANELBOARD.
- PEDESTAL OUTLET: POWER & SIGNAL COMBINATION
- SURFACE OUTLET STRIP: DIMENSION AS SHOWN. SEE SPECIFICATIONS.
- 1,3,5 — 1,3,5 — POWER POLE, POWER, COMBINATION CIRCUITS AS INDICATED.
- JUNCTION BOX
- H 1,3,5 — JUNCTION BOX HOME RUN. CIRCUITS AS INDICATED.
- F 1,3,5 — JUNCTION BOX HOME RUN & FURNITURE FEED. CIRCUITS AS INDICATED.
- CONNECTION TO EQUIPMENT
- PUSH BUTTON STATION: SINGLE, DOUBLE
- ELECTRICAL EQUIPMENT
- PANELBOARD: SURFACE, RECESSED
- ENCLOSURE: SURFACE, RECESSED
- T — TRANSFORMER
- GROUND ROD, IN TEST WELL
- GROUND PAD

DESIGNATION SYMBOLS

- --- / 123 — EQUIPMENT DESIGNATOR SEE SCHEDULE.
- E / X — EXISTING TO REMAIN, EXISTING TO BE REMOVED
- R / F — EXISTING TO BE RELOCATED, FUTURE
- N — NEW, POINT OF CONNECTION
- 1 — NOTE

GENERAL NOTES:

A. THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

LIGHTING

EMERGENCY	NORMAL	
●	○	DOWNLIGHT RECESSED: ROUND, SQUARE
◗	◑	DOWNLIGHT RECESSED WALLWASH: ROUND, SQUARE
◗	◑	DOWNLIGHT RECESSED ADJUSTABLE: ROUND, SQUARE
✦	✧	DOWNLIGHT SURFACE: ROUND, SQUARE
✦	✧	DOWNLIGHT SURFACE WALLWASH: ROUND, SQUARE
✦	✧	DOWNLIGHT SURFACE ADJUSTABLE: ROUND, SQUARE
⌖	⌖	PENDANT
⌖	⌖	PENDANT WALLWASH
		LINEAR RECESSED
		LINEAR RECESSED WALLWASH
		LINEAR SURFACE
		LINEAR SURFACE WALLWASH
		LINEAR PENDANT
		LINEAR PENDANT WALLWASH
		LINEAR WALL MOUNTED
		LINEAR WALL MOUNTED ASYMMETRIC
		TAPE LIGHT (EM PER TAG)
		TRACK HEAD
		TRACK
		TRACK WITH CURRENT LIMITER
		TRACK SLOT
		LINEAR RECESSED MULTIHEAD
		STEPLIGHT
		SCONCE
		FLOOD LIGHT
		INGRADE: ROUND, SQUARE
		INGRADE ADJUSTABLE: ROUND, SQUARE
		FLOOR LAMP
		CATENARY
		EMERGENCY LIGHT
		EXIT SIGN TOP MOUNT (ARROWS PER DRAWING)
		EXIT SIGN BACK MOUNT (ARROWS PER DRAWING)
		EXIT SIGN SIDE MOUNT (ARROWS PER DRAWING)
●	■	BOLLARD: ROUND, SQUARE (ARROWS PER DRAWING)
✦	✧	PEDESTRIAN POLE: ROUND, SQUARE
		POLE: ROUND, SQUARE
CSXX		CONTROL STATION. REFER TO LIGHTING CONTROL STATION SCHEDULE.
$	$2	WALL SWITCH: 1 POLE, 2 POLE
$3	$4	WALL SWITCH: 3 WAY, 4 WAY
$K	$M	WALL SWITCH: KEY LOCK, MOMENTARY
$LV	$P	WALL SWITCH: LOW VOLTAGE, PILOT
$T	$D	WALL SWITCH: TIMER, MANUAL DIMMER
$OS	$OSD	WALL COMBINATION OCCUPANCY SWITCH, OCCUPANCY DIMMER
$VS	$VSD	WALL COMBINATION VACANCY SWITCH, VACANCY DIMMER
PE	PE	PHOTOELECTRIC CELL: WALL MOUNTED, CEILING MOUNTED
OS X	OS X H	OCCUPANCY SENSOR: WALL MOUNTED, CEILING MOUNTED
VS X	VS X L	VACANCY SENSOR: WALL MOUNTED, CEILING MOUNTED
		"X" DESIGNATES DEVICE TYPE:
		DUAL TECHNOLOGY UNLESS OTHERWISE NOTED:
U	R	U: ULTRASONIC R: INFRARED
L#		DESIGNATES LUMINAIRE TYPE (SEE LUMINAIRE SCHEDULE)
EM		DESIGNATES EMERGENCY CIRCUIT
LS	CR	DESIGNATES LIFE SAFETY CIRCUIT, CRITICAL CIRCUIT
a,b,c,d,e...etc		DESIGNATES STANDALONE CONTROL ZONE.
42.	PNL:42.	DESIGNATES LIGHTING CIRCUIT, PANEL:CIRCUIT.
Z###		DESIGNATES NETWORK CONTROL ZONE. REFER TO LIGHTING MASTER CONTROL STATION SCHEDULE.
		REFER TO ZONE SCHEDULE FOR CIRCUITING OF NETWORKED LIGHTING.

ELECTRICAL SHEET LIST

SHEET #	SHEET NAME
E-001	SYMBOLS, LEGENDS AND ABBREVIATIONS - ELECTRICAL
E-002	SYMBOLS, LEGENDS AND ABBREVIATIONS - ELECTRICAL
E-003	LUMINAIRE / EQUIPMENT CONNECTION SCHEDULES
E-010	SITE PLAN - ELECTRICAL
E-102	DEMO FLOOR PLANS - 1ST AND 2ND - ELECTRICAL
E-222	SCHEMATIC 2ND FLOOR PLAN - LIGHTING
E-225	SCHEMATIC 1ST FLOOR PLAN - ELECTRICAL
E-226	SCHEMATIC 2ND FLOOR PLAN - ELECTRICAL
E-227	SCHEMATIC ATTIC PLAN - ELECTRICAL
E-701	DIAGRAMS - ELECTRICAL
E-801	PANEL SCHEDULES
Grand total: 11	

