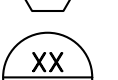

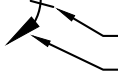



PLOTTED: DANIEL DERHEIMER 3/23/2022 12:19 PM
 5749E0-COOPER.MT

REFERENCE SYMBOLS & WIRING



XX

PLAN NOTE MARK

XX
XX

SHEET REFERENCE MARK

XX
XX

MECHANICAL EQUIPMENT NOTE MARK

XX

SHOP EQUIPMENT NOTE MARK

XX

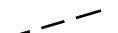
KITCHEN EQUIPMENT NOTE MARK

XX


FEEDER MARK

[+ XX"]
STANDARD MOUNTING HEIGHT TO CENTER UNLESS OTHERWISE NOTED ON DRAWINGS



LINETYPE LEGEND



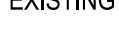

UNDER GROUND



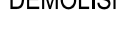

ABOVE GROUND, IN WALL, CEILING, ETC



NEW EQUIPMENT (TYPICAL)



EXISTING EQUIPMENT (TYPICAL)



DEMOLISHED EQUIPMENT (TYPICAL)

ABBREVIATIONS

(E)

EXISTING TO REMAIN

(F)

FUTURE

(R)

EXISTING TO BE RELOCATED

(D)

EXISTING TO BE DEMOLISHED

AC

ALTERNATING CURRENT

A, AMP

AMPERES

AFF

ABOVE FINISHED FLOOR

AFG

ABOVE FINISHED GRADE

AFI

ARC FAULT CIRCUIT INTERRUPTER

AHJ

AUTHORITY HAVING JURISDICTION

AIC

EQUIPMENT SHORT CIRCUIT INTERRUPT RATING

AL

ALUMINUM

ATS

AUTOMATIC TRANSFER SWITCH

AUX

AUXILIARY

AWG

AMERICAN WIRE GAUGE

C

CONDUIT

CB

CIRCUIT BREAKER

CKT

CIRCUIT

CO

CARBON MONOXIDE

CR

CONTROLLED RECEPTACLE

CT

CURRENT TRANSFORMER

CU

COPPER

DC

DIRECT CURRENT

DISC

DISCONNECT

DIA

DIAMETER

DMX

DIGITAL MULTIPLEX

DWG

DRAWING

EF

EXHAUST FAN

EM

EMERGENCY

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

GFCI

GROUND FAULT CIRCUIT INTERRUPTER

GFEP

GROUND FAULT EQUIPMENT PROTECTION

GND

GROUND

HP

HORSEPOWER

HTR

HEATER

IG

ISOLATED GROUND

IR

INFRARED

INV

INVERTER

KCM

THOUSAND CIRCULAR MILS

KW

THOUSAND WATTS

KVA

THOUSAND VOLT-AMPERES

LTG

LIGHTING

LCP

LIGHTING CONTROL PANEL

MB

MAIN BREAKER

MCA

MINIMUM CIRCUIT AMPERES

MDP

MAIN DISTRIBUTION PANEL

MIN

MINIMUM

MLO

MAIN LUGS ONLY

NAC

NOTIFICATION APPLIANCE CIRCUIT

NEC

NATIONAL ELECTRICAL CODE

NEMA

NATIONAL ELECTRICAL MFR'S ASSOCIATION.

