CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14TH STREET
DENVER, CO 80204

CU DENVER

PROJECT NO. 21-174017

100% CONSTRUCTION DOCUMENTS - DECEMBER 1, 2023

PROJECT DESCRIPTION

THE SCOPE OF WORK INCLUDES UPGRADING THE ELECTRICAL DISTRIBUTION INCLUDING THE MAIN SERVICE ENTRANCE DISTRIBUTION SWITCHBOARD AND THE PANELS THROUGHOUT THE BUILDING. THERE ARE PANELS WHICH WILL BE REFED IN ORDER TO MAKE ACCESS TO THEM MORE PRACTICAL. IN ADDITION, THERE ARE REVISIONS TO THE GROUNDING SYSTEM TO ADDRESS ISSUES FOR A MORE EFFICIENTLY GROUNDED SYSTEM. A NEW GROUNDING TRIAD OF RODS SHALL BE INSTALLED AND CONNECTED TO THE MAIN DISTRIBUTION CENTER (MDC). NEW TRANSFORMER GROUND BARS SHALL BE INSTALLED ON FLOORS HAVING TRANSFORMERS. THE GROUND BARS SHALL BE CONNECTED THROUGHOUT BACK TO THE MDC. EACH TRANSFORMER SHALL HAVE THEIR ASSOCIATED EQUIPMENT GROUND CONNECTED TO THE TRANSFORMER GROUND BAR.

BUILDING CODE REFERENCES

IBC	INTERNATIONAL BUILDING CODE (2021 EDITION)
IFC	INTERNATIONAL FIRE CODE (2021 EDITION)
IMC	INTERNATIONAL MECHANICAL CODE (2021 EDITION)
NEC	NATIONAL ELECTRIC CODE (2020 EDITION)
IECC	INTERNATIONAL ENERGY CONSERVATION CODE (2021 EDITION)

PROJECT TEAM

OWNER:
UNIVERSITY OF COLORADO - DENVER
FACILITIES PROJECT DIVISION

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ELECTRICAL ENGINEER:
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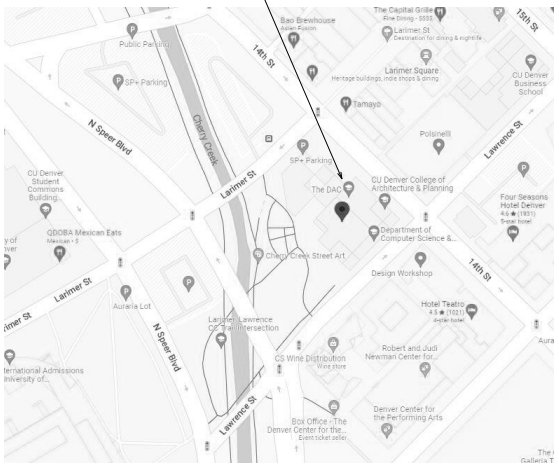
EMAIL: JMARSHALL@ARCHSHOP.COM

DRAWING INDEX

PROJECT LOCATION



CU DENVER BUILDING - VICINITY MAP

SCALE: NONE

NORTH

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
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CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

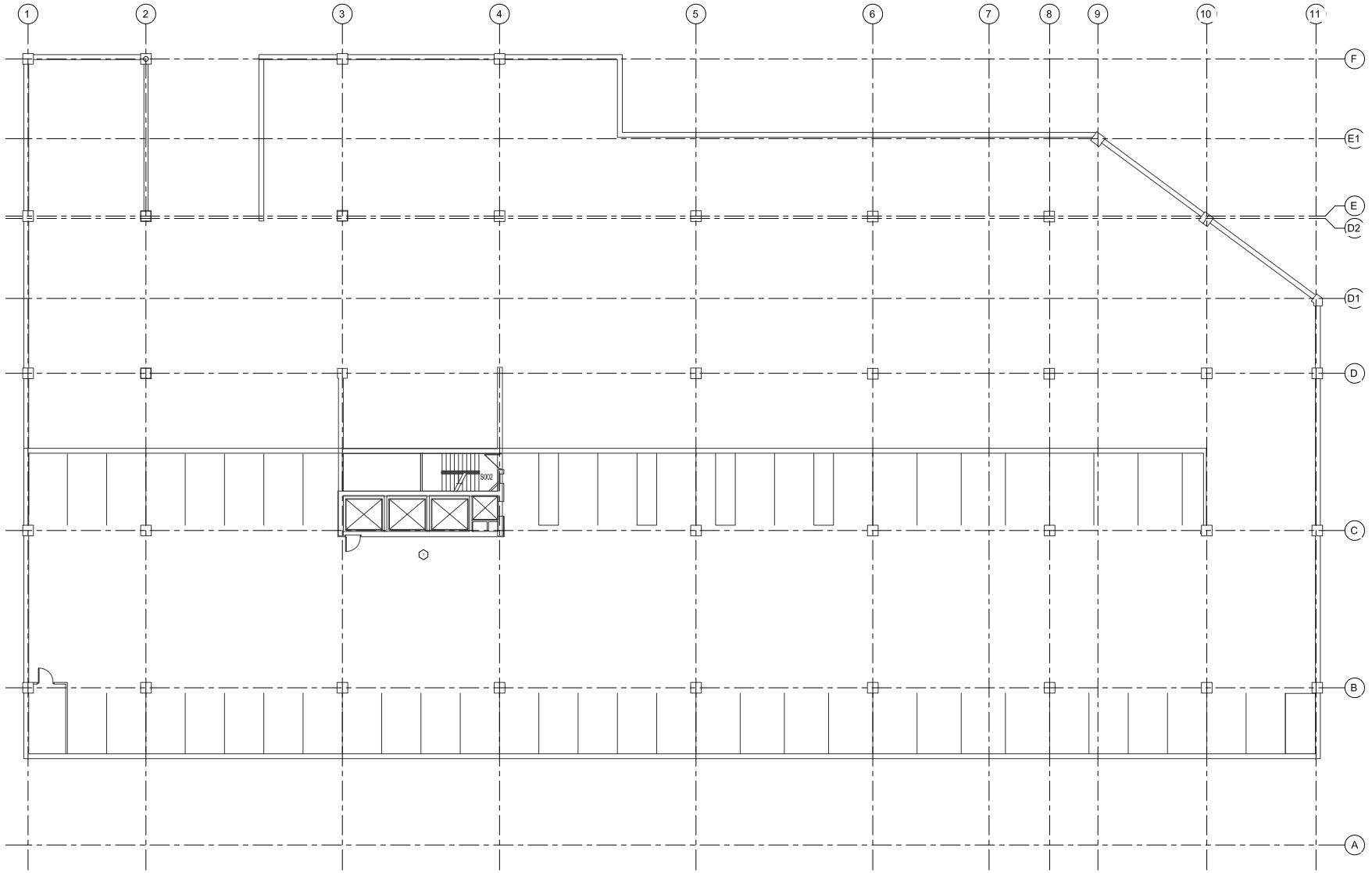
SBEC Project #:	210032
Scale:	1/8" = 1'-0"
Drawn By:	JR
Designed By:	JR/AGR
Checked By:	AGR/JE

Issued For:	Date:
100% CONSTRUCTION	12/01/2023

PROJECT COVER SHEET

G0.00

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.



CODE:

BUILDING ADDRESS:	CU DENVER BUILDING 1250 14TH STREET DENVER, COLORADO 80202	
BUILDING HEIGHT (# OF STORIES):	8 STORIES	(NO CHANGE FROM EXISTING)
SPRINKLER SYSTEM:	FULLY	(AS PER IBC CH 9 - NO CHANGE)
BUILDING CONSTRUCTION:	TYPE I-B	(NO CHANGE FROM EXISTING)
OCCUPANCY GROUP:	B	(NO CHANGE FROM EXISTING)
CODE:	2021 IBC	

KEY NOTES:

⬡ NO ARCHITECTURAL SCOPE THIS LEVEL

1 ARCHITECTURAL PLAN - LEVEL P2
1/8" = 1'-0" REF: PLAN NORTH

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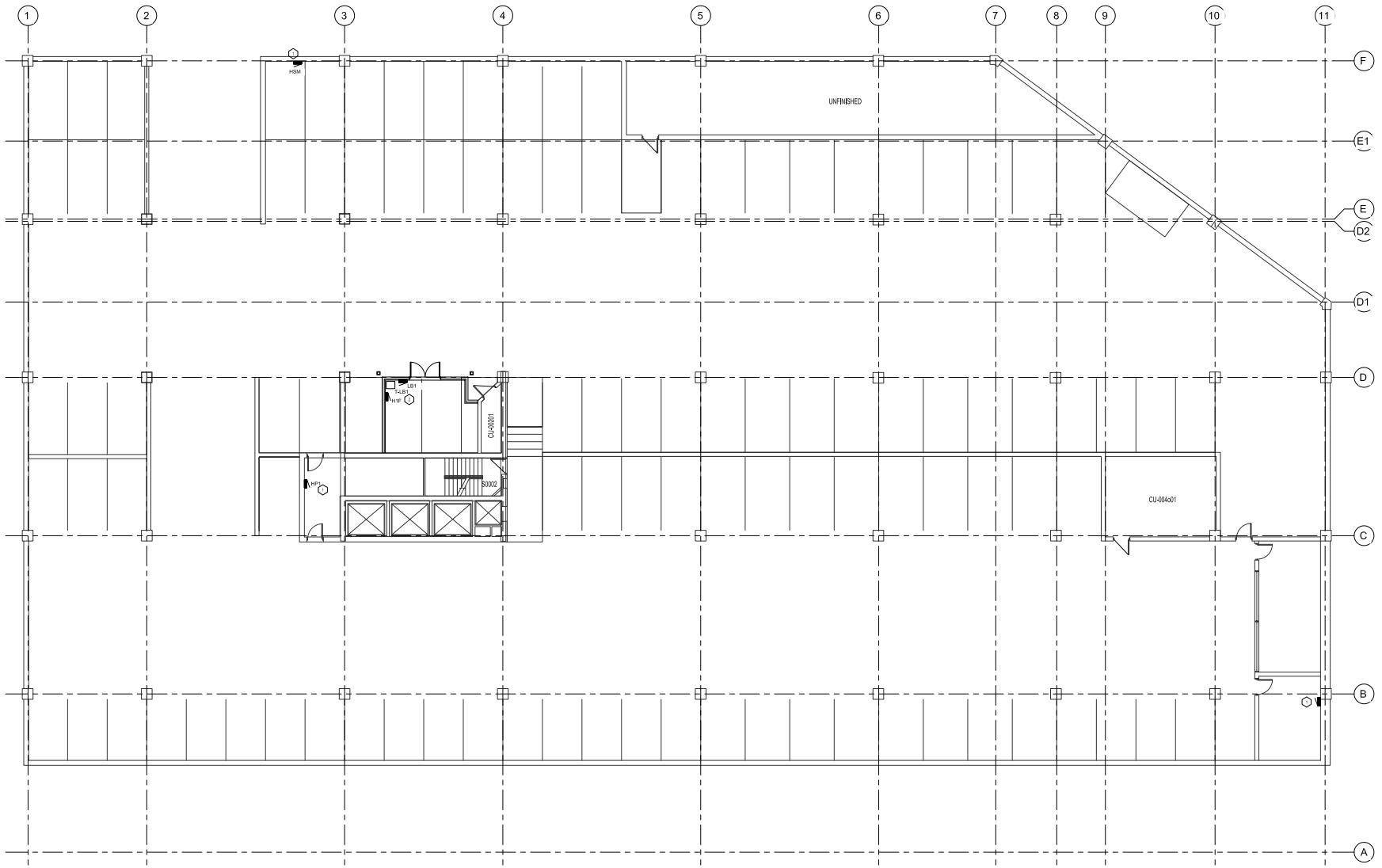
CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #:	220020
Scale:	AS SHOWN
Drawn By:	JSM
Designed By:	JSM
Checked By:	JSM

Issued For:	Date:
DESIGN DEVELOPMENT	04/26/2023
95% CONSTRUCTION DOCUMENTS	07/24/2023
100% CONSTRUCTION DOCUMENTS	12/01/2023

OVERALL ARCHITECTURAL PLAN - LEVEL P2 AND BLDG. CODE

A2.00



KEY NOTES:

1. NEW ELECTRICAL PANEL AT THIS LOCATION. IF NEW PANEL LOCATION OR CONDUIT EXPOSES UNPAINTED WALL SURFACE THEN PAINT THE WALL FROM INSIDE CORNER TO INSIDE CORNER FULL HEIGHT. PAINT COLOR TO BE COLOR MATCHED TO THE EXISTING WHITE PAINT COLOR.
2. NEW SURFACE MOUNTED ELECTRICAL PANEL INSTALL. NO ARCHITECTURAL SCOPE AT THIS LOCATION.

1 ARCHITECTURAL PLAN - LEVEL P1

1/8" = 1'-0" REF:

PLAN NORTH

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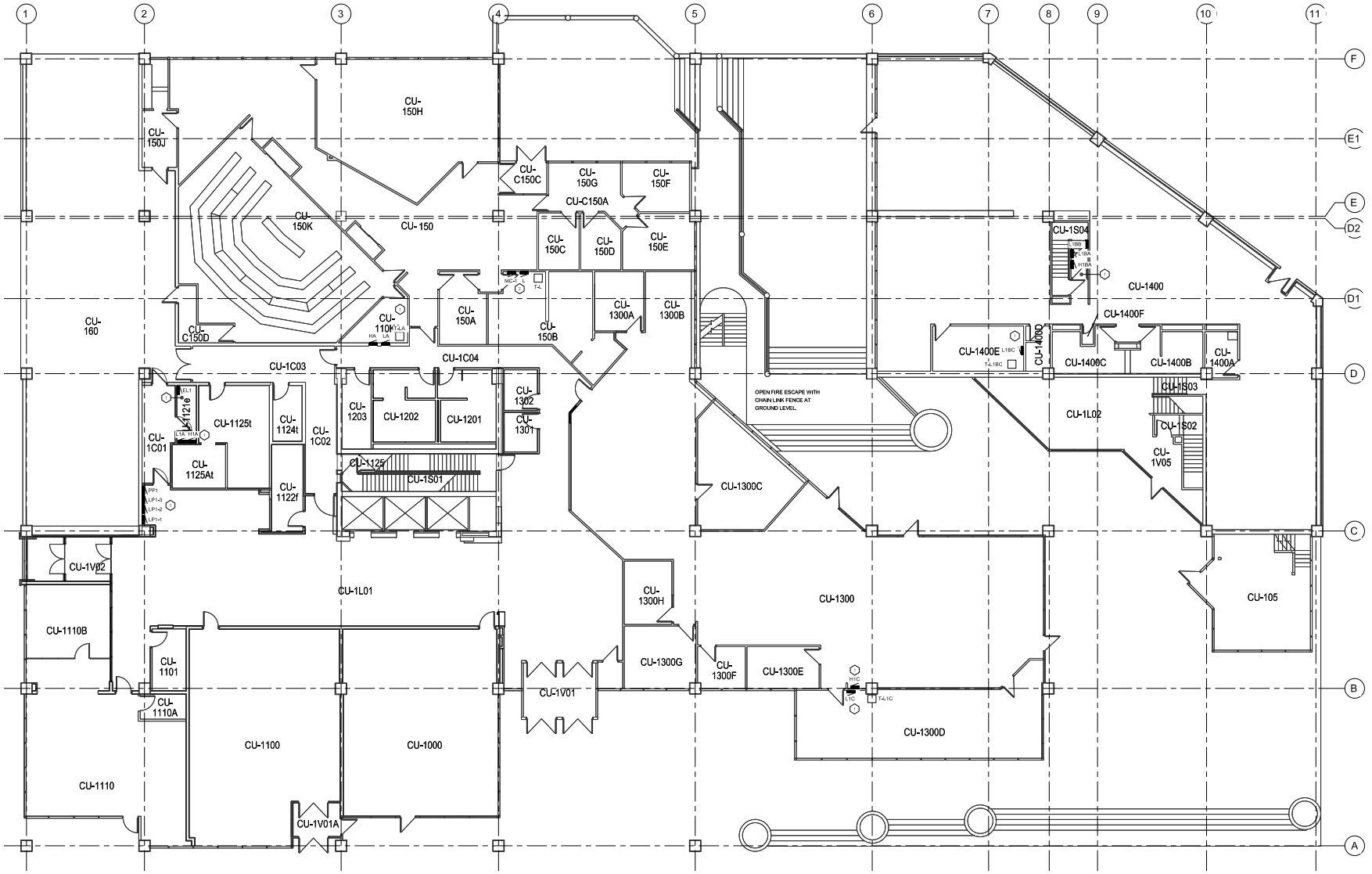
OVERALL ARCHITECTURAL PLAN - LEVEL P1

A2.01



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1 ARCHITECTURAL PLAN - LEVEL 1

