ELECTRICAL LEGEND (NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THESE DRAWINGS)

– ONE LINE SYMBOLS –

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	DRAW-OUT CIRCUIT BREAKER (MOLDED INSULATED CASE)
	DRAW-OUT POWER CIRCUIT BREAKER
	CONTROL FUSE
	FUSE WITH SWITCH
	SWITCH
PANEL XXX	PANELBOARD
ATS-XX XXX A	AUTOMATIC TRANSFER SWITCH
250A4G	FEEDER DESIGNATION, SEE FEEDER SCHEDULE
	AUTOMATIC TRANSFER SWITCH WITH BY-PASS
E	ENGINE GENERATOR
TX-XXXX	TRANSFORMER
	ENCLOSED BUSWAY
	GROUND BUS
	WEATHERHEAD
M	MOTOR
	DELTA CONNECTION
	WYE CONNECTION
	GROUNDED WYE CONNECTION
	GROUNDED WYE CONNECTION WITH RESISTOR GROUND
	GROUNDED WYE CONNECTION WITH REACTOR GROUND
M	METERING DEVICE
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	LOAD-BREAK CONNECTOR
##	PROTECTIVE RELAY DEVICE
K	KEY INTERLOCK
2400V,100A, 10SEC. RESISTOR	RESISTOR
	CONTACT NORMALLY OPEN
	CONTACT NORMALLY CLOSED
	CAPACITOR
	SINGLE BATTERY
	MULTIPLE BATTERIES
	LIGHTNING ARRESTOR
	THERMAL ELEMENT, OVERLOAD RELAY

– GENERAL –

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT HOME RUN TO PANELBOARD, DESIGNATION INDICATES PANEL AND CIRCUIT NUMBERS
	CONTROL WIRING
	LIGHTING, ONE-LINE, AND POWER CIRCUITING
	LIGHTING, ONE-LINE, AND POWER CIRCUITING (UNDERGROUND)
	FLEXIBLE CONDUIT
	CONDUIT BREAK SYMBOL
	CONDUIT CAP
	CONDUIT CHANGE IN ELEVATION
	CONDUIT STUB DOWN (OUT OF DRAWING LIMITS)
	CONDUIT STUB UP (OUT OF DRAWING LIMITS)
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	PUSH BUTTON A = ABORT DA = DURESS ALARM EPO = EMERGENCY POWER OFF IC = INTERCOM ST = SHUNT TRIP
S#	SWITCH SYMBOL (#) SINGLE POLE (IF BLANK) 2 = DOUBLE POLE 3 = THREE-WAY 4 = FOUR-WAY AS = ADJUSTABLE SPEED D = DIMMER K = KEY OPERATED LV = LOW VOLTAGE M = MANUAL MOTOR SWITCH OS = OCCUPANCY SENSOR P = WITH PILOT LIGHT T = TIMER TO = THERMAL OVERLOAD VS = VACANCY SENSOR WP = WEATHERPROOF x = SMALL LETTER – LUMINAIRES CONTROLLED XP = EXPLOSION PROOF
	DUAL SWITCH
$	INTERCOM SWITCH

– FIRE ALARM DEVICES –

SYMBOL	DESCRIPTION
	BELL
D	DUCT SMOKE DETECTOR
	FIRE FIGHTER'S TELEPHONE JACK
	COMBINATION FIRE HORN/STROBE LIGHT
	COMBINATION FIRE SPEAKER/STROBE LIGHT
	FIRE ALARM STROBE LIGHT
	FIRE ALARM STROBE, CEILING MOUNT
	FIRE ALARM STROBE/SPEAKER, CEILING MOUNT
	FIRE HORN
	DUAL PROJECTION FIRE HORN
F	MANUAL PULL STATION
	MAGNETIC DOOR HOLD OPEN
X	DETECTOR / DETECTOR UNDER FLOOR F = FLAME I = IONIZATION TYPE P = PHOTOELECTRIC TYPE T = THERMAL TYPE
	BEAM DETECTOR
	PULL STATION/TELEPHONE JACK
	DELUGE VALVE

– SPECIAL SYSTEMS DEVICES –

SYMBOL	DESCRIPTION
	DATA OUTLET
	COMBINATION TELEPHONE/DATA OUTLET
	TELEPHONE OUTLET
	TELEVISION JACK
	CEILING MOUNTED DATA OUTLET
	CEILING MOUNTED TELEPHONE/DATA OUTLET
	CEILING MOUNTED TELEPHONE OUTLET
	FLOOR MOUNTED DATA OUTLET
	FLOOR MOUNTED TELEPHONE/DATA OUTLET
	FLOOR MOUNTED TELEPHONE OUTLET
TTB	TELEPHONE TERMINAL BOARD
DTB	DATA TERMINAL BOARD
M	MICROPHONE OUTLET
X	SPEAKER V = WITH INTEGRAL VOLUME CONTROL
S	WALL MOUNTED SPEAKER
V	WALL MOUNTED VOLUME CONTROL
C	CLOCK RECEPTACLE OUTLET
	SECURITY CAMERA
T	THERMOSTAT
SY	SPECIAL SYSTEMS SYMBOLS: AB = ABORT BUTTON AMP = AMPLIFIER ANN = ANNUNCIATOR ASD = ADJUSTABLE SPEED DRIVE ATS = AUTOMATIC TRANSFER SWITCH B = BUZZER BMS = BALANCED MAGNETIC STRIP CAM = CONTROL ADDRESSABLE MODULE CH = CHIME CK = CARD READER/KEYPAD CR = CARD READER DA = DURESS ALARM PUSH-BUTTON DC = DOOR CONTACT DE = DELAYED EGRESS DMA = DOOR MANAGEMENT ALARM DO = DOOR OPERATOR DS = DOOR STRIKE DTC = DATA TERMINAL CABINET DVR = DIGITAL VIDEO RECORDER EC = ELECTRICAL CONTACTOR EL = ELECTRIC LOCK ES = ELECTRIC STRIKE F = MANUAL PULL STATION FAA = FIRE ALARM ANNUNCIATOR FACP = FIRE ALARM CONTROL PANEL FS = FLOW SWITCH FSD = FIRE SMOKE DAMPER GB = GLASSBREAK DETECTOR GFI = BLANK FACE GFCI DEVICE HC = HANDICAP PUSH-BUTTON IC = INTERCOM CALL STATION KP = KEYPAD MAM = MONITOR ADDRESSABLE MODULE MH = MANHOLE MO = MOTORIZED DAMPER MS = MOTION SENSOR ML = MAGNETIC LOCK NCMS = NURSE CALL MASTER STATION CM-CENTRALIZED PHYSIOLOGICAL MONITORING STATION NCT = NURSE CALL TERMINAL CABINET OS = OCCUPANCY SENSOR PA = PUBLIC ADDRESS PB = PULLBOX PIR = PASSIVE INFRARED DETECTOR PM = POWER QUALITY METER PS = PRESSURE SWITCH R = REMOTE INDICATING LIGHT RT = REMOTE TEST STATION RX = REQUEST TO EXIT PUSH-BUTTON S = WALL MOUNTED SPEAKER SAP = SECURITY ALARM PANEL SPD = SURGE PROTECTIVE DEVICE TC = TIME CLOCK TS = TAMPER SWITCH VFD = VARIABLE FREQUENCY DRIVE VM = VIDEO MONITOR VS = VACANCY SENSOR