NTS

NOT TO SCALE

OFCI

OWNER FURNISHED, CONTRACTOR INSTALLED

OFIO

OWNER FURNISHED, OWNER INSTALLED

OS

OCCUPANCY SENSOR

PH, Ø

PHASE

PNL

PANEL

SDP

SUB DISTRIBUTION PANEL

TEL

TELEPHONE

TK

TOE KICK MOUNTED

TVSS

TRANSIENT VOLTAGE SURGE SUPPRESSION

TYP

TYPICAL

UC

UNDERCABINET

UPS

UNINTERRUPTIBLE POWER SUPPLY

USB

UNIVERSAL SERIAL BUS

V

VOLTS

VA

VOLT-AMPERES

VFD

VARIABLE FREQUENCY DRIVE

W

WATT



WP

WEATHERPROOF



XFMR

TRANSFORMER



DISTRIBUTION & EQUIPMENT





FLUSH ELECTRICAL PANEL
SURFACE ELECTRICAL PANEL




FLUSH CONTROL PANEL
SURFACE CONTROL PANEL



TRANSFORMER
VAULT





ABOVE GROUND JUNCTION BOX
METER AND SOCKET




SERVICE ENTRANCE POWER POLE



POWER DEVICES





SINGLE RECEPTACLE
DUPLEX RECEPTACLE





DOUBLE DUPLEX RECEPTACLE





[FLUSH IN FLOOR]





[ABOVE COUNTER]





[IN CEILING]





CONTROLLED RECEPTACLES





[ABOVE COUNTER]





USB DUPLEX RECEPTACLE
ISOLATED GROUND RECEPTACLES





GFCI, USB/GFCI, ISOLATED/GFCI





POWER/DATA BOX [RECESSED IN FLOOR]
POWER/DATA POLE





SPECIAL PURPOSE POWER RECEPTACLE
ELECTRICAL EQUIPMENT CONNECTION





MAGNETIC STARTER
VARIABLE FREQUENCY DRIVE





SAFETY SWITCH
FUSED SAFETY SWITCH





ELECTRICAL MOTOR CONNECTION
SINGLE POINT ELECTRICAL CONNECTION



JUNCTION BOX
JUNCTION BOX [IN FLOOR]





JUNCTION BOX WITH EMERGENCY CIRCUIT
PUSH BUTTON CONTROL





UP/DOWN/STOP PUSH BUTTON CONTROL
WALL HEATER



TELECOMMUNICATION DEVICES







DATA OUTLET 1-PORT [+ 18"]
DATA OUTLET 2-PORT [+ 18"]







DATA OUTLET 3-PORT [+ 18"]
DATA OUTLET 4-PORT [+ 18"]



DATA OUTLET FOR WIRELESS NODE 1-PORT [+ 96"]





[ABOVE COUNTER]





[IN CEILING]



SIGNAL DEVICES





VOLUME CONTROL [+ 45"]
AUDIOVISUAL OUTLET [+ 18"]





MICROPHONE OUTLET [+ 18"]
ANALOG CLOCK [+ 96"]





TIME CLOCK/SWITCH
ANALOG CLOCK & SPEAKER [+ 96"]





DIGITAL CLOCK
DIGITAL CLOCK & SPEAKER [+ 96"]



SPEAKER [IN CEILING]
SPEAKER-WALL MOUNTED [+ 84"]


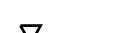




CALL BUTTON
THERMOSTAT [+ 45"]





DMX CONTROL OUTLET
BUZZER






FIRE ALARM DEVICES







PULL STATION [+ 45"]
STROBE [+ 88"]
HORN [+ 88"]
HORN / STROBE [+ 88"]







SPEAKER / STROBE [+ 88"]
[IN CEILING]





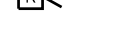
HEAT DETECTOR
DUCT SMOKE DETECTOR
IONIZATION TYPE SMOKE DETECTOR
PHOTO ELECTRIC TYPE SMOKE DETECTOR
PHOTO ELECTRIC TYPE SMOKE & CO DETECTOR





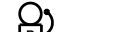
FIRE/SMOKE DAMPER
FIRE DOOR RELEASE
IR SMOKE DETECTOR TRANSMITTER
IR SMOKE DETECTOR RECEIVER



SPRINKLER FLOW SWITCH
SPRINKLER TAMPER SWITCH
BELL
KNOX BOX



MAGNETIC DOOR HOLDER
CONTROL MODULE
ALARM MODULE






IONIZATION TYPE SMOKE DETECTOR
W/ INTEGRAL HORN & STROBE
PHOTO ELECTRIC TYPE SMOKE DETECTOR
W/ INTEGRAL HORN & STROBE
PHOTO ELECTRIC TYPE SMOKE & CO DETECTOR
W/ INTEGRAL HORN & STROBE


