

TELECOMMUNICATION DEVICES	
	TELECOM OUTLET W (1) CAT6A DEVICES [-18"]
	TELECOM OUTLET W (2) CAT6A DEVICES [-18"]
	TELECOM OUTLET W (4) CAT6A DEVICES [ABOVE COUNTER]
	TELECOM OUTLET W (4) CAT 6A DEVICES
	DATA OUTLET FOR WIRELESS NODE W (2) CAT6A [AT CEILING UNLESS NOTED OTHERWISE] (SEE PLANS)
	DATA OUTLET ON CEILING W (1) CAT6A DEVICE

SECURITY DEVICES	
	CAMERA (1/1) CAT6 DEVICE] VERIFY MOUNTING LOCATION / HEIGHT PRIOR TO ROUGH-IN.
	JUNCTION BOX
	CARD READER
	DOOR CONTACT
	KEYPAD
	ELECTRIC LOCK
	DOOR POSITION SWITCH

SIGNAL DEVICES	
	AUDIOVISUAL OUTLET [-18"]
	MICROPHONE OUTLET [-18"]
	VIDEO OUTLET [-18"]
	VOLUME CONTROL [-48"]
	SPEAKER - CEILING MOUNTED
	CLOCK [-18"]
	SPEAKER - WALL MOUNTED [-18"]

FIRE ALARM DESIGN BUILD NOTE	
PER SPEC SECTION 28 46 00, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL DESIGN, FURNISHING, AND INSTALLATION OF A COMPLETE FIRE ALARM SYSTEM INCLUDING BUT NOT LIMITED TO ALL ADDRESSABLE FIRE ALARM PANELS, NAC PANELS, INITIATION DEVICES, MONITORING DEVICES, ANNUNCIATION DEVICES, AND OTHER EQUIPMENT AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION (NAC).	
EXISTING FIRE ALARM TO BE REMOVED AND REPLACED WITH NEWEST MODEL SILENT KNIGHT FACP WITH MINIMUM 99 CIRCUITS PER ESD STANDARD. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CABLING AND RACEWAY. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PANEL, SENSORS, ALARMS, NOTIFIERS, TESTING, AND ANY OTHER LOW VOLTAGE REQUIRED APPURTENANCES.	
CURRENT FIRE ALARM EXTENTS COVER WAREHOUSE AREA AS WELL AS REMODELED SPACE. REPLACEMENT SYSTEM SHALL APPLY TO FULL EXTENTS OF FIRE ALARM SYSTEM IN BOTH TENANT SPACES.	

LIGHTING FIXTURES	
	ADJUSTABLE EMERGENCY CONCEALED IN CEILING
	ADJUSTABLE EMERGENCY WALL MOUNT
	SINGLE / DOUBLE FACE CEILING MOUNTED EXIT SIGN
	SINGLE / DOUBLE FACE WALL MOUNTED EXIT SIGN
	SINGLE FACE SURFACE MOUNTED EXIT SIGN
	SURFACE MOUNTED LINEAR LIGHT FIXTURE (LENGTH AS SHOWN ON DRAWING)
	SURFACE LIGHT FIXTURE
	EMERGENCY SURFACE LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	EMERGENCY RECESSED LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	EMERGENCY RECESSED LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	EMERGENCY STRIP LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	EMERGENCY LINEAR PENDANT LIGHT FIXTURE
	LINEAR WALL MOUNT LIGHT FIXTURE
	EMERGENCY LINEAR WALL MOUNT LIGHT FIXTURE
	ADJUSTABLE 3-HEAD RECESSED LIGHT FIXTURE
	EMERGENCY ADJUSTABLE 3-HEAD RECESSED LIGHT FIXTURE
	ADJUSTABLE RECESSED LIGHT FIXTURE
	EMERGENCY ADJUSTABLE RECESSED LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	EMERGENCY RECESSED DOWNLIGHT FIXTURE
	WALL WASH RECESSED LIGHT FIXTURE
	EMERGENCY WALL WASH RECESSED LIGHT FIXTURE
	SURFACE DOWNLIGHT FIXTURE
	EMERGENCY SURFACE DOWNLIGHT FIXTURE
	IN-GRADE LIGHT FIXTURE
	EMERGENCY IN-GRADE LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
	EMERGENCY PENDANT LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE
	EMERGENCY WALL MOUNT LIGHT FIXTURE
	TRACK WITH TRACK HEAD LIGHT FIXTURE
	EXTERIOR WALL MOUNT LIGHT FIXTURE
	EMERGENCY EXTERIOR WALL MOUNT LIGHT FIXTURE
	EXTERIOR POLE MOUNTED LIGHT FIXTURE
	EXTERIOR POST TOP ROUND LIGHT FIXTURE
	EXTERIOR POST TOP SQUARE LIGHT FIXTURE
	EXTERIOR BOLLARD LIGHT FIXTURE
	EMERGENCY EXTERIOR BOLLARD LIGHT FIXTURE
	STEP LIGHT FIXTURE
	EMERGENCY STEP LIGHT FIXTURE

LIGHTING CONTROL DEVICES	
\$	SINGLE-POLE SWITCH [+45]
\$	TWO-POLE SWITCH [+45]
\$ ³	THREE-WAY SWITCH [+45]
\$ ⁴	FOUR-WAY SWITCH [+45]
\$ ⁵	SINGLE POLE KEYED SWITCH [+45]
\$ ¹²	LOW-VOLTAGE SWITCH [+45]
\$ ¹³	DIMMER SWITCH [+45]
\$ ¹⁴	SINGLE-POLE SWITCH W/PILOT LIGHT [+45]
\$ ¹⁵	SINGLE-POLE SWEEP SWITCH [+45]
\$ ¹⁶	THREE-WAY SWEEP SWITCH [+45]
\$ ¹⁷	WALL MOUNT OCCUPANCY SENSOR SWITCH [+45]
\$ ¹⁸	CLASSROOM DIMMER SWITCH [+45]
\$ ¹⁹	MULTI-PURPOSE ROOM SWITCH [+45]
DIS	DAYLIGHT SENSOR
OSR	OCCUPANCY SENSOR (CEILING OR WALL MOUNTED)

POWER DEVICES	
	SINGLE RECEPTACLE [-18"]
	DUPLEX RECEPTACLE [-18"]
	DOUBLE DUPLEX RECEPTACLE [-18"]
	CONTROLLED RECEPTACLE [-18"]
	CONTROLLED DUPLEX RECEPTACLE (ABOVE COUNTER) [-18"]
	RECEPTACLE (ABOVE COUNTER) [-18"]
	HALF-SWITCHED RECEPTACLE [-18"]
	FLUSH IN FLOOR [-18"]
	IN CEILING [-18"]
	SPECIAL PURPOSE POWER RECEPTACLE [-18"]
	POWER/DATA FLUSH FLOOR BOX [-18"]
	ELECTRICAL EQUIPMENT CONNECTION [-18"]
	ELECTRICAL MOTOR CONNECTION [-18"]
	SINGLE-POINT ELECTRICAL CONNECTION [-18"]
	EMERGENCY POWER OFF [-18"]
	PUSH BUTTON CONTROL [-48"]
	UP/DOWN/STOP PUSH BUTTON CONTROL [-48"]
	SAFETY SWITCH [-18"]
	FUSED SAFETY SWITCH [-18"]
	MAGNETIC STARTER [-18"]
	JUNCTION BOX [-18"]
	JUNCTION FLOOR BOX [-18"]
	SURFACE MOUNT WIREWAY [-18"]
	FLUSH AUTOMATIC DOOR ACTUATOR [-48"]
	THERMOSTAT [-18"]

REFERENCE SYMBOLS & WIRING	
	SHEET REFERENCE MARK
	KITCHEN EQUIPMENT NOTE MARK
	PLAN NOTE MARK
	MECHANICAL EQUIPMENT NOTE MARK
	FEEDER MARK
	STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON DWGS

LINETYPE LEGEND	
	ITEMS TO BE DEMOLISHED (TYPICAL)
	EXISTING ITEMS (TYPICAL)
	UNDERGROUND

DISTRIBUTION & EQUIPMENT	
	FLUSH ELECTRICAL PANEL (MAX 6'-6" TO TOP) FOR RESIDENTIAL PROJECTS (48" TO TOP) FLUSH CONTROL PANEL (MAX 6'-6" TO TOP)
	SURFACE ELECTRICAL PANEL (MAX 6'-6" TO TOP) FOR RESIDENTIAL PROJECTS (48" TO TOP) SURFACE CONTROL PANEL (MAX 6'-6" TO TOP)

LIGHT FIXTURE LABELING CONVENTION	
	

ABBREVIATIONS	
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
(D)	EXISTING TO BE DEMOLISHED
AB	ABOVE COUNTER BACKSPASH
AC	ALTERNATING CURRENT
A AMP	AMPERES
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC-FAULT CIRCUIT INTERRUPTER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING
AL	ALUMINUM
ALC	AUTOMATIC LIGHTING CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DIV	DIVISION
DP	DISTRIBUTION PANEL
DWG	DRAWING
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FLA	FULL LOAD AMPERES
FSD	FIRE/SMOKE DAMPER
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HTR	HEATER
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
LIT	LIGHTING
LCP	LIGHTING CONTROL PANEL
MAX	MAXIMUM
MB	MAIN BREAKER
MCA	MINIMUM CIRCUIT AMPERES
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MSP	MAIN SERVICE PANEL
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFGRS ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFIO	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
SDP	SUB DISTRIBUTION PANEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOARD
TEL	TELEPHONE
TK	INSTALL TIE KICK
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
VR	VANDAL RESISTANT
W	WATT
W	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

NOTE: NOT ALL SYMBOLS MAY BE USED.