1/8" = 1'-0" REF: PLAN NORTH

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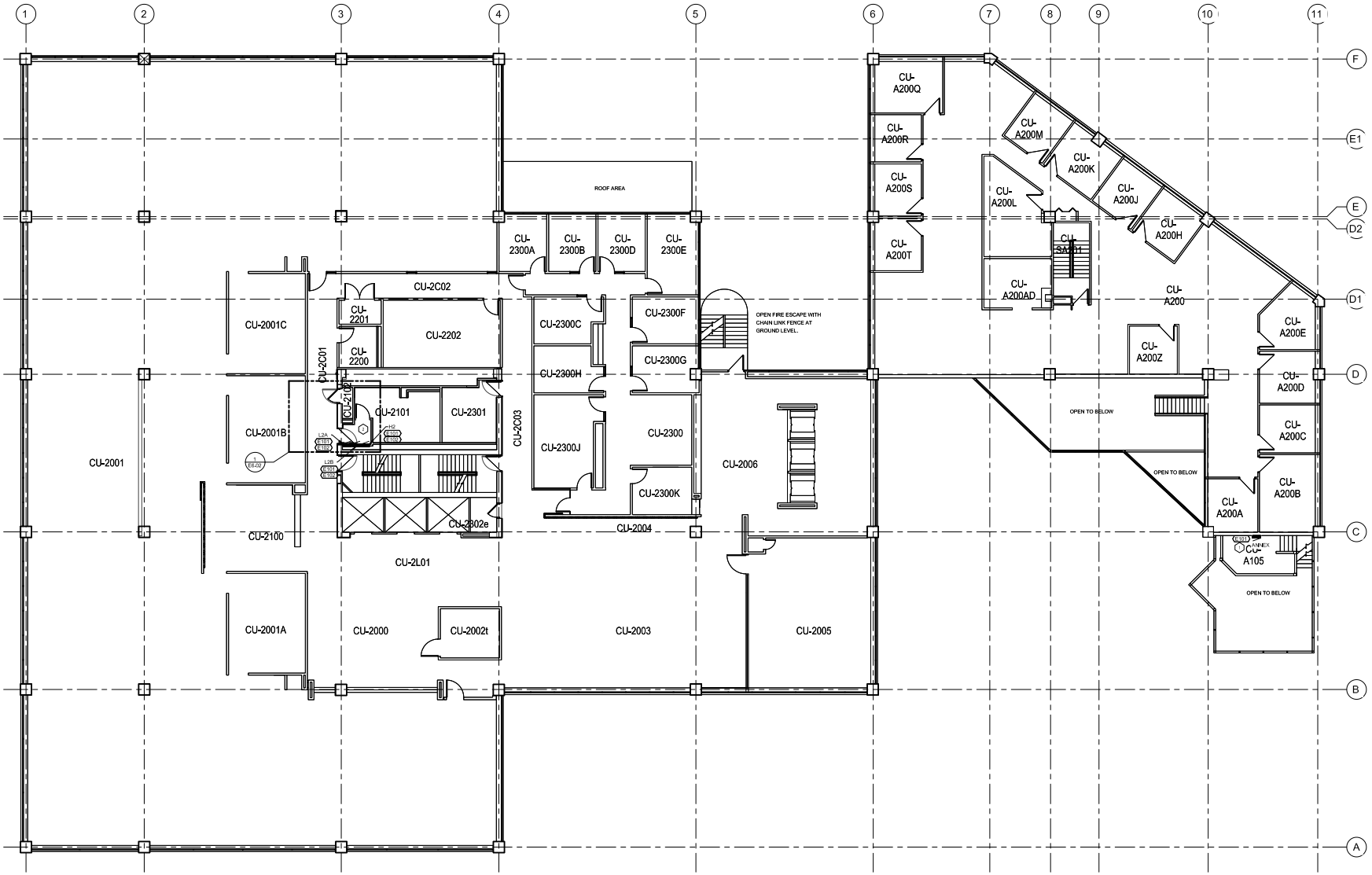
OVERALL ARCHITECTURAL PLAN - LEVEL 1

A2.10



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1 ARCHITECTURAL PLAN - LEVEL 2

1/8" = 1'-0" REF:

PLAN NORTH

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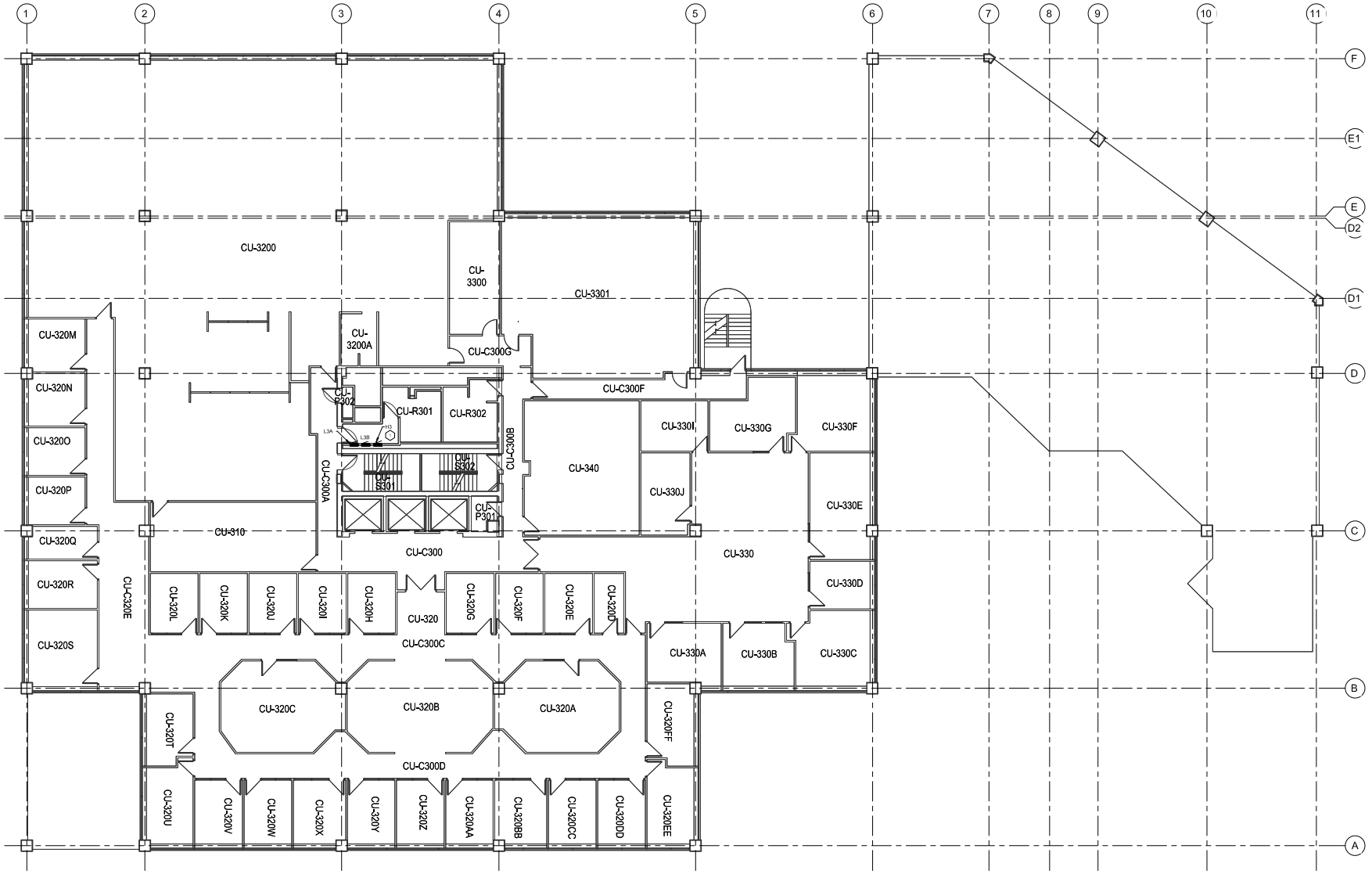
OVERALL ARCHITECTURAL PLAN - LEVEL 2

A2.20



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1 ARCHITECTURAL PLAN - LEVEL 3
1/8" = 1'-0" REF:

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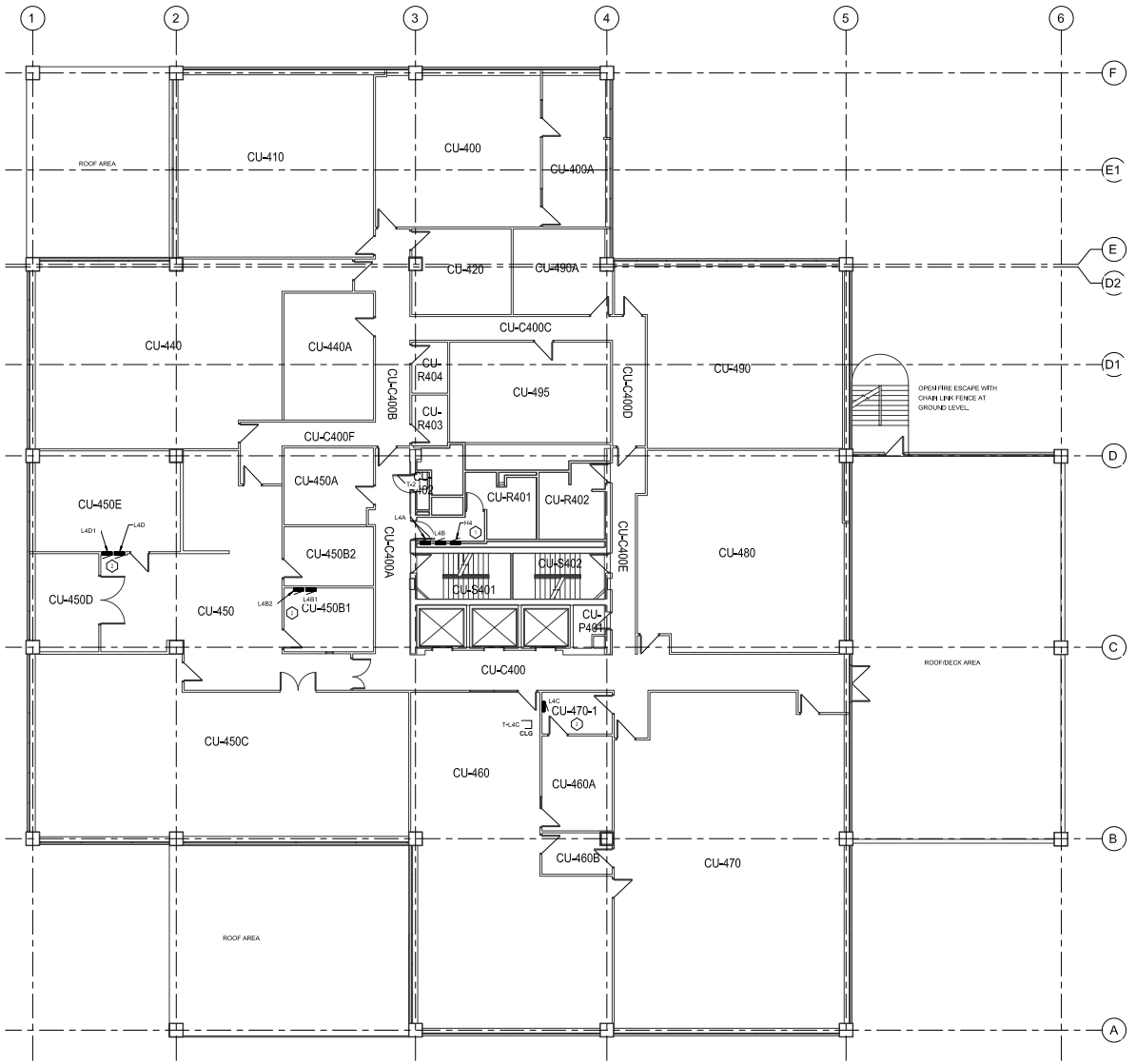
OVERALL ARCHITECTURAL PLAN - LEVEL 3

A2.30



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1 ARCHITECTURAL PLAN - LEVEL 4
1/8" = 1'-0" REF: PLAN NORTH

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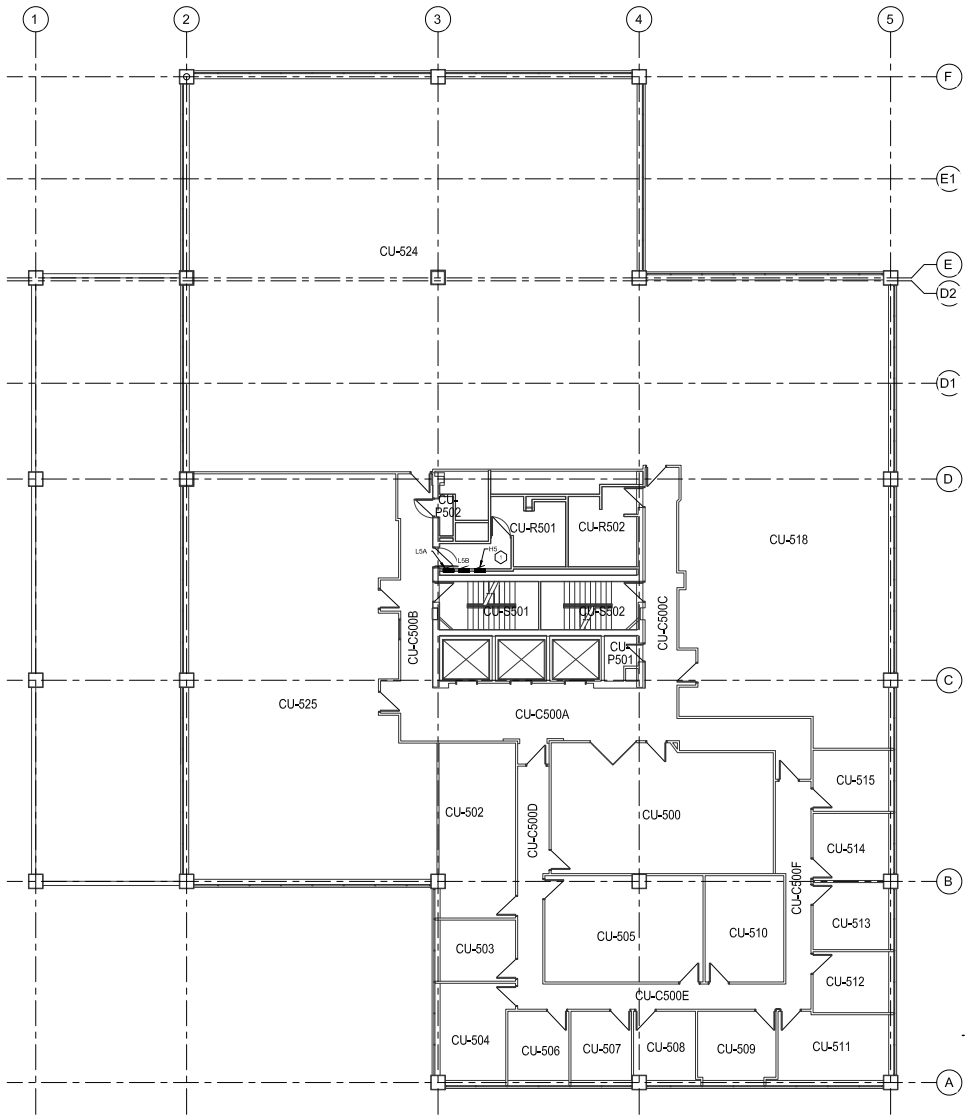
OVERALL ARCHITECTURAL PLAN - LEVEL 4

A2.40



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1 ARCHITECTURAL PLAN - LEVEL 5
1/8" = 1'-0" REF: PLAN NORTH