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Oregon State University

REGISTERED PROFESSIONAL ENGINEER — OREGON — 93864PE — SEPT. 11, 2018 — ROBERT A. MILLS — 02/13/24

EXPIRES: 12/31/2024

REVISIONS TO THIS SHEET

REV.	DATE	DESCRIPTION

SET ISSUE	DATE
BP	2024.02.09
100% DD	2023.12.15
100% SD	2023.10.28

PROJECT TRACKING

RBA #: 2327
P.I.C:
PM / PA:

Owner
OSU FRC

Project Name
AZALEA EARLY CHILDHOOD CENTER

Project Address
1050 SW MADISON AVE, CORVALLIS OR 97333

SYMBOLS, LEGENDS AND ABBREVIATIONS - ELECTRICAL

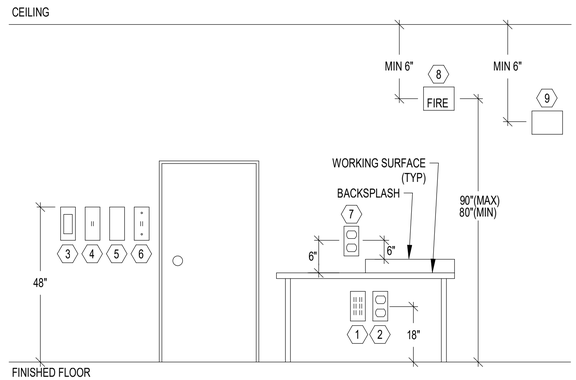
E-001

2/13/2024 4:44:10 PM

TELECOMMUNICATIONS

	OUTLET TYPE: DATA
	OUTLET TYPE: COMBINATION TELEPHONE/DATA
	OUTLET TYPE: TELEPHONE
	OUTLET TYPE: FIBER OPTIC CABLE
E,W,#	OUTLET DESIGNATORS: "E" EQUIPMENT OUTLET, "W" TELEPHONE OUTLET WITH MOUNTING STUDS, "#" QTY OF CABLES. TYPICAL ALL OUTLETS: PROVIDE TWO (2) CABLES PER OUTLET (UON)
	OUTLET MOUNTING: WALL, ABOVE COUNTER, CEILING
CD	OUTLET MOUNTING: CORD-DROP
FB#	OUTLET MOUNTING, FLUSH FLOORBOX: REFER TO SCHEDULE FOR TYPES OF DEVICES.
PT#	OUTLET MOUNTING, FLUSH POKE-THROUGH: REFER TO SCHEDULE FOR TYPES OF DEVICES. TYPICAL ALL FLOORBOXES/POKE-THROUGHS: SEE ELECTRICAL DRAWINGS FOR COMBINED SERVICE REQUIREMENTS.
	DATA OUTLET FOR WIRELESS ACCESS POINT: WALL, POLE MOUNT, CEILING.
TV D	CATV/MATV OUTLET: COAXIAL ONLY, COMBINATION COAX/DATA
E	EMERGENCY TELEPHONE
IMS/ICS	INTERCOM: "IMS" MASTER STATION, "ICS" CALL STATION
ACU/ACS	AREA OF RESCUE: "ACU" COMMAND UNIT, "ACS" CALL STATION

DEVICE MOUNTING HEIGHTS



GENERAL NOTES:

A. LOCATE ALL FIRE ALARM DEVICES PER CODE.

B. LOCATE ALL ACCESSIBLE SWITCHES PER ADA GUIDELINES.

C. FIELD COORDINATE ALL ABOVE COUNTER DEVICES WITH MILLWORK CONTRACTOR.

D. IF APPLICABLE, TELECOM CONSULTANTS' DRAWINGS TAKE PRECEDENCE OVER THIS DETAIL FOR TELECOM DEVICES.

E. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES. WHERE NO ELEVATION EXISTS, REFER TO TYPICAL MOUNTING HEIGHTS IN THIS DETAIL.

NOTES:

1. TELECOM OUTLET.
2. RECEPTACLE.
3. FIRE ALARM PULL STATION.
4. LIGHT SWITCH / CONTROL STATION.
5. CARD READER.
6. WALL PHONE.
7. ABOVE COUNTER DEVICE. MAINTAIN A CONSISTENT HEIGHT THROUGHOUT SPACE.
8. FIRE ALARM STROBE.
9. OCCUPANCY SENSOR.

ELECTRICAL FLOOR DEVICE SCHEDULE

NOTES:
1. COORDINATE WITH FLOOR FINISH TYPE AND DEFER TO ARCHITECTURAL FOR FINISH INFORMATION.

TYPE	DESCRIPTION	TOTAL GANGS	BASIS OF DESIGN PRODUCT	POWER REQUIREMENTS	POWER CONDUITS	DATA/AV REQUIREMENTS	DATA/AV CONDUITS	STRUCTURAL FLOOR TYPES	FINISH AND DETAILS	FIRE RATING	SLAB ON-GRADE PAN/KIT	NOTES
PT1	FLUSH SURFACE-STYLE POWER AND DATA POKE-THROUGH	2	WIREMOLD RC-3 OR APPROVED EQUAL	(1) DUPLEX RECEPTACLE	(1) 1" C	(1) GANG - DATA/AV	(1) 1" C	CONCRETE	NOTE 1	2-HOUR	N/A	-

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RBA #: 2327
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Owner
OSU FRC