SHEET NUMBER	SHEET NAME
E001	ELECTRICAL COVER SHEET
E002	ELECTRICAL ONE-LINE DIAGRAM
E003	DEMOM PLAN - LEVEL 1
E010	ELECTRICAL SCHEDULES
E011	ELECTRICAL SCHEDULES - EXISTING
E012	ELECTRICAL SCHEDULES - NEW
E100	ELECTRICAL SITE PLAN
E201	POWER AND SIGNAL PLAN - LEVEL 1
E202	POWER AND SIGNAL PLAN - MECHANICAL PLATFORM
E203	POWER AND SIGNAL PLAN - PARAPET
E401	ENLARGED PLAN - KITCHEN
E301	LIGHTING PLAN - LEVEL 1
E302	LIGHTING PLAN - MECH PLATFORM
E501	ELECTRICAL DETAILS



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20190000000000000000
EXP. 12/31/2024

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ESD 112 - 2200 Building
Education Facility Renovation
2200 NE 65th Ave.
Vancouver, WA 98661

DATE: 08.31.2024
DRAWN BY: DCT
JOB NO.: 26-004
REV NO.:

ELECTRICAL
COVER SHEET

E001

PERMIT SET
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GROUNDING KEYED NOTES
 1. GROUNDING ELECTRODE CONDUCTORS PER SERVICE SIZE: 400A = #10 CU,
 600A = #8 CU, 800-100A = #8 CU, ≥ 1,200A = #3 CU CU

COPPER 2&3-WIRE FEEDER CONDUCTOR SCHEDULE (THHN/THWN COPPER PHASE & NEUTRAL/1 CONDUCTOR ONLY) (THHN/THWN COPPER GROUND CONDUCTOR)			
TAG	CONDUIT	CONDUCTOR	EQUIPMENT GROUND
0202	1 1/2"	2 #12	#12
0303	1 1/2"	3 #10	#10
0403	3/4"	3 #8	#10
0503	3/4"	3 #8	#10
0603	3/4"	3 #8	#10
0703	1"	3 #4	#8
0803	1 1/4"	3 #3	#8
0903	1 1/4"	3 #3	#8
1003	1 1/4"	3 #2	#8
1253	1 1/2"	3 #1	#8
1503	1 1/2"	3 #1/0	#8
1753	2"	3 #2/0	#8
2003	2"	3 #3/0	#8
2253	2"	3 #4/0	#8
2503	2 1/2"	3 #250KCM	#4
3003	3"	3 #350KCM	#4
4003	3"	3 #600KCM	#3
6003	(2) 3" EACH W/	3 #350KCM	#1
8003	(2) 3" EACH W/	3 #600KCM	#1/0
10003	(4) 2 1/2" EACH W/	3 #250KCM	#2/0
12003	(4) 3" EACH W/	3 #350KCM	#3/0
16003	(5) 3" EACH W/	3 #400KCM	#4/0
20003	(6) 3" EACH W/	3 #400KCM	#250KCM
25003	(7) 3" EACH W/	3 #500KCM	#350KCM
30003	(8) 3" EACH W/	3 #500KCM	#400KCM

* NOTE: WHERE FEEDER TYPE IS USED ON A SINGLE PHASE
 FEEDER THE CONDUCTOR SHOWN IS TWO PHASE
 CONDUCTORS AND FULL SIZE NEUTRAL CONDUCTOR

8/18/2026 [3W]

ALUMINUM 2&3-WIRE FEEDER CONDUCTOR SCHEDULE (ALUMINUM PHASE & NEUTRAL/1 CONDUCTOR ONLY) (ALUMINUM GROUND CONDUCTOR)			
TAG	CONDUIT	CONDUCTOR	EQUIPMENT GROUND
0202	1 1/2"	2 #10	#8
0303	1 1/2"	3 #10	#4
0403	3/4"	3 #10	#4
0503	3/4"	3 #10	#4
0603	3/4"	3 #10	#4
0703	1"	3 #250KCM	#4
0803	1 1/4"	3 #250KCM	#2
0903	1 1/4"	3 #250KCM	#2
1003	1 1/4"	3 #250KCM	#1
1253	1 1/2"	(2) 2" EACH W/	(2) 3" EACH W/
1503	1 1/2"	(2) 2" EACH W/	(2) 3" EACH W/
1753	2"	(2) 2" EACH W/	(2) 3" EACH W/
2003	2"	(2) 2" EACH W/	(2) 3" EACH W/
2253	2"	(2) 2" EACH W/	(2) 3" EACH W/
2503	2 1/2"	(2) 2" EACH W/	(2) 3" EACH W/
3003	3"	(2) 2" EACH W/	(2) 3" EACH W/
4003	3"	(2) 2" EACH W/	(2) 3" EACH W/
6003	(2) 3" EACH W/	3 #350KCM	#2/0
8003	(2) 3" EACH W/	3 #600KCM	#3/0
10003	(4) 2 1/2" EACH W/	3 #250KCM	#4/0
12003	(4) 3" EACH W/	3 #350KCM	#250KCM
16003	(5) 3" EACH W/	3 #400KCM	#350KCM
20003	(6) 3" EACH W/	3 #400KCM	#400KCM
25003	(7) 3" EACH W/	3 #500KCM	#400KCM
30003	(8) 3" EACH W/	3 #500KCM	#600KCM

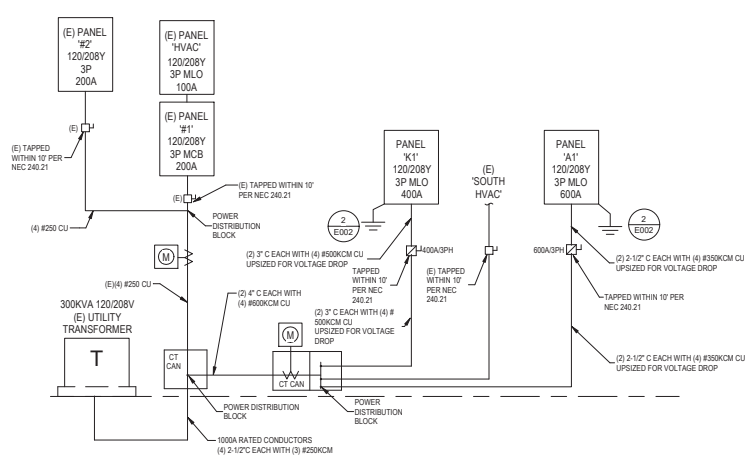
* NOTE: WHERE FEEDER TYPE IS USED ON A SINGLE PHASE
 FEEDER THE CONDUCTOR SHOWN IS TWO PHASE
 CONDUCTORS AND FULL SIZE NEUTRAL CONDUCTOR

8/18/2026 [3W]

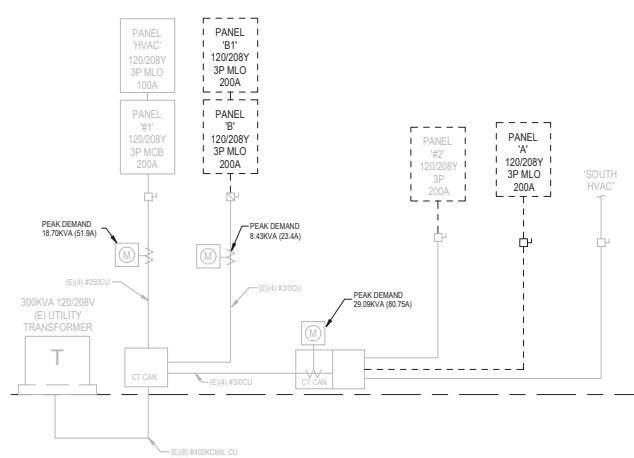
COPPER 4-WIRE FEEDER CONDUCTOR SCHEDULE (THHN/THWN COPPER PHASE & NEUTRAL CONDUCTOR ONLY) (THHN/THWN COPPER GROUND CONDUCTOR)			
TAG	CONDUIT	CONDUCTOR	EQUIPMENT GROUND
0304	1 1/2"	4 #10	#10
0404	3/4"	4 #8	#10
0504	1"	4 #8	#10
0604	1"	4 #8	#10
0704	1 1/4"	4 #4	#8
0804	1 1/4"	4 #3	#8
0904	1 1/4"	4 #3	#8
1004	1 1/2"	4 #2	#8
1254	1 1/2"	4 #1	#8
1504	2"	4 #1/0	#8
1754	2"	4 #2/0	#8
2004	2"	4 #3/0	#8
2254	2 1/2"	4 #4/0	#8
2504	3"	4 #250KCM	#4
3004	3"	4 #350KCM	#4
4004	4"	4 #600KCM	#3
6004	(2) 3" EACH W/	4 #350KCM	#1
8004	(2) 4" EACH W/	4 #600KCM	#2/0
10004	(4) 3" EACH W/	4 #250KCM	#3/0
12004	(4) 3" EACH W/	4 #350KCM	#4/0
16004	(5) 4" EACH W/	4 #400KCM	#250KCM
20004	(6) 4" EACH W/	4 #400KCM	#350KCM
25004	(7) 4" EACH W/	4 #500KCM	#400KCM
30004	(8) 4" EACH W/	4 #500KCM	#600KCM