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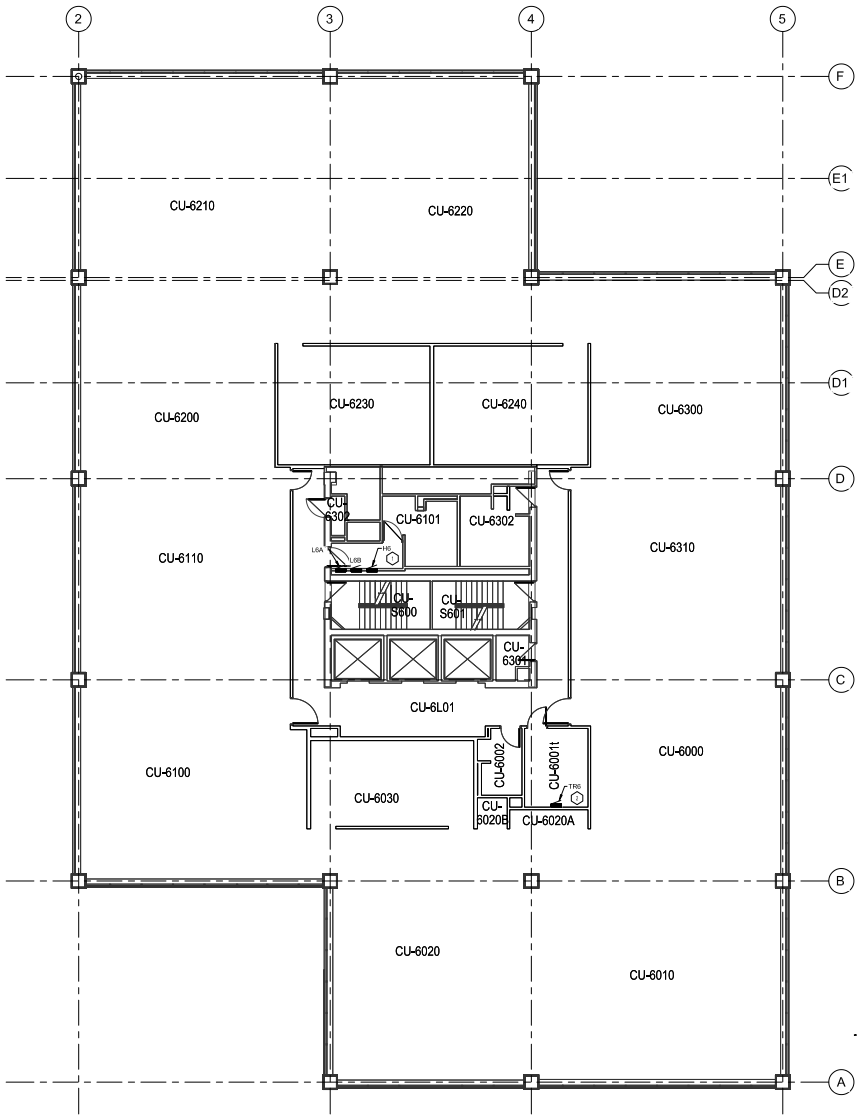
OVERALL ARCHITECTURAL PLAN - LEVEL 5

A2.50



KEY NOTES:

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1 ARCHITECTURAL PLAN - LEVEL 6
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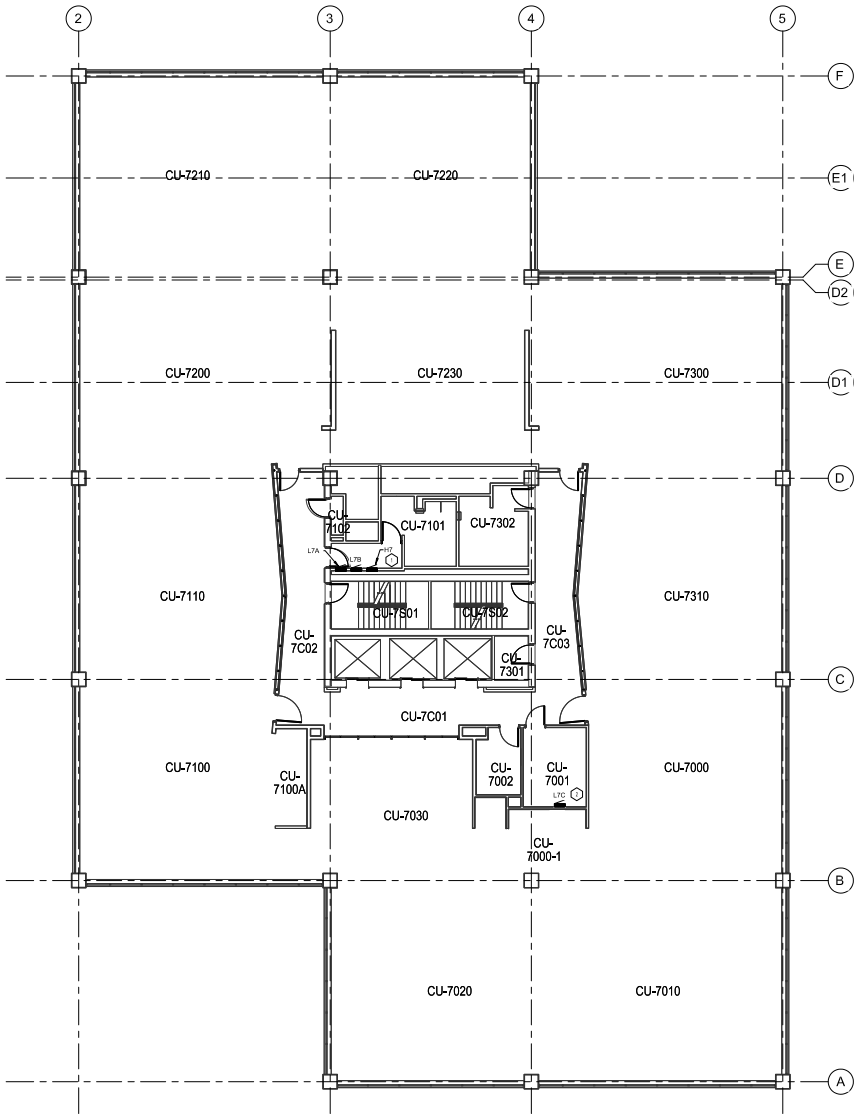
CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #:	220020
Scale:	AS SHOWN
Drawn By:	JSM
Designed By:	JSM
Checked By:	JSM

Issued For:	Date:
DESIGN DEVELOPMENT	04/26/2023
95% CONSTRUCTION DOCUMENTS	07/24/2023
100% CONSTRUCTION DOCUMENTS	12/01/2023

OVERALL ARCHITECTURAL PLAN - LEVEL 6

A2.60



KEY NOTES:

1. NEW ELECTRICAL PANEL(S) AT THIS LOCATION. PATCH WALL AND CEILING TO MATCH ADJACENT LEVEL OF FINISH AND PAINT THE WALL FROM INSIDE CORNER TO INSIDE CORNER FULL HEIGHT. PAINT THE ENTIRE CEILING. PAINT COLORS TO BE COLOR MATCHED TO THE EXISTING PAINT COLORS. PROVIDE NEW WALL BASE TO MATCH THE EXISTING ADJACENT WALL BASE. PROTECT FLOORING.
2. NEW ELECTRICAL PANEL(S) AT THIS LOCATION. PATCH WALL TO MATCH ADJACENT LEVEL OF FINISH AND PAINT THE WALL FROM INSIDE CORNER TO INSIDE CORNER FULL HEIGHT. PAINT COLOR TO BE COLOR MATCHED TO THE EXISTING PAINT COLOR.

1 ARCHITECTURAL PLAN - LEVEL 7
1/8" = 1'-0" REF: PLAN NORTH

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER BAUCOM ENGINEERING & CONSULTING, (SBEC). IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

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ARCHITECTURAL WORKSHOP DENVER, COLORADO

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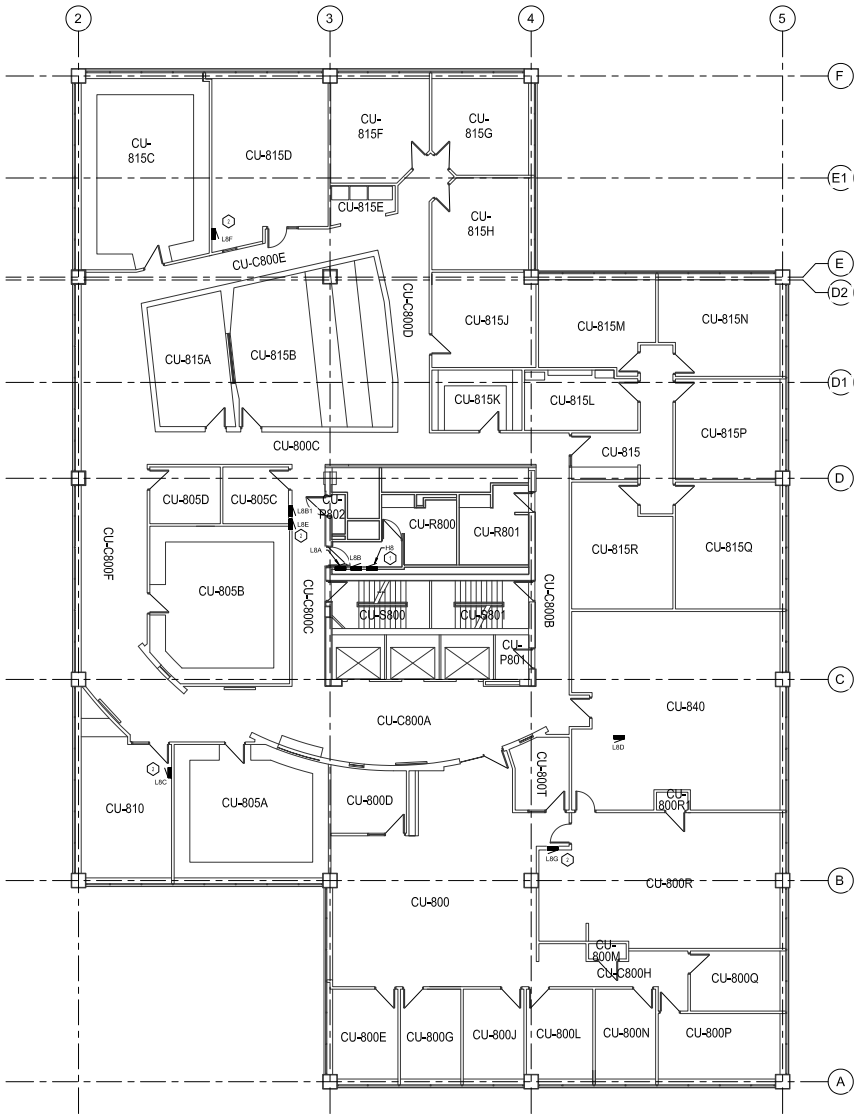
OVERALL ARCHITECTURAL PLAN - LEVEL 7

A2.70



KEY NOTES:

1. NEW ELECTRICAL PANEL(S) AT THIS LOCATION. PATCH WALL AND CEILING TO MATCH ADJACENT LEVEL OF FINISH AND PAINT THE WALL FROM INSIDE CORNER TO INSIDE CORNER FULL HEIGHT. PAINT THE ENTIRE CEILING. PAINT COLORS TO BE COLOR MATCHED TO THE EXISTING PAINT COLORS. PROVIDE NEW WALL BASE TO MATCH THE EXISTING ADJACENT WALL BASE. PROTECT FLOORING.
2. NEW ELECTRICAL PANEL(S) AT THIS LOCATION. PATCH WALL TO MATCH ADJACENT LEVEL OF FINISH AND PAINT THE WALL FROM CORNER TO CORNER FULL HEIGHT. PAINT COLOR TO BE COLOR MATCHED TO THE EXISTING PAINT COLOR. REMOVE THE ACT CEILING AS NEEDED TO PERFORM THE SCOPE OF WORK AND REINSTALL WHEN FINISHED. REPLACE SOILED DAMAGED TILES TO MATCH THE EXISTING TILES AS NEEDED.

1 ARCHITECTURAL PLAN - LEVEL 8
1/8" = 1'-0" REF:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
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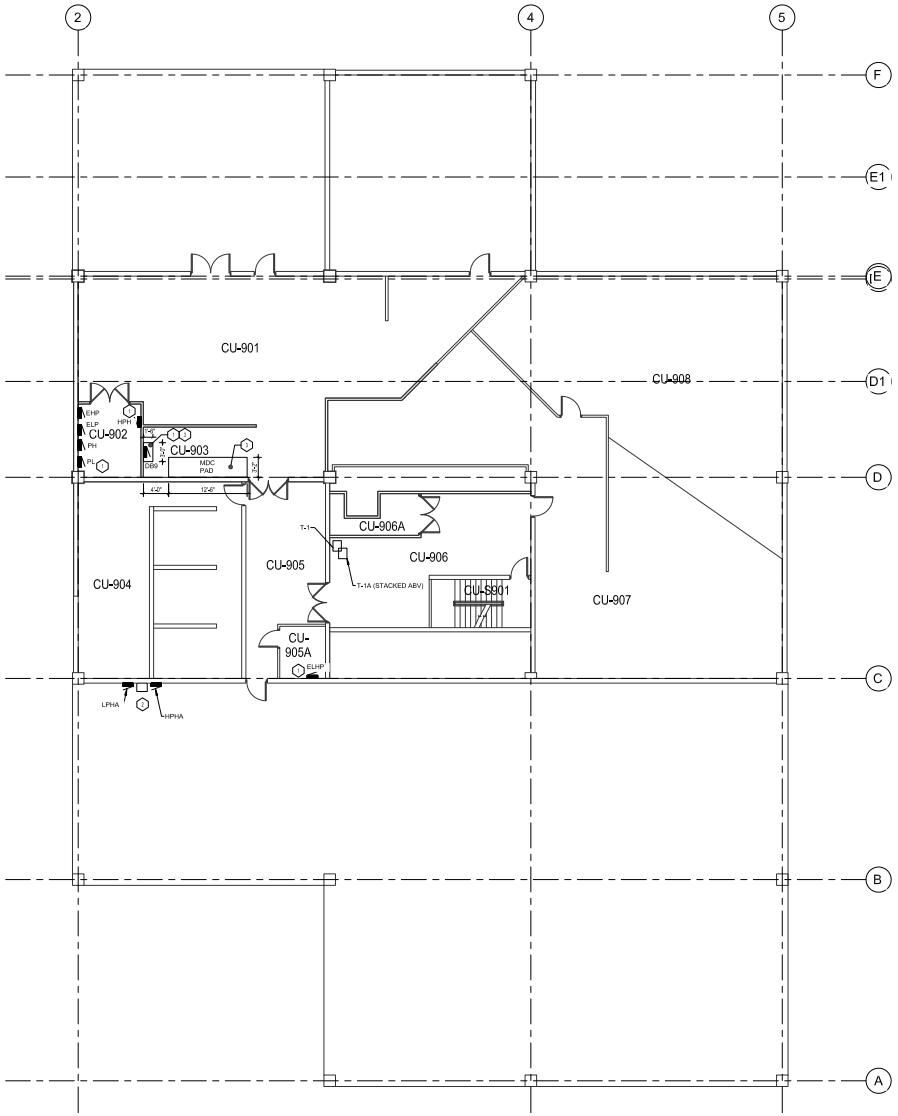
OVERALL ARCHITECTURAL PLAN - LEVEL 8

A2.80

THE ORIGINAL OF THIS DRAWING IS 30" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.



KEY NOTES:

1. NEW ELECTRICAL PANEL(S) AT THIS LOCATION. PATCH WALL TO MATCH ADJACENT LEVEL OF FINISH AND PAINT THE WALL FROM INSIDE CORNER TO INSIDE CORNER FULL HEIGHT. PAINT COLOR TO BE COLOR MATCHED TO THE EXISTING PAINT COLOR.
2. NEW ELECTRICAL PANEL(S) AT THIS LOCATION. NO ARCHITECTURAL SCOPE.
3. NEW 4" THICK CONCRETE HOUSEKEEPING PAD CENTERED ON WALL. #4 BARS @ 12" O.C. EACH WAY MID DEPTH OF SLAB. PREP EXISTING CONCRETE SLAB BY REMOVING ANY COATINGS, OILS OR FINISHES PRIOR TO POURING PAD. PROTECT WALL SURFACES. FINAL DOMC, PAD SIZE TO BE COORDINATED WITH FINAL ELECT. EQUIPMENT SELECTION.