Project Name
AZALEA EARLY CHILDHOOD CENTER

Project Address
1050 SW MADISON AVE, CORVALLIS OR 97333

SYMBOLS, LEGENDS AND ABBREVIATIONS - ELECTRICAL

E-002

2/13/2024 4:44:12 PM

Mechanical Equipment Connection Schedule

EQUIPMENT DESCRIPTION				ELECTRICAL CHARACTERISTICS						CONNECTION CHARACTERISTICS							PANEL	SCCR
EQUIPMENT TAG										CONTROL		DISCONNECT						
TYPE	NO.	DESCRIPTION	LOCATION	HP	KVA	FLA	MOCP	VOLTS	PHASE	DIVISION	TYPE/SIZE	DIVISION	SIZE/FUSE	CONDUIT	PHASE CONDUCTORS	GROUND CONDUCTORS		AVAILABLE FAULT (AMPS)
FCU	101	FAN COIL UNIT	LEVEL 1			.63	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	102	FAN COIL UNIT	LEVEL 1			.63	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	103	FAN COIL UNIT	LEVEL 1			.63	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	104	FAN COIL UNIT	LEVEL 1			.63	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	105	FAN COIL UNIT	LEVEL 1			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	106	FAN COIL UNIT	LEVEL 1			.63	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	107A	FAN COIL UNIT	LEVEL 1			.63	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	107B	FAN COIL UNIT	LEVEL 2			.63	16	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	108	FAN COIL UNIT	LEVEL 1			.63	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	201	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000
FCU	202	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000
FCU	203	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000
FCU	204	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	205	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	206	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	207	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	208	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	209	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	210	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
FCU	211	FAN COIL UNIT	LEVEL 2			.24	15	208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000
FCU	212	FAN COIL UNIT	ATTIC			4.38	15	208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000
FCU	213	FAN COIL UNIT	ATTIC			4.38	15	208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000
FCU	214	FAN COIL UNIT	LEVEL 2 IDF			.63	15	208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000
OU	101A	VRF HEAT PUMP MODULE 1	LEVEL 1			66	110	208	3					1 1/2"	1 AWG	6 AWG	2MDP	16,447
OU	101B	VRF HEAT PUMP MODULE 2	LEVEL 1			66	110	208	3					1 1/2"	1 AWG	6 AWG	2MDP	16,447
HRV	2	HEAT RECOVERY VENTILATOR	ATTIC			7	15	208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
HRV	3	HEAT RECOVERY VENTILATOR	ATTIC			7	15	208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000
BC	201	VRF BRANCH CONTROLLER	ATTIC			1.57		208	1					3/4"	12 AWG	12 AWG	PANEL C	<5,000
BC	202	VRF BRANCH CONTROLLER	ATTIC			.38		208	1					3/4"	12 AWG	12 AWG	PANEL D	<5,000

GENERAL NOTES:

A. REFER TO ONE-LINE DIAGRAM OR PANEL SCHEDULES FOR OVERCURRENT PROTECTION CHARACTERISTICS AND CIRCUIT NUMBERS

B. COORDINATE ALL EQUIPMENT CONNECTION REQUIREMENTS WITH INSTALLING CONTRACTOR PRIOR TO THE INSTALLATION OF ANY ELECTRICAL WORK. PROVIDE FIELD WIRING BETWEEN STARTERS, DISCONNECTS, VFDS AND OTHER APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM, PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

C. VFD'S ARE FURNISHED BY DIVISION 23. INSTALL VFD AND PROVIDE LINE AND LOAD SIDE FEEDERS IN ELECTRICAL WORK.

D. LOCATE COMBINATION STARTER/DISCONNECTS AND DISCONNECT SWITCHES WITHIN SIGHT OF AND ADJACENT TO EQUIPMENT SERVED. COORDINATE DISCONNECT INSTALLATION AND LOCATION WITH EQUIPMENT INSTALLER.

E. NOT ALL EQUIPMENT IDENTIFIED HERE IS SHOWN ON FLOOR PLANS. REFER TO DRAWINGS IN OTHER DISCIPLINES FOR EQUIPMENT LOCATIONS

LIGHTING DEVICE SCHEDULE	
TYPE	COMMENTS
CS1	SINGLE ZONE ON/OFF CONTROL STATION WITH DIMMING FOR USE WITH DEDICATED ROOM CONTROLLER. CONTROL STATION TO CONTROL ALL LUMINAIRES IN SPACE.
CS2	TWO-ZONE ON/OFF CONTROL STATION WITH DIMMING FOR USE WITH DEDICATED ROOM CONTROLLER. PROVIDE A DEDICATED BUTTON AND DIMMING CONTROLS FOR EACH ZONE. ZONES INDICATED ON DRAWINGS WITH LOWER CASE LETTERS.

LUMINAIRE SCHEDULE

NOTES:
1. REFERENCE ARCHITECTURAL DRAWINGS AND DETAILS FOR INSTALLATION INFORMATION.-
2. REMOTE DRIVER(S) NOT SHOWN FOR CLARITY. LOCATE IN A CONCEALED LOCATION WITH ADEQUATE VENTILATION AND ACCESS FOR MAINTENANCE. PROVIDE SECONDARY WIRING RUNS UPSIZED FOR VOLTAGE DROP ON ACCORDANCE WITH MANUFACTURER REQUIREMENTS.