8/18/2026 [4W]

ALUMINUM 4-WIRE FEEDER CONDUCTOR SCHEDULE (ALUMINUM PHASE & NEUTRAL CONDUCTORS) (ALUMINUM GROUND CONDUCTORS)			
TAG	CONDUIT	CONDUCTOR	EQUIPMENT GROUND
0304	1 1/2"	4 #10	#8
0404	3/4"	4 #8	#4
0504	1"	4 #8	#4
0604	1"	4 #8	#4
0704	1 1/4"	4 #4	#4
0804	1 1/4"	4 #3	#4
0904	1 1/4"	4 #3	#4
1004	1 1/2"	4 #2	#4
1254	1 1/2"	4 #1	#4
1504	2"	4 #1/0	#4
1754	2"	4 #2/0	#4
2004	2"	4 #3/0	#4
2254	2 1/2"	4 #4/0	#4
2504	3"	4 #250KCM	#2
3004	3"	4 #350KCM	#2
4004	4"	4 #600KCM	#1
6004	(2) 2 1/2" EACH W/	4 #500KCM	#2/0
8004	(2) 4" EACH W/	4 #600KCM	#3/0
10004	(3) 4" EACH W/	4 #350KCM	#4/0
12004	(4) 3" EACH W/	4 #250KCM	#250KCM
16004	(5) 4" EACH W/	4 #400KCM	#350KCM
20004	(6) 4" EACH W/	4 #400KCM	#400KCM
25004	(7) 4" EACH W/	4 #500KCM	#600KCM
30004	(8) 4" EACH W/	4 #500KCM	#600KCM

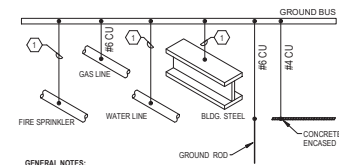


4 ONE-LINE DIAGRAM - NEW
 N.T.S.



2 ONE-LINE DIAGRAM - EXISTING
 N.T.S.

FAULT CALCULATION RESULTS	
EQUIPMENT	3PH SYMMETRICAL FAULT CURRENT (AMPS)
UTILITY XFMR (SECONDARY)	XX,XXX
XXX	XX,XXX
XXX	XX,XXX
XXX	XX,XXX



GENERAL NOTES:
 1. SIZE CONDUCTORS PER NEC ARTICLE 250
 2. CONDUCTORS TO BE COPPER.

3 SERVICE GROUNDING DETAIL
 N.T.S.

LIGHT FIXTURE SCHEDULE - COMMON AREA						
TYPE	DESCRIPTION	FINISH	VOLTS (V)	LAMPING	MANUFACTURER	CATALOG #
A1	2x4 TROFFER, DIMMABLE TO 1%, IC RATED, INDIVIDUAL DAYLIGHTING CONTROLS	WHITE	120	3500K, 80CRI	ACUTY	CPX-2X4-4000LM-80CRI-35K-SWL-MINI-ZT-120-ALIGHT-APR
A1E	2x4 TROFFER, DIMMABLE TO 1%, IC RATED, INDIVIDUAL DAYLIGHTING CONTROLS, EM BATTERY	WHITE	120	3500K, 80CRI	ACUTY	CPX-2X4-4000LM-80CRI-35K-SWL-MINI-ZT-120-E10W-ALIGHT-APR
A2	2x4 TROFFER, DIMMABLE TO 1%, IC RATED, INDIVIDUAL LUMINAR CONTROL	WHITE	120	3500K, 80CRI	ACUTY	CPX-2X4-4000LM-80CRI-35K-SWL-MINI-ZT-120-ALIGHT-PDT
A2E	2x4 TROFFER, DIMMABLE TO 1%, IC RATED, INDIVIDUAL LUMINAR CONTROL, EM BATTERY	WHITE	120	3500K, 80CRI	ACUTY	CPX-2X4-4000LM-80CRI-35K-SWL-MINI-ZT-120-E10W-ALIGHT-PDT
A3	2x2 FLAT PANEL, KITCHEN/NSF RATED	WHITE	120	3500K, 80CRI	ACUTY	CPX-2X2-4000LM-80CRI-35K-SW-ZT-120
A3E	2x2 FLAT PANEL, KITCHEN/NSF RATED	WHITE	120	3500K, 80CRI	ACUTY	CPX-2X2-4000LM-80CRI-35K-SW-ZT-120-E10W
A4	2x2 FLAT PANEL, DIMMABLE	WHITE	120	3500K, 80CRI	ACUTY	CPX-2X2-3200LM-80CRI-35K-SW-ZT-120
D1	6" DOWNLIGHT, DIMMABLE, RECESSED, ANTI-GLARE	WHITE	120	3500K, 80CRI	ACUTY	LDN6-3530-L06-WRLSS-TRW-120-G21
D4	DOWNLIGHT - EXTERIOR	WHITE	120	3500K, 80CRI	GOTHAM	IV06S-D-20LM-35K-80CRI-MMD-MINI0-120-ALIGHTER-ZT-RM-WLP-WRLD
D4E	DOWNLIGHT - EXTERIOR, EM BATTERY	WHITE	120	3500K, 80CRI	GOTHAM	IV06S-D-20LM-35K-80CRI-MMD-MINI0-120-ALIGHTER-ZT-ETWR-RM-WLP-WRLD
L1	LINEAR SUSPENDED LIGHTING - 18" T - DIRECT/INDIRECT	WHITE	120	3500K, 80CRI	CORONET	LS3LUPDN-15-35-LOW-MED-UNV-08-WAC-TBTS-AV1-BWG-FL
L2	4" LINEAR UTILITY STRIP LIGHT, SURFACE MOUNT	WHITE	120	3500K, 80CRI	LITHONIA	CSS-L48-5000LM-MVOLT-MINI0-ZT-35K-80CRI
L2E	4" LINEAR UTILITY STRIP LIGHT, SURFACE MOUNT	WHITE	120	3500K, 80CRI	LITHONIA	CSS-L48-5000LM-MVOLT-MINI0-ZT-35K-80CRI-E10W
W1	WALL PACK, EM BATTERY	BRONZE	120	3500K, 80CRI	ACUTY	W0GE1-LED-P1-35K-80CRI-VF-MVOLT-SRM-E40W-PE-DOBXD
X1	SINGLE SIDED EXIT SIGN, SELF DIAGNOSTIC, INTERGRAL BATTERY, ALUMINUM, RED	ALUMINUM, RED LIGHT	120	-	LITHONIA	LE-S-1R-ELN-SD-XX
X2	DOUBLE SIDED EXIT SIGN, SELF DIAGNOSTIC, INTERGRAL BATTERY, ALUMINUM, RED	ALUMINUM, RED LIGHT	120	-	LITHONIA	LE-S-2R-ELN-SD-XX

MECHANICAL EQUIPMENT SCHEDULE											
EQUIP TAG	EQUIP NUMBER	DESCRIPTION	VOLTAGE (V)	PHASE	LOAD (VA)	HP	FLA	MCA	FEEDER (CU)	PANEL	CIRCUIT
CP	1	CIRCULATION PUMP	120	1	180 VA		1	1	(2#12, #10G)	A1	70
EF	1	EXHAUST FAN	120	1	23 VA		0.2	0.5	(2#12, #10G)	A1	68
EF	2	EXHAUST FAN	120	1	23 VA		0.2	0.5	(2#12, #10G)	A1	68
EF	3	EXHAUST FAN	120	1	23 VA		0.2	0.5	(2#12, #10G)	A1	68
EF	4	EXHAUST FAN	120	1	23 VA		0.2	0.5	(2#12, #10G)	A1	66
EF	5	EXHAUST FAN	120	1	28 VA		0.2	0.5	(2#12, #10G)	A1	66
EF	6	EXHAUST FAN	120	1	28 VA		0.2	0.5	(2#12, #10G)	A1	66
FCU	1	FAN COIL UNIT - HEAT PUMP	208	1	180 VA		0	0	(2#12, #10G)	A1	58.61
FCU	2	FAN COIL UNIT - HEAT PUMP	208	1	180 VA		0	0	(2#12, #10G)	A1	62.64
HP	1	HEAT PUMP	120	1	1500 VA		0	14.6	(2#12, #10G)	A1	73
HP	2	HEAT PUMP	120	1	1500 VA		0	14.6	(2#12, #10G)	A1	76
MUA	1.F	MAKEUP AIR UNIT FAN	120	1	1392 VA		11.6	16.6	(2#12, #10G)	K1	13
RTU	1	ROOFTOP UNIT	208	1	2662 VA		12.8	21.3	(4#10, #10G)	A1	45.47
RTU	2	ROOFTOP UNIT	208	1	2662 VA		12.8	21.3	(4#10, #10G)	A1	49.51
RTU	3	ROOFTOP UNIT	208	1	2662 VA		12.8	21.3	(4#10, #10G)	A1	53.55
RTU	4	ROOFTOP UNIT	208	1	2662 VA		12.8	21.3	(4#10, #10G)	A1	42.44
RTU	5	ROOFTOP UNIT	208	1	2662 VA		12.8	21.3	(4#10, #10G)	A1	46.48
RTU	6	ROOFTOP UNIT	208	3	18930 VA		43.3	51.6	(4#10, #10G)	A1	50.52/54
RTU	7	ROOFTOP UNIT	208	3	14580 VA		40	49.8	(4#10, #10G)	A1	56.36/60
WH	1	WATER HEATER	208	1	12000 VA		57	0	(4#10, #10G)	A1	65.71
WH	2	WATER HEATER	208	1	12000 VA		57	0	(4#10, #10G)	A1	72.74