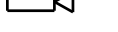

FIRE ALARM DESIGN BUILD NOTE:

PER SPECIFICATION SECTION 28 31 00 - THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, FURNISHING, AND INSTALLING A COMPLETE FIRE ALARM SYSTEM, INCLUDING, BUT NOT LIMITED TO, ALL ADDRESSABLE FIRE ALARM PANELS, NAC PANELS, INITIATION DEVICES, MONITORING DEVICES, CONTROL DEVICES, ANNUNCIATION DEVICES, AND OTHER EQUIPMENT AS REQUIRED BY OTHER DIVISIONS OF THE SPECIFICATIONS AND LOCAL AHJ.





SECURITY DEVICES







GLASS BREAK DETECTOR
DIRECTIONAL MOTION SENSOR
360° MOTION SENSOR




VIDEO SURVEILLANCE CAMERA
FLUSH AUTOMATIC DOOR ACTUATOR [+ 45"]
KEYPAD [+ 45"]



MAGNETIC DOOR SWITCH
ELECTRIC STRIKE
ELECTRIC LOCK
MAGNETIC DOOR LOCK








CENTRONIC DOOR CLOSER
CARD READER [+ 45"]
REQUEST TO EXIT DEVICE
VIDEO CALL STATION



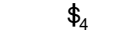


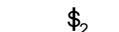
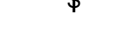



















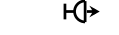


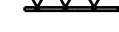




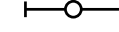





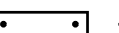




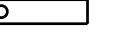
VIDEO RECEIVER STATION

NURSE CALL



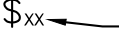
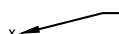
CORRIDOR LIGHT [ABOVE DOOR]
CORRIDOR LIGHT [IN CEILING]
EMERGENCY PULL CORD STATION
DUTY STATION
MASTER STATION

LIGHTING DEVICES







SURFACE MOUNTED LUMINAIRES
[EMERGENCY]
RECESSED LUMINAIRES
[EMERGENCY]
PENDANT MOUNTED LUMINAIRES
[EMERGENCY]
WALL MOUNTED LUMINAIRES
[EMERGENCY]
STRIP LUMINAIRE
[EMERGENCY]
WALL WASH LUMINAIRES
TRACK LIGHTING SYSTEM
DIRECTIONAL LUMINAIRE [IN GRADE]
FLOOD LUMINAIRE
STEP LUMINAIRE
[EMERGENCY]
POLE ARM MOUNT LUMINAIRE
POLE TOP MOUNT LUMINAIRE
LIGHTED BOLLARD
[EMERGENCY]
BATTERY PACK EM LUMINAIRE [WALL MOUNT]
BATTERY PACK EM LUMINAIRE [CEILING MOUNTED]
EXIT SIGN [CEILING MOUNTED]
EXIT SIGN [WALL MOUNTED]
EXIT SIGN W/ EMERGENCY LIGHT
SINGLE-POLE SWITCH [+ 45"]
TWO-POLE SWITCH [+ 45"]
THREE-WAY SWITCH [+ 45"]
FOUR-WAY SWITCH [+ 45"]
OCCUPANCY SENSOR SWITCH [+ 45"]
OCCUPANCY SENSOR & DIMMER SWITCH [+ 45"]
DIMMER SWITCH [+ 45"]
LOW-VOLTAGE SWITCH [+ 45"]
KEYED SWITCH [+ 45"]
SWITCH WITH PILOT LIGHT [+ 45"]
MULTI-ZONE WALL POD [+ 45"]
OCCUPANCY SENSOR 360° [CEILING MOUNTED]
DIRECTIONAL OCCUPANCY SENSOR [UNIVERSAL MOUNT]
OCCUPANCY SENSOR POWER PACK
PHOTOCELL
DAYLIGHT SENSOR
EMERGENCY LOAD TRANSFER DEVICE
LIGHTING CONTACTOR
ROOM CONTROLLER WITH [X] # RELAYS