FIXTURE TYPE	PRODUCT DESCRIPTION	BASIS OF DESIGN MANUFACTURER(S)	SIZE	LIGHT SOURCE	INPUT WATTS	POWER SUPPLY	VOLTAGE	FINISH	MOUNTING	MOUNTING HEIGHT	ALTERNATE MANUFACTURER(S)	NOTES
L1A	PENDANT LINEAR DIRECT LOW GLARE OPTICS, INDIRECT BATWING OPTICS	ALW; LPX2 SERIES	2 1/4" W x 4'-0" L x 3 1/4" H	3500K, 80CRI, LED, DIRECT 750 lm/LF, INDIRECT 350 lm/LF	9 W/LF	0-10V DIMMING TO 1% INTEGERAL DRIVER	120V	BY ARCHITECT	SUSPENDED	7'-0" TO BOTTOM OF FIXTURE AFF		
L1B	WALL MOUNT LINEAR	ALW; LPX2 SERIES	2 1/4" W x SEE PLANS FOR LENGTH x 3 1/4" H	3500K, 80CRI, LED, DIRECT 350 lm/LF, INDIRECT 500 lm/LF	7 W/LF	0-10V DIMMING TO 1% INTEGERAL DRIVER	120V	BY ARCHITECT	WALL MOUNTED	6'-0" TO BOTTOM OF FIXTURE AFF		
L2	SURFACE MOUNT LINEAR STRIP WITH FROSTED ROUND LENS	COOPER METALUX SNX	3.5"H x 3"D x 4'L	3500K, 80CRI, LED, 3848lm lm/LF	7 W/LF	0-10V DIMMING TO 10% INTEGERAL DRIVER	120V	BY ARCHITECT	SURFACE WALL			
L3	SURFACE MOUNTED EXTRUDED ALUMINUM LED TAPE AND CHANNEL CONCEALED IN CASEWORK, POLYCARBONATE FROSTED LENS, SMALL PROFILE, HIGH PERFORMANCE LED STRIP	LUMINII KENDO 45M ROUND	0.75"W x 0.75" H x LENGTHS PER PLAN	3500K, 80CRI, LED, 400 lm/LF	4 W/LF	0-10V DIMMING TO 1% REMOTE DRIVER	120V	BY ARCHITECT	CASEWORK			1, 2
L10	DECORATIVE BELL SHAPED PENDANT	MUUTO GRAIN	8.25"DIA x 7.3"H	3000K, 90CRI, LED, 260 lm	3 W	TRIAC DIMMING TO 10%	120V	BY ARCHITECT	SUSPENDED	6'-0" TO BOTTOM OF FIXTURE AFF		1
L11A	RECESSED DOWNLIGHT WITH WIDE 75 DEGREE BEAM, SEMI SPECULAR CLEAR FINISH	COOPER/ HALO COMMERCIALI; HM4 SERIES	6" DIA x 5 1/2" D	3500K, 80CRI, LED, 1000 lm	10 W	0-10V DIMMING TO 1% INTEGERAL DRIVER	120V	BY ARCHITECT	RECESSED			
L12	SURFACE MOUNTED DOWNLIGHT	BETA CALCO TIMPANI ROUND	18"DIA x 4"H	3500K, 80CRI, LED, 1700LM lm	18 W	0-10V DIMMING TO 1% INTEGERAL DRIVER	120V	BY ARCHITECT	SURFACE CEILING			
L20	DECORATIVE WALL MOUNT SCONCE	RBW PASTILLE 1 DISC	7"DIA x 4"D	3000K, 90CRI, LED, 430 lm	8 W	TRIAC DIMMING TO 10%	120V	BY ARCHITECT	SURFACE WALL	6'-0" TO BOTTOM OF FIXTURE AFF		1
S1	EXTERIOR DIRECT ONLY WALL PACK, TYPE IV DISTRIBUTION	LIGMAN LEEDS 2	8"W x 8"H x 5"D	3000K, 90CRI, LED, 1660 lm	14 W	0-10V DIMMING TO 10% INTEGERAL DRIVER	120V	BY ARCHITECT	SURFACE WALL	7'-0" TO BOTTOM OF FIXTURE AFF		1
X1	WALL MOUNT EXIT SIGN	COOPER/ SURE-LITES; CX SERIES	3" W x 1'-1" L x 1'-0" H	-, LED, - lm	1 W	-	120V	BY ARCHITECT	SURFACE WALL	7' AFF		
X2	PENDANT MOUNT EXIT SIGN	COOPER/ SURE-LITES; CX SERIES	2.25" W x 12.6" L x 8.25" H	-, LED, - lm	1 W	-	120V	BY ARCHITECT	SUSPENDED	7' AFF		

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02/13/24
EXPIRES: 12/31/2024

REVISIONS TO THIS SHEET

REV.	DATE	DESCRIPTION

SET ISSUE	DATE
BP	2024.02.09
100% DD	2023.12.15
100% SD	2023.10.28

PROJECT TRACKING

RBA #: 2327
P.I.C:
PM / PA:

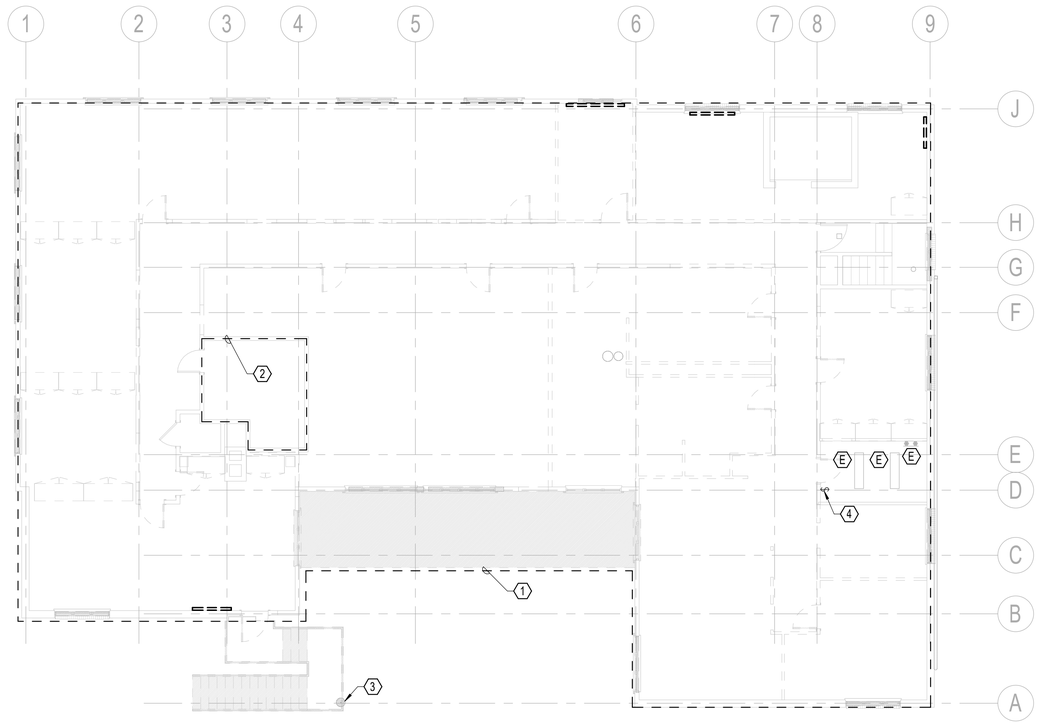
Owner
OSU FRC

Project Name
AZALEA EARLY CHILDHOOD CENTER

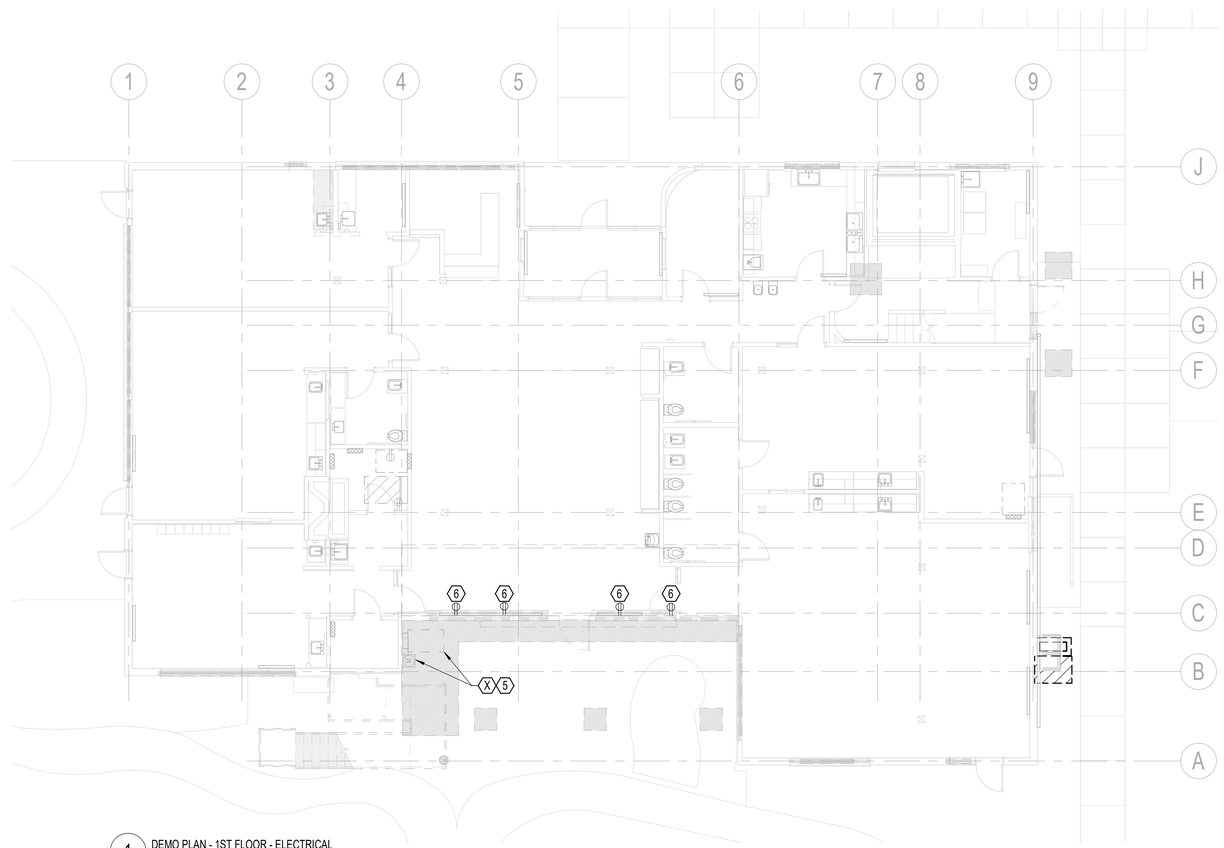
Project Address
1050 SW MADISON AVE, CORVALLIS OR 97333

LUMINAIRE / EQUIPMENT CONNECTION SCHEDULES

E-003



2 DEMO PLAN - 2ND FLOOR - ELECTRICAL
1/8" = 1'-0"



1 DEMO PLAN - 1ST FLOOR - ELECTRICAL
1/8" = 1'-0"

GENERAL NOTES:

A. SCHEDULE DEMOLITION IN ADVANCE TO AVOID DISRUPTION OF NORMAL OPERATIONS. PROVIDE ADVANCE NOTIFICATION AND DESCRIPTION OF IMPACT TO THE [OWNER, ARCHITECT].

B. PROVIDE TEMPORARY FEEDERS AND SERVICES AS REQUIRED TO ACCOMPLISH CONSTRUCTION PHASING SEQUENCE.

C. WHERE NOTED, DEMOLITION INCLUDES CONDUITS, SUPPORTS AND HANGERS, CABLING, AND CONDUCTORS BACK TO SOURCE.

D. REVIEW WITH OWNER EQUIPMENT TO BE SALVAGED AND STORED. PROPERLY DISPOSE OF NON-SALVAGED EQUIPMENT.

E. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, LIGHTING AND TECHNOLOGY DRAWINGS, DISCONNECT AND REMOVE SERVICE TO EQUIPMENT NOTED AS DEMOLISHED.

F. PROTECT AND MAINTAIN OPERATIONAL INTEGRITY OF ELECTRICAL SYSTEMS THAT REMAIN.

G. AFTER REMOVAL OF ELECTRICAL SYSTEMS, RESTORE DAMAGED SURFACES AND FINISHES TO MATCH EXISTING.

H. INSPECT SALVAGED RACEWAYS FOR INTEGRITY AND REPAIR PRIOR TO RE-USE.

I. REFER TO EQUIPMENT SCHEDULE FOR DEMOLISHED CONNECTIONS AND SERVICES.

J. PROVIDE UPDATED TYPEWRITTEN PANELBOARD SCHEDULES FOR PANELS AFFECTED BY DEMOLITION. TURN "OFF" SPARE BREAKERS.

⬡ NOTES:

1. DEMOLISH ALL EXISTING ELECTRICAL BACK TO BRANCH PANELBOARD IN OUTLINED AREA WITH THE EXCEPTION OF CIRCUITS SERVING THE BOILER ROOM.
2. MAINTAIN ALL EQUIPMENT CONNECTIONS TO THE BOILER ROOM EQUIPMENT. COORDINATE REPLACEMENT OF UPSTREAM PANELBOARD REPLACEMENT WITH OWNER FOR MINIMAL IMPACT TO BOILER DOWNTIME.
3. DEMOLISH EXISTING LIGHT FIXTURE BACK TO SOURCE.
4. DEMOLISH EXISTING SWITCH AND SAVE FOR REINSTALLATION ON ADJACENT WALL.
5. TERMINATE SAFE EXISTING FEEDER TERMINATIONS AND COORDINATE REMOVAL OF EXISTING SERVICE EQUIPMENT AND RETURN TO UTILITY. CAP AND SEAL EXISTING CONDUITS WATERTIGHT.
6. REMOVE EXISTING RECEPTACLES AND REINSTALL TO NEW WALL. SEE E-225 FOR NEW LOCATIONS.