LIGHTING CONTROL SEQUENCE OF OPERATIONS									
NUMBER	SPACE NAME	LIGHTING CONTROL ON	LIGHTING CONTROL OFF	SENSOR TIMEOUT (MIN)	MINIMUM DIMMING PERCENTAGE	TIMECLOCK INTEGRATION	TIMECLOCK OVERRIDE	PRIMARY DAYLIGHTING ZONES	SECONDARY DAYLIGHTING ZONES
104	ACCESSIBLE RESTROOM	OCCUPANCY	OCCUPANCY	10					
103	ACCESSIBLE RESTROOM	OCCUPANCY	OCCUPANCY	10					
109	BREAK ROOM	OCCUPANCY	OCCUPANCY	15	10%				
112	CLASSROOM #1	OCCUPANCY	OCCUPANCY	15	10%	ON TO 80%	X	1	1
113	CLASSROOM #2	OCCUPANCY	OCCUPANCY	15	10%	ON TO 80%	X	2	1
124	CLASSROOM #3	OCCUPANCY	OCCUPANCY	15	10%	ON TO 80%	X		
128	CLASSROOM #4	OCCUPANCY	OCCUPANCY	15	10%	ON TO 80%	X		
129	CLASSROOM #5	OCCUPANCY	OCCUPANCY	15	10%	ON TO 80%	X		
120	CLOSET	OCCUPANCY	OCCUPANCY	5	10%				
119	CONFERENCE	MANUAL	OCCUPANCY	15	1%				
102	DIRECTOR	OCCUPANCY	OCCUPANCY	15	10%				
000	EXTERIOR	SCHEDULED	PHOTOCELL						
122	L.T.	MANUAL	MANUAL						
115	NDS RR	OCCUPANCY	OCCUPANCY	10					
126	NDS RR	OCCUPANCY	OCCUPANCY	10					
121	NDS RR	OCCUPANCY	OCCUPANCY	10					
110	KITCHEN	MANUAL	MANUAL						
108	LAUNDRY	OCCUPANCY	OCCUPANCY	15					
133	MECH PLATFORM	OCCUPANCY	OCCUPANCY	15					
131	NORTH HALLWAY	OCCUPANCY	OCCUPANCY	15		SCHEDULED	X		
114	OBSERVE	MANUAL	OCCUPANCY	15	10%				
116	OBSERVE	MANUAL	OCCUPANCY	15	10%				
127	OBSERVE	MANUAL	OCCUPANCY	15	10%				
125	OBSERVE	MANUAL	OCCUPANCY	15	10%				
123	OBSERVE/FLEX	MANUAL	OCCUPANCY	15	10%				
106	OFFICE #1	OCCUPANCY	OCCUPANCY	15	10%		X		
107	OFFICE #2	OCCUPANCY	OCCUPANCY	15	10%		X		
117	OFFICE #3	OCCUPANCY	OCCUPANCY	15	10%		X		
118	OFFICE #4	OCCUPANCY	OCCUPANCY	15	10%		X		
111	PANTRY	OCCUPANCY	OCCUPANCY	15					
101	RECEPTION	OCCUPANCY	OCCUPANCY	15	10%	SCHEDULED	X		
132	SOUTH HALLWAY	OCCUPANCY	OCCUPANCY	15	10%	SCHEDULED	X		
105	STORAGE	OCCUPANCY	OCCUPANCY	5					
130	WEST HALLWAY	OCCUPANCY	OCCUPANCY	15	10%	SCHEDULED	X		



ESD 112 - 2200 Building
Education Facility Renovation
2200 NE 65th Ave.
Vancouver, WA 98661

DATE: 08.31.2024
DRAWN BY: DCT
JOB NO.: 26-004
REV NO.:

ELECTRICAL
SCHEDULES

E010

PERMIT SET
© 2024

PANEL: A

FED BY:

LOC: CLASSROOM #1 112

(E) Branch Panel

MKE & ASSOCIATES, INC.

PHASE

3

MOUNTING:

BUSMAN

RECESSED

200 MCA

VOLTS

120/208V/30,4W

WIRE

4

C	DESCRIPTION	A	P	No.	A	B	C	A	B	C	No.	P	A	DESCRIPTION	C
--	TELLECOM RM OUTLET	20	1	1	360		1080		1170		2	1	20	LIGHTS (HANDLE TIE 1/3)	--
--	(E)COMPUTER LAB W. WALL OUTLET	20	1	3					740		4	1	20	LIGHTS (HANDLE TIE 2/3)	--
--	(E)DCO MULTIPURPOSE RM OUTLET	20	1	5		180				740	6	1	20	LIGHTS (HANDLE TIE 3/3)	--
--	(E)COMPUTER ROOM COUNTER OUTLET	20	1	7	180			1800			8	1	20	OUTSIDE LIGHTS	--
--	COMPUTER LAB DEDICATED OUTLET	20	1	9		1800			0		10	1	20	SPARE	--
--	COMPUTER LAB DEDICATED OUTLET	20	1	11		1800			1800	12	1	20	PURCHASING & IT T.S. WALL OUTLET	--	
--	COMPUTER LAB S GUTTER OUTLET	20	2	13	1800			1800			14	1	20	UPS OUTLET	--
--	DEDICATED OUTLET STORAGE ROOM	20	2	15		1800		1800		16	1	20	COMPUTER LAB N GUTTER OUTLET	--	
--	EXISTING LOAD	20	2	17		1800		1800		18	1	20	COMPUTER LAB N GUTTER OUTLET	--	
--	EXISTING LOAD	20	2	19	1800					20	1	--	SPACE	--	
--	EXISTING LOAD	20	2	21	1800					22	1	--	SPACE	--	
--	EXISTING LOAD	20	2	23		1800				24	1	--	SPACE	--	
--	EXISTING LOAD	20	2	25	1800					26	1	--	SPACE	--	
--	EXISTING LOAD	20	2	27		1800			300	28	1	20	CONTROL TX DUCT DET	--	
--	IT 1 W WALL OUTLETS	20	1	29		1800			1500	30	1	20	WATER HEATER - 2	--	
--	EXISTING LOAD	20	3	31	1800			1000		32	2	20	EDH - TU 4, TU 5	--	
--	EXISTING LOAD	20	3	33		1800			1000	34	--	--	EDH - TU 4, TU 5	--	
--	EXISTING LOAD	20	3	35			1800			1000	36	2	20	EDH - TU 2, TU 3	--
--	EXISTING LOAD	20	3	37	1800			1000		38	--	--	EDH - TU 1	--	
--	EXISTING LOAD	20	3	39		1800			1250	40	2	20	EDH - TU 1	--	
--	EXISTING LOAD	20	3	41			1800			1250	42	--	--	EDH - TU 1	--

LOAD CODE	TOTAL (VA)	FACTOR	CODE LOAD
1 LIGHTS:	0 VA	0.00%	0 VA
2 RECEPTACLE: *	0 VA	0.00%	0 VA
3 HEATING:	0 VA	0.00%	0 VA
4 KITCHEN:	0 VA	0.00%	0 VA
5 EQUIPMENT:	0 VA	0.00%	0 VA
6 MOTORS: **	0 VA	0.00%	0 VA
7 MISC:	0 VA	0.00%	0 VA
8 EV CHARGING:	0 VA	0.00%	0 VA

PANEL TOTALS
52350 TOTAL LOAD (VA)
52350 TOTAL DEMAND (VA)
163.3 TOTAL LOAD (A)
163.3 CODE DEMAND (A)

Notes:

* FIRST 10 KVA +50% OF THE BALANCE

** 125% OF THE LARGEST MOTOR + THE BALANCE

(E) Branch Panel

PANEL: B

FED BY:

LOC: CLASSROOM #3 124

MKE & ASSOCIATES, INC.