– POWER –

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE D = DEDICATED CIRCUIT IG = ISOLATED GROUND DEVICE
GFI	GFI = GROUND FAULT CIRCUIT INTERRUPTER
	FLOOR MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED FOURPLEX RECEPTACLE
	FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	CEILING MOUNTED FOURPLEX RECEPTACLE
	CEILING MOUNTED SPECIAL PURPOSE RECEPTACLE
	FOURPLEX RECEPTACLE
	RANGE RECEPTACLE
	SINGLE RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	SWITCHED RECEPTACLE
	DUPLEX EMERGENCY/CRITICAL
	FOURPLEX EMERGENCY/CRITICAL
	DUPLEX-2PORT USB
	4PORT USB
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
	MOTOR STARTER
	COMBINATION MOTOR STARTER
	COMBINATION SWITCH AND RECEPTACLE
	CONDUIT SEAL OFF
	FIRE RATED POKE-THROUGH
	PARTITION CIRCUIT SPLIT
	POWER POLE
W	SURFACE RACEWAY
M	METER

– NURSE CALL –

SYMBOL	DESCRIPTION
CB	CODE BLUE STATION
CP	CODE PINK STATION
EP	EMERGENCY CALL PULL STATION
SP	SINGLE PATIENT STATION
SA	STAFF ASSIST STATION
AI	AUXILIARY INPUT STATION
DS	DUTY STATION
SS	STAFF STATION
BI	BED INTERFACE STATION
2B	TWO BUTTON STATION
BM	BED MANAGEMENT STATION
D	DOME LIGHT
Z	ZONE LIGHT INTERSECTION
RL	REMOTE LOCATOR
PM	PATIENT MONITOR

– LIGHTING – (REFER TO LUMINAIRE SCHEDULE)

SYMBOL	DESCRIPTION
X * #	LUMINAIRES X = FIXTURE DESIGNATION # = BRANCH CIRCUIT NUMBER * = SWITCH LEG IDENTIFIER
	SHADING INDICATES LUMINAIRE ON LIFE SAFETY
	SHADING INDICATES PORTION OF LUMINAIRE ON LIFE SAFETY
	WALL MOUNTED LUMINAIRE
	STRIP LIGHT
	STRIP LIGHT WITH LIFE SAFETY
	POLE MOUNTED LUMINAIRE (QUANTITY OF LUMINAIRES PER POLE AS INDICATED ON PLANS)
	DOWNLIGHT LUMINAIRE
	WALL WASHER LUMINAIRE
	ADJUSTABLE LUMINAIRE
	PENDANT LUMINAIRE
	TRACK LIGHTING
P	PHOTOCELL
	EXIT LIGHT (WITH FACES AND DIRECTION ARROWS INDICATED)
	WALL MOUNTED EXIT LIGHT (WITH FACES AND DIRECTION ARROWS INDICATED)
	WALL MOUNTED BATTERY PACK EMERGENCY LIGHT

– GROUNDING SYMBOLS –

SYMBOL	DESCRIPTION
	GROUND TEST WELL
	GROUNDING CONDUCTOR
	LIGHTNING PROTECTION AIR TERMINAL
	BONDING POINT
C	GROUND BAR
	ELECTRICAL GROUND
	GROUND ROD
	GROUND ROD WITH INSPECTION TEST WELL
	PIGTAIL

– EQUIPMENT –

SYMBOL	DESCRIPTION
	DISTRIBUTION PANEL
	EXISTING DISTRIBUTION PANEL
	NEW PANEL, FLUSH MOUNTED
	EXISTING PANEL, FLUSH MOUNTED
	NEW PANEL, SURFACE MOUNTED
	EXISTING PANEL, SURFACE
T	TRANSFORMER

– ABBREVIATIONS –

(E)	EXISTING
(N)	NEW
(PART)	PARTIAL CIRCUIT
A	AMP
AC	ABOVE COUNTER TOP
AF	AMP FRAME, AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
APL	APPLIANCE
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIOVISUAL
BJ	BONDING JUMPER
C	CONDUIT
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CCTV	CLOSED CIRCUIT T.V.
CLG	CEILING
CU	COPPER
DISC	DISCONNECT
DIST	DISTRIBUTION
E/G	ENGINE/GENERATOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR ELEVATION
EM	EMERGENCY
EQPT	EQUIPMENT
F	FUSE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FIXT	FIXTURE
FO	FIBER OPTIC
FLR	FLOOR
FLUOR	FLUORESCENT
G	GROUND (EQUIPMENT)
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GF	GROUND FAULT PROTECTION
GND	GROUND
HC	HANDICAPPED
HG	HOSPITAL GRADE
HP	HORSEPOWER
HV	HIGH VOLTAGE
INC	INCANDESCENT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
JB	JUNCTION BOX
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA T.V.
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MLO	MAIN LUGS ONLY
MOP	METHOD OF PROCEDURE
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MV	MEDIUM VOLTAGE
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
OHE	OVERHEAD ELECTRIC
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PH	PHASE
PNL	PANEL
PWR	POWER
RCPT(S)	RECEPTACLE(S)
SBC	STRANDED BARE COPPER
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TEL	TELEPHONE
TP	TAMPERPROOF
TV	TELEVISION
UF	UNDERFLOOR
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
VP	VAPOR PROOF
W	WIRE
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

APPLICABLE CODES

AHJ: UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CENTER

FIRE AUTHORITY: AURORA FIRE

REMODEL [X] NEW [ ]

YEAR	CODE
2018	INTERNATIONAL BUILDING CODE
2018	INTERNATIONAL MECHANICAL CODE
2018	INTERNATIONAL PLUMBING CODE
2018	INTERNATIONAL ENERGY CONSERVATION CODE
2018	INTERNATIONAL FIRE CODE
2017	NATIONAL ELECTRICAL CODE

IS THE BUILDING FULLY SPRINKLERED? [X] YES [ ] NO

IS THE BUILDING FULLY DETECTED? [X] YES [ ] NO

– GRAPHIC SYMBOLS –

1	KEY NOTE
1	REVISION NUMBER
X	DETAIL NOTE
X	X = DENOTES ALL LUMINAIRES IN THE RESPECTIVE AREA ARE THE TYPE INDICATED, REFER TO LUMINAIRE SCHEDULE
SX	LIGHTING CONTROL SEQUENCE INDICATION, SEE LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE FOR INFORMATION X = DENOTES ILLUMINATION SET POINT
TAG	MECHANICAL EQUIPMENT TAG
	SHADING INDICATES EQUIPMENT
	HATCHING INDICATES ITEM(S) TO BE REMOVED
A100	ROOM NUMBER
	NORTH ARROW
1 / E2.1	DETAIL BUBBLE DETAIL NUMBER SHEET NUMBER – WHERE DETAIL IS SHOWN
2 / E2.2	SECTION CUT SECTION NUMBER/LETTER SHEET NUMBER – WHERE SECTION IS SHOWN

GENERAL NOTES

SPECIFICATIONS ARE A PART OF THE CONSTRUCTION DOCUMENTS. SHOULD ANY CONFLICT ARISE BETWEEN THE DRAWINGS AND SPECIFICATIONS, BRING SUCH CONFLICT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. UNLESS OTHERWISE DIRECTED BY ENGINEER, THE MOST STRINGENT REQUIREMENT WILL PREVAIL.

INFORMATION ON THE DRAWINGS IS AS EXACT AS COULD BE REASONABLY SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED. VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES. ADAPT WORK TO ACTUAL CONDITIONS AT THE SITE. BEFORE SUBMITTING COSTS VISIT THE SITE TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THIS PROJECT. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE; DO NOT SCALE. THESE DRAWINGS DO NOT SHOW MATERIALS FOR A COMPLETE INSTALLATION; PLAN THE INSTALLATION AND LAYOUT OF THE WORK AS DIAGRAMMED IN THESE DOCUMENTS. REFER TO FLOOR PLANS, SCHEMATICS AND DIAGRAMS OF OTHER TRADES FOR ELECTRICAL REQUIREMENTS, BRANCH CIRCUITS AND OTHER ELECTRICAL CONNECTIONS NOT INDICATED ON THESE DOCUMENTS.

FIRE-SEAL ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS WITH MATERIALS CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM E814.

JUNCTION BOXES FOR LUMINAIRES AND OUTLETS ARE NOT INDICATED. PROVIDE THE PROPER NUMBER OF JUNCTION BOXES TO MEET LOCAL CODE AND NATIONAL ELECTRICAL CODE.