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Project Name
AZALEA EARLY CHILDHOOD CENTER

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1050 SW MADISON AVE, CORVALLIS OR 97333

DEMO FLOOR PLANS - 1ST AND 2ND - ELECTRICAL

E-102

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GENERAL NOTES:

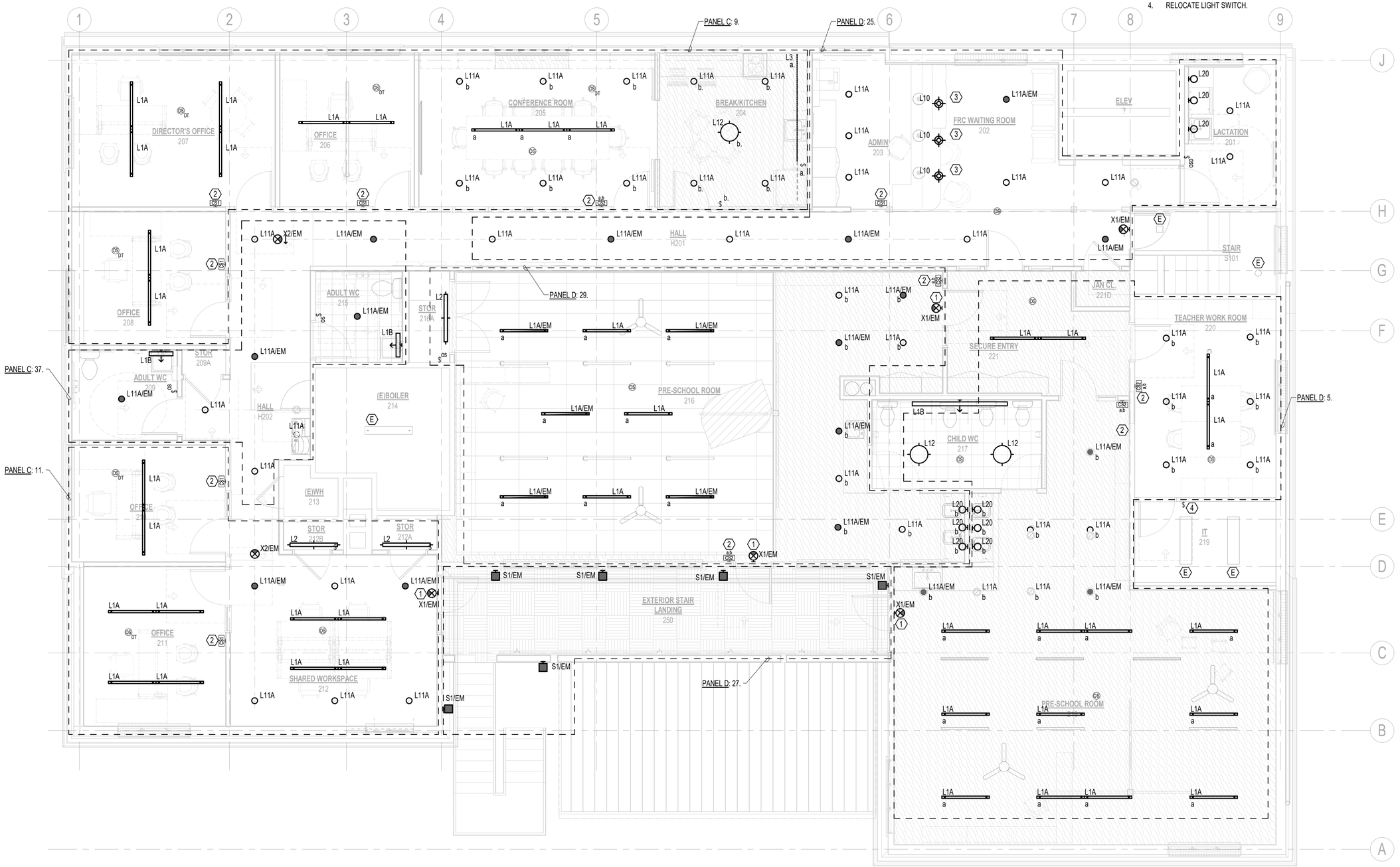
A. ALL EMERGENCY LIGHTING LABELED 'EM' SHALL BE PROVIDED WITH A UL-924 DEVICE SO THAT LIGHTING OPERATES WITH OTHER IN AREA UNDER NORMAL CONDITIONS BUT OVERRIDES TO FULL OUTPUT UNDER LOSS OF POWER.

B. COORDINATE EXACT QUANTITY AND INSTALLATION LOCATION OF ALL LUMINAIRES WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

C. PROVIDE ALL EXIT SIGNS WITH AN UNSWITCHED HOT.

NOTES:

1. CENTER WALL-MOUNTED EXIT SIGN ABOVE DOOR. CONFIRM EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE DEDICATED ROOM CONTROLLER (WATTSTOPPER # LMRC OR APPROVED EQUIVALENT) TO CONTROL ALL LIGHTING IN SPACE. CONFIGURE AS MANUAL ON VIA CONTROL STATION BUTTON(S), AUTOMATIC OFF VIA CEILING-MOUNTED OCCUPANCY SENSORS. PROVIDE DAYLIGHTING HARVESTING PHOTOSENSOR IF INDICATED ON DRAWINGS. LOCATE ROOM CONTROLLER INSIDE ROOM ON WALL ABOVE CONTROL STATION ABOVE ACCESSIBLE CEILING, UNLESS OTHERWISE NOTED. CONTROL STATION SHALL HAVE A DEDICATED BUTTON FOR EACH ZONE SHOWN ON DRAWINGS (INDICATED BY LOWER CASE LETTER(S)). IF NO ZONES ARE CALLED OUT, PROVIDE SINGLE BUTTON TO CONTROL ALL LIGHTING IN SPACE.
3. CONTROL DECORATIVE PENDANT LUMINAIRE WITH ADMIN 203 CONTROL STATION.
4. RELOCATE LIGHT SWITCH.



1 2ND FLOOR - LIGHTING
1/4" = 1'-0"

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Project Name
AZALEA EARLY CHILDHOOD CENTER