MOUNTING:
BUSMAN

RECESSED
225 MCA

VOLTS
120V/208V/30,4W

PHASE
3

WIRE
4

C	DESCRIPTION	A	P	No.	A	B	C	A	B	C	No.	P	A	DESCRIPTION	C	
--	DEDICATED OUTLET SODA MACHINE	20	1	1	1800			1410			2	1	20	LIGHTING - OPEN WORK AREA	--	
--	IT 2 SW WALL OUTLET	20	1	3					1300		4	1	20	LIGHTING - OPEN WORK AREA	--	
--	IT 2 NW WALL OUTLET	20	1	5			1800			1250	6	1	20	LIGHTING - OPEN WORK AREA	--	
--	DCO - OPEN WORK AREA RM 3	20	1	7	720				1300		8	1	20	LIGHTING - OPEN WORK AREA	--	
--	DCO - OPEN WORK AREA RM 3	20	1	9			1080			370		10	1	20	LIGHTING - RR	--
--	DCO - OPEN WORK AREA RM 3 (SPARE IN CEILING)	20	1	11			1800			1800	12	1	20	LIGHTING - TRAINING ROOM	--	
--	DCO - OPEN WORK AREA	20	1	13	540				1800		14	1	20	LIGHTING - TRAINING ROOM	--	
--	DCO - OPEN WORK AREA	20	1	15		540			540		16	1	20	DCO - OPEN WORK AREA	--	
--	DCO - OPEN WORK AREA	20	1	17			540			1800	18	1	20	SPARE (20A/TP)	--	
--	DCO - OPEN WORK AREA	20	1	19				1800			20	1	20	SE CORNER OFFICE	--	
--	DCO - OPEN WORK AREA	20	1	21		540			1800		22	1	20	SE POWER POLE	--	
--	EAST POLE SOUTH	20	1	23			1800			1800	24	1	20	SE POWER POLE	--	
--	EAST POLE SOUTH	20	1	25	1800				540		26	1	20	DCO - OPEN WORK AREA	--	
--	EAST POLE NORTH	20	1	27		1800				540	28	1	20	DCO - OPEN WORK AREA	--	
--	EAST POLE NORTH	20	1	29			1800				1500	30	1	20	WALL HEATER 2	--
--	IT 2 - S WALL OUTLET	20	1	31	1800				100		32	1	20	REF - 1	--	
--	DCO - TLT, DP	20	1	33		1040				1500	34	1	20	WALL HEATER 3	--	
--	OUTSIDE WALL PACKS	20	1	35			1800			500	36	2	20	EDH - TUB	--	
--	SPARE (20A/TP)	20	1	37	1800				500		38	--	--	EDH - TUB	--	
--	SPARE (20A/TP)	20	1	39			1800			180	40	1	20	WATER HEATER	--	
--	SPARE (20A/TP)	20	1	41				1800			1800	42	1	20	SPARE (20A/TP)	--
LOAD CODE		TOTAL (VA)		FACTOR		CODE LOAD		PANEL TOTALS								
1 LIGHTS:		0 VA		0.00%		0 VA		53150 TOTAL LOAD (VA)								
2 RECEPTACLE: *		0 VA		0.00%		0 VA		53150 TOTAL DEMAND (VA)								
3 HEATING:		0 VA		0.00%		0 VA		147.5 TOTAL LOAD (A)								
4 KITCHEN:		0 VA		0.00%		0 VA		147.5 CODE DEMAND (A)								
5 EQUIPMENT:		0 VA		0.00%		0 VA										
6 MOTORS: **		0 VA		0.00%		0 VA										
7 MISC:		0 VA		0.00%		0 VA										
8 EV CHARGING		0 VA		0.00%		0 VA										
Notes:		* FIRST 10 KVA +50% OF THE BALANCE ** 125% OF THE LARGEST MOTOR + THE BALANCE														

(E) Branch Panel																			
PANEL: B2					MKE & ASSOCIATES, INC.					MOUNTING:		RECESSED							
FED BY:					BUSMAN					225 MCA									
LOC: CLASSROOM #3 124					VOLTS					PHASE					WIRE				
120Y/208Y/30.4W					3					4									
C	DESCRIPTION	A	P	No.	A	B	C	A	B	C	No	P	A	DESCRIPTION	C				
--	SPARE (20A/1P)	20	1	1	0			540			2	1	20	DCO - COOPER	--				
--	SPARE (20A/1P)	20	1	3	0				0		4	1	20	SPARE (20A/1P)	--				
--	SPARE (20A/1P)	20	1	5			0			0	6	1	20	SPARE (20A/1P)	--				
--	SPARE (20A/1P)	20	1	7	0			0			8	1	20	SPARE (20A/1P)	--				
--	DCO - OPEN WORK AREA	20	1	9		540			1800		10	1	20	EXISTING LOAD	--				
--	DCO - OPEN WORK AREA	20	1	11			540			1800	12	1	20	EXISTING LOAD	--				
--	DCO - OPEN WORK AREA	20	1	13		540		--			14	1	--	SPACE	--				
--	DCO - OPEN WORK AREA	20	1	15		540		--			16	1	--	SPACE	--				
--	SPACE	--	1	17	--		--	--	--	--	18	1	--	SPACE	--				
--	SPACE	--	1	19	--	--	--	--	--	--	20		--	SPACE	--				
--	SPACE	--	1	21	--	--	--	--	--	--	22	1	--	SPACE	--				
--	SPACE	--	1	23	--	--	--	--	--	--	24	1	--	SPACE	--				
--	SPACE	--	1	25	--	--	--	--	--	--	26	1	--	SPACE	--				
--	SPACE	--	1	27	--	--	--	--	--	--	28		--	SPACE	--				
--	SPACE	--	1	29	--	--	--	--	--	--	30	1	--	SPACE	--				
--	SPACE	--	1	31	--	--	--	--	--	--	32	1	--	SPACE	--				
--	SPACE	--	1	33	--	--	--	--	--	--	34	1	--	SPACE	--				
--	SPACE	--	1	35	--	--	--	--	--	--	36	1	--	SPACE	--				
--	SPACE	--	1	37	--	--	--	--	--	--	38	1	--	SPACE	--				
--	SPACE	--	1	39	--	--	--	--	--	--	40	1	--	SPACE	--				
--	SPACE	--	1	41	--	--	--	--	--	--	42	1	--	SPACE	--				
LOAD CODE		TOTAL (VA)				FACTOR		CODE LOAD				PANEL TOTALS							
1. LIGHTS:		0 VA				0.00%		0 VA											
2. RECEPTACLE 1:		0 VA				0.00%		0 VA				6300 TOTAL LOAD (VA)							
3. HEATING:		0 VA				0.00%		0 VA				6300 TOTAL DEMAND (VA)							
4. KITCHEN:		0 VA				0.00%		0 VA				17.5 TOTAL LOAD (A)							
5. EQUIPMENT:		0 VA				0.00%		0 VA				17.5 CODE DEMAND (A)							
6. MOTORS **		0 VA				0.00%		0 VA											
7. MISC:		0 VA				0.00%		0 VA											
8. EV CHARGING		0 VA				0.00%		0 VA											
Notes:																			
* FIRST 10 KW = 50% OF THE BALANCE																			
** 125% OF THE LARGEST MOTOR * THE BALANCE																			

Branch Panel																	
PANEL: A1				MME & ASSOCIATES, INC.								MOUNTING: SURFACE		BUSMAN	600 MCA		
FED BY:																	
LOC:																	
				VOLTS				PHASE				WIRE					
				120V(208V, 30.4W)				3				4					
C	DESCRIPTION	A	P	No.	A	B	C	A	B	C	No.	P	A	DESCRIPTION	C		
2	R- RECEPTION	20	1	1	540			1080			2	1	20	R- DIRECTOR DESK	2		
2	R- DIRECTOR	20	1	3		540				1260	4	1	20	R- GENERAL FRONT RR HALL	2		
2	R- OFFICE 1	20	1	5			900				900	6	1	20	R- OFFICE 2	2	
2	R- OFFICE 3	20	1	7	900			900			8	1	20	R- OFFICE 4	2		
2.5	R- CLASSROOM #1	20	1	9		900			900		10	1	20	R- CLASSROOM #1	2		
2	R- CONFERENCE	20	1	11			1080			160	12	1	20	(GFCI) R- WATER COOLER	2		
2	R- IT TELEPHONE BOARD	20	1	13	360			360			14	1	20	R- IT TELEPHONE BOARD	2		
5	R- SERVER	30	2	15		1500			180		16	1	20	R- IT ROOM	2		
2	R- WASHER	--	--	17	--	--	1500	--	--	180	18	1	20	R- LAUNDRY	2		
2	R- DRYER	30	1	19		1000		1000			20	1	20	R- LAUNDRY	2		
2	R- DRYER	30	2	21		2000		2000		2000	22	2	30	R- DRYER	2		
--	--	--	--	23	--	--	2000	--	--	2000	24	--	--	--	--		
2	R- S. HALL AND OBSERVATION RM	20	1	25	900			1183			26	1	20	L- HALLWAY	1 L		
1	L- CLASSROOMS 1-3	20	1	27		1036			648		28	1	20	L- CLASSROOM 45	1		
1	L- MECH PLATFORM LIGHTING	20	1	29			840			720	30	1	20	R- ROOF MAINTENANCE	2		
2	R- OBSERVATION ROOMS	20	1	31	1080			215			32	1	20	L- EXTERIOR LIGHTING	1		
2	R- OBSERVATION ROOMS	20	1	33		1080			900		34	1	20	R- CLASSROOM #2	2		
2	R- BREAK ROOM	20	1	35			720			900	36	1	20	R- CLASSROOM #2	2.5		
2.5	R- CLASSROOM #5	20	1	37	900			900			38	1	20	R- CLASSROOM #5	2		
2.5	R- CLASSROOM #4	20	1	39		900			900		40	1	20	R- CLASSROOM #3	2		
2	R- CLASSROOM #4	20	1	41			900			1331	42	2	30	RTU4	5		
2	R- CLASSROOM #3	20	1	43		720		1331			44	--	--	--	--		
5	RTU-1	30	2	45		1331			1331		46	2	30	RTU-5	5		
--	--	--	--	47	--	--	1331	--	--	1331	48	--	--	--	--		
5	RTU-2	30	2	49	1331			6167			50	3	30	RTU-6	5		
--	--	--	--	51	--	--	1331	--	--	6167	52	--	--	--	--		
5	RTU-3	30	2	53			1331			6167	54	--	--	--	--		
--	--	--	--	55	--	--	1331	--	--	4783	56	3	30	RTU-7	5		
5	DOAS-2	25	1	57		3740			4783		58	--	--	--	--		
5	FAN COIL UNIT, FCU-1	20	2	59		90		90		4783	60	--	--	--	--		
--	--	--	--	61	90			90			62	2	20	FAN COIL UNIT, FCU-2	5		
5	DOAS-1	45	3	63		4300			90		64	--	--	--	--		
--	--	--	--	65	--	--	4300	--	--	79	66	1	20	OFFICE RR EXHAUST FANS	6		
--	--	--	--	67	4300			69			68	1	20	CLASSROOM RR EXHAUST FANS	6		
5	WATER HEATER 1	70	2	69		6000			180		70	1	20	CIRCULATION PUMP	6		
--	--	--	--	71	--	--	6000	--	--	6000	72	2	70	WATER HEATER 2	5		
5	HP-1	20	1	73	1500			6000			74	--	--	--	--		
--	SPARE (20A/1P)	20	1	75		0		0		1500	76	1	20	HP-2	5		
--	SPARE (20A/1P)	20	1	77		0		0		0	78	1	20	SPARE (20A/1P)	--		
--	SPARE (20A/1P)	20	1	79	0		0	0		0	80	1	20	SPARE (20A/1P)	--		
--	SPARE (20A/1P)	20	1	81	0		0	0		0	82	1	20	SPARE (20A/1P)	--		
--	SPARE (20A/1P)	20	1	83	0		0	0		84	1	20	SPARE (20A/1P)	--			
LOAD CODE		TOTAL (VA)			FACTOR			CODE LOAD			PANEL TOTALS						
1	LIGHTS	3890 VA			125.00%			4863 VA			13098 TOTAL LOAD (VA)						
2	RECEPTACLE *	31200 VA			60.00%			20200 VA			12093 TOTAL DEMAND (VA)						
3	HEATING	0 VA			0.00%			0 VA			361.1 TOTAL LOAD (A)						
4	KITCHEN	0 VA			0.00%			0 VA			334.5 CODE DEMAND (A)						
5	EQUIPMENT:	94600 VA			100.00%			94600 VA									
6	MOTORS **	328 VA			113.75%			373 VA									
7	MISC.	0 VA			0.00%			0 VA									
8	EV CHARGING	0 VA			0.00%			0 VA									
Notes:		* FIRST 10 KVA +50% OF THE BALANCE ** 125% OF THE LARGEST MOTOR + THE BALANCE															