1 ARCHITECTURAL PLAN - LEVEL 9
1/8" = 1'-0" REF: PLAN NORTH

NOTE:
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OVERALL ARCHITECTURAL PLAN - LEVEL 9

A2.90

ELECTRICAL LEGEND

(Not all symbols listed below are used on these drawings)

FIRE ALARM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
EVAC	VOICE EVACUATION CONTROL UNIT
MIC	REMOTE VOICE EVACUATION MICROPHONE
GAP	GRAPHIC ANNUNCIATOR PANEL
ECCU	EMERGENCY COMMUNICATIONS CONTROL UNIT
FSCP	FIRE SUPPRESSION CONTROL PANEL
ARCM	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM/MASTER UNIT
ARCR	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM/REMOTE UNIT
ESR	ELEVATOR STATUS/RECALL
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
HVAC	CONTROL PANEL FOR VENTILATION, PRESSURIZATION
KB	KNOX BOX
F	MANUAL PULL STATION
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
SPF	SPRINKLER FLOW SWITCH
VS	VALVE SUPERVISORY SWITCH
PS	PRESSURE SWITCH
DH	DOOR HOLDER, MAGNETIC
DC	DOOR CLOSER
DSTS	DUCT SMOKE DETECTOR REMOTE INDICATOR LIGHT AND REMOTE TEST STATION
	AIR SAMPLING DETECTOR PIPING AND PORT
A J H	FIRE SERVICE OR EMERGENCY PHONE (* INDICATES DEVICE) ACCESSIBLE JACK HANDSET

SYMBOL	DESCRIPTION
S P BT BR UF AS SS	SMOKE DETECTOR (* INDICATES DEVICE) PHOTOELECTRIC IONIZATION BEAM TRANSMITTER BEAM RECEIVER BELOW RAISED ACCESS FLOOR AIR SAMPLING SINGLE STATION
S R P I	DUCT SMOKE DETECTOR (* INDICATES DEVICE) SUPPLY RETURN PHOTOELECTRIC IONIZATION
F R	HEAT DETECTOR/SENSOR (* INDICATES DEVICE) FIXED TEMPERATURE RATE OF RISE
UV IF	FLAME DETECTOR (* INDICATES DEVICE) ULTRAVIOLET INFRARED
	FLAME DETECTOR (* INDICATES DEVICE)
SH	SMOKE/HEAT DETECTOR/SENSOR COMBINATION
	AUDIBLE NOTIFICATION HORN
	AUDIBLE NOTIFICATION SPEAKER
	COMBINATION AUDIBLE/VISIBLE NOTIFICATION HORN/STROBE
	COMBINATION NOTIFICATION SPEAKER/STROBE
cd cd	VISIBLE FIRE ALARM STROBE (CEILING & WALL MOUNT) cd - CANDELA RATING (IF SHOWN)
cd cd	REMOTE INDICATOR LIGHT (CEILING & WALL MOUNT) cd - CANDELA RATING (IF SHOWN)
R1 R1	VISIBLE MASS NOTIFICATION STROBE (CEILING & WALL MOUNT) cd - CANDELA RATING (IF SHOWN)
	FIRE ALARM BELL
A	ABORT SWITCH
M	MANUAL RELEASING STATION

COMMUNICATION AND SYSTEMS

	TELEPHONE TERMINAL BOARD
W P PWY	VOICE DEVICE WALL PAY
	VOICE DEVICE FLOOR MOUNTED
	TELEVISION DEVICE
	BELL/CLOCK DEVICE
WAP	WIRELESS ACCESS POINT
	DATA OUTLET
	DATA OUTLET, FLOOR MOUNTED
	COMBINATION TELEPHONE/DATA OUTLET
	COMBINATION TELEPHONE/DATA OUTLET, FLOOR MOUNTED
	COMMUNICATION/POWER FLOOR BOX, DEVICES AS INDICATED
	COMMUNICATION/POWER POKE THROUGH, DEVICES AS INDICATED
	COMMUNICATION/POWER POLE, DEVICES AS INDICATED

SECURITY AND PUBLIC ADDRESS

SYMBOL	DESCRIPTION
SCP	SECURITY CONTROL PANEL
PAMC	PUBLIC ADDRESS MASTER CONTROL
PAA	PUBLIC ADDRESS AMPLIFIER
P PPA	PUBLIC ADDRESS (* INDICATES DEVICE) FLOOR MOUNTED
B BZ I MC PB S V	BELL BUZZER INTERCOM STATION MICROPHONE PUSHBUTTON SPEAKER VOLUME CONTROL
	SECURITY DEVICE (* INDICATES DEVICE)
AC C CR DR DS ED DL GB H KP M MDI MDU PB	ACCESS CONTROL CAMERA CARD READER DOOR RELEASE PUSHBUTTON DOOR SENSOR ELECTRIC DOOR STRIKE ELECTRIC DOOR LATCH GLASS BREAK SENSOR HORN KEY PAD MONITOR MOTION DETECTOR INFRARED MOTION DETECTOR ULTRASONIC PANIC PUSHBUTTON

NURSE CALL

SYMBOL	DESCRIPTION
NCCP	NURSE CALL CONTROL PANEL
NCPT	NURSE CALL CONSOLE
N N CB CC DL DLZ DS EB	NURSE CALL: CEILING, WALL MOUNTED (* INDICATES DEVICE) CORE ZERO (CODE BLUE) CALL CANCEL DOME LIGHT DOME LIGHT ZONE DUTY STATION EMERGENCY CALL STATION WITH PUSHBUTTON
EP EL EP ES LCD MS P PB PS R SL SS	EMERGENCY CALL STATION WITH FOOT SWITCH ELAPSE TIMECLOCK EMERGENCY CALL STATION WITH PULL CORD EMERGENCY CALL STATION WITH PULL CORD, SHOWER SLAVE MASTER STATION DISPLAY MASTER STATION PATIENT STATION PUSH BUTTON PRESENCE STATION REMOTE TIMECLOCK CONTROL STAFF LOCATER STATION STAFF STATION

LIGHTNING PROTECTION

	INSPECTION WELL
	GROUND ROD
	SURGE ARRESTER WITH GROUND
	AIR TERMINAL
	EXOTHERMIC CONNECTION
LP	LIGHTNING PROTECTION BARE CONDUCTOR

REFERENCE SYMBOLS

X	KEY NOTE REFERENCE (DEMOLITION, WHERE APPLICABLE)
	INDICATES DEMOLITION
A	FEEDER REFERENCE
XXXXX	EQUIPMENT REFERENCE (REFER TO EQUIPMENT SCHEDULE)
XX XXX	DETAIL REFERENCE
	REVISION DELTA
A-1,3,5	BRANCH CIRCUIT HOME RUN(ALL CIRCUITS HAVE A DEDICATED NEUTRAL.) ARROWS INDICATE NUMBER OF CIRCUITS. TEXT INDICATES PANELBOARD CIRCUIT.
PNL #	CIRCUIT INDICATION FOR ALL DEVICES WITHIN AN AREA OR ROOM. OCCASIONALLY A CIRCUIT NUMBER IS ADJACENT FOR CLARITY. (ALL CIRCUITS HAVE A DEDICATED NEUTRAL.)

LIGHTING

	SURFACE LUMINAIRE
	RECESSED LUMINAIRE
OR	EMERGENCY OPERATION
OR	CRITICAL OPERATION
	STRIP LUMINAIRE
	SURFACE CEILING MOUNTED LUMINAIRE
	RECESSED CEILING MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	COVE LIGHT/UNDERCOUNTER LUMINAIRE
	RECESSED WALL LUMINAIRE
	RECESSED WALL WASH LUMINAIRE
	SURFACE WALL WASH LUMINAIRE
	DARKROOM SAFE LIGHT, AS INDICATED
	EMERGENCY BATTERY PACK UNIT
	SINGLE FACE EXIT SIGN WITH DIRECTIONAL ARROWS
	DOUBLE FACE EXIT SIGN WITH DIRECTIONAL ARROWS
	POLE MOUNTED LUMINAIRE
	FLOOD LIGHT
A a	TRACK LIGHTING UPPER CASE DESIGNATES LUMINAIRE TYPE SUBSCRIPT INDICATES SWITCHLEG

POWER

	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
IG	ISOLATED GROUND
GFCI WP	DUPLEX RECEPTACLE, GFCI PROTECTED WEATHER PROOF (WEATHERPROOF WHILE IN-USE))
	DUPLEX RECEPTACLE, ESSENTIAL POWER
	DUPLEX RECEPTACLE, HALF SWITCHED
	DOUBLE DUPLEX RECEPTACLE (ESSENTIAL POWER)
	DUPLEX RECEPTACLE, CEILING MOUNTED (ESSENTIAL POWER)
	DOUBLE DUPLEX RECEPTACLE, CEILING MOUNTED (ESSENTIAL POWER)
	DUPLEX RECEPTACLE, FLOOR MOUNTED (ESSENTIAL POWER)
	DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED (ESSENTIAL POWER)
	SPECIAL RECEPTACLE: WALL, FLOOR, CEILING
	COMMUNICATION/POWER POKE THROUGH, DEVICES AS INDICATED
	COMMUNICATION/POWER POKE THROUGH, DEVICES AS INDICATED
	COMMUNICATION/POWER POLE, DEVICES AS INDICATED
	BUS DUCT
	GROUND BAR
W	MULTI-OUTLET ASSEMBLY # INDICATES DEVICE SPACING ON-CENTER
	EXISTING PANELBOARD
	NEW PANELBOARD OR NEW LOCATION
T	TRANSFORMER
M	UTILITY METER
	NON-FUSED DISCONNECT SWITCH
F	FUSED DISCONNECT SWITCH
CB	CIRCUIT BREAKER
VFD	VARIABLE FREQUENCY DRIVE
	MOTOR STARTER
	COMBINATION STARTER/DISCONNECT
M	MOTOR
T	PAD MOUNTED TRANSFORMER
	DISTRIBUTION EQUIPMENT

SWITCHING

S a 2 3 4 K M(TO) D EP MC OS P PI VS	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING) SWITCHING ZONE TWO POLE SWITCH THREE WAY SWITCH FOUR-WAY SWITCH KEY OPERATED SWITCH MOTOR RATED SWITCH (THERMAL OVERLOAD) DIMMER SWITCH EXPLOSION PROOF SWITCH MOMENTARY CONTACT SWITCH OCCUPANCY SENSOR SWITCH with ILLUMINATED HAND (LOAD OFF) SWITCH with PILOT LIGHT (LOAD ON) VARIABLE SPEED SWITCH
OS A a	OCCUPANCY SENSOR UPPER CASE DESIGNATES TYPE SUBSCRIPT INDICATES SWITCH LEG
	PUSHBUTTON
EPO PAO OHD	EMERGENCY POWER OFF POWER ASSIST DOOR OVERHEAD DOOR
LCA	LIGHTING CONTACTOR (REFERENCE SCHEDULE)
P	PHOTOCELL CONTROL
TC	TIME CLOCK

RACEWAYS

	CONDUIT
	CONDUIT, UNDERGROUND OR UNDERFLOOR
	CONDUIT, EMGERENCY OR CRITICAL
	INDICATES DEMOLITION
	CABLE TRAY
PB	PULLBOX
OR	CONDUIT TURNED DOWN OR UP
	FLEXIBLE CONNECTION
	BUSHED CONDUIT
OR	CONDUIT CAP OR BUSHED CONDUIT WITH CONDUCTOR
	SEAL-OFF
J OR	JUNCTION BOX, WALL OR CEILING MOUNTED (FLOOR MOUNTED)

ONE-LINE DIAGRAM SYMBOLS

	DISCONNECT SWITCH
	DISCONNECT SWITCH, FUSED
	CIRCUIT BREAKER
	FUSE
	GROUND
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	WEATHERHEAD
	SHORT CIRCUIT CURRENT NODE
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
LB NLB	TERMINATIONS LOAD BREAK NO LOAD BREAK
	ANSI PROTECTIVE DEVICE
	DRAW-OUT DEVICE
OR	DISCONNECT SWITCH, F INDICATES FUSED
CB	ENCLOSED CIRCUIT BREAKER
VFD	VARIABLE FREQUENCY DRIVE
T	TRANSFORMER
T	PAD MOUNTED TRANSFORMER
P	PANELBOARD
DM	DIGITAL METER
VS	VOLTMETER TEST SWITCH
AS	AMMETER TEST SWITCH
V	VOLTMETER
A	AMMETER
	FEEDER REFERENCE
E G	ENGINE GENERATOR
ATS MTS	TRANSFER SWITCH AUTOMATIC MANUAL
GFP	GROUND FAULT PROTECTION
SPD-x	SURGE PROTECTIVE DEVICE (REFERENCE SCHEDULE)
EGAP	ENGINE GENERATOR ANNUNCIATOR PANEL
M	METER
	COMBINATION STARTER/DISCONNECT
M	MOTOR STARTER
M	MOTOR
	EQUIPMENT ENCLOSURE

ELECTRICAL DRAWING INDEX

ABBREVIATIONS

A	AMPERES	NIC	NOT IN CONTRACT
a/c	ABOVE COUNTER	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	(N)	NEW
AFG	ABOVE FINISHED GRADE	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NO	NORMALLY OPEN
BFG	BELOW FINISHED GRADE	NL	NIGHT LIGHT
C	CONDUIT	OC	ON CENTER
CLG	CEILING MOUNTED	OHD	OVERHEAD DOOR
CCTV	CLOSED CIRCUIT TELEVISION	OHP	OVERHEAD PROJECTOR
CB	CIRCUIT BREAKER	PVC	POLY VINYL CHLORIDE
(D)	DEMOLISH & REMOVE	(R)	RELOCATED
(E)	EXISTING	(RR)	REMOVE & RELOCATE
E/G	ENGINE GENERATOR	RAF	RAISED ACCESS FLOOR
EM	EMERGENCY	RMC	RIGID METAL (STELL) CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RGS	RIGID GALVANIZED STEEL CONDUIT
EP	EXPLOSION PROOF	SB	STAND-BY
EWC	ELECTRIC WATER COOLER	SPD	SURGE PROTECTION DEVICE
(F)	FUTURE	TP	TAMPER PROOF
FA	FIRE ALARM	TYP	TYPICAL
G	GROUND	UF	UNDER FLOOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDER GROUND
GFI	GROUND FAULT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
GFP	GROUND FAULT PROTECTION	UPS	UNINTERRUPTABLE POWER SUPPLY
HOA	HAND "OFF" AUTOMATIC	V	VOLTS
IG	ISOLATED GROUND	VA	VOLT AMPERES
KVA	KILOVOLT AMPERES	VFD	VARIABLE FREQUENCY DRIVE
KW	KILOWATTS	W/	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MCC	MOTOR CONTROL CENTER	WG	WIRE GUARD
MLO	MAIN LUGS ONLY	WP	WEATHER PROOF
MV	MEDIUM VOLTAGE	XFMR	TRANSFORMER

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF LOCAL JURISDICTIONAL AUTHORITY AND BASE BUILDING STANDARDS.
2. WORK INCLUDED IN CONTRACT IS SHOWN WITH HEAVIER LINE WEIGHT; WORK SHOWN WITH LIGHT LINE WEIGHT IS (E) TO REMAIN. MAKE MODIFICATIONS TO (E) BRANCH CIRCUITS TO RETAIN CONTINUITY, INCLUDING EQUIPMENT OUTSIDE THE AREA OF WORK AND RELOCATED EQUIPMENT AND DEVICES.
3. MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT.
4. ALL CONDUIT SHALL BE INSTALLED CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED.
5. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS.
6. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT.
7. EQUIPMENT LOCATIONS ARE DIAGRAMMATIC AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCH SHALL BE WITHIN SIGHT OF EQUIPMENT SERVED AND SHALL MAINTAIN REQUIRED CLEARANCES.

GENERAL DEMOLITION NOTES

1. WORK SHOWN HATCHED IS TO BE REMOVED; WORK SHOWN WITH LIGHT LINE WEIGHT IS (E) TO REMAIN. MAKE MODIFICATIONS TO (E) BRANCH CIRCUITS TO RETAIN CONTINUITY, INCLUDING EQUIPMENT AND DEVICES OUTSIDE THE AREA OF WORK AND RELOCATED EQUIPMENT AND DEVICES.
2. DEMOLITION DRAWINGS ARE INCLUDED TO GIVE A COMMON BASIS FOR BIDDING. CONTRACTOR IS TO VERIFY (E) CONDITIONS AND REQUIRED DEMOLITION WORK PRIOR TO BID.
3. ALL WIRING, CONDUIT, BOXES AND SUPPORTS NO LONGER REQUIRED SHALL BE COMPLETELY REMOVED FROM THE AREA OF WORK.
4. THE OWNER SHALL HAVE FIRST RIGHT TO REMOVED DEVICES AND EQUIPMENT. IF THE OWNER DOES NOT WANT THE REMOVED DEVICES OR EQUIPMENT, THEN THE CONTRACTOR SHALL DISPOSE OF PROPERLY.
5. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS.
6. THROUGHOUT THE BUILDING, NO MATTER THE EXTENT OF WORK IN THE PARTICULAR AREA, (E) CABLING, CONDUIT, EQUIPMENT, ETC. SHALL BE PROPERLY SUPPORTED. JUNCTION BOXES COVERED, AND KNOCK OUT OPENINGS COVERED.
7. PRIOR TO DEMOLITION COMPLETELY CIRCUIT TRACE ALL ELECTRICAL SYSTEMS IN THE AREA OF RENOVATION AND SUBMIT INFORMATION, INCLUDING MARKED UP PANELBOARD DIRECTORIES, TO THE ARCHITECT. ADJUST REUSED CIRCUITS AS REQUIRED.
8. WHERE DEVICES AND EQUIPMENT ARE TO BE REMOVED, WALLS SHALL BE PATCHED TO MATCH ORIGINAL FINISH. BLANK COVER PLATES ARE NOT ACCEPTABLE UNLESS OTHERWISE NOTED.
9. EQUIPMENT MOUNTED ON CEILINGS BEING REMOVED FOR ANY REASON SHALL BE TEMPORARILY SUPPORTED AND INSTALLED ON THE REPLACEMENT CEILING, UNLESS OTHERWISE NOTED.