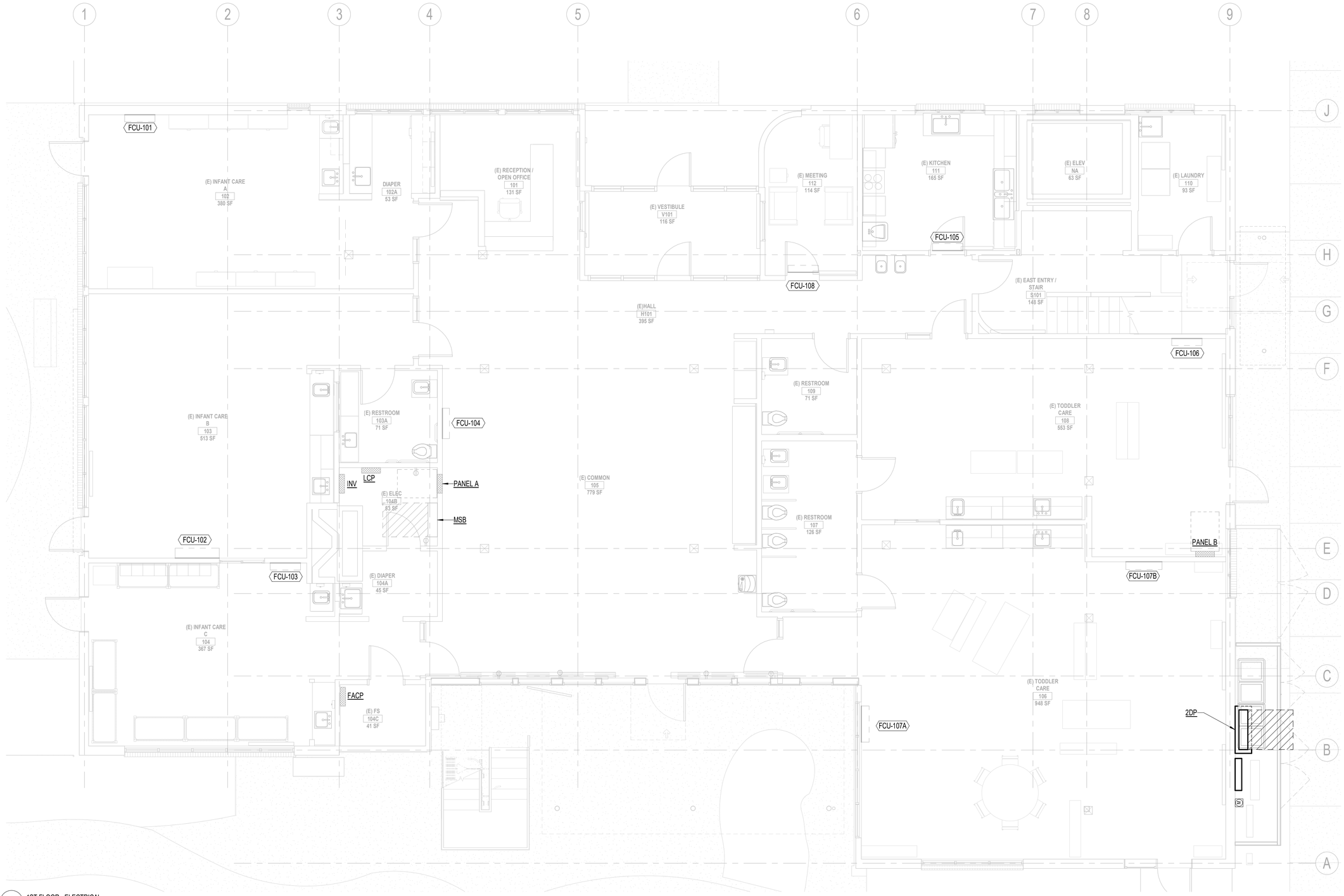
Project Address
1050 SW MADISON AVE, CORVALLIS OR 97333

SCHEMATIC 2ND FLOOR PLAN - LIGHTING

E-222

GENERAL NOTES:

A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E-003 FOR MECHANICAL UNIT FEEDER CHARACTERISTICS.



1 1ST FLOOR - ELECTRICAL
1/4" = 1'-0"

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Project Name
AZALEA EARLY CHILDHOOD CENTER