Branch Panel															
PANEL: K1					MKE & ASSOCIATES, INC.					MOUNTING: SURFACE		BUSMAN 400 MCA			
FED BY:															
LOC: KITCHEN 110															
					VOLTS 120V(208V, 30.4W)					PHASE 3		MISC 4			
C	DESCRIPTION	A	P	No.	A	B	C	A	B	C	No.	P	A	DESCRIPTION	C
4	(GFCI) FREEZER	20	1	1	978			713			2	1	20	(GFCI) REFRIGERATOR	4
4	HOOD	20	1	3		500				10633	4	3	125	(SHUNT TRIP) RANGE	4
4	DISHWASHER	40	3	5			3267			10633	6	--	--	--	--
--	--	--	--	7	3267			10633			8	--	--	--	--
--	--	--	--	9	--	--	3267	--	--	--	10	1	--	(SPACE FOR SHUNT TRIP)	--
4	(GFCI) REFRIGERATOR	20	1	11			432			16667	12	3	150	KITCHEN MAKEUP AIR UNIT	5
6	MAKE UP AIR UNIT FAN	20	1	13	1392			16667			14	--	--	--	--
2	R-GENERAL RECEPTACLE	20	1	15		180			16667		16	--	--	--	--
2	R-GENERAL RECEPTACLE	20	1	17		180			1575		18	1	20	(GFCI) WARMING OVEN	4
2	R-GENERAL RECEPTACLE	20	1	19	180			180			20	1	20	R-GENERAL RECEPTACLE	2
2	R-GENERAL RECEPTACLE	20	1	21		180			180		22	1	20	R-GENERAL RECEPTACLE	2
2	R-GENERAL RECEPTACLE	20	1	23			180			180	24	1	20	R-GENERAL RECEPTACLE	2
2	R-GENERAL RECEPTACLE	20	1	25	180			180			26	1	20	R-GENERAL RECEPTACLE	2
2	R-GENERAL RECEPTACLE	20	1	27		180				360	28	1	20	L-KITCHEN	1
--	SPARE (20A/1P)	20	1	29		0		0		0	30	1	20	SPARE (20A/1P)	--
--	SPARE (20A/1P)	20	1	31	0		0	0		0	32	1	20	SPARE (20A/1P)	--
--	SPARE (20A/1P)	20	1	33		0		0		0	34	1	20	SPARE (20A/1P)	--
--	SPARE (20A/1P)	20	1	35		0		0		0	36	1	20	SPARE (20A/1P)	--
--	SPARE (20A/1P)	20	1	37	0		0	0		0	38	1	20	SPARE (20A/1P)	--
--	SPARE (20A/1P)	20	1	39		0		0		0	40	1	20	SPARE (20A/1P)	--
--	SPARE (20A/1P)	20	1	41		0		0		0	42	1	20	SPARE (20A/1P)	--
LOAD CODE		TOTAL (VA)			FACTOR			CODE LOAD			PANEL TOTALS				
1	LIGHTS	360 VA			125.00%			450 VA			9930 TOTAL LOAD (VA)				
2	RECEPTACLE *	1980 VA			100.00%			1980 VA			9175 TOTAL DEMAND (VA)				
3	HEATING	0 VA			0.00%			0 VA			276.5 TOTAL LOAD (A)				
4	KITCHEN	45988 VA			98.05%			45005 VA			275.3 CODE DEMAND (A)				
5	EQUIPMENT	50000 VA			100.00%			50000 VA							
6	MOTORS **	1760 VA			125.00%			1760 VA							
7	MISC.	0 VA			0.00%			0 VA							
8	EV CHARGING	0 VA			0.00%			0 VA							
Notes:															
* FIRST 10 KVA +50% OF THE BALANCE															
** 125% OF THE LARGEST MOTOR + THE BALANCE															

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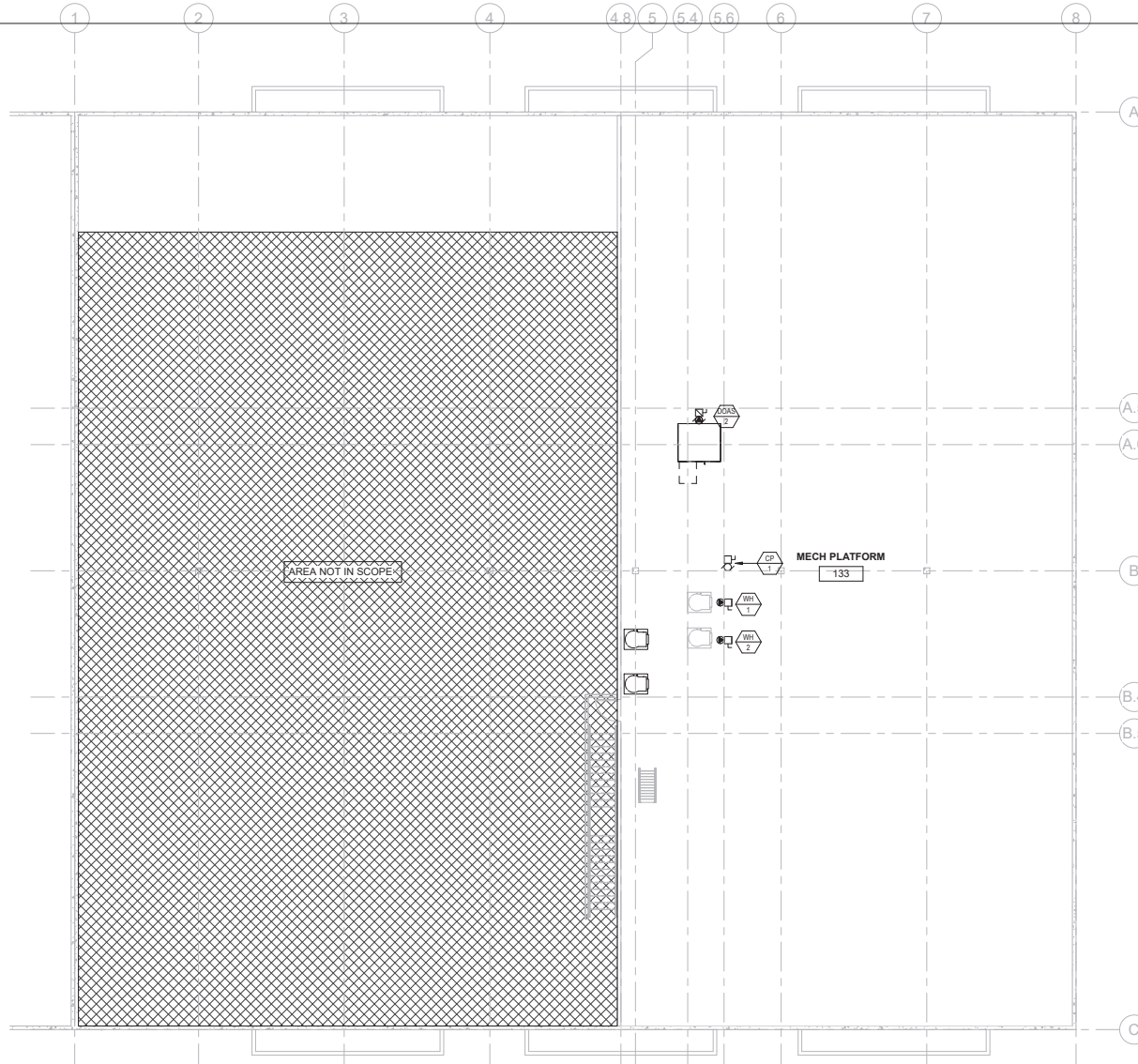
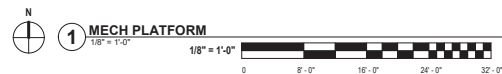
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ELECTRICAL SITE
 PLAN