EXECUTE THE WORK IN ACCORDANCE WITH SUPPORTING OBJECTS FOR SEISMIC ZONE REQUIRED BY STATE AND LOCAL CODES ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING, BUT NOT LIMITED TO: PENDANT LIGHTING FIXTURES, GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATOR, TRANSFORMER, ELECTRICAL SWITCHGEAR, SWITCHBOARDS AND OTHER ELECTRICAL EQUIPMENT.

WHERE DISCONNECTS ARE INDICATED ON DRAWINGS PROVIDE FINAL CONNECTION TO EQUIPMENT BEING SERVED BY DISCONNECT. DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE REQUIRED BY NEC.

- INFORMATION FOR EXISTING CIRCUITRY IS BASED ON EXISTING PANEL DIRECTORIES, AVAILABLE DRAWINGS, AND ASSUMPTIONS. LOCATIONS AND INFORMATION FOR EXISTING ELECTRICAL DEVICES AND EQUIPMENT SHOWN ON THESE DOCUMENTS ARE APPROXIMATE AND WERE DERIVED FROM FIELD OBSERVATION AND AVAILABLE RECORD DRAWINGS. VERIFY ACTUAL FIELD CONDITIONS PRIOR TO STARTING WORK.

REV: 03/08/2017

REV.	DATE	DESCRIPTION
0	6/20/22	CONSTRUCTION DOCUMENTS

COLORADO LICENSED PROFESSIONAL ENGINEER
Charles Basil
55143
06/21/2022

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Mechanical and Electrical Engineering
Energy Consulting Sustainable Design

University of Colorado
Anschutz Medical Campus

FITZSIMONS BUILDING
3rd FLOOR ELEV LOBBY LIGHTING
ELECTRICAL LEGEND

DATE: JUNE 20, 2022
SCALE: NONE
DESIGN BY: CPB
DRAWN BY: CPB
APPROVED BY: MDB
PRJ. NO: 20720

SHT.NO. E0.0
REVISION 0

DRY TYPE TRANSFORMER SCHEDULE

VOLTAGE: 480V, 3Ø, 3W - 120/208V, 3Ø, 4W

KEY	RATING [kVA]	PRIMARY			SECONDARY			
		AMPS	O.C. PROTECTION	FEEDER (P)	AMPS	O.C. PROTECTION	FEEDER (S)	GROUND ELECTRODE (G)
T1	15	18.1	25	(3#10 & 1#10G)1/2"C	41.7	50	(4#6 & 1#10G)1"C.	#8
T2	30	36.1	45	(3#6 & 1#10G)3/4"C	83.4	100	(4#1 & 1#8G)1-1/2"C.	#6
T3	45	54.2	70	(3#4 & 1#8G)1"C	125.1	150	(4#1/0 & 1#6G)2"C.	#6
T4	75	90.3	110	(3#1 & 1#6G)1-1/4"C	208.4	250	(4#250KCMIL & 1#4G)2-1/2"C.	#2
T5	112.5	135.5	150	(3#1/0 & 1#6G)1-1/2"C	312.6	350	2[(4#2/0 & 1#3G)2"C]	#1/0

NOTES:
- a. GROUNDING ELECTRODE CONDUCTOR SIZED PER TABLE 250-94 OF N.E.C.
- b. EQUIPMENT GROUNDING CONDUCTOR SIZED PER TABLE 250-95 OF N.E.C.
- c. SUBSCRIPT LETTER BY TRANSFORMER INDICATES MOUNTING: F=FLOOR; S=SUSPENDED; W=WALL.
- d. FOR K13 RATED TRANSFORMER SECONDARY FEEDER TO BE: (3#1/0, 1#350KCMIL N & 1#6G)2"C.

PANEL DESIGNATION

FIRST CHARACTER: SYSTEM DESIGNATION
- N = NORMAL
- E = EMERGENCY
- S = STANDBY

SECOND CHARACTER: FLOOR DESIGNATION
- B = BASEMENT
- G = GROUND
- 1-9 = FLOOR ONE THRU 9

THIRD CHARACTER: BUILDING AREA OR DISTRIBUTION PANEL
- E = EAST
- N = NORTH
- W = WEST

FOURTH CHARACTER:
- D = DISTRIBUTION PANEL
- MCC = MOTOR CONTROL CENTER

FIFTH CHARACTER: VOLTAGE
- H = 277/480V
- L = 120/208V

SIXTH CHARACTER: PANEL NUMBER
- 1 = PANEL NO. 1
- 2 = PANEL NO. 2, ETC.