Project Address
1050 SW MADISON AVE, CORVALLIS OR 97333

SCHEMATIC 1ST FLOOR PLAN - ELECTRICAL

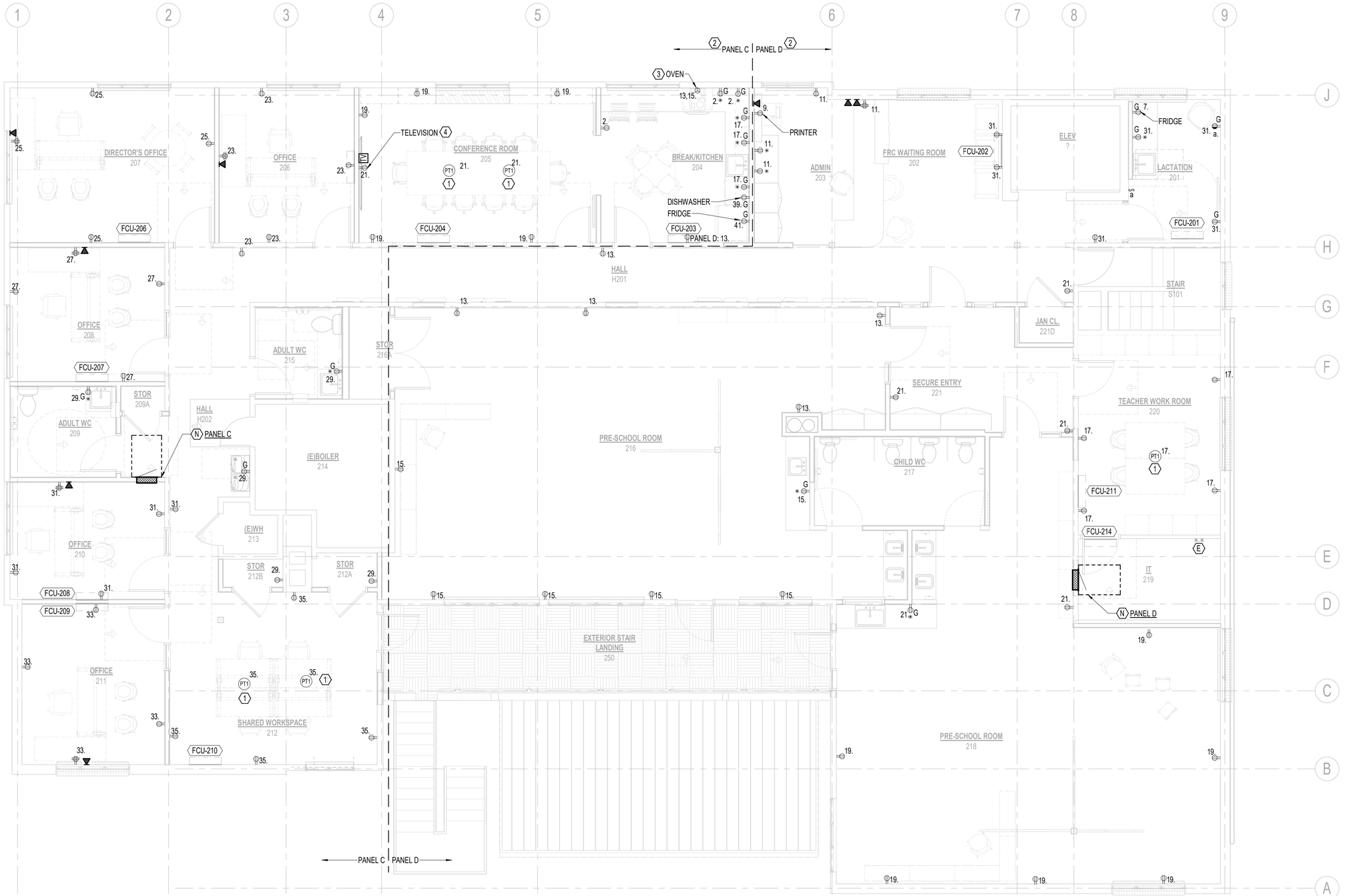
E-225

GENERAL NOTES:

A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E-003 FOR MECHANICAL UNIT FEEDER CHARACTERISTICS.

NOTES:

1. COMBINATION POWER / DATA POKE-THROUGH STYLE FLOOR BOX.
2. CIRCUITS ON THIS SIDE OF THE DASHED LINE ARE CIRCUITED TO THE PANEL SHOWN.
3. PROVIDE NEMA 6-50R RECEPTACLE FOR OVEN WITH (2) 6 AWG CONDUCTORS AND (1) 10 AWG GROUND ROUTED IN (1) 3/4"C.
4. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.



1 2ND FLOOR - ELECTRICAL
1/4" = 1'-0"

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PM / PA:

Owner
OSU FRC

Project Name
AZALEA EARLY CHILDHOOD CENTER

Project Address
1050 SW MADISON AVE, CORVALLIS OR 97333

SCHEMATIC 2ND FLOOR PLAN - ELECTRICAL

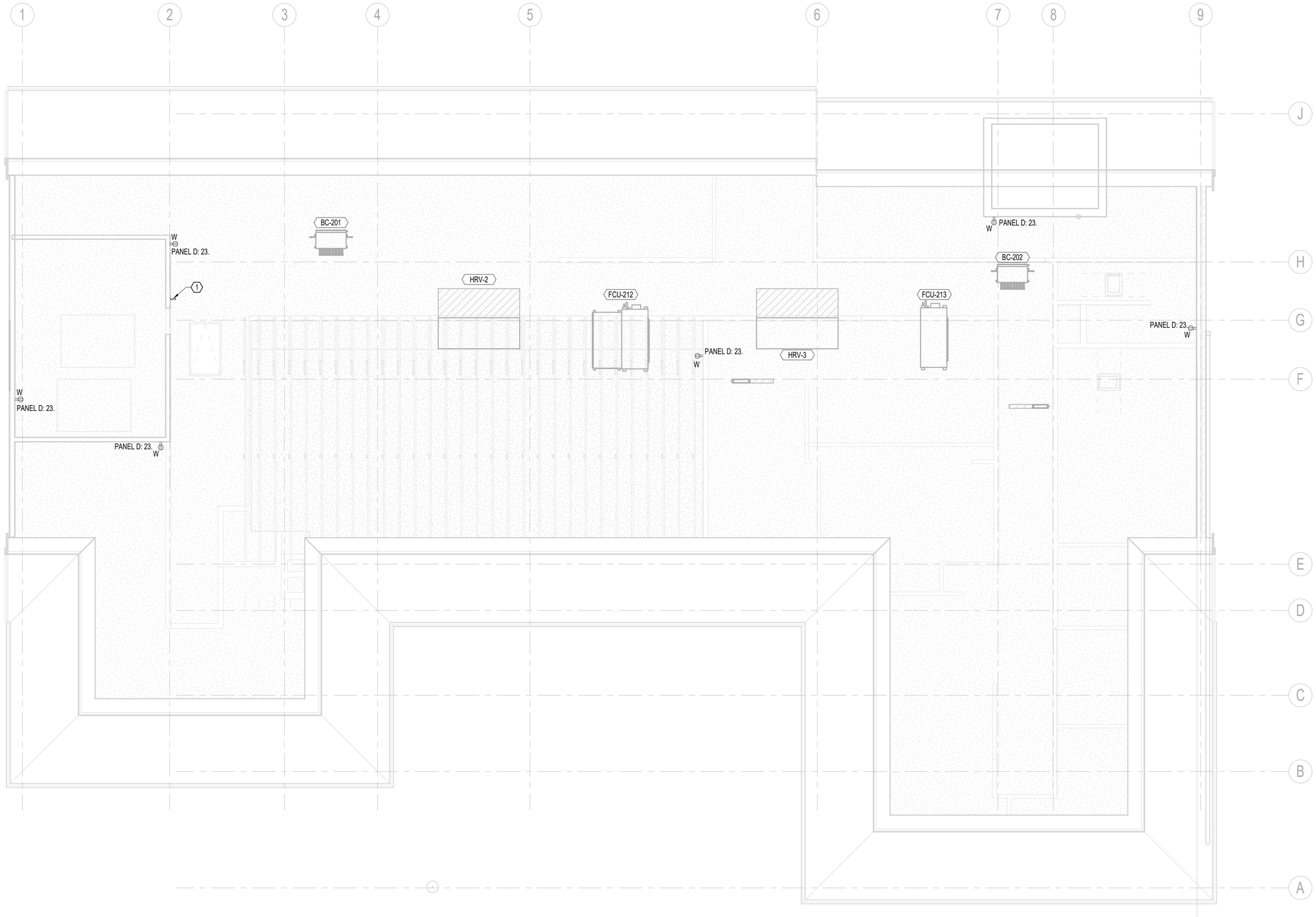
E-226

GENERAL NOTES:

A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E-003 FOR MECHANICAL UNIT FEEDER CHARACTERISTICS.

NOTES:

1. PROVIDE NEW LIGHT SWITCH TO CONTROL EXISTING TO REMAIN ATTIC LIGHTING.



1 ATTIC PLAN - ELECTRICAL
1/4" = 1'-0"

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SCHEMATIC ATTIC PLAN - ELECTRICAL

E-227