PHASING NOTES:

1. MAIN DISTRIBUTION CENTER UTILITY OUTAGE WILL BE LIMITED TO UNIVERSITY BREAK PERIODS SUCH AS HOLIDAYS AND/OR SCHEDULED INTERMISSIONS IN CLASS PERIODS. THE OVERALL BUILDING UTILITY OUTAGE PERIOD WILL BE LIMITED TO ONE OUTAGE AND TO NOT MORE THAN TWO WEEKS. THIS OUTAGE REQUIRES AN MOP AND WILL BE COORDINATED WITH THE UNIVERSITY NO LESS THAN 6 MONTHS IN ADVANCE OF THE WORK.
2. UTILITY OUTAGE TO THE BUILDING WILL REQUIRE THE FIRE PUMP TO BE AVAILABLE ON THE STAND-BY GENERATOR FOR THE ENTIRE OUTAGE. THE CONTRACTOR WILL PROVIDE THE FUEL FOR THE OUTAGE PERIOD AND WILL PROVIDE A FULL FILL TO "TOP-OFF" THE TANKS AT THE END OF THE PROJECT.
3. THE BUILDING HEATING AND COOLING SYSTEMS WILL BE REQUIRED TO MAINTAIN APPROPRIATE BUILDING TEMPERATURES DURING THE BUILDING WIDE OUTAGE. A TEMPORARY 1000kW GENERATOR WILL BE PROVIDED WITH TEMPORARY DISTRIBUTION AND CABLE CONNECTIONS TO THE MCC ON THE 9th FL (CHILLER SYSTEMS AND AIR HANDLING UNITS WITH THE APPROPRIATE FANS AND PUMPS) AND TO THE PANEL H1F IN THE LEVEL P1 PUMP RM. COORDINATE THE TEMPORARY GENERATOR LOCATION WITH THE UNIVERSITY. PROVIDE FUEL FOR THE DURATION OF THE OUTAGE.
4. PANEL BOARD AND TRANSFORMER REPLACEMENTS WILL OCCUR FROM FRIDAY STARTING NO EARLIER THAN 5:00P AND SHALL END NO LATER THAN 5:00A ON MONDAY. WORK ON PANEL BOARDS AND TRANSFORMERS WILL BE ALLOWED TO BE EXTEDED OVER FEDERAL HOLIDAYS, SUBJECT TO BEING BACK ON-LINE NO LATER THAN 5:00A THE FOLLOWING DAY.
5. OUTAGES MAY BE REQUESTED FOR SPECIFIC INSTANCES NOT LESS THAN THREE MONTHS PRIOR TO THE SUGGESTED OUTAGE. REQUESTS WILL BE REVIEWED BY THE UNIVERSITY WITHIN TWO WEEKS, HOWEVER THE REQUEST MAY NOT BE ACCEPTED, REQUIRING THE CONTRACTOR TO REVISE THEIR WORK TO AN APPROVED ALLOWABLE WINDOW.
6. THE CONTRACTOR MAY PERFORM WORK ON CONDUIT AND WIRING IN ADVANCE OF EQUIPMENT REPLACEMENTS DURING NORMAL WORK HOURS, SUBJECT TO MINIMAL IMPACT TO THE CLASS ACTIVITIES AS MAY BE REQUESTED BY THE UNIVERSITY.
7. ANY OUTAGES TO IT ROOM POWER, EQUIPMENT, ETC., SHALL BE COORDINATED A MINIMUM OF TWO MONTHS PRIOR WITH OIT DEPARTMENT.
8. COORDINATE THE 4th FLOOR AND 8th FLOOR DATA EQUIPMENT POWER OUTAGES WITH THE DATA CENTER MANAGER.

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
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1250 14th STREET, DENVER, CO. 80204

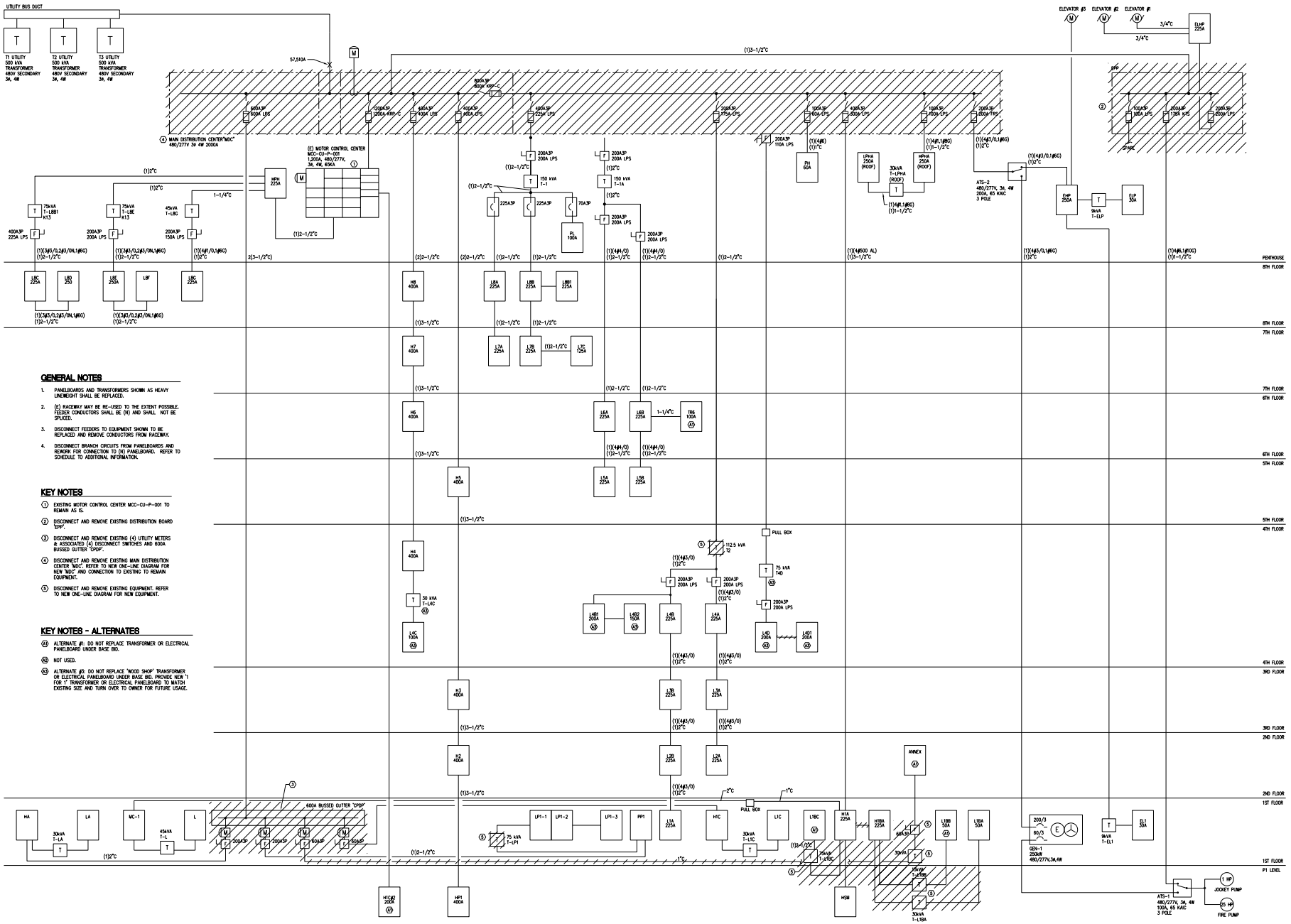
SBEC Project #:	210032
Scale:	As Indicated
Drawn By:	JR
Designed By:	JR/AOR
Checked By:	AOR/JE

Issued For:	**Date:**
100% CONSTRUCTION	12/01/2023

ELECTRICAL LEGENDS AND INDEX

E0.01

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.



GENERAL NOTES

1. PANELBOARDS AND TRANSFORMERS SHOWN AS HEAVY LINEWEIGHT SHALL BE REPLACED.
2. (E) RACEWAY MAY BE RE-USED TO THE EXTENT POSSIBLE. FEEDER CONDUCTORS SHALL BE (N) AND SHALL NOT BE SPLICED.
3. DISCONNECT FEEDERS TO EQUIPMENT SHOWN TO BE REPLACED AND REMOVE CONDUCTORS FROM RACEWAY.
4. DISCONNECT BRANCH CIRCUITS FROM PANELBOARDS AND REWORK FOR CONNECTION TO (N) PANELBOARD. REFER TO SCHEDULE TO ADDITIONAL INFORMATION.

KEY NOTES

1. EXISTING MOTOR CONTROL CENTER MCC-CU-P-001 TO REMAIN AS IS.
2. DISCONNECT AND REMOVE EXISTING DISTRIBUTION BOARD "EHP".
3. DISCONNECT AND REMOVE EXISTING (4) UTILITY METERS & ASSOCIATED (4) DISCONNECT SWITCHES AND 600A BUSSED GUTTER "CPDP".
4. DISCONNECT AND REMOVE EXISTING MAIN DISTRIBUTION CENTER 'MDC'. REFER TO NEW ONE-LINE DIAGRAM FOR NEW 'MDC' AND CONNECTION TO EXISTING TO REMAIN EQUIPMENT.
5. DISCONNECT AND REMOVE EXISTING EQUIPMENT. REFER TO NEW ONE-LINE DIAGRAM FOR NEW EQUIPMENT.

KEY NOTES - ALTERNATES

A1 ALTERNATE #1: DO NOT REPLACE TRANSFORMER OR ELECTRICAL PANELBOARD UNDER BASE BID.

A2 NOT USED.

A3 ALTERNATE #3: DO NOT REPLACE 'WOOD SHOP' TRANSFORMER OR ELECTRICAL PANELBOARD UNDER BASE BID. PROVIDE NEW 1" FOR 1" TRANSFORMER OR ELECTRICAL PANELBOARD TO MATCH EXISTING SIZE AND TURN OVER TO OWNER FOR FUTURE USAGE.

ELECTRICAL DEMOLITION ONE-LINE DIAGRAM

SCALE: N.T.S.

NOTE:

EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:

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ELECTRICAL DEMOLITION ONE-LINE DIAGRAM

E0.10

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SBEC Project #:	210032
Scale:	AS INDICATED
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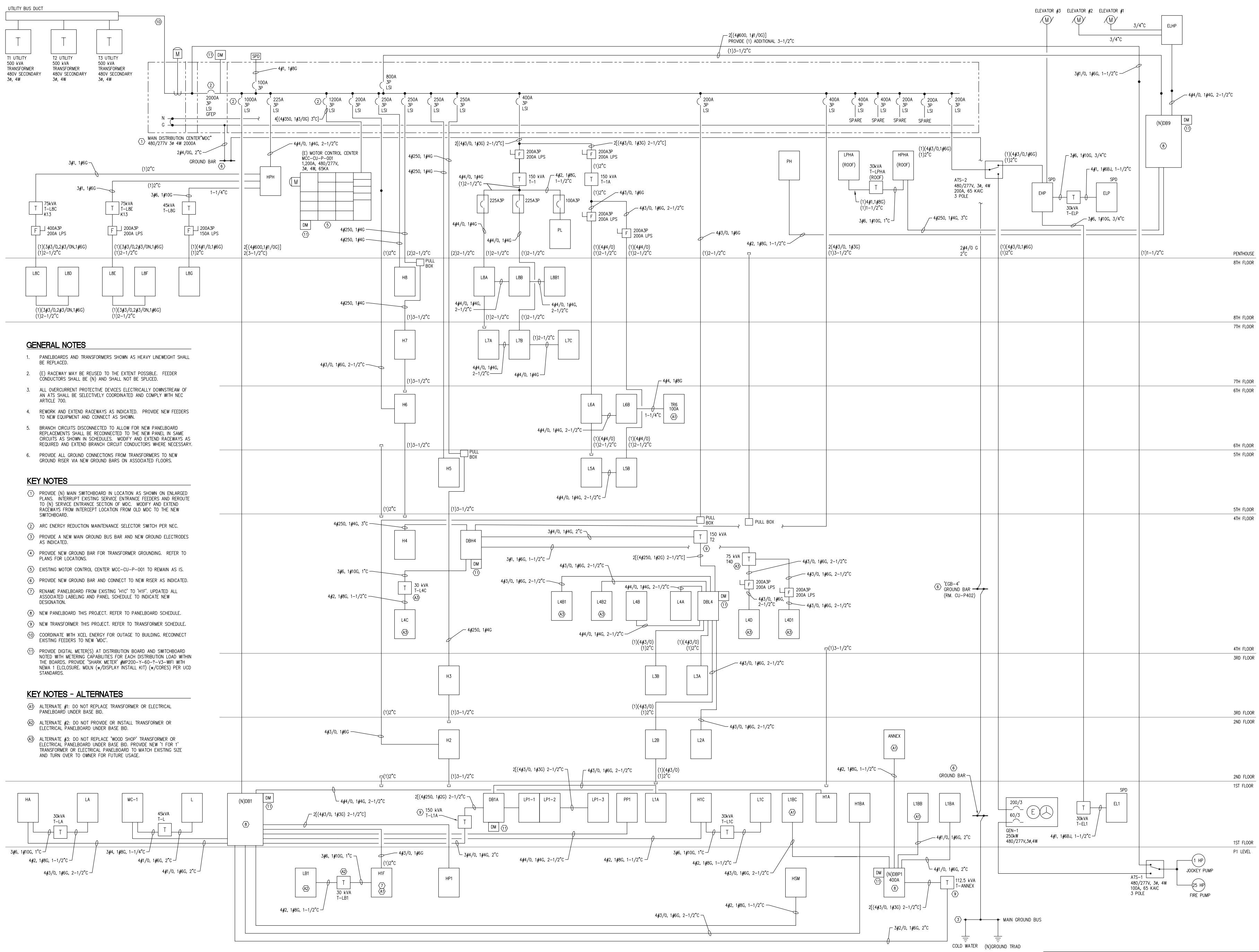
Designed By:	JR/AOR
Checked By:	ADR/JE

Issued For:	Date:
100% CONSTRUCTION	12/01/2020



GENERAL NOTES

1. PANELBOARDS AND TRANSFORMERS SHOWN AS HEAVY LINEWEIGHT SHALL BE REPLACED.
2. (E) RACEWAY MAY BE REUSED TO THE EXTENT POSSIBLE. FEEDER CONDUCTORS SHALL BE (N) AND SHALL NOT BE SPLICED.
3. ALL OVERCURRENT PROTECTIVE DEVICES ELECTRICALLY DOWNSTREAM OF AN ATS SHALL BE SELECTIVELY COORDINATED AND COMPLY WITH NEC ARTICLE 700.
4. REWORK AND EXTEND RACEWAYS AS INDICATED. PROVIDE NEW FEEDERS TO NEW EQUIPMENT AND CONNECT AS SHOWN.
5. BRANCH CIRCUITS DISCONNECTED TO ALLOW FOR NEW PANELBOARD REPLACEMENTS SHALL BE RECONNECTED TO THE NEW PANEL IN SAME CIRCUITS AS SHOWN IN SCHEDULES. MODIFY AND EXTEND RACEWAYS AS REQUIRED AND EXTEND BRANCH CIRCUIT CONDUCTORS WHERE NECESSARY.
6. PROVIDE ALL GROUND CONNECTIONS FROM TRANSFORMERS TO NEW GROUND RISER VIA NEW GROUND BARS ON ASSOCIATED FLOORS.

KEY NOTES

(1) PROVIDE (N) MAIN SWITCHBOARD IN LOCATION AS SHOWN ON ENLARGED PLANS. INTERRUPT EXISTING SERVICE ENTRANCE FEEDERS AND REROUTE TO (N) SERVICE ENTRANCE SECTION OF MDC. MODIFY AND EXTEND RACEWAYS FROM INTERCEPT LOCATION FROM OLD MDC TO THE NEW SWITCHBOARD.

(2) ARC ENERGY REDUCTION MAINTENANCE SELECTOR SWITCH PER NEC.

(3) PROVIDE A NEW MAIN GROUND BUS BAR AND NEW GROUND ELECTRODES AS INDICATED.

(4) PROVIDE NEW GROUND BAR FOR TRANSFORMER GROUNDING. REFER TO PLANS FOR LOCATIONS.

(5) EXISTING MOTOR CONTROL CENTER MCC-CU-P-001 TO REMAIN AS IS.

(6) PROVIDE NEW GROUND BAR AND CONNECT TO NEW RISER AS INDICATED.

(7) RENAME PANELBOARD FROM EXISTING 'H1C' TO 'H1F'. UPDATED ALL ASSOCIATED LABELING AND PANEL SCHEDULE TO INDICATE NEW DESIGNATION.

(8) NEW PANELBOARD THIS PROJECT. REFER TO PANELBOARD SCHEDULE.

(9) NEW TRANSFORMER THIS PROJECT. REFER TO TRANSFORMER SCHEDULE.

(10) COORDINATE WITH XCEL ENERGY FOR OUTAGE TO BUILDING. RECONNECT EXISTING FEEDERS TO NEW 'MDC'.

(11) PROVIDE DIGITAL METER(S) AT DISTRIBUTION BOARD AND SWITCHBOARD NOTED WITH METERING CAPABILITIES FOR EACH DISTRIBUTION LOAD WITHIN THE BOARDS. PROVIDE 'SHARK METER' #MP200-Y-60-?-V3-WIFI WITH NEMA 1 ELCLOSURE. MDLN (w/DISPLAY INSTALL KIT) (w/CORES) PER UCD STANDARDS.

KEY NOTES - ALTERNATES

(A1) ALTERNATE #1: DO NOT REPLACE TRANSFORMER OR ELECTRICAL PANELBOARD UNDER BASE BID.