RISER DESIGNATION

FIRST CHARACTER:
- R = RISER

SECOND CHARACTER: SUBSTATON NO.
- 6 = SUBSTATION NO. 6
- 7 = SUBSTATION NO. 7
- 8 = SUBSTATION NO. 8

THIRD CHARACTER: FLOOR
- 0 = GROUND
- 1-9 = FLOOR ONE THRU 9

FOURTH CHARACTER: RISER NUMBER
- 1 - 9 = RISER ONE, ... RISER NINE

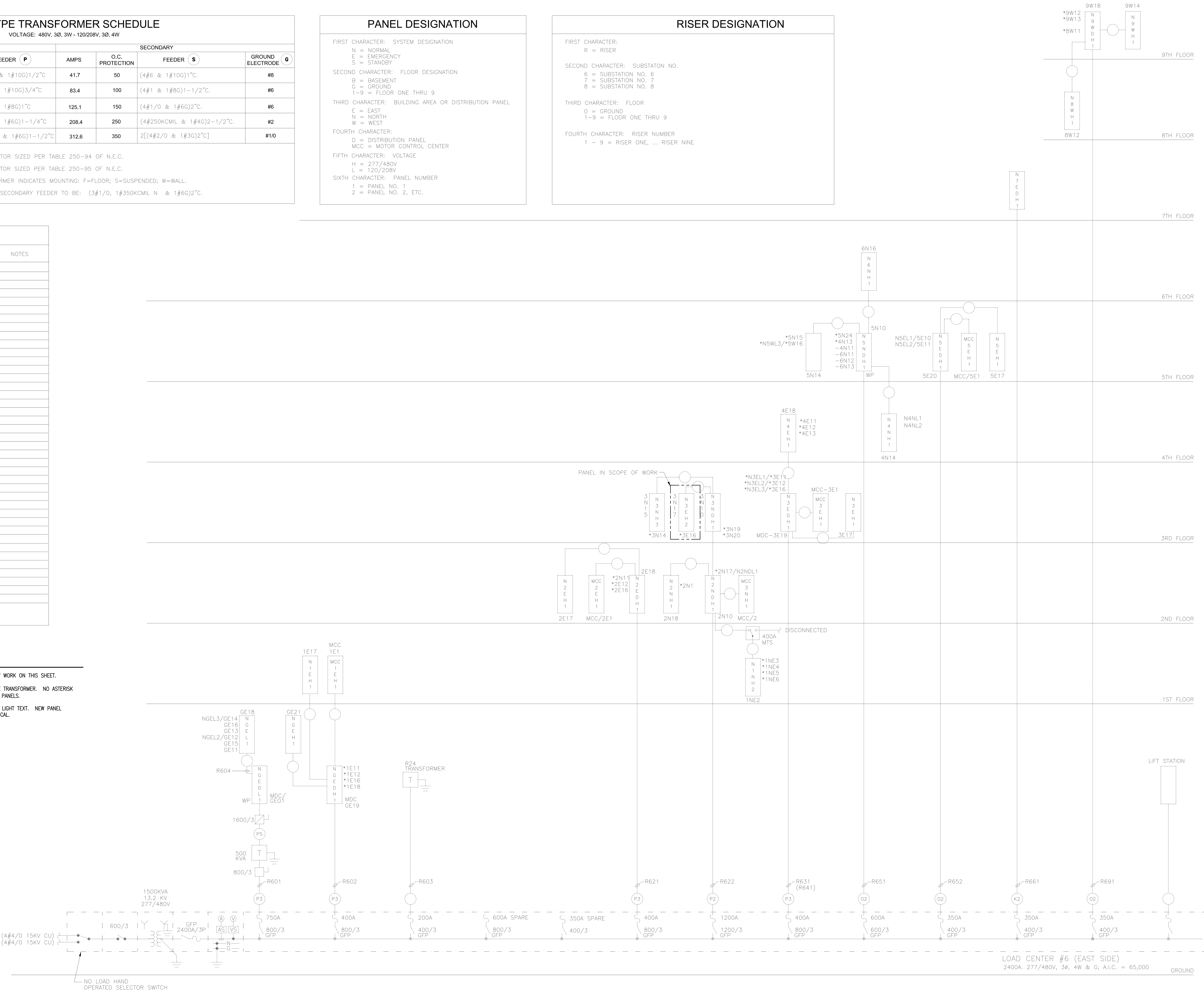
FEEDER SCHEDULE

KEY	DESCRIPTION	NOTES
A1	(3 #12 & 1 #12G) 1/2"C.	
B1	(3 #10 & 1 #12G) 1/2"C.	
B2	(4 #10 & 1 #12G) 3/4"C.	
C1	(3 #8 & 1 #10G) 3/4"C.	
C2	(4 #8 & 1 #10G) 1"C.	
D1	(3 #6 & 1 #10G) 1"C.	
D2	(4 #6 & 1 #10G) 1-1/2"C.	
D3	(4 #6 & 1 #8G) 1"C.	
E1	(3 #4 & 1 #8G) 1-1/2"C.	
E2	(4 #4 & 1 #8G) 1-1/4"C.	
E3	(3#4, 1#1/0N & 1#8G)1-1/4"C	
F1	(3 #2 & 1 #8G) 1-1/2"C.	
F2	(4 #2 & 1 #8G) 1-1/2"C.	
G1	(3 #1 & 1 #6G) 1-1/2"C.	
G2	(4 #1 & 1 #6G) 1-1/2"C.	
G3	(4#1 & 1#8G)1-1/2"C	
H1	(3 #1/0 & 1 #2G) 2"C.	
H2	(4 #1/0 & 1 #2G) 2"C.	
H3	(4#1/0 & 1#6G)2"C	
J1	(3 #2/0 & 1 #2G) 2-1/2"C.	
J2	(4 #2/0 & 1 #2G) 2-1/2"C.	
K1	(3#3/0 & 1#6G)2"C.	
L1	(3 #4/0 & 1 #2G) 2-1/2"C.	
L2	(4 #4/0 & 1 #2G) 2-1/2"C.	
L3	2[(4 #4/0 & 1 #2G) 2-1/2"C.]	
L4	(4#4/0 & 1#4G)2-1/2"C.	
L5	2[(4#4/0 & 1#3G)2-1/2"C]	
L6	(4#4/0 & 1#6G)2-1/2"C	
M1	(3 #250KCMIL & 1 #2G) 3"C.	
M2	(4 #250KCMIL & 1 #2G) 3"C.	
M3	2[(4 #250KCMIL & 1 #2G) 3"C.]	
O1	(3 #350KCMIL & 1 #1/0G) 3-1/2"C.	
O2	(4 #350KCMIL & 1 #1/0G) 3-1/2"C.	
O3	2[(4 #350KCMIL & 1 #1/0G) 4"C.]	
P1	(3 #500KCMIL & 1 #1/0G) 4"C.	
P2	(4 #500KCMIL & 1 #1/0G) 4"C.	
P3	2[(4 #500KCMIL & 1 #1/0G) 4"C.]	
P4	3[(4 #500KCMIL & 1 #1/0G) 4"C.]	
P5	4[(4 #500KCMIL & 1 #1/0G) 4"C.]	
P,S,G	REFER TO TRANSROMER SCHEDULE	

1. REUSE EXISTING CONDUIT. PROVIDE NEW WIRES.

SHEET NOTES

1. ONE-LINE DIAGRAM SHOWN FOR REFERENCE ONLY. NO NEW WORK ON THIS SHEET.
2. ASTERISK (*) INDICATES 120/208V PANEL FED VIA DRY TYPE TRANSFORMER. NO ASTERISK INDICATES 120/208V PANEL SAME VOLTAGE AS DISTRIBUTION PANELS.
3. FORMER PANEL DESIGNATION SHOWN OUTSIDE PANEL BOX IN LIGHT TEXT. NEW PANEL DESIGNATION SHOWN INSIDE PANEL BOX IN HEAVY TEXT, TYPICAL.



NORMAL SYSTEM ELECTRICAL ONE-LINE DIAGRAM – LC6
NO SCALE

REV.	DATE	DESCRIPTION
0	6/20/22	CONSTRUCTION DOCUMENTS

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Mechanical and Electrical Engineering
Energy Consulting Sustainable Design

University of Colorado Anschutz Medical Campus

FITZSIMONS BUILDING 3rd FLOOR ELEV LOBBY LIGHTING

ELECTRICAL ONE-LINE DIAGRAM

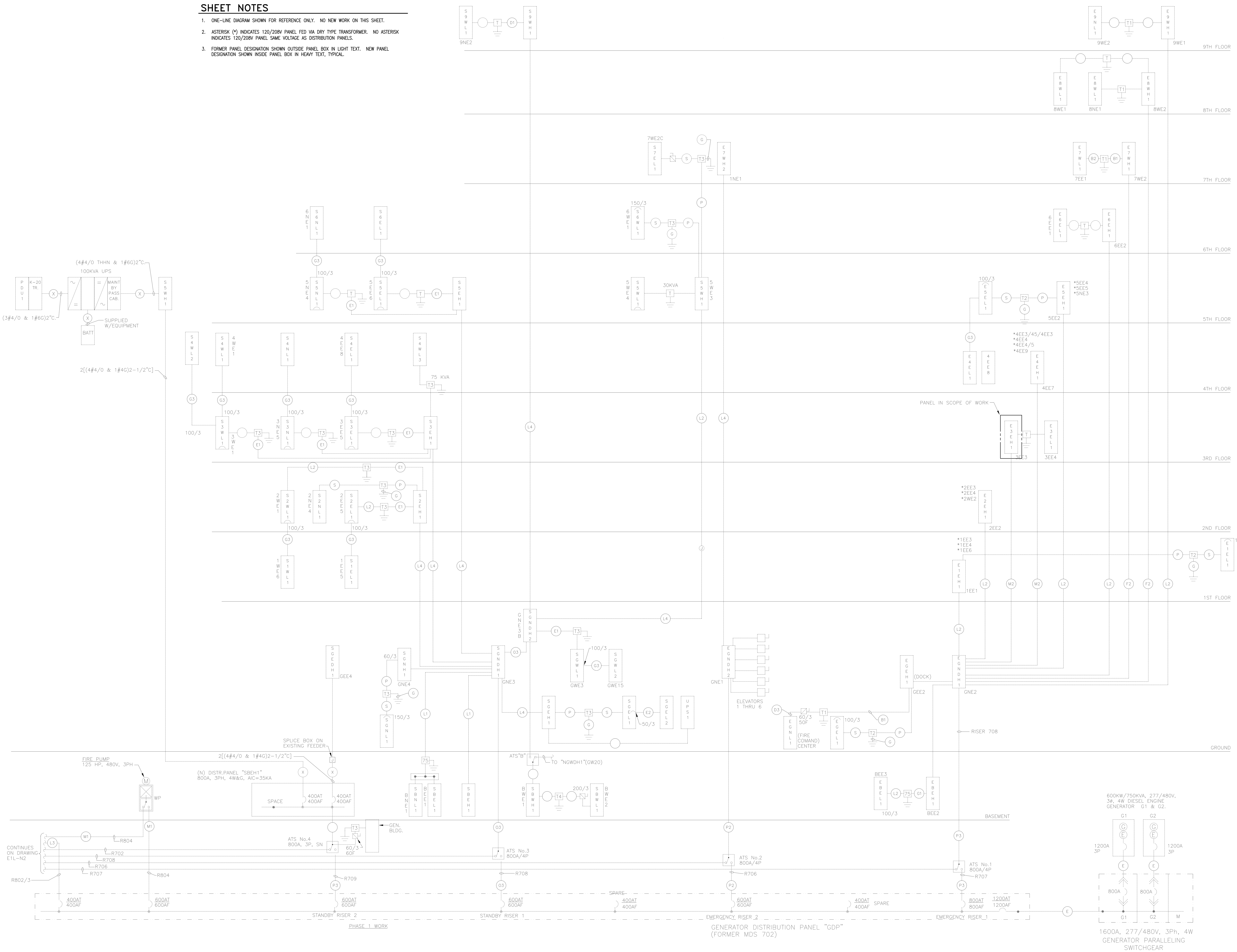
DATE: JUNE 20, 2022
SCALE: NONE
DESIGN BY: CPB
DRAWN BY: CPB
APPROVED BY: MDB
PRJ. NO: 20720