SWITCH - LUMINAIRE CONTROL



SWITCH FOR ZONE 'X'
'XX'-TYPE SWITCH



TYPE 'XX' LUMINAIRE
LUMINAIRE IN ZONE 'X'
CIRCUIT NUMBER
CONTROL IN ZONE 'X'

NOTE: SYMBOLS AND DEFINITIONS LISTED ON TITLE SHEET ARE TYPICAL OF ALL PROJECTS AND SOME MAY NOT BE PRESENT IN ANY GIVEN DRAWING SET.

DRAWING INDEX

DWG

DESCRIPTION

E0

ELECTRICAL TITLE SHEET

E1

FLOOR PLAN - ELECTRICAL

E2

PANEL SCHEDULES

PROJECT SCOPE

- CONNECT GYMNASIUM LIGHTING TO EMERGENCY POWER.
- PROVIDE EMERGENCY POWER TO SELECT RECEPTACLES IN MAIN OFFICE.
- PROVIDE EMERGENCY POWER ACCESS CONTROL SYSTEMS.
- PROVIDE EMERGENCY POWER TO LUMINARIES AT EXTERIOR EGRESS DOORS.
- UPGRADE EXISTING PANEL SCHEDULES TO REFLECT CHANGES. PROVIDE TYPE WRITTEN PANEL SCHEDULES.
- CONNECT MAIN OFFICE LIGHTING TO EMERGENCY CIRCUIT.

PROJECT CONTACTS

BEAVERTON SCHOOL DISTRICT
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HANK BARLEEN
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DANIEL DERHEIMER
EMAIL: DANIELD@MKE-INC.COM

MKE
CONSULTING ENGINEERS
MECHANICAL AND ELECTRICAL SYSTEMS
6915 S MACADAM AVE.
SUITE 200
PORTLAND, OREGON 97219
PHONE: 503.892.1188
FAX: 503.892.1190
CONTACT: HANK BARLEEN
engineering@mke-inc.com



DISTRICT-WIDE FIRE ALARM RESILIENCY-8331 PROJECT
 COOPER MT. ELEMENTARY
 BEAVERTON S.D.
 7670 SW 170TH AVE.
 BEAVERTON, OR 97007

ISSUE DATE:

03-23-2022

SET TYPE:

BID

REVISIONS:

DRAWN BY:

DD

DESIGNED BY:

HB

CHECKED BY:

SL

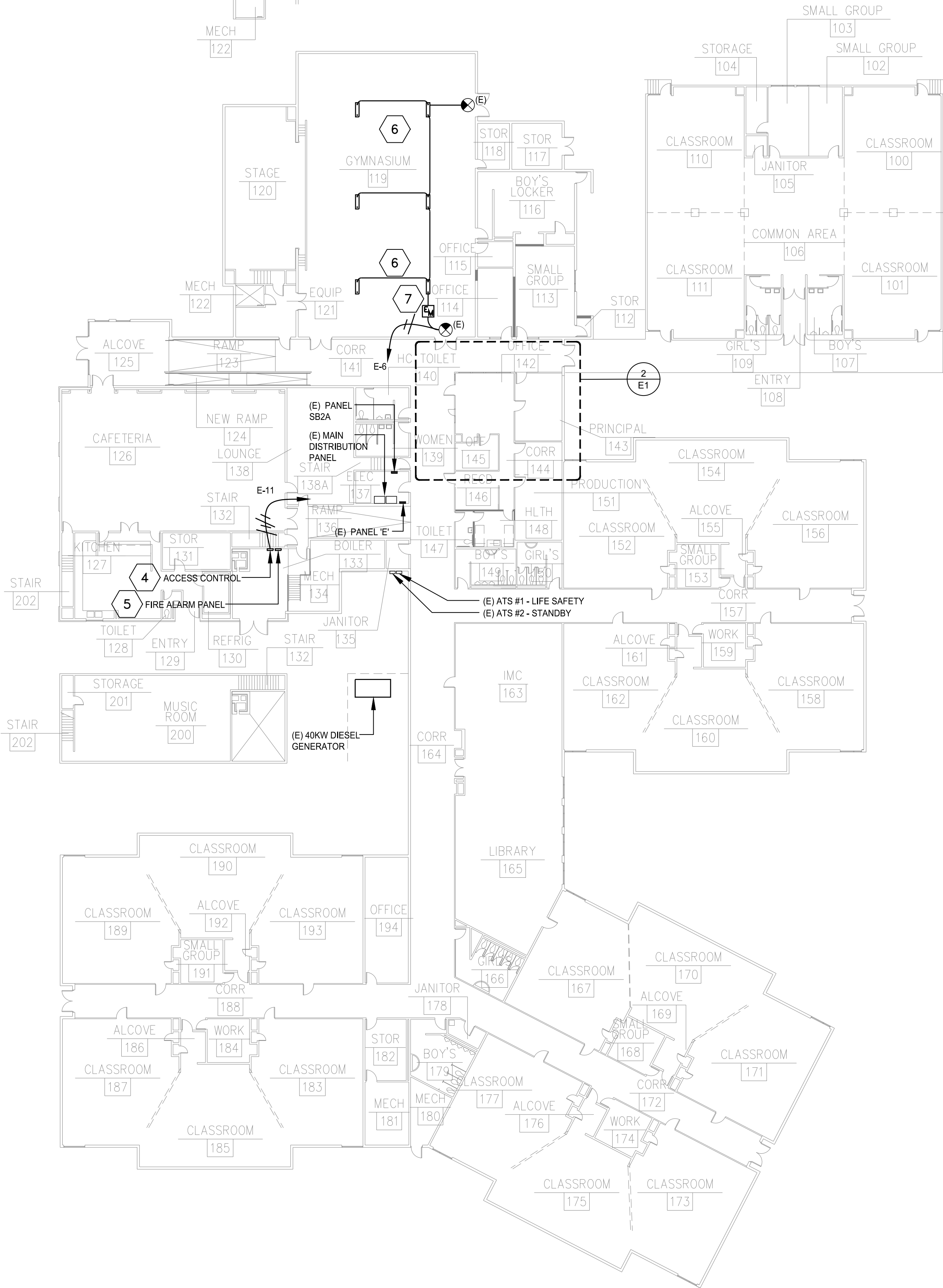
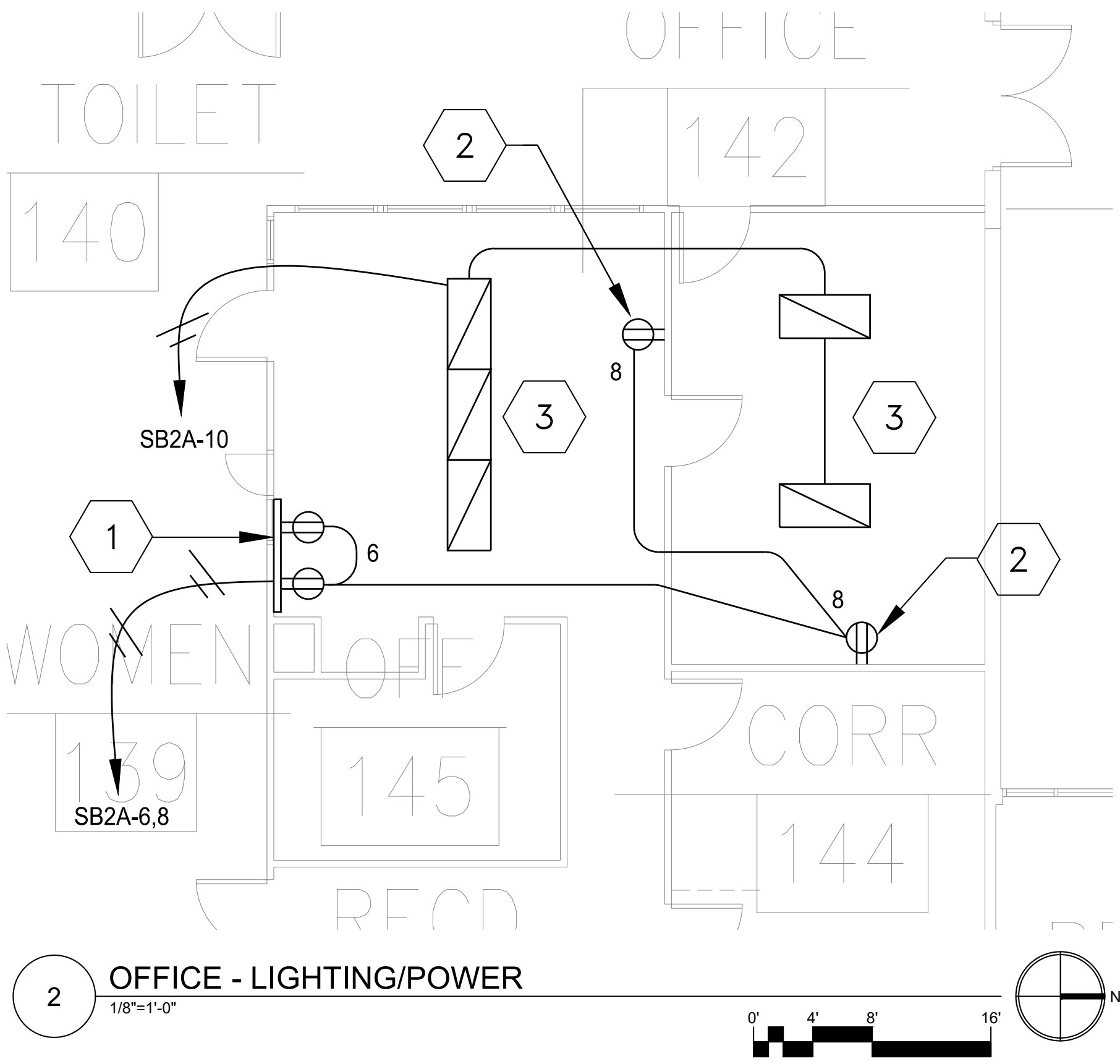
MKE JOB #:

BV-5749

ELECTRICAL -
TITLE
SHEET

E0

PLOTTED: DANIEL DERHEIMER 3/23/2022 12:21 PM
 5749E1-COOPER MT



KEYED NOTES:

- PROVIDE AND INSTALL 72" OF SURFACE MOUNT WIREMOLD 4000 WITH RECEPTACLES (4 TOTAL) ON 18" CENTERS. UTILIZE EXISTING RECEPTACLE TO EXTEND CIRCUIT TO WIREMOLD.
- PROVIDE EMERGENCY 20A, 120V CIRCUIT TO RECEPTACLE DISCONNECT EXISTING RECEPTACLE FROM NORMAL POWER AND MODIFY PANEL SCHEDULE.
- PROVIDE 120V, 20A DEDICATED CIRCUIT FOR LUMINARIES IN MAIN OFFICE AND PRINCIPLES OFFICE. DISCONNECT NORMAL POWER CIRCUIT. PROVIDE NEW PANEL SCHEDULE FOR NORMAL AND POWER PANELS.
- PROVIDE 120V, 20A, DEDICATED CIRCUIT FOR ACCESS CONTROL. CONNECT TO ALL ACCESS CONTROL POWER SUPPLIES.
- MAINTAIN EMERGENCY CIRCUIT FOR FACP.
- CONNECT 120V, 20A EMERGENCY CIRCUIT TO SIX (6) LUMINARIES IN GYMNASIUM.
- PROVIDE AND INSTALL UL 924 EMERGENCY LOAD TRANSFER DEVICE TO CONTROL LUMINARIES W/NORMAL POWER CIRCUITS. LUMINARIES TO TRANSFER TO 100% EMERGENCY OUTPUT UPON POWER LOSS.