(A2) ALTERNATE #2: DO NOT PROVIDE OR INSTALL TRANSFORMER OR ELECTRICAL PANELBOARD UNDER BASE BID.

(A3) ALTERNATE #3: DO NOT REPLACE 'WOOD SHOP' TRANSFORMER OR ELECTRICAL PANELBOARD UNDER BASE BID. PROVIDE NEW '1 FOR 1' TRANSFORMER OR ELECTRICAL PANELBOARD TO MATCH EXISTING SIZE AND TURN OVER TO OWNER FOR FUTURE USAGE.

ELECTRICAL NEW ONE-LINE DIAGRAM

SCALE: N.T.S.

NOTE:

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NOTE:
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SBEC Project #: 210032
Scale: AS INDICATED
Drawn By: JR
Designed By: JR/ADR
Checked By: ADR/JE

Issued For: 100% CONSTRUCTION — Date: 12/01/2023

ELECTRICAL NEW ONE-LINE DIAGRAM

E0.11

THREE PHASE DRY-TYPE TRANSFORMER SCHEDULE

DESIGNATION	PRIMARY ELECTRICAL CHARACHTERISTICS kVA	VOLTS	FLA	FEEDER OCP	FEEDER DESIGN	VOLTS	SECONDARY FLA	SECONDARY FEEDER OCP	SECONDARY FEEDER DESIGN	GROUNDING ELECTRODE DESIGNATION	REMARKS
T-LPHA	30	480 V	36 A	45 A	(3#6,1#10g)1"C	208 V	83 A	100 A	(4#1,1#6BJ)1-1/2"C	(1#6GEC)3/4"C	
T-ELP	30	480 V	36 A	45 A	(3#6,1#10g)1"C	208 V	83 A	100 A	(4#1,1#6BJ)1-1/2"C	(1#6GEC)3/4"C	
T-EL1	30	480 V	36 A	45 A	(3#6,1#10g)1"C	208 V	83 A	100 A	(4#1,1#6BJ)1-1/2"C	(1#6GEC)3/4"C	
T-LB1	30	480 V	36 A	45 A	(3#6,1#10g)1"C	208 V	83 A	100 A	(4#1,1#6BJ)1-1/2"C	(1#6GEC)3/4"C	
T-LA	45	480 V	54 A	70 A	(3#4,1#6G)1-1/4"C	208 V	125 A	150 A	(4#1/0,1#6BJ)2"C	(1#6GEC)3/4"C	
T-L	45	480 V	54 A	70 A	(3#4,1#6G)1-1/4"C	208 V	125 A	150 A	(4#1/0,1#6BJ)2"C	(1#6GEC)3/4"C	
T-L1C	45	480 V	54 A	70 A	(3#4,1#6G)1-1/4"C	208 V	125 A	150 A	(4#1/0,1#6BJ)2"C	(1#6GEC)3/4"C	
T-LBG	45	480 V	54 A	70 A	(3#4,1#6G)1-1/4"C	208 V	125 A	150 A	(4#1/0,1#6BJ)2"C	(1#6GEC)3/4"C	
T-LBE	75	480 V	90 A	110 A	(3#2,1#6G)1-1/2"C	208 V	208 A	250 A	(4#250,1#2BJ)3"C	(1#2GEC)3/4"C	
T-LBC	75	480 V	90 A	110 A	(3#2,1#6G)1-1/2"C	208 V	208 A	250 A	(4#250,1#2BJ)3"C	(1#2GEC)3/4"C	
T-4D	75	480 V	90 A	110 A	(3#2,1#6G)1-1/2"C	208 V	208 A	250 A	(4#250,1#2BJ)3"C	(1#2GEC)3/4"C	
T-ANNEX	112.5	480 V	135 A	175 A	(3#2/0,1#6G)2"C	208 V	312 A	400 A	2[(4#3/0,1#1/0BJ)2-1/2"C]	(1#1/0GEC)3/4" C	
T-1	150	480 V	180 A	225 A	(3#4/0,1#4G)2"C	208 V	416 A	500 A	2[(4#250,1#1/0BJ)3"C]	(1#1/0GEC)3/4" C	
T-1A	150	480 V	180 A	225 A	(3#4/0,1#4G)2"C	208 V	416 A	500 A	2[(4#250,1#1/0BJ)3"C]	(1#1/0GEC)3/4" C	
T-L1A	150	480 V	180 A	225 A	(3#4/0,1#4G)2"C	208 V	416 A	500 A	2[(4#250,1#1/0BJ)3"C]	(1#1/0GEC)3/4" C	

SURGE PROTECTIVE DEVICE SCHEDULE

DESIGNATION	SERVICE VOLTAGE	MAXIMUM CONTINUOUS OPERATING VOLTAGE	CONNECTION METHOD	MODES OF PROTECTION L-L	L-N	L-G	N-G	FEEDER OCP	FEEDER DESIGNATION	MANUFACTURER	MINIMUM SURGE RATING (kA)	VPR	MOUNTING	REMARKS
	480Y/277	>115% AND <125%	PARALLEL	Y	Y	Y	Y	100A	4-110AGa	CURRENT TECHNOLOGIES	400	L-N 1200 L-L 1800 L-G 1200 N-G 1200	EXTERIOR	1, 2, 3, 4
	208Y/120	>115% AND <125%	PARALLEL	Y	Y	Y	Y	100A	4-110AGa	CURRENT TECHNOLOGIES	400	L-N 600 L-G 700 N-G 600 L-L 1200	EXTERIOR	1, 2, 3, 4
	480Y/277	>115% AND <125%	PARALLEL	Y	Y	Y	Y	100A	4-110AGa	CURRENT TECHNOLOGIES	200	L-N 1200 L-G 1200 N-G 1200 L-L 1800	EXTERIOR	1, 2, 3, 4
	208Y/120	>115% AND <125%	PARALLEL	Y	Y	Y	Y	100A	4-110AGa	MATCH PANELBOARD	200	L-N 600 L-G 700 N-G 600 L-L 1200	INTEGRAL TO PANELBOARD	1
	480Y/277	>115% AND <125%	PARALLEL	Y	Y	Y	Y	60A	4-60AGa	MATCH PANELBOARD	100	L-N 1200 L-G 1200 N-G 1200 L-L 1800	INTEGRAL TO PANELBOARD	1
	208Y/120	>115% AND <125%	PARALLEL	Y	Y	Y	Y	60A	4-60AGa	MATCH PANELBOARD	100	L-N 600 L-G 700 N-G 600 L-L 1200	INTEGRAL TO PANELBOARD	1

GENERAL REMARKS:

A SUBMIT PRODUCT DATA, INCLUDING PERFORMANCE AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF TVSS UNIT.

B INSTALL UNITS PER MANUFACTURER'S RECOMMENDATIONS, INCLUDING CONDUCTOR SIZE, KEEPING LEAD LENGTHS AS SHORT AS POSSIBLE WITH NO SHARP BENDS.

C UNITS SHALL MEET AND BE TESTED TO THE LATEST VERSION OF THE FOLLOWING STANDARDS AND CODES: UL1449, NEMA LS-1, UL1283, IEEE C62.41 AND C62.45, NFPA 70.

D UNITS SHALL HAVE A 5 YEAR WARRANTY.

E TO MINIMIZE POTENTIAL OF ARC FLASH AND ELECTRICAL FIRES, UNITS SHALL NOT BE INSTALLED INTEGRAL TO THE DISTRIBUTION EQUIPMENT.

F ENCLOSURES SHALL INCLUDE NEMA RATING APPROPRIATE FOR THE INTENDED INSTALLATION LOCATION.

G ALL PERFORMANCE RATINGS SHALL BE VERIFIED BY A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY WITH SPECIFIC TEST REPORT AVAILABLE FOR REVIEW.

H UNITS SHALL PROVIDE PROTECTION FOR ALL INDICATED MODES.

I ENVIRONMENTAL CONDITIONS: MINUS 40 DEGREES FAHRENHEIT TO 140 DEGREES FAHRENHEIT AND 5 PERCENT TO 95 PERCENT NON CONDENSING HUMIDITY.

J SUPPLIER SHALL PROVIDE ANNUAL TESTING OF THE TVSS UNITS FOR 5 YEARS WITH A WRITTEN REPORT GIVEN TO THE BUILDING OWNER.

K MINIMUM SURGE CURRENT RATINGS PER PHASE SHOWN ABOVE, THREE PHASE, WYE SYSTEMS PER PHASE RATING SHALL EQUAL L-N AND L-G MODES ADDED TOGETHER. NO OTHER METHODS ARE ACCEPTABLE FOR PER PHASE SURGE CURRENT RATING CALCULATIONS.

SPECIFIC REMARKS:

1 WITH ALARM AND DISTURBANCE COUNTER.

2 NEMA 4 ENCLOSURE

3 WITH INTEGRAL LOW IMPEDANCE DISCONNECT.

4 WITH AUDIBLE ALARM

SHORT CIRCUIT CURRENT SCHEDULE

DESIGNATION	CURRENT IN AMPERES AVAILABLE	LET-THROUGH
MDC	57,510	--
DB1	38,415	--
MC-1	16,695	--
T-L	2,069	--
L	2,030	--
HA	20,744	--
T-LA	1,418	--
LA	1,363	--
T-L1A	6,705	--
DB1A	6,035	--
LP1-1	5,919	--
L1A	5,497	--
PP1	24,282	--
H1C	6,043	--
T-L1C	1,322	--
L1C	1,298	--
H1A	28,226	--
HP1	27,457	--
H1F	22,753	--
T-LB1	1,421	--
LB1	1,393	--
HSM	11,664	--
H1BA	10,040	--
T-ANNEX	4,431	--
DBP1	4,307	--
L1BC	2,869	--
ANNEX	2,706	--
L1BB	2,498	--
L1BA	2,491	--
HPH	39,393	--
T-LBC	3,511	--
LBC	3,433	--
LBD	3,421	--
T-LBE	3,511	--
LBE	4,752	--
LBF	4,731	--
T-LBG	2,140	--
LBG	3,590	--
MCC-CU-P-901	53,300	--
H6	22,776	--
H5	31,657	--
DB9	59,765	--
ELHP	23,732	--
ELEVATOR #1	1,872	--
ELEVATOR #2	1,806	--
HPHA	29,429	--
T-LPHA	1,430	--
LPHA	1,305	--
PH	38,092	--
H7	28,091	--
H5	23,869	--
H3	29,467	--
T-1	6,923	--
L8A	6,211	--
L8B	5,632	--
LBB1	2,260	--
L7B	6,035	--
L7A	5,813	--
L7C	5,813	--
PL	6,869	--
T-1A	38,451	--
L6A	15,159	--
L6B	13,988	--
TR6	1,209	--
L5B	13,939	--
L5A	12,843	--
H2	16,773	--
DBH4	31,811	--
H4	21,624	--
T-L4C	1,432	--
L4C	1,404	--
T-2	6,943	--
DBL4	6,534	--
L4B1	5,920	--
L4B2	5,974	--
L4B	5,309	--
L4A	6,198	--
L3B	6,143	--
L3A	5,390	--
L2B	6,143	--
L2A	5,159	--
T-4D	3,479	--
L4D	3,402	--
L4D1	3,402	--
EHP	43,485	--
T-ELP	1,440	--
ELEVATOR #3	2,234	--
ELP	1,417	--
T-EL1	1,440	--
EL1	1,417	--

* BASED UPON EXISTING DRAWINGS.
(3) 500 KVA XCEL TRANSFORMERS.

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SBEC Project #: 210032
Scale: 1/8" = 1'-0"
Drawn By: JR
Designed By: JR/AOR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION **Date:** 12/01/2023

ELECTRICAL SCHEDULES

E0.20

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Branch Panel: HA

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 22000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPACE	--	1	--	0 VA								2	
	3	LIGHTING	20 A	1			0 VA	0 VA			3	45 A	TRANSFORMER FOR PANEL LA	4	
	5	LIGHTING	20 A	1					0 VA	0 VA				6	
	7	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	8	
	9	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	10	
	11	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	12	
	13	LIGHTING	20 A	1	0 VA	0 VA								14	
	15	SPACE	--	1			--	0 VA			3	60 A	DUCT HEATER #2	16	
	17	SPACE	--	1					--	0 VA				18	
	19				0 VA	0 VA								20	
	21	SUPPLY FAN #1	20 A	3			0 VA	0 VA			3	30 A	DUCT HEATER #1	22	
	23								0 VA	0 VA				24	
	25				0 VA	0 VA								26	
	27	SUPPLY FAN #2	20 A	3			0 VA	0 VA			3	30 A	WATER HEATER	28	
	29								0 VA	0 VA				30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	200 A

NOTES:

Branch Panel: MC-1

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 22000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	110 RECEPTACLES	20 A	1	0 VA	0 VA								2	
	3	150 COPIER ROOM	20 A	1			0 VA	0 VA			3	15 A	EXISTING EQUIPMENT	4	
	5	EXISTING EQUIPMENT	20 A	1					0 VA	0 VA				6	
	7	EXISTING EQUIPMENT	20 A	1	0 VA	0 VA					3	15 A	EXISTING EQUIPMENT	8	
	9	110 HALLWAY	20 A	1			0 VA	0 VA						10	
	11	EXISTING EQUIPMENT	20 A	1					0 VA	0 VA				12	
	13				0 VA	0 VA								14	
	15	AIR HANDELING 110	20 A	3			0 VA	0 VA			3	20 A	EXISTING EQUIPMENT	16	
	17								0 VA	0 VA				18	
	19	SPARE	20 A	1	0 VA	0 VA								20	
	21	SPARE	20 A	1			0 VA	0 VA			3	70 A	T-L	22	
	23	SPARE	20 A	1					0 VA	0 VA				24	
	25	SPARE	20 A	1	0 VA	--					1	--	SPACE	26	
	27	SPARE	20 A	1			0 VA	--			1	--	SPACE	28	
	29	SPARE	20 A	1					0 VA	--	1	--	SPACE	30	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	150 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	150 A

NOTES:
1. NO EXISTING PANELBOARD SCHEDULE FOR EXISTING CIRCUIT BREAKER DESCRIPTION.

Branch Panel: LA

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 100 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	0 VA					1	20 A	WIREMOLD RECEPT.	2	
	3	MAIN BREAKER	100 A	3			0 VA	0 VA			1	20 A	DEDICATED RECEPT.	4	
	5								0 VA	0 VA	1	20 A	DEDICATED RECEPT.	6	
	7	LIGHTING/TVs	20 A	1	0 VA	0 VA					1	20 A	LIGHTING	8	
	9	RECEPTACLES	20 A	1			0 VA	0 VA			1	20 A	LIGHTING	10	
	11	RECEPTACLES	20 A	1					0 VA	0 VA	1	20 A	LIGHTING	12	
	13	RECEPTACLES	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES	14	
	15	RECEPTACLES	20 A	1			0 VA	0 VA			1	20 A	EXT. 1/2 WALL RECEPT. CONFERENCE	16	
	17	RECEPTACLES	20 A	1					0 VA	0 VA	2	30 A	COFFEE MAKER	18	
	19	RECEPTACLES	20 A	1	0 VA	0 VA								20	
	21	RECEPTACLES	20 A	1			0 VA	0 VA			1	20 A	TELEPHONE RECEPT.	22	
	23	RECEPT., KITCHEN ICE MAKER & COFFEE POT	20 A	2	0 VA	0 VA			0 VA	0 VA	1	20 A	HALLWAY CLOSET LIGHT	24	
	25										1	20 A	BATH LIGHT	26	
	27	KITCHEN RECEPT. COUNTER	20 A	1			0 VA	0 VA			1	20 A	WATER HEATER CIR. PUMP	28	
	29	RECESSED LIGHTING CLASSROOM	20 A	1					0 VA	0 VA	1	20 A	CLOSET RECEPT.	30	
	31	HEAT TRACE - DOOR OPERATOR	20 A	1	0 VA	0 VA					1	20 A	HEATER WEST DOOR	32	
	33	NEW FAN	20 A	1			0 VA	0 VA			2	20 A	HEATER HVAC CONTROL PANEL	34	
	35	WIREMOLD RECEPTACLES	20 A	1					0 VA	0 VA				36	
	37	DESK OUTLETS	20 A	1	0 VA	0 VA					1	20 A	SPARE	38	
	39	DESK OUTLETS	20 A	1			0 VA	0 VA			1	20 A	SPARE	40	
	41	DESK OUTLETS	20 A	1					0 VA	0 VA	1	20 A	EXT. 1/2 WALL RECEPT. CONFERENCE	42	
	43	SPARE	20 A	1	0 VA	--					1	--	SPACE	44	
	45	SPARE	20 A	1			0 VA	--			1	--	SPACE	46	
	47	SPARE	20 A	1					0 VA	--	1	--	SPACE	48	
	49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50	
	51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52	
	53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	83 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	83 A

NOTES:

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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AQR
Checked By: AQR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER, BAUCOM ENGINEERING & CONSULTING. (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