SHT.NO. E1.0 REVISION 0

Created on:6/17/2022
Plotted on:6/21/2022

SHEET NOTES

1. ONE-LINE DIAGRAM SHOWN FOR REFERENCE ONLY. NO NEW WORK ON THIS SHEET.
2. ASTERISK (*) INDICATES 120/208V PANEL FED VIA DRY TYPE TRANSFORMER. NO ASTERISK INDICATES 120/208V PANEL SAME VOLTAGE AS DISTRIBUTION PANELS.
3. FORMER PANEL DESIGNATION SHOWN OUTSIDE PANEL BOX IN LIGHT TEXT. NEW PANEL DESIGNATION SHOWN INSIDE PANEL BOX IN HEAVY TEXT, TYPICAL.



EMERGENCY/STANDBY SYSTEMS ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

REV.	DATE	DESCRIPTION
0	6/20/22	CONSTRUCTION DOCUMENTS

COLORADO LICENSED CHARLES P BASIL 55143 PROFESSIONAL ENGINEER 06/21/2022

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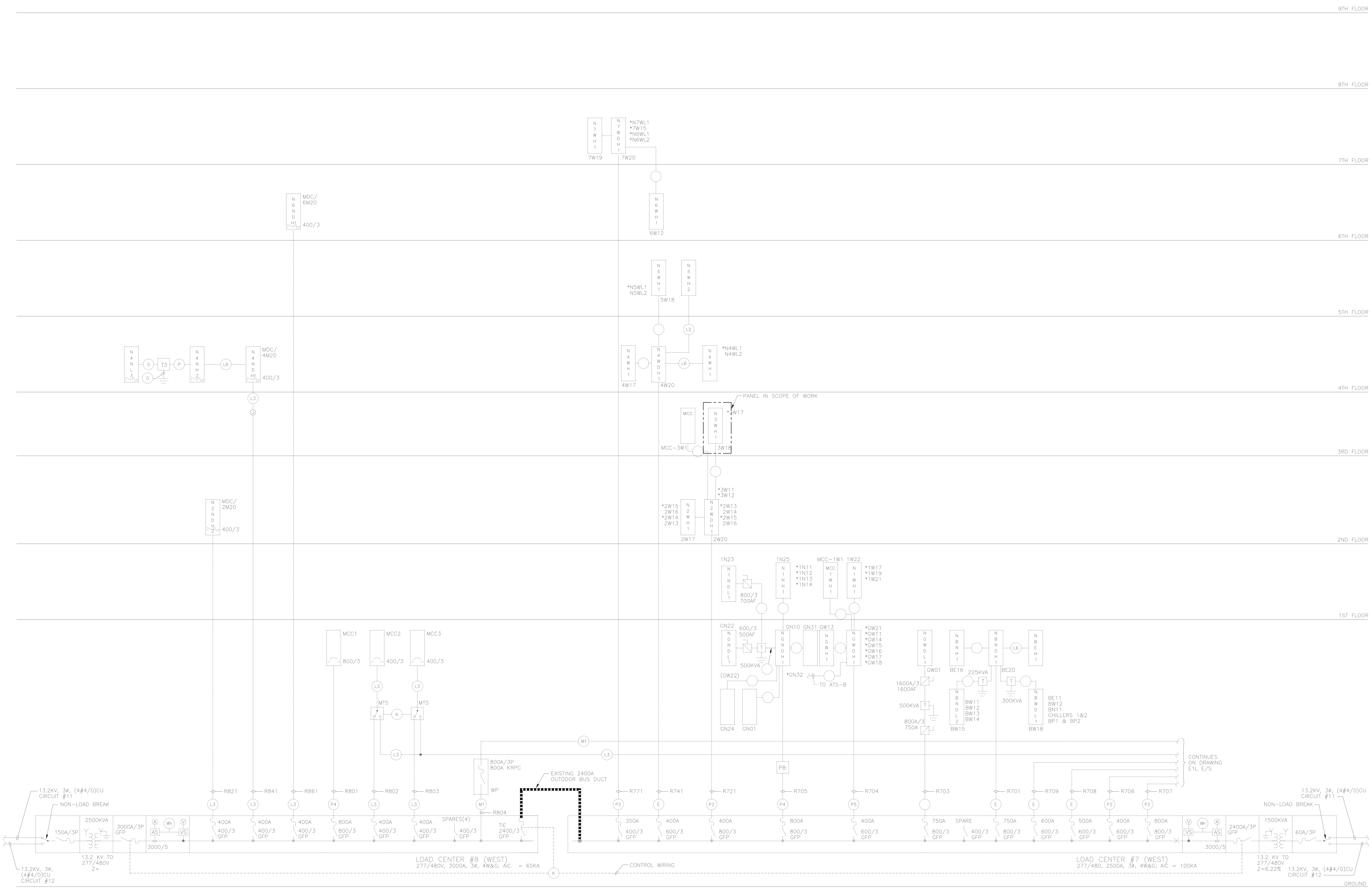
FITZSIMONS BUILDING
3rd FLOOR ELEV LOBBY LIGHTING

ELECTRICAL ONE-LINE DIAGRAM

DATE: JUNE 20, 2022
SCALE: NONE
DESIGN BY: CPB
DRAWN BY: CPB
APPROVED BY: MDB
PRJ. NO: 20720

SHT.NO. 1
REVISION 0

Created on 6/14/2022
File Path: W:\Jobs20\20720\1Dwgs\AutoCAD\Sheets\20720_E1.1 ELEC ONE-LINE DIAGRAM.dwg
Save Date 21-Jun-22 by cbasil
Plotted on 6/21/2022



SHEET NOTES

1. ONE–LINE DIAGRAM SHOWN FOR REFERENCE ONLY. NO NEW WORK ON THIS SHEET.
2. ASTERISK (*) INDICATES 120/208V PANEL FED VIA DRY TYPE TRANSFORMER. NO ASTERISK INDICATES 120/208V PANEL SAME VOLTAGE AS DISTRIBUTION PANELS.
3. FORMER PANEL DESIGNATION SHOWN OUTSIDE PANEL BOX IN LIGHT TEXT. NEW PANEL DESIGNATION SHOWN INSIDE PANEL BOX IN HEAVY TEXT, TYPICAL.