DISTRICT-WIDE FIRE ALARM RESILIENCY-8331 PROJECT
 COOPER MT. ELEMENTARY
 BEAVERTON S.D.
 7670 SW 170TH AVE.
 BEAVERTON, OR 97007

ISSUE DATE:

03-23-2022

SET TYPE:

BID

REVISIONS:

DRAWN BY:

DD

DESIGNED BY:

HB

CHECKED BY:

SL

MKE JOB #:

BV-5749

ELECTRICAL -
 FLOOR
 PLAN

E1



EXPIRES 12-31-22

DISTRICT-WIDE FIRE ALARM RESILIENCY-8331 PROJECT
COOPER MT. ELEMENTARY
BEAVERTON S.D.
7670 SW 170TH AVE.
BEAVERTON, OR 97007

ISSUE DATE:

03-23-2022

SET TYPE:

BID

REVISIONS:

DRAWN BY:

DD

DESIGNED BY:

HB

CHECKED BY:

SL

MKE JOB #:

BV-5749

PANEL
SCHEDULES

E2

PANEL SCHEDULE																																																											
PANEL: SB2A			MKE & ASSOCIATES, INC.			MOUNTING: SURFACE																																																					
FED BY:			BUS/MAIN: 100A MLO																																																								
LOC:			VOLTS 120/208		PHASE 3		WIRE 4																																																				
C	DESCRIPTION	VA	A/P	No.	A	B	C	No.	A/P	VA	DESCRIPTION	C																																															
5	INTERCOM/PAGING*	200	20/1	1	*			2	20/1	200	FACP*	5																																															
5	TELE SWITCH*	200	20/1	3	*			4	20/1	200	SECURITY**	5																																															
	SPARE*		20/1	5	*			6	20/1	900	R - MAIN OFFICE (N)	2																																															
5	DATA HVAC*	1800	20/2	7	*			8	20/1	540	R - PRINCIPAL (N)	2																																															
5	*	1800	*	9	*			10	20/1	440	L - MAIN OFFICE (N)	1																																															
2	R-ROOF*	360	20/1	11	*			12			SPACE																																																
	SPACE			13	*			14			SPACE																																																
	SPACE			15	*			16			SPACE																																																
	SPACE			17	*			18			SPACE																																																
	SPACE			19	*			20			SPACE																																																
	SPACE			21	*			22			SPACE																																																
	SPACE			23	*			24			SPACE																																																
<table><tr><th>LOAD CODE (VA)</th><th>PH A</th><th>PH B</th><th>PH C</th><th>TOTAL (VA)</th></tr><tr><td>1. LIGHTS:</td><td>0</td><td>440</td><td>0</td><td>440</td></tr><tr><td>2. RECEPTACLE:</td><td>540</td><td>0</td><td>1,260</td><td>1,800</td></tr><tr><td>3. HEATING:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>4. KITCHEN:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>5. EQUIPMENT:</td><td>2,200</td><td>2,200</td><td>0</td><td>4,400</td></tr><tr><td>6. MOTORS:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>7. MISC:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>TOTAL (VA):</td><td>2,740</td><td>2,640</td><td>1,260</td><td>6,640</td></tr></table>									LOAD CODE (VA)	PH A	PH B	PH C	TOTAL (VA)	1. LIGHTS:	0	440	0	440	2. RECEPTACLE:	540	0	1,260	1,800	3. HEATING:	0	0	0	0	4. KITCHEN:	0	0	0	0	5. EQUIPMENT:	2,200	2,200	0	4,400	6. MOTORS:	0	0	0	0	7. MISC:	0	0	0	0	TOTAL (VA):	2,740	2,640	1,260	6,640	FACTOR		CODE LOAD			
LOAD CODE (VA)	PH A	PH B	PH C	TOTAL (VA)																																																							
1. LIGHTS:	0	440	0	440																																																							
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7. MISC:	0	0	0	0																																																							
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									1.25	550																																																	
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									1.00	0																																																	
									1.00	4,400																																																	
									**	0																																																	
									1.00	0																																																	
										6,750																																																	