E100

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GENERAL NOTES

1. ELECTRICAL CONDUITS SHALL BE EITHER CONCEALED IN THE ROOM CEILING, WALLS, FLOOR OR IN EXPOSED CEILING AREAS TIGHT UNDER THE TOP CHORD OF THE CEILING BAR JOIST, OR RUNNING PARALLEL TO THE ROOF WIDE FLANGE BEAMS MOUNTED TIGHT TO THE VERTICAL WEBS. NO CONDUIT SHALL BE RUN PERPENDICULAR TO CEILING ROOF BEAMS UNDER THE BOTTOM CHORDS. NO EXPOSED CONDUIT ALLOWED ONLY WITH PRIOR APPROVAL OF ARCHITECT. FLEX CONDUIT ALLOWED ONLY WITH PRIOR APPROVAL OF ARCHITECT OR ENGINEER OF RECORD.
2. COORDINATE EXACT LOCATION OF POWER OUTLETS AND EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
3. CONDUCTOR DESIGNATIONS "TIC MARKS" MAY NOT APPEAR ON THIS DRAWING. CONDUCTORS SHALL BE PROVIDED AS NECESSARY TO ACCOMPLISH THE INTENT OF THE CIRCUITING.

POWER AND
SIGNAL PLAN -
MECHANICAL
PLATFORM

E202

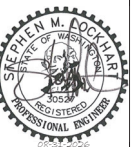
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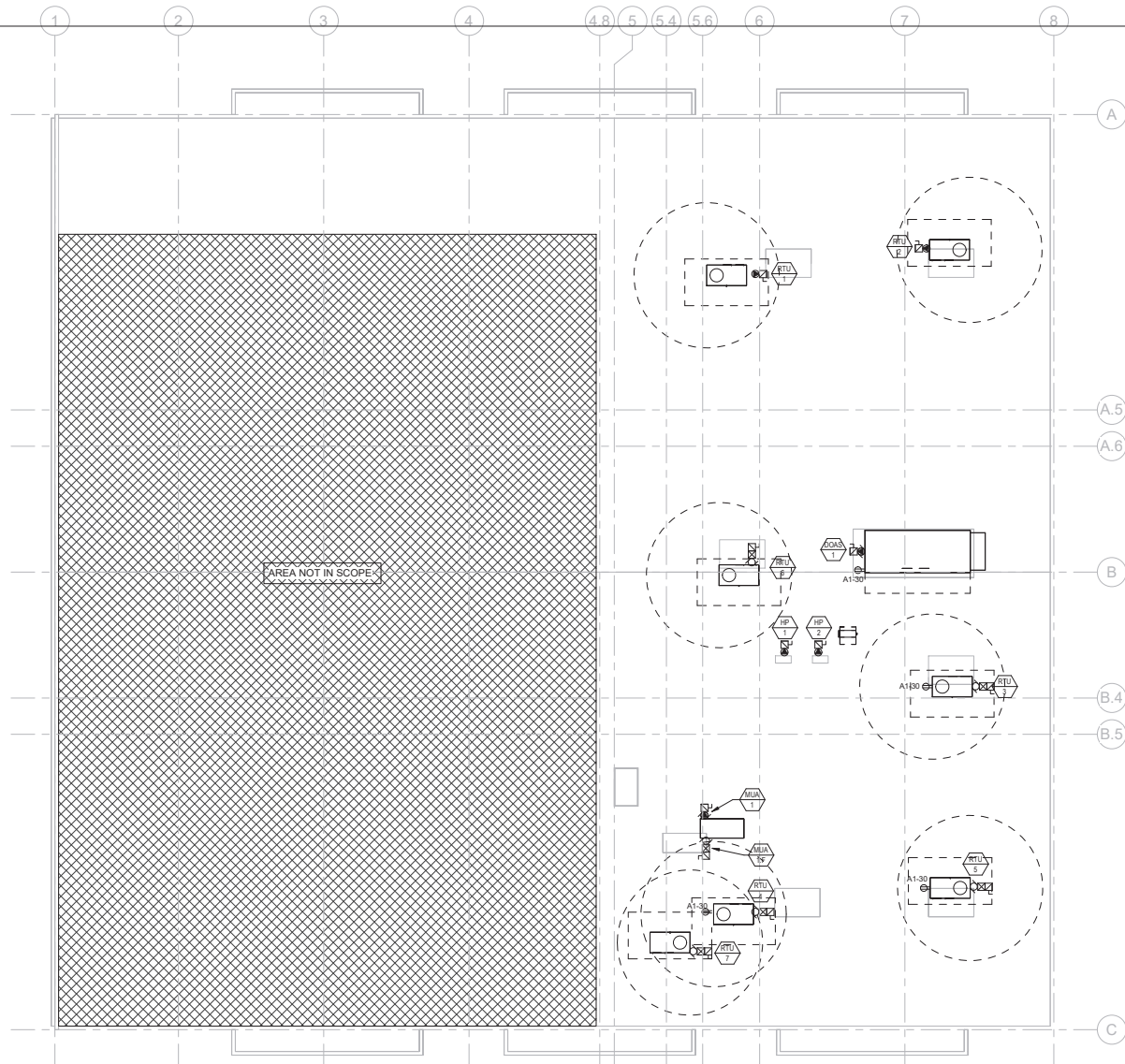


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1 PARAPET
1/8" = 1'-0"



GENERAL NOTES

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POWER AND
SIGNAL PLAN -
PARAPET

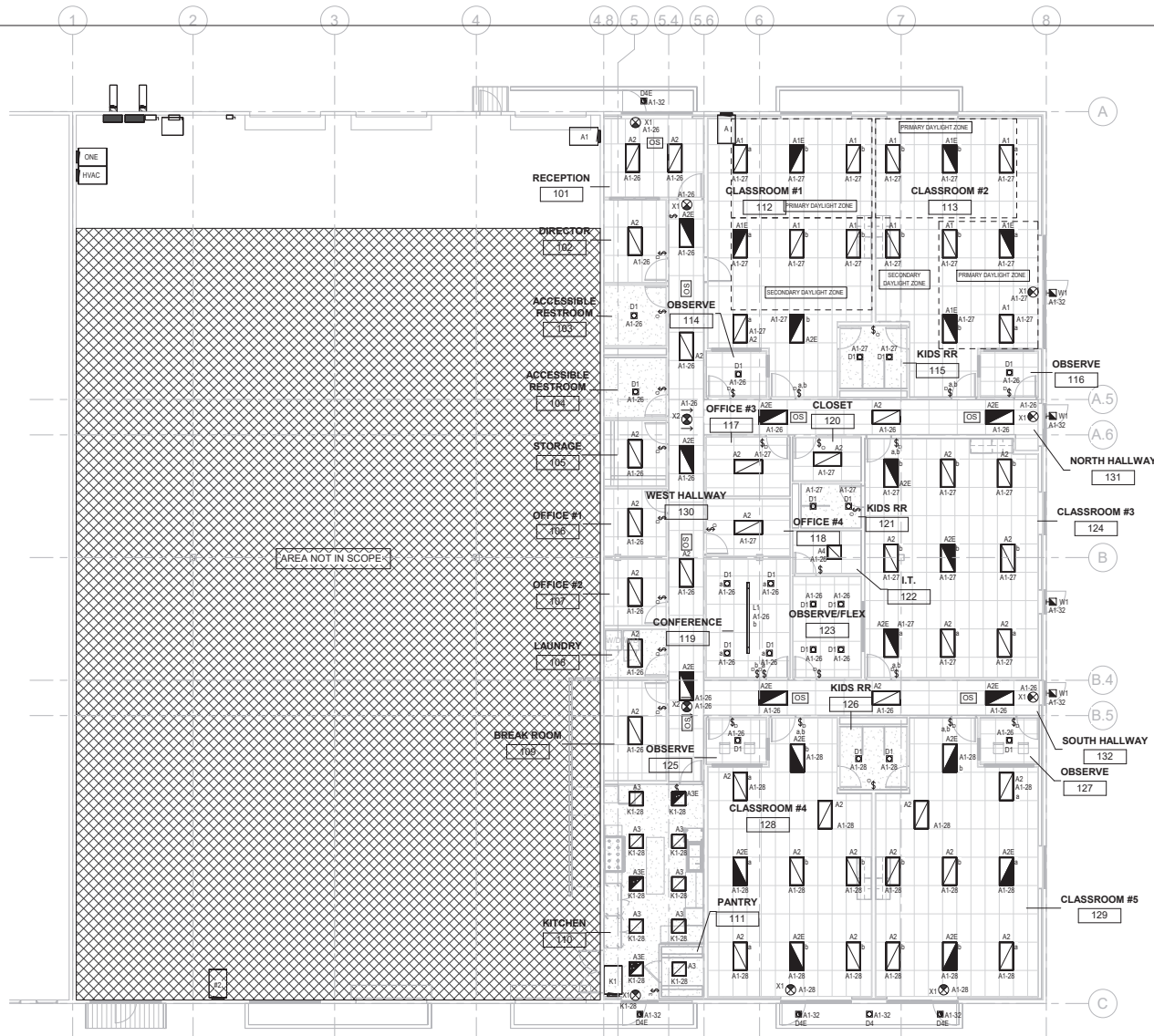
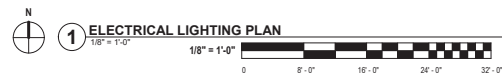
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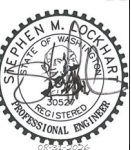
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2. COORDINATE EXACT LOCATION LIGHT FIXTURES AND RELATED EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
3. CONDUCTOR DESIGNATIONS "TC MARKS" MAY NOT APPEAR ON THIS DRAWING. CONDUCTORS SHALL BE PROVIDED AS NECESSARY TO ACCOMPLISH THE INTENT OF THE CIRCUITING.
4. EXIT SIGNS AND EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.

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LIGHTING PLAN -
LEVEL 1

E301

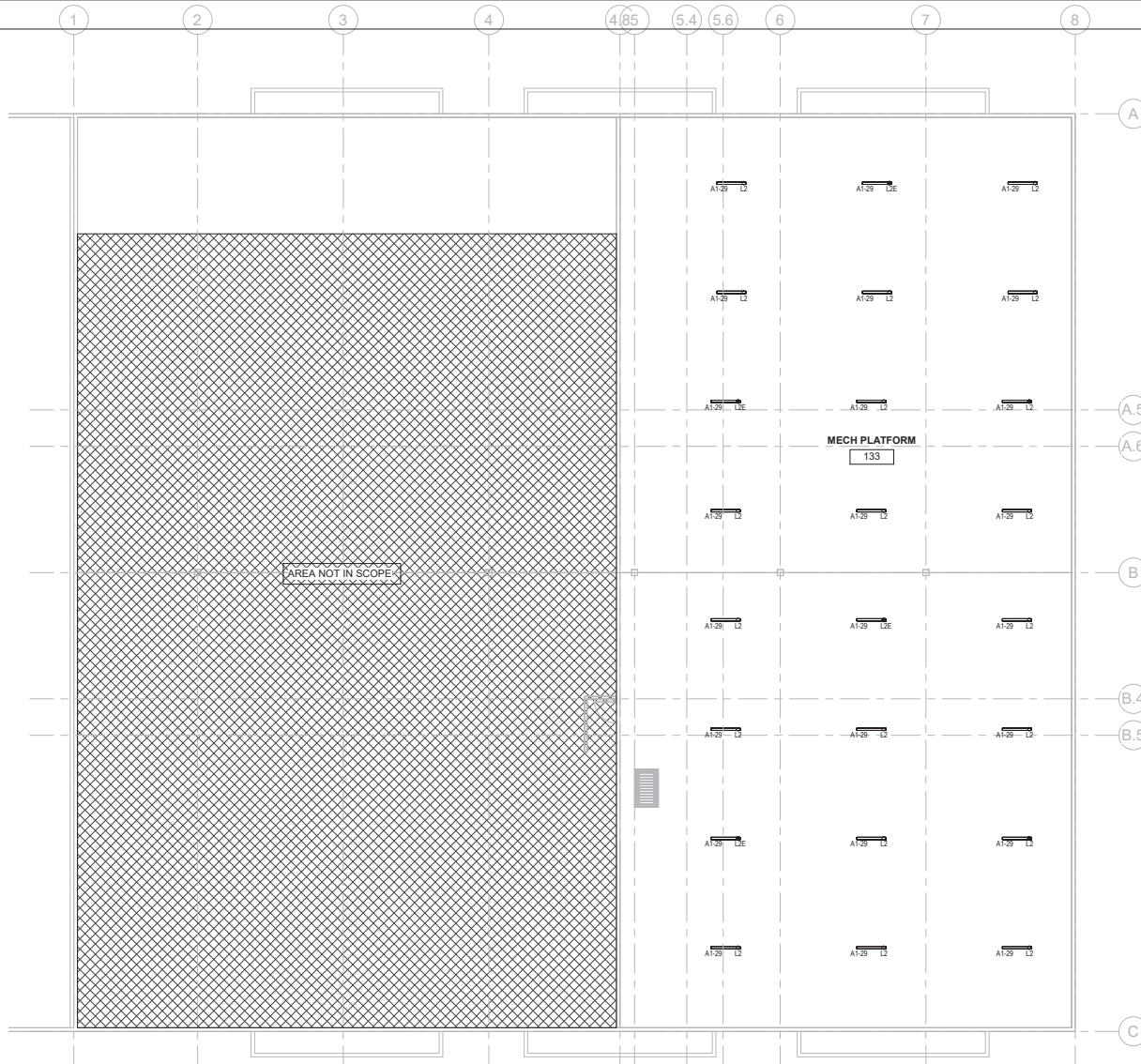
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1 MECH PLATFORM

1/8" = 1'-0"

1/8" = 1'-0"



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LIGHTING PLAN -
MECH PLATFORM

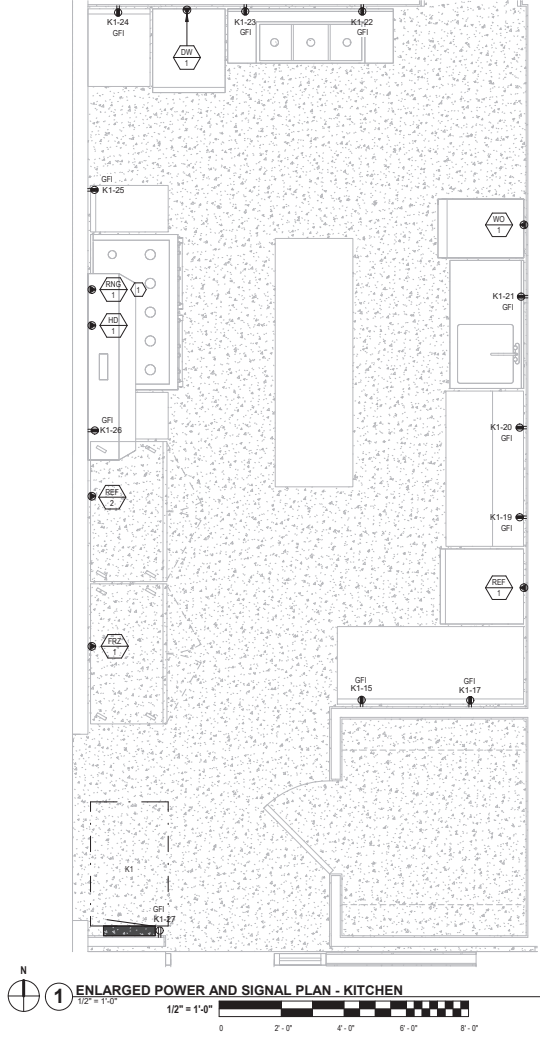
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KITCHEN EQUIPMENT SCHEDULE												
EQUIP TAG	EQUIP NUMBER	DESCRIPTION	VOLTAGE (V)	PHASE	LOAD (VA)	HP	FLA	MCA	FEEDER (CU)	PANEL	CIRCUIT	COMMENTS
DW	1	DISHWASHER	208	3	800 VA		27	32	3/4" C, 48B, #10S	K1	5,7,9	
FRZ	1	FREEZER - LARGE	120	1	878 VA		8.5	10	1/2" C, 2W12, #12S	K1	1	
HD	1	HOOD FAN AND LIGHTS	120	1	500 VA		8.9	10	1/2" C, 2W12, #12S	K1	3	
MUA	1	MAKEUP AIR UNIT	208	3	50000 VA		0	141	2" C, 4W10, #6	K1	12,14,16	ON ROOF PLAN
REF	1	REFRIGERATOR - SMALL	120	1	432 VA		3.6	5	1/2" C, 2W12, #12S	K1	11	
REF	2	REFRIGERATOR - LARGE	120	1	713 VA		6.2	9	1/2" C, 2W12, #12S	K1	2	
RNG	1	10 BURNER RANGE	208	3	31900 VA		88.5	100	1-1/2" C, 4W1, #8G	K1	4,6,8	HARDWIRED
WO	1	WARMING OVEN	120	1	1575 VA		13.1	0	1/2" C, 2W12, #12S	K1	18	



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- PROVIDE GFI TYPE CIRCUIT BREAKER IN PANEL FOR CIRCUITS SERVING RECEPTACLES LOCATED IN THE KITCHEN THAT ARE 50A AND LESS.
- SEAL OFF CONDUIT PENETRATIONS IN WALK-IN COOLER PER COOLER INSTALLER REQUIREMENTS.

KEYED NOTES:

- ELECTRICAL CONNECTIONS UNDER HOOD SHALL BE PROVIDED WITH SHUNT TRIP BREAKER FOR AUTOMATIC SHUTOFF. REFER TO KITCHEN HOOD DRAWINGS FOR CONNECTION TO CONTROL PANEL.

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