BASEMENT

NORMAL SYSTEM ELECTRICAL ONE–LINE DIAGRAM – LC7/8

NO SCALE

REV.	DATE	DESCRIPTION
0	6/20/22	CONSTRUCTION DOCUMENTS

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Mechanical and Electrical Engineering
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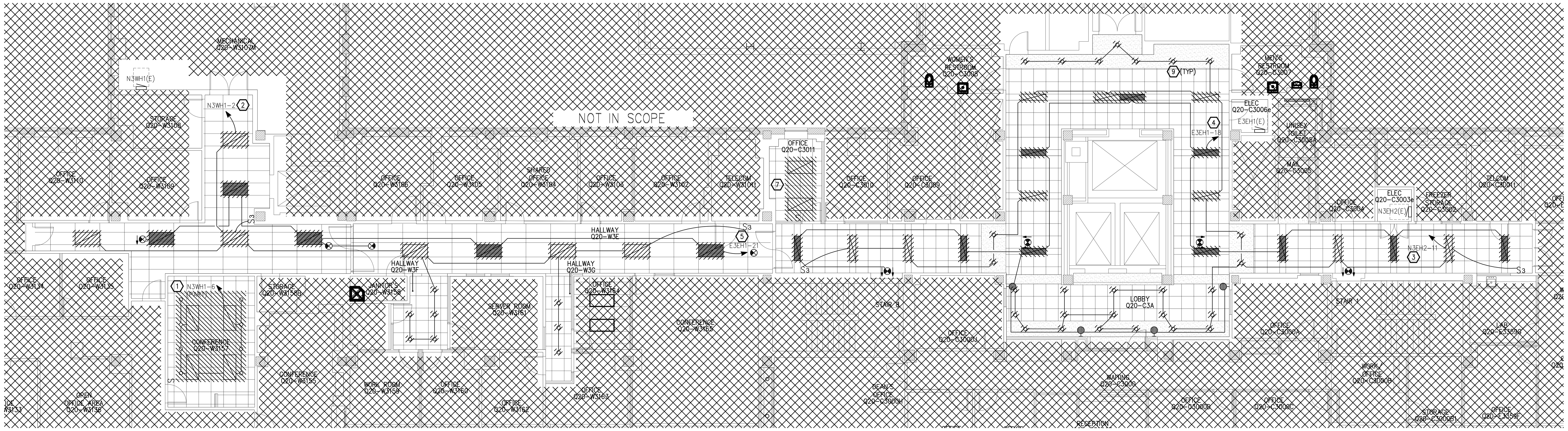
University of Colorado Anschutz Medical Campus

FITZSIMONS BUILDING 3rd FLOOR ELEV LOBBY LIGHTING

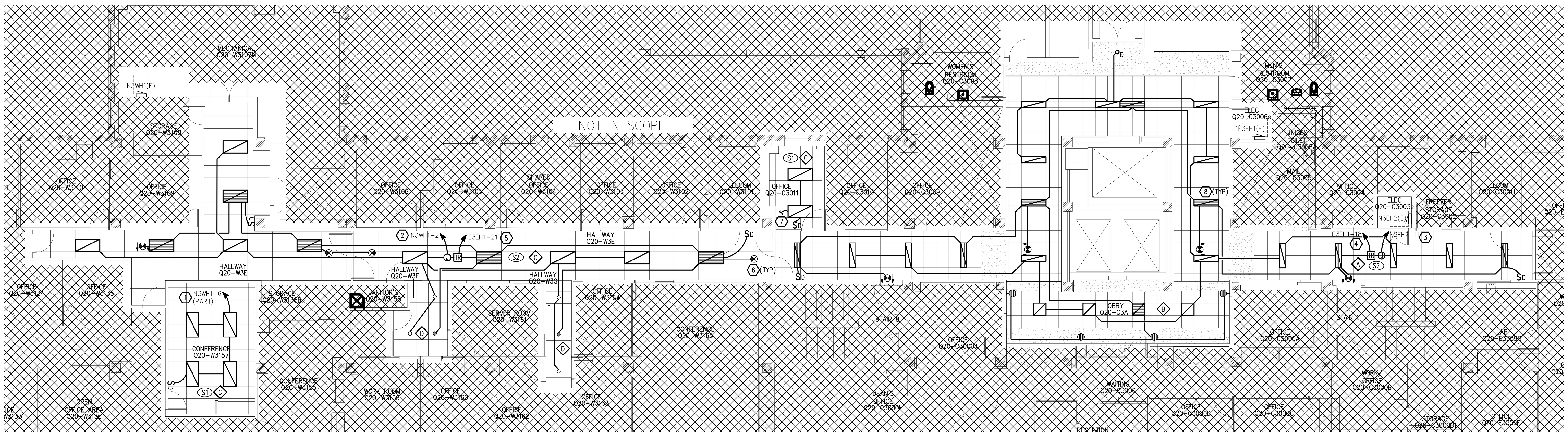
ELECTRICAL ONE-LINE DIAGRAM

DATE: JUNE 20, 2022
SCALE: NONE
DESIGN BY: CPB
DRAWN BY: CPB
APPROVED BY: MDB
PRJ. NO: 20720

SHT.NO. E1.2
REVISION 0



1 E2.0 3RD FLOOR LOBBY LIGHTING PLAN – DEMO
SCALE: 1/8"=1'-0"



2 E2.0 3RD FLOOR LOBBY LIGHTING PLAN
SCALE: 1/8"=1'-0"

SHEET NOTES

1. LIGHT LINE WEIGHT INDICATES EXISTING. HEAVY LINE WEIGHT INDICATES NEW CONSTRUCTION. HATCHING INDICATES DEMOLITION.
2. PATCH AND PAINT ANY DAMAGED SURFACES DUE TO DEMOLITION AND CONSTRUCTION TO MATCH EXISTING CONDITIONS.
3. COORDINATE CEILING CONDUIT ROUGH–IN WITH MECHANICAL CONTRACTOR TO ENSURE NO CONFLICTS IN LIMITED ABOVE CEILING SPACE.
5. UPDATE PANEL SCHEDULES TO REFLECT INSTALLED CONDITIONS AFTER CONSTRUCTION IS COMPLETE.
6. EXISTING CIRCUIT INFORMATION SHOWN ON THE PLANS IS FOR REFERENCE ONLY. TRACE ALL EXISTING CIRCUITS AFFECTED BY THIS WORK TO CONFIRM SOURCE PANEL AND CIRCUIT NUMBERS.
7. UPPERCASE LETTER DENOTES LUMINAIRE TYPE. LOWERCASE LETTER INDICATES CONTROL ZONE.
8. CONNECT EMERGENCY LUMINAIRES AND EXIT SIGNS AHEAD OF SWITCHING AND RELAY PANEL CONTROL UNLESS SPECIFICALLY NOTED OTHERWISE.
9. PROVIDE EMERGENCY TRANSFER RELAYS FOR ALL EMERGENCY LIGHTING THAT ARE SWITCHED OR DIMMED.
10. TO ACHIEVE THE INDICATED SEQUENCE OF OPERATION, PROVIDE ALL COMPONENTS REQUIRED FOR THE LIGHTING CONTROL SYSTEM, WHETHER INDICATED OR NOT.
11. PROVIDE DIMMERS COMPATIBLE WITH LED DRIVERS AND POWER SUPPLIES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPONENTS AND ACCESSORIES TO ACCOMPLISH COMPLETE DIMMING FUNCTIONALITY AS SHOWN ON PLANS AND NOTED IN THE LUMINAIRE SCHEDULE.
12. FOR LIGHT DIMMING BRANCH CIRCUITS, PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT CURRENT CARRYING CONDUCTOR. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX CURRENT CARRYING CONDUCTORS WITH PROPER DE–RATING AS REQUIRED BY NEC. PROVIDE FULL LENGTH STRIPING FOR DEDICATED NEUTRALS TO MATCH ASSOCIATED CURRENT CARRYING CONDUCTOR COLOR.
13. THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. DATA PRESENTED ON THIS DRAWING IS AS ACCURATE AS CAN BE DETERMINED, BUT ACCURACY IS NOT GUARANTEED. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER IS NEITHER RESPONSIBLE FOR ITS ACCURACY, NOR ERRORS NOR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DOCUMENTS. FIELD VERIFICATION OF ALL AFFECTED COMPONENTS IS REQUIRED.
14. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS FOR BRANCH CIRCUITS SHALL BE #12 AWG PROTECTED BY 20–AMPERE CIRCUIT BREAKERS. INCREASE CONDUCTOR SIZE TO ACCOUNT FOR VOLTAGE DROP FOR ALL 120–VOLT CIRCUITS OVER 75 FEET, AND ALL 277–VOLT CIRCUITS OVER 150 FEET TO THE FIRST OUTLET. CONDUCTOR SIZE SHALL BE UNIFORM FOR THE ENTIRE LENGTH OF THE CIRCUIT UNLESS NOTED OTHERWISE. HOMERUNS WHICH INDICATE UPGRADING CIRCUIT CONDUCTORS FOR VOLTAGE DROP, E.G., #10AWG WIRE ON 20–AMPERE CIRCUIT, SHALL HAVE THE CONDUCTOR SIZE INDICATED CARRIED THROUGHOUT THE CIRCUIT TO ALL JUNCTION BOXES UP TO AND INCLUDING THE J–BOX NEAREST THE LAST DEVICE OR LUMINAIRE.
15. TO ACHIEVE THE INDICATED SEQUENCE OF OPERATION, PROVIDE ALL COMPONENTS REQUIRED FOR THE LIGHTING CONTROL SYSTEM, WHETHER INDICATED OR NOT. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE FOR ADDITIONAL INFORMATION.