ELECTRICAL PANEL SCHEDULES

E0.30

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: HP1

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
AIC RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	ELEVATOR ROOM LIGHTS	20 A	1	0 VA	0 VA					1	20 A	TIMECLOCK MOTOR	2	
	3	PARKING LIGHTS P2	20 A	1			0 VA	0 VA			1	20 A	STAIR HEATER	4	
	5	PARKING LIGHTS P2	20 A	1					0 VA	0 VA	1	20 A	HX	6	
	7	PARKING LIGHTS P1	20 A	1	0 VA	0 VA					1	20 A	PUMP ROOM HEATER	8	
	9	PARKING LIGHTS P1	20 A	1			0 VA	0 VA			1	20 A	ELEVATOR ROOM HEATER	10	
	11	SPARE	20 A	1					0 VA	0 VA	1	20 A	AIR COMPRESSOR PUMP ROOM	12	
	13	HEAT TAPE	20 A	1	0 VA	0 VA								14	
	15	HEAT TAPE	20 A	1			0 VA	0 VA			3	15 A	AIR COMPRESSOR PUMP ROOM	16	
	17	HEAT TAPE	20 A	1					0 VA	0 VA				18	
	19				0 VA	0 VA								20	
	21	SUMP PUMP #2	15 A	3			0 VA	0 VA			3	15 A	SUMP PUMP #1	22	
	23								0 VA	0 VA				24	
	25				0 VA	0 VA								26	
	27	G-FAN #2	30 A	3			0 VA	0 VA			3	40 A	ELEVATOR ROOM HEATER	28	
	29								0 VA	0 VA				30	
	31				0 VA	--					1	--	SPACE	32	
	33	G-FAN #1	30 A	3			0 VA	--			1	--	SPACE	34	
	35								0 VA	--	1	--	SPACE	36	
	37				0 VA	--					1	--	SPACE	38	
	39	BASEBOARD HEAT PUMP	20 A	3			0 VA	--			1	--	SPACE	40	
	41								0 VA	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 400 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 400 A

NOTES:

Branch Panel: L

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 150 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPACE	--	1	--	--					1	--	SPACE	2	
	3	SPACE	--	1			--	--			1	--	SPACE	4	
	5	SPACE	--	1					--	--	1	--	SPACE	6	
	7	EXISTING EQUIPMENT	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	8	
	9	EXISTING EQUIPMENT	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	EXISTING EQUIPMENT	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	EXISTING EQUIPMENT	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	14	
	15	EXISTING EQUIPMENT	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	16	
	17	EXISTING EQUIPMENT	30 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	EXISTING EQUIPMENT	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	32	
	33	SPARE	20 A	1			0 VA	--			1	--	SPACE	34	
	35	SPARE	20 A	1					0 VA	--	1	--	SPACE	36	
	37	SPARE	20 A	1	0 VA	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 125 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 125 A

NOTES:
1. NO EXISTING PANELBOARD SCHEDULE FOR EXISTING CIRCUIT BREAKER DESCRIPTION.

Branch Panel: PP1

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	0 VA								2	
	3	FAN COIL UNIT 3, 5, 6	15 A	3			0 VA	0 VA			3	15 A	FAN COIL UNIT	4	
	5								0 VA	0 VA				6	
	7				0 VA	0 VA					1	20 A	LIGHTING	8	
	9	RM 1000 UNIT #2 FCU-1, 2, 4	15 A	3			0 VA	0 VA			1	20 A	LIGHTING	10	
	11								0 VA	0 VA	1	20 A	VESTIBULE HEAT	12	
	13				0 VA	0 VA					1	20 A	SPARE	14	
	15	SPARE	20 A	3			0 VA	0 VA			1	20 A	CAN LIGHTS	16	
	17								0 VA	0 VA				18	
	19	SPACE	--	1	--	0 VA					3	20 A	SPARE	20	
	21	SPACE	--	1			--	0 VA						22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 225 A

NOTES:

Branch Panel: H1F

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 250 A
AIC RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	0 VA								2	
	3	T-LB1	45 A	3			0 VA	0 VA			3	80 A	PUMP SKID	4	
	5								0 VA	0 VA				6	
	7	SPACE	--	1	--	0 VA					3	15 A	UNIT HEATER	8	
	9	SPACE	--	1			--	0 VA						10	
	11	SPACE	--	1					--	0 VA				12	
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 200 A

NOTES:

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303-788-1717

CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #:	210032
Scale:	
Drawn By:	JR
Designed By:	JR/AQR
Checked By:	AQR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER. BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

ELECTRICAL PANEL SCHEDULES

E0.31

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: HSM

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 14000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	0 VA								2	
	3	RAMP SNOW HEATERS	30 A	3			0 VA	0 VA			3	30 A	RAMP SNOW HEATERS	4	
	5								0 VA	0 VA				6	
	7				0 VA	0 VA								8	
	9	RAMP SNOW HEATERS	30 A	3			0 VA	0 VA			3	30 A	RAMP SNOW HEATERS	10	
	11								0 VA	0 VA				12	
	13				0 VA	0 VA								14	
	15	RAMP SNOW HEATERS	30 A	3			0 VA	0 VA			2	20 A	SPARE	16	
	17								0 VA	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 100 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 100 A

NOTES:

Branch Panel: H1A

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	LIGHTING LOBBY	20 A	1	0 VA	0 VA					1	20 A	TIME CLOCK #3	2	
	3	LIGHTING LOBBY	20 A	1			0 VA	0 VA			1	20 A	TIME CLOCK #3 & DOCK LIGHTS	4	
	5	LIGHTING ELEC AND TELEPHONE RM	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	EXISTING LOAD	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	LOBBY COVE LIGHTS	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	SPARE	20 A	1	0 VA	0 VA								20	
	21	SPARE	20 A	1			0 VA	0 VA			3	20 A	(E) EQUIP	22	
	23	SPARE	20 A	1					0 VA	0 VA				24	
	25	SPARE	20 A	1	0 VA	0 VA								26	
	27	1110 LIGHTS	20 A	1			0 VA	0 VA			3	20 A	HEATER LOADING DOCK/STORE ROOM	28	
	29	SPARE	20 A	1					0 VA	0 VA				30	
	31	SPACE	--	1	--	0 VA								32	
	33	SPACE	--	1			--	0 VA			3	70 A	ROOM 150 LIGHTS/FAN COIL	34	
	35	SPACE	--	1					--	0 VA				36	
	37	SPACE	--	1	--	0 VA					1	20 A	SPARE	38	
	39	SPACE	--	1			--	0 VA			1	20 A	SPARE	40	
	41	SPACE	--	1					--	0 VA	1	20 A	SPARE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 225 A

NOTES:

Branch Panel: H1BA

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: FCU Repalcement
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 14000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	EXISTING EQUIPMENT	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	2	
	3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	EXISTING EQUIPMENT	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	EXISTING EQUIPMENT	20 A	1	0 VA	0 VA								8	
	9	EXISTING EQUIPMENT	20 A	1			0 VA	0 VA			3	175 A	T-ANNEX	10	LSI
	11	HEATERS ENTRY WINDOW	20 A	1					0 VA	0 VA				12	
	13	HEATERS ENTRY WINDOW	20 A	1	0 VA	0 VA								14	
	15	LIGHTS 1ST FLOOR	20 A	1			0 VA	0 VA			3	20 A	SPARE	16	
	17	SPARE	20 A	1					0 VA	0 VA				18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	2ND FLOOR FEED	30 A	2			0 VA	0 VA			1	20 A	SPARE	28	
	29								0 VA	0 VA	1	20 A	SPARE	30	
	31				0 VA	0 VA								32	
	33	FAN COIL 1ST FLOOR	20 A	3			0 VA	0 VA			3	15 A	EXISTING EQUIPMENT	34	
	35								0 VA	0 VA				36	
	37				0 VA	0 VA								38	
	39	SPARE	40 A	3			0 VA	0 VA			3	15 A	EXISTING EQUIPMENT	40	
	41								0 VA	0 VA				42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 225 A

NOTES:

Branch Panel: L1BC

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 250 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA-1
SUPPLY FROM: DBP1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	0 VA					2	50 A	NE WELDING RECEPT.	2	
	3	CNC MACHINE	100 A	3			0 VA	0 VA						4	
	5								0 VA	0 VA	1	20 A	RECEPTACLES	6	
	7				0 VA	0 VA					1	20 A	RECEPTACLES	8	
	9	DUST COLLECTOR	30 A	3			0 VA	0 VA			2	90 A	WELDER	10	
	11								0 VA	0 VA				12	
	13				0 VA	0 VA					1	20 A	CEILING RECEPTACLE	14	
	15	AIR COMPRESSOR	50 A	3			0 VA	0 VA			2	50 A	TABLE SAW	16	
	17								0 VA	0 VA				18	
	19	RECEPTACLES	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES - WEST	20	
	21	RECEPTACLES	20 A	1			0 VA	0 VA			1	20 A	RECEPT. ADJACENT TO CNC CONTROL PNL	22	
	23	EXISTING EQUIPMENT	20 A	1					0 VA	0 VA	1	20 A	RECEPT. CEILING CNC	24	
	25	NORTH ROOM WELDING RECEPT.	50 A	2	0 VA	0 VA					1	20 A	CNC RECEPT. NORTH, LOW	26	
	27						0 VA	0 VA			1	20 A	CNC RECEPT. NORTH, HIGH	28	
	29	PLASTER AREA WELDING RECEPT.	50 A	2					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	30	
	31				0 VA	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 250 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 250 A

NOTES:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER. BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

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CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AOR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.32

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: L1BA

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: FCU Rapalacement
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DBP1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	LIGHT CLOSET OUTLET RECEPT.	30 A	1	0 VA	--					1	--	SPACE	2	
	3	103, 104 RECEPT.	20 A	1			0 VA	--			1	--	SPACE	4	
	5	LIGHT CLOSET EQUIPMENT	20 A	1					0 VA	--	1	--	SPACE	6	
	7	2ND FLOOR POWER	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	2ND FLOOR POWER	20 A	1			0 VA	0 VA			1	20 A	103 DOOR OP/RECEPT.	10	
	11	2ND FLOOR POWER	20 A	1					0 VA	0 VA	1	30 A	EXISTING EQUIPMENT	12	
	13	NE FAN COIL UNITS	30 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	16	
	17	BATH LIGHTS/POWER	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	18	
	19	104 TOOL STORE/T LIGHTS	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	20	
	21	EXISTING EQUIPMENT	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	22	
	23	FAN CONTROLLER BOXES	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	24	
	25	WATER HEATER, N BATH	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	26	
	27	EXISTING EQUIPMENT	20 A	1			0 VA	0 VA			1	20 A	102 CORE RECEPT.	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	30	
	31	SPARE	20 A	1	0 VA	0 VA					1	40 A	EXISTING EQUIPMENT	32	
	33	CONTACTOR	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	34	
	35								0 VA	0 VA	1	40 A	EXISTING EQUIPMENT	36	
	37	WATER HEATER BATHS	20 A	3	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	38	
	39						0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	40	
	41	SPACE	--	1					--	0 VA	1	20 A	EXISTING EQUIPMENT	42	
	43	(E) EQUIP	20 A	1	0 VA	0 VA					1	20 A	SPARE	44	
	45	SPACE	--	1			--	0 VA			1	20 A	SPARE	46	
	47	SPACE	--	1					--	0 VA	1	20 A	SPARE	48	
	49	SPACE	--	1	--	0 VA					1	20 A	SPARE	50	
	51	SPACE	--	1			--	0 VA			1	20 A	SPARE	52	
	53	SPACE	--	1					--	0 VA	1	20 A	SPARE	54	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
- INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	50 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	50 A

NOTES:

Branch Panel: L1BB

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DBP1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPACE	--	1	--	0 VA					1	20 A	SPARE	2	
	3	SPACE	--	1			--	0 VA			1	20 A	101 RECEPT., TV	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	POWER 2ND FLOOR SW	20 A	2	0 VA	0 VA					1	20 A	POWER 2ND FLOOR	8	
	9						0 VA	0 VA			1	20 A	SPARE TO IT CLOSET	10	
	11	POWER 2ND FLOOR SW	20 A	1					0 VA	0 VA	1	20 A	SPARE TO IT CLOSET	12	
	13	BIKE KIOSK OUTSIDE	20 A	1	0 VA	0 VA					1	20 A	POWER 2ND FLOOR NW	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	POWER 2ND FLOOR NW	16	
	17	POWER 2ND FLOOR NE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	101 SIGN FEED	20 A	1	0 VA	0 VA					1	20 A	103 CORD REEL SW	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	SPACE	--	1					--	0 VA	1	20 A	102 CORD REEL	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	103 CORD REEL SE	20 A	1			0 VA	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	0 VA					1	20 A	SPARE	32	
	33	SPACE	--	1			--	0 VA			1	20 A	SPARE	34	
	35	SPACE	--	1					--	0 VA	1	20 A	SPARE	36	
	37	SPACE	--	1	--	0 VA					1	20 A	SPARE	38	
	39	SPACE	--	1			--	0 VA			1	20 A	SPARE	40	
	41	SPACE	--	1					--	0 VA	1	20 A	SPARE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
- INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	60 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	60 A

NOTES:

Branch Panel: L1C

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 100 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	CATERING	20 A	1	0 VA	0 VA					1	20 A	1300G FREEZER	2	
	3	CATERING	20 A	1			0 VA	0 VA			1	20 A	HEAT TRACE	4	
	5	TELE. SYSTEM	20 A	1					0 VA	0 VA	1	20 A	DISPOSER/DISHWASHER	6	
	7	RECEPT. BREAK COUNTER	20 A	1	0 VA	0 VA					1	20 A	RECEPT. CEILING	8	
	9	RECEPT. BREAK COUNTER	20 A	1			0 VA	0 VA			1	20 A	RECEPT. CEILING	10	
	11	EXISTING HVAC	20 A	1					0 VA	0 VA	1	20 A	RECEPT. CONFERENCE ROOM	12	
	13	REFRIGERATOR	20 A	1	0 VA	0 VA					2	30 A	RECEPT. L14-30R	14	
	15	RECEPT. CEILING	20 A	1			0 VA	0 VA						16	
	17	RECEPT. OPEN SPACE	20 A	1					0 VA	0 VA	1	20 A	RECEPT. CEILING	18	
	19	RECEPT. OFFICE 110C/D	20 A	1	0 VA	0 VA					1	20 A	RECEPT. CEILING	20	
	21	RECEPT. OFFICE 103B/D	20 A	1			0 VA	0 VA			1	20 A	RECEPT. CEILING	22	
	23	RECEPT. OFFICE/STUDIO	20 A	1					0 VA	0 VA	1	20 A	RECEPT. CEILING	24	
	25	RECEPT. OFFICE/STUDIO	20 A	1	0 VA	0 VA					1	20 A	RECEPT. CEILING 100A	26	
	27	SPARE	20 A	1			0 VA	0 VA			2	20 A	OFFICE 100A L14-20R	28	
	29								0 VA	0 VA				30	
	31	OFFICE 100 L14-20R	20 A	2	0 VA	0 VA					1	20 A	MAIN ENT. A	32	
	33						0 VA	0 VA			1	20 A	HVAC 354	34	
	35	RECEPT. CEILING 100A	20 A	2					0 VA	0 VA	1	20 A	SPARE	36	
	37				0 VA	--					1	--	SPACE	38	
	39	EXISTING EQUIPMENT	50 A	3			0 VA	0 VA			1	20 A	RECEPT. CEILING	40	
	41								0 VA	--	1	--	SPACE	42	
	43	SPARE	20 A	1	0 VA	--					1	--	SPACE	44	
	45	SPARE	20 A	1			0 VA	--			1	--	SPACE	46	
	47	SPARE	20 A	1					0 VA	--	1	--	SPACE	48	
	49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50	
	51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52	
	53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
- INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	100 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	100 A

NOTES:

Branch Panel: H1C

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 14000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	0 VA								2	
	3	HVAC #2	15 A	3			0 VA	0 VA			3	50 A	TRANSFORMER for PANEL L1C	4	
	5								0 VA	0 VA				6	
	7				0 VA	0 VA					1	20 A	LIGHTING	8	
	9	HVAC #1	15 A	3			0 VA	0 VA						10	
	11								0 VA	0 VA	3	20 A	SPARE	12	
	13	SPACE	--	1	--	0 VA								14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	0 VA					1	20 A	SPARE	20	
	21	SPACE	--	1			--	0 VA			1	20 A	SPARE	22	
	23	SPACE	--	1					--	0 VA	1	20 A	SPARE	24	
	25	SPACE	--	1	--	0 VA					1	20 A	SPARE	26	
	27	SPACE	--	1			--	0 VA			1	20 A	SPARE	28	
	29	SPACE	--	1					--	0 VA	1	20 A	SPARE	30	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
- INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	100 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	100 A

NOTES:

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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AQR
Checked By: AQR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER. BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

ELECTRICAL PANEL SCHEDULES

E0.33

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: EHP

EMERGENCY BRANCH

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 65000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 200 A LSI

SPD: INTEGRAL
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: ATS-2

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	W. STAIR LIGHTS	30 A	1	0 VA	0 VA					1	20 A	E. STAIR LIGHTS	2	
	3	W. STAIR LIGHTS	20 A	1			0 VA	0 VA			1	20 A	8TH FLOOR LIGHTS	4	
	5	W. STAIR LIGHTS	20 A	1					0 VA	0 VA	1	20 A	E. STAIR LIGHTS	6	
	7	W. STAIR LIGHTS	20 A	1	0 VA	0 VA					1	20 A	E. STAIR LIGHTS	8	
	9	2ND STORY BUILDING LIGHTS	20 A	1			0 VA	0 VA			1	20 A	CENTER STAIR LIGHTS	10	
	11	PARKING STAIR LIGHTS	20 A	1					0 VA	0 VA				12	
	13				0 VA	0 VA					3	45 A	T-EL1	14	
	15	SPD	100 A	3			0 VA	0 VA						16	
	17								0 VA	0 VA	1	20 A	2nd FLOOR EM	18	
	19				0 VA	0 VA					1	20 A	SPARE	20	
	21	ELEVATOR #3	70 A	3			0 VA	0 VA			1	20 A	SPARE	22	
	23								0 VA	--	1	--	SPACE	24	
	25				0 VA	--					1	--	SPACE	26	
	27	STAIR PRESSURIZATION MOTOR	40 A	3			0 VA	0 VA			1	20 A	SHOP LIGHTS	28	
	29								0 VA	--	1	--	SPACE	30	
	31				0 VA	--					1	--	SPACE	32	
	33	T-ELP	45 A	3			0 VA	--			1	--	SPACE	34	
	35								0 VA	--	1	--	SPACE	36	
	37				0 VA	--					1	--	SPACE	38	
	39	SPARE	150 A	3			0 VA	--			1	--	SPACE	40	
	41								0 VA	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	200 A

NOTES:

Branch Panel: L1A

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1A

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	BAS ELEVATOR ROOM	20 A	1	0 VA	0 VA					1	20 A	NIV	2	
	3	RECEPT. PARKING LOT	20 A	1			0 VA	0 VA			1	20 A	PHOTO CELL	4	
	5	RECEPT. PARKING LOT	20 A	1					0 VA	0 VA	1	20 A	TIMECLOCK	6	
	7	HEAT TRACE LEVEL 1	20 A	1	0 VA	0 VA					1	20 A	BUILDING DIRECTORY	8	
	9	SUMP PUMP	20 A	1			0 VA	0 VA			1	20 A	RECEPT. TELECOM ROOM	10	
	11	TICKET SPITER	20 A	1					0 VA	0 VA	1	20 A	RECEPT. ELEC ROOM	12	
	13	PARKING CASHIER BOOTH	20 A	1	0 VA	0 VA								14	
	15	GARAGE GATE	20 A	1			0 VA	0 VA			3	30 A	ROLL UP GATE	16	
	17	FC UNIT 7	20 A	1					0 VA	0 VA				18	
	19	LOBBY LIGHTS	20 A	1	0 VA	0 VA					1	20 A	TIMECLOCK #2	20	
	21	LOBBY LIGHTS	20 A	1			0 VA	0 VA			1	20 A	TIMECLOCK #2	22	
	23	BUILDING SIGN	20 A	1					0 VA	0 VA	1	20 A	SPRINKLER CONTROL	24	
	25	GENERATOR CONTROLS	20 A	1	0 VA	0 VA					1	20 A	CARD READER PARKING	26	
	27	LOBBY BELL	20 A	1			0 VA	0 VA			1	20 A	DOCK STORAGE LIGHTS	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	RECEPT. DOCK STORAGE	30	
	31	LIGHTS PUMP P1	20 A	1	0 VA	0 VA					1	20 A	TIME CLOCK #5	32	
	33	RECEPT. PARKING LOT	20 A	1			0 VA	0 VA			1	20 A	ENG OFFICE	34	
	35	208V RECEPT. SERVER ROOM	20 A	2					0 VA	0 VA	2	15 A	ACCU-7	36	
	37				0 VA	0 VA								38	
	39	208V RECEPT. SERVER ROOM	20 A	2			0 VA	0 VA			1	20 A	PUMP RM RECEPT. & LIGHT	40	
	41								0 VA	0 VA	1	20 A	SPARE	42	
	43	SPARE	20 A	1	0 VA	--					1	--	SPACE	44	
	45	SPARE	20 A	1			0 VA	--			1	--	SPACE	46	
	47	SPARE	20 A	1					0 VA	--	1	--	SPACE	48	
	49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50	
	51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52	
	53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54	
	55	SPARE	20 A	1	0 VA	--					1	--	SPACE	56	
	57	SPARE	20 A	1			0 VA	--			1	--	SPACE	58	
	59	SPARE	20 A	1					0 VA	--	1	--	SPACE	60	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	200 A

NOTES:

Branch Panel: ELP

EMERGENCY BRANCH

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 100 A

SPD: INTEGRAL
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: T-ELP

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	--					1	--	SPACE	2	
	3	SPD	100 A	3			0 VA	--			1	--	SPACE	4	
	5								0 VA	--	1	--	SPACE	6	
	7	SPARE	20 A	1	0 VA	0 VA					1	20 A	ELEV. CAR#1 LIGHT	8	
	9	SPARE	20 A	1			0 VA	0 VA			1	20 A	ELEV. CAR#2 LIGHT	10	
	11	DUCT JBOX HEATER	20 A	1					0 VA	0 VA	1	20 A	ELEV. CAR#3 LIGHT	12	
	13	DAMPER MOTOR	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15						0 VA	0 VA						16	
	17	SPARE	20 A	3					0 VA	0 VA	2	20 A	IT ROOM & FLOOR	18	
	19				0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPARE	20 A	2	0 VA	0 VA					1	20 A	SPARE	26	
	27						0 VA	--			1	--	SPACE	28	
	29	SPARE	20 A	2					0 VA	--	1	--	SPACE	30	
	31				0 VA	0 VA								32	
	33	SPARE	20 A	2			0 VA	0 VA			3	30 A	ELEVATOR A/C UNIT	34	
	35								0 VA	0 VA				36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	83 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	83 A

NOTES:

Branch Panel: EL1

EMERGENCY BRANCH

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 100 A

SPD: INTEGRAL
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: T-EL1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	--					1	--	SPACE	2	
	3	SPD	100 A	3			0 VA	--			1	--	SPACE	4	
	5								0 VA	--	1	--	SPACE	6	
	7	ELEVATOR PIT LIGHTS	20 A	1	0 VA	0 VA					1	20 A	DAMPERS FCS 2-8	8	
	9	ELEVATOR PARKING	20 A	1			0 VA	0 VA			1	20 A	IT ROOM	10	
	11	SPARE	20 A	1					0 VA	0 VA	1	20 A	REMOTE STROBE	12	
	13	F.A. CONTROL	20 A	1	0 VA	0 VA								14	
	15	ADT MONITOR	20 A	1			0 VA	0 VA			2	20 A	208V UPS IT ROOM	16	
	17	IT ROOM	20 A	1					0 VA	0 VA	1	20 A	IT ROOM	18	
	19	SPARE	20 A	1	0 VA	--					1	--	SPACE	20	
	21	SPARE	20 A	1			0 VA	--			1	--	SPACE	22	
	23	SPARE	20 A	1					0 VA	--	1	--	SPACE	24	
	25	SPARE	20 A	1	0 VA	--					1	--	SPACE	26	
	27	SPARE	20 A	1			0 VA	--			1	--	SPACE	28	
	29	SPARE	20 A	1					0 VA	--	1	--	SPACE	30	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	83 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	83 A

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303-788-1717

CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #:	210032
Scale:	
Drawn By:	JR
Designed By:	JR/AOR
Checked By:	AOR/JE

Issued For: 100% CONSTRUCTION — **Date:** 12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

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ELECTRICAL PANEL SCHEDULES

E0.34

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: LP1-2

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: LP1-1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	RECEPT. RM 130A, B, IT	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 174	2	
	3	RECEPT. RM 151 IT	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	TV LOBBY	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	TELEPHONE ROOM	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	RECEPT. LOBBY RM 130A	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	SPARE	20 A	1					0 VA	0 VA	1	20 A	(E) EQUIP	12	
	13	SPARE	20 A	1	0 VA	0 VA					2	20 A	TELECOM ROOM	14	
	15	SPARE	20 A	1			0 VA	0 VA						16	
	17	FAN COIL UNIT	20 A	1					0 VA	0 VA	2	30 A	RECEPT. PHONE ROOM	18	
	19	SPARE	20 A	1	0 VA	0 VA								20	
	21	RECEPT. RM 170, 171	20 A	1			0 VA	0 VA			2	30 A	SPARE	22	
	23	RECEPT. RM 158, 174	20 A	1					0 VA	0 VA				24	
	25	RECEPT. GUARD DESK	20 A	1	0 VA	0 VA					2	30 A	SPARE	26	
	27	RECEPT. GUARD DESK	20 A	1			0 VA	0 VA						28	
	29	RECEPT. GUARD DESK	20 A	1					0 VA	--	1	--	SPACE	30	
	31				0 VA	0 VA					2	20 A	TELECOM ROOM	32	
	33	TELEPHONE ROOM	20 A	3			0 VA	0 VA						34	
	35								0 VA	0 VA	1	20 A	RECEPT. RM 167, 168, 169	36	
	37	SPARE	20 A	1	0 VA	--					1	--	SPACE	38	
	39	SPARE	20 A	1			0 VA	--			1	--	SPACE	40	
	41	SPARE	20 A	1					0 VA	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	400 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	400 A

NOTES:

Branch Panel: LP1-1

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 400 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB1A

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	(E) EQUIP	20 A	1	0 VA	0 VA					1	20 A	(E) EQUIP	2	
	3	(E) EQUIP	20 A	1			0 VA	0 VA			1	20 A	(E) EQUIP	4	
	5	(E) EQUIP	20 A	1					0 VA	0 VA	1	20 A	(E) EQUIP	6	
	7	(E) EQUIP	20 A	1	0 VA	0 VA					1	20 A	(E) EQUIP	8	
	9	(E) EQUIP	20 A	1			0 VA	0 VA			1	20 A	(E) EQUIP	10	
	11	(E) EQUIP	20 A	1					0 VA	0 VA	1	20 A	(E) EQUIP	12	
	13	(E) EQUIP	20 A	1	0 VA	0 VA					1	20 A	(E) EQUIP	14	
	15	(E) EQUIP	20 A	1			0 VA	0 VA			1	20 A	(E) EQUIP	16	
	17	(E) EQUIP	20 A	1					0 VA	0 VA	1	20 A	(E) EQUIP	18	
	19	(E) EQUIP	20 A	1	0 VA	0 VA					1	20 A	(E) EQUIP	20	
	21	(E) EQUIP	20 A	1			0 VA	0 VA			1	20 A	(E) EQUIP	22	
	23	(E) EQUIP	20 A	1					0 VA	0 VA	1	20 A	(E) EQUIP	24	
	25	(E) EQUIP	20 A	1	0 VA	0 VA					2	20 A	(E) EQUIP	26	
	27	(E) EQUIP	20 A	1			0 VA	0 VA						28	
	29	(E) EQUIP	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	(E) EQUIP	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	
	33	(E) EQUIP	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	
	35	(E) EQUIP	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37	SPARE	20 A	1	0 VA	--					1	--	SPACE	38	
	39	SPARE	20 A	1			0 VA	--			1	--	SPACE	40	
	41	SPARE	20 A	1					0 VA	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	400 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	400 A

NOTES:

Branch Panel: LB1

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 100 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA-1
SUPPLY FROM: T-LB1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1	--	--			--	--	1	--	SPACE	36	
	37	SPACE	--	1			--	--			1	--	SPACE	38	
	39	SPACE	--	1	--	--					1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	83 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	83 A

NOTES:

Branch Panel: LP1-3

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: LP1-2

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	UNISEX RESTROOM	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	CEILING OUTLET PROJECTOR	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	SYNCROFLOW PUMP	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	FIRE DAMPER	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	ATM	20 A	1					0 VA	0 VA	1	20 A	TELEPHONE ROOM	12	
	13	SPARE	20 A	1	0 VA	0 VA					1	20 A	UNKNOWN	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	UNKNOWN	16	
	17	SPARE	20 A	1					0 VA	0 VA	1	20 A	UNKNOWN	18	
	19	SPARE	30 A	2	0 VA	0 VA					1	30 A	UNKNOWN	20	
	21						0 VA	0 VA						22	
	23	TELEPHONE A/C COMPRESSOR	30 A	2	0 VA	0 VA			0 VA	0 VA	2	20 A	UNKNOWN	24	
	25										1	20 A	TELEPHONE RECEPT.	26	
	27	UNKNOWN	20 A	1			0 VA	0 VA			1	20 A	TELEPHONE RECEPT.	28	
	29	SPACE	--	1						--	0 VA			30	
	31	MAIN TELEPHONE ROOM	20 A	1	0 VA	0 VA					2	30 A	SPARE	32	
	33	MAIN TELEPHONE ROOM	20 A	1			0 VA	--			1	--	SPACE	34	
	35	MAIN TELEPHONE ROOM	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37	SPARE	20 A	1	0 VA	--					1	--	SPACE	38	
	39	SPARE	20 A	1			0 VA	--			1	--	SPACE	40	
	41	SPARE	20 A	1					0 VA	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	400 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	400 A

NOTES:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER. BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

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CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AOR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.35

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: L2A

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 22000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: DBL4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	0 VA								2	
	3	RECEPTACLES RM 2100 SOUTH	20 A	3			0 VA	0 VA			3	20 A	RECEPTACLES RM 2006	4	
	5								0 VA	0 VA				6	
	7				0 VA	0 VA					1	20 A	RECEPTACLES RM 2006 BOOTHS	8	
	9	RECEPTACLES RM 2100 EAST	20 A	3			0 VA	0 VA						10	
	11								0 VA	0 VA	3	20 A	TRACK LIGHTS & RECEPTACLES - 2003	12	
	13				0 VA	0 VA								14	
	15	RECEPTACLES RM 2100 NORTH	20 A	3			0 VA	0 VA						16	
	17								0 VA	0 VA	3	20 A	TRACK LIGHTS & RECEPTACLES - 2003	18	
	19	RECEPTACLES RM 2000, 2001A	20 A	1	0 VA	0 VA								20	
	21	RECEPTACLES RM. 2000, 2003, 2005	20 A	1			0 VA	0 VA			1	20 A	NE SIGN	22	
	23	RECEPTACLES RM 2001, 2001B, C, 2100, 2102	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	RECEPTACLES RM 2005, 2006	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27						0 VA	0 VA						28	
	29	RECEPTACLES RM 2102, 2200, 2202, 2300A,B,D,E,F,G	20 A	3					0 VA	0 VA	2	20 A	SPARE	30	
	31				0 VA	0 VA					1	20 A	SPARE	32	
	33						0 VA	0 VA			1	20 A	SPARE	34	
	35	RECEPTACLES RM 2400, 2301, 2300 C,H,J	20 A	2					0 VA	0 VA	1	20 A	SPARE	36	
	37	RECEPTACLES RM 2006, 2300, 2300G	20 A	1	0 VA	0 VA					1	20 A	SPARE	38	
	39	ACCU-1	20 A	2			0 VA	0 VA			1	20 A	SPARE	40	
	41								0 VA	0 VA	1	20 A	SPARE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	200 A

NOTES:

Branch Panel: L2B

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: DBL4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	RECEPT. RM 2000, 2001C	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	RECEPT. RM 2001 AC FLAT PANELS	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	RECEPT. RM 2001	20 A	1					0 VA	0 VA	2	30 A	SPARE	6	
	7	RECEPT. RM 2000, 2003, 2005	20 A	1	0 VA	0 VA								8	
	9						0 VA	0 VA			1	20 A	SPARE	10	
	11	RECEPT. RM 2300J, 2300, 2300K SOUTH	20 A	3					0 VA	0 VA	1	20 A	SPARE	12	
	13				0 VA	0 VA					1	20 A	SPARE	14	
	15	RECEPT. RM 2300K SOUTH, 2300K NORTH	20 A	2			0 VA	0 VA			1	20 A	SPARE	16	
	17								0 VA	0 VA	1	20 A	SPARE	18	
	19	VAV CONTROL	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	FA PANEL	20 A	1					0 VA	0 VA	2	20 A	SPARE	24	
	25	DRINKING FOUNTAIN	20 A	1	0 VA	0 VA								26	
	27	FA CURTAINS	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	RECEPT. STUDIO WALL	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	RECEPT. UNDERCTR STUDIO	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	
	33	BATHROOM RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	
	35	SPARE	20 A	1					0 VA	--	1	--	SPACE	36	
	37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38	
	39	COFFEE MAKER	30 A	2			0 VA	0 VA			1	20 A	SPARE	40	
	41								0 VA	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	200 A

NOTES:

Branch Panel: H2

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
A/C RATING: 18000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: MDC

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	LIGHTING RM 2001	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	LIGHTING RM 2001	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	LIGHTING RM 2001	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	LTS. 