LARGEST MOTOR:			0 VA	TOTAL LOAD:			18 A		
# KITCHEN EQUIPMENT			0				CODE DEMAND:		
							19 A		

NOTES:	* FIRST 10 KVA + 50% OF THE BALANCE ** 125% OF THE LARGEST MOTOR + THE BALANCE sb2a										
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PANEL SCHEDULE																																																																							
PANEL: E (EXISTING)			MKE & ASSOCIATES, INC.			MOUNTING: SURFACE																																																																	
FED BY: MDP/ATS			BUS/MAIN: 100A																																																																				
LOC: ELECT. RM.			VOLTS 120/208		PHASE 3		WIRE 4																																																																
C	DESCRIPTION	VA	A/P	No.	A	B	C	No.	A/P	VA	DESCRIPTION	C																																																											
1	L - OFFICE **	720	20/1	1	*			2	20/1	1180	L - SO. WING **	1																																																											
1	L - CAFE/KITCHEN **	820	20/1	3	*			4	20/1	820	L - EXITS - MAIN **	1																																																											
	SPARE **		20/1	5	*			6	20/1	1512	R - MDF **	1																																																											
5	FACP **	200	20/1	7	*			8	20/1	200	SPRINKLER ALARM **	5																																																											
5	BLOCK HEATER **	1080	20/1	9	*			10	20/1		SPARE																																																												
5	ACCESS CONTROL (N)	200	20/1	11	*			12	20/1		SPARE																																																												
	SPACE			13	*			14			SPACE																																																												
	SPACE			15	*			16			SPACE																																																												
	SPACE			17	*			18			SPACE																																																												
	SPACE			19	*			20			SPACE																																																												
	SPACE			21	*			22			SPACE																																																												
	SPACE			23	*			24			SPACE																																																												
<table><tr><th>LOAD CODE (VA)</th><th>PH A</th><th>PH B</th><th>PH C</th><th>TOTAL (VA)</th></tr><tr><td>1. LIGHTS:</td><td>1,900</td><td>1,640</td><td>1,512</td><td>5,052</td></tr><tr><td>2. RECEPTACLE:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>3. HEATING:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>4. KITCHEN:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>5. EQUIPMENT:</td><td>400</td><td>1,080</td><td>200</td><td>1,680</td></tr><tr><td>6. MOTORS:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>7. MISC:</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>TOTAL (VA):</td><td>2,300</td><td>2,720</td><td>1,712</td><td>6,732</td></tr></table>									LOAD CODE (VA)	PH A	PH B	PH C	TOTAL (VA)	1. LIGHTS:	1,900	1,640	1,512	5,052	2. RECEPTACLE:	0	0	0	0	3. HEATING:	0	0	0	0	4. KITCHEN:	0	0	0	0	5. EQUIPMENT:	400	1,080	200	1,680	6. MOTORS:	0	0	0	0	7. MISC:	0	0	0	0	TOTAL (VA):	2,300	2,720	1,712	6,732	<table><tr><th>FACTOR</th><th>CODE LOAD</th></tr><tr><td>1.25</td><td>6,315</td></tr><tr><td>*</td><td>0</td></tr><tr><td>1.00</td><td>0</td></tr><tr><td>1.00</td><td>0</td></tr><tr><td>1.00</td><td>1,680</td></tr><tr><td>**</td><td>0</td></tr><tr><td>1.00</td><td>0</td></tr></table>		FACTOR	CODE LOAD	1.25	6,315	*	0	1.00	0	1.00	0	1.00	1,680	**	0	1.00	0
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# KITCHEN EQUIPMENT			0																																																																				
NOTES: ^ EXISTING BRANCH CIRCUITS/BREAKERS.									* FIRST 10 KVA + 50% OF THE BALANCE ** 125% OF THE LARGEST MOTOR + THE BALANCE																																																														