KEY NOTES

1. REUSE EXISTING BRANCH CIRCUIT. A TOTAL OF 568VA OF LOAD REMOVED, 100VA OF LOAD ADDED. TOTAL LOAD ON THE BRACH CIRCUIT REDUCED.
2. REUSE EXISTING BRANCH CIRCUIT. A TOTAL OF 1198VA OF LOAD REMOVED, 335VA OF LOAD ADDED. TOTAL LOAD ON THE BRACH CIRCUIT REDUCED.
3. REUSE EXISTING BRANCH CIRCUIT. A TOTAL OF 1790VA OF LOAD REMOVED, 696VA OF LOAD ADDED. TOTAL LOAD ON THE BRACH CIRCUIT REDUCED.
4. REUSE EXISTING BRANCH CIRCUIT. A TOTAL OF 600VA OF LOAD REMOVED, 239VA OF LOAD ADDED. TOTAL LOAD ON THE BRACH CIRCUIT REDUCED.
5. REUSE EXISTING BRANCH CIRCUIT. A TOTAL OF 450VA OF LOAD REMOVED, 170VA OF LOAD ADDED. TOTAL LOAD ON THE BRACH CIRCUIT REDUCED.
6. CONNECT ALL EXISTING EXIT SIGNS TO EMERGENCY BRANCH CIRCUIT AHEAD OF ANY LIGHTING CONTROLS.
7. REUSE EXISTING BRANCH CIRCUIT. A TOTAL OF 180VA OF LOAD REMOVED, 60VA OF LOAD ADDED. TOTAL LOAD ON THE BRACH CIRCUIT REDUCED.
8. EMERGENCY LIGHTING SHALL BE CONTROLLED WITH THE NORMAL LIGHTING WHEN THE SPACE IS OCCUPIED AND ACT AS A NIGHTLIGHT WHEN THE SPACE IS UNOCCUPIED. SEE LIGHTING CONTROL DETAILS ON SHEET E3.0 FOR ADDITIONAL INFORMATION.
9. REMOVE EXISTING RECESSED LIGHTING IN THE DRYWALLED SECTIONS OF THE CEILING. PATCH AND PAINT THE CEILING TO MATCH.

REV.	DATE	DESCRIPTION
0	6/20/22	CONSTRUCTION DOCUMENTS

COLORADO LICENSED CHARLES P BASIL 55143 06/21/2022 PROFESSIONAL ENGINEER

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FITZSIMONS BUILDING
3rd FLOOR ELEV LOBBY LIGHTING

ELECTRICAL LIGHTING PLANS

DATE: JUNE 20, 2022
SCALE: 1/8"=1'-0"
DESIGN BY: CPB
DRAWN BY: CPB
APPROVED BY: MDB
PRJ. NO: 20720

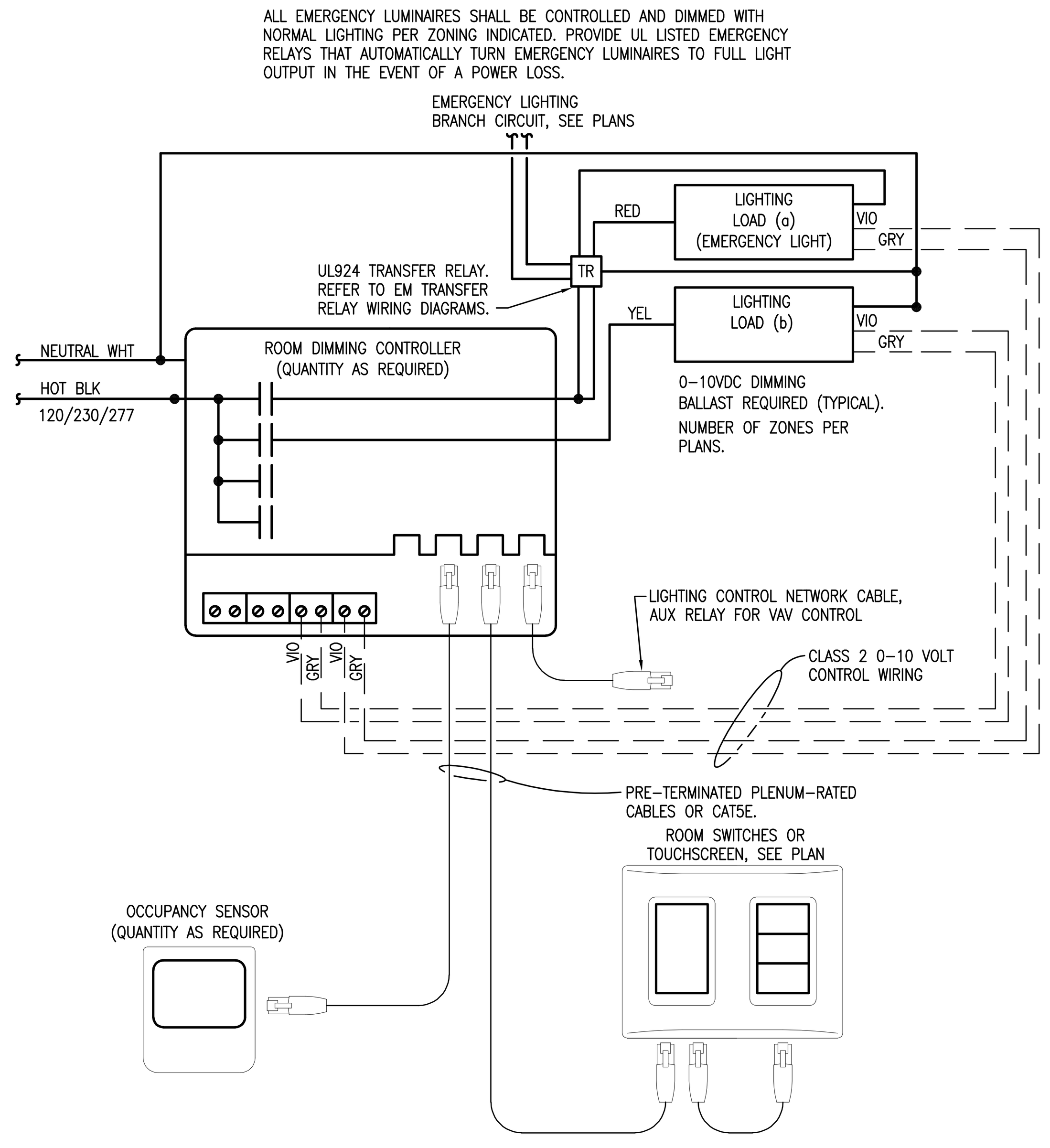
SHT.NO. E2.0
REVISION 0

LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE V_0817										
KEY	DESCRIPTION	MANUAL ON, AUTO OFF	AUTO ON, AUTO OFF	TIMECLOCK ON/OFF	LOCAL SWITCHING	LOCAL DIMMING	OCCUPANCY SENSOR TIME DELAY	PHOTOSENSOR DIMMING	PHOTOSENSOR ON/OFF	NOTES
S1	VACANCY SENSING, LOCAL MANUAL ON/OFF	X				X	20 MINUTE			
S2	OCCUPANCY SENSING, AUTO ON, LOCAL MANUAL DIMMING		X			X	20 MINUTE			

NOTES
1. BASIS OF DESIGN: ENCELIUM
2. PROVIDE OCCUPANCY SENSORS, VACANCY SENSORS, DAYLIGHT SENSORS, AND ALL ASSOCIATED CONTROL COMPONENTS REQUIRED TO COMPLY WITH CUA LIGHTING CONTROL STANDARDS.
3. ALL CONTROL SENSORS SHALL BE CEILING MOUNTED.
4. NAMING CONVENTION OF LIGHTING CONTROL TO COMPLY WITH CUA STANDARDS, 26 09 43 NETWORK LIGHTING CONTROLS.
5. LIGHTING CONTROL SYSTEM TO INTERFACE WITH BUILDING AUTOMATION SYSTEM.
6. OCCUPANCY SENSORS SHALL BE LOCATED 6' FROM DIFFUSERS, NOT IN THE SAME TILE AS SPRINKLER HEADS. FOR ENCLOSED ROOMS IN A LOCATION WHERE THE SENSOR CANNOT SEE OUTSIDE OF AN OPEN DOOR.

LUMINAIRE SCHEDULE Version 1107								
				SPECIFICATION (NOTE 1)				
KEY	DESCRIPTION	FINISH	MOUNTING	MANUFACTURER	CATALOG NUMBER	VOLTS	VA	NOTES
A	1'X4' LED TROFFER	WHITE	RECESSED	LITHONIA	ALL4-30L-GZ1-LP840	UNV	30	
B	2'X2' LED TROFFER	WHITE	RECESSED	LITHONIA	2ALL2-33L-GZ1-LP840	UNV	29	
C	2'X4' LED TROFFER	WHITE	RECESSED	LITHONIA	2ALL4-30L-GZ1-LP840	UNV	25	
D	6" LED DOWNLIGHT	WHITE	RECESSED	LITHONIA	LDN6-40/07-LO6-WR-LSS-MVOLT-GZ1	UNV	10.4	

LUMINAIRE SCHEDULE NOTES:
UNLESS INDICATED OTHERWISE, REFER TO THE SPECIFICATIONS FOR ALL LAMPS AND BALLASTS. COORDINATE THE VOLTAGE AND MOUNTING CONFIGURATION WITH THE PLANS.



1 / E3.0 ROOM LIGHTING CONTROL WIRING DIAGRAM

SCALE: NONE

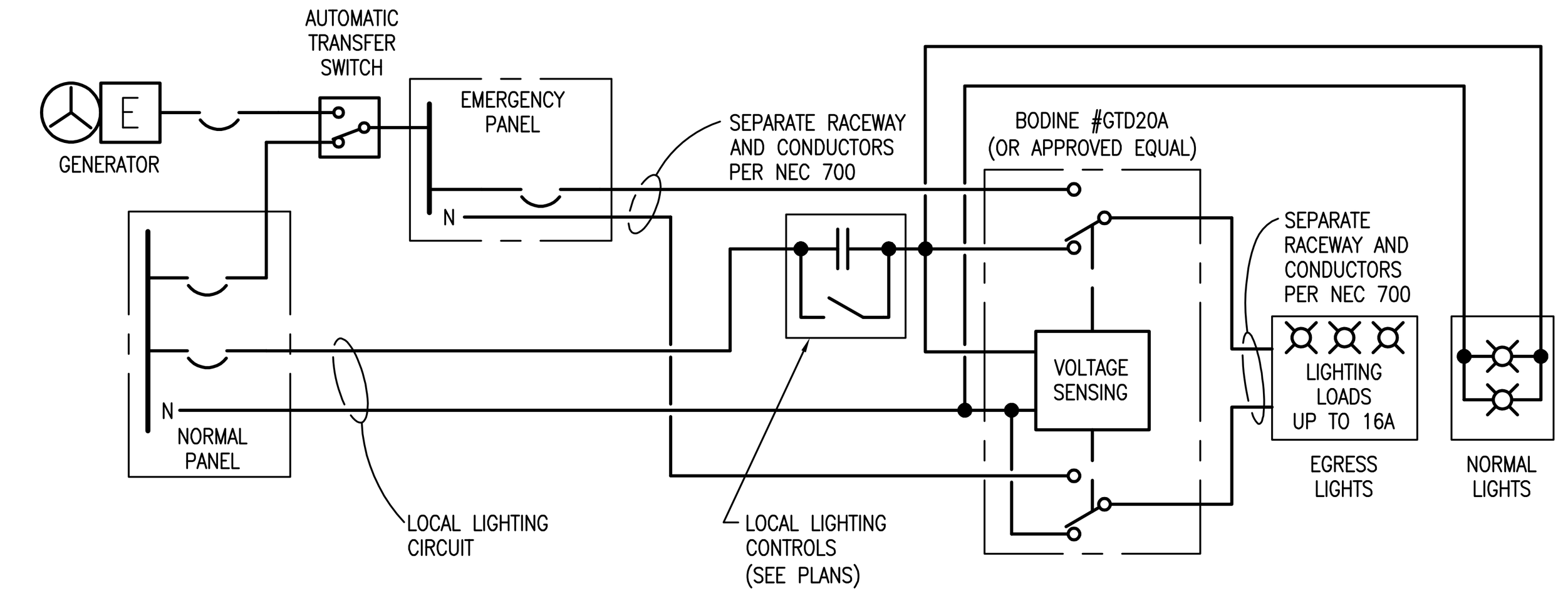
Rev.Date 11/16/2017

NOTES:

NOT ALL DEVICES IN THIS DIAGRAM MAY APPLY AND IS MEANT TO DEPICT GENERAL SCOPE OF CONTROL SYSTEM. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION TABLE AND PLANS FOR CONTROL SYSTEM PERFORMANCE REQUIREMENTS.

PROVIDE PHOTO SENSORS, MOTION SENSORS AND OTHER REQUIRED CONTROL COMPONENTS TO ACCOMPLISH THE LIGHTING CONTROL SEQUENCE.

PROVIDE CAM AND CONTROL WIRING ON ALL VAVS TO CONTROL THE UNITS VIA THE ZONE OCCUPANCY SIGNAL.



2 / E3.0 GENERATOR POWER FOR EGRESS LIGHTING AND TRANSFER RELAY WIRING DIAGRAM

SCALE: NONE

Rev.Date 11/17/2015

COMcheck Software Version 4.1.5.2
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title:
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Corridor/Transition >=8 ft wide	3643	0.66	2404
		Total Allowed Watts =	2404

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Common Space Types:Corridor/Transition >=8 ft wide				
LED 1: A: Other:	1	19	30	570
LED 1: B: Other:	1	4	29	116
LED 1: C: Other:	1	17	25	425
LED 1: D: Other:	1	7	10	73
			Total Proposed Watts =	1184

Interior Lighting PASSES: Design 51% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Charles Basil - Electrical Engineer | [signature] | 6/30/2022
Name - Title | Signature | Date

COM*check* Software Version 4.1.5.2
Inspection Checklist
Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.6 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8.2, C405.8.2.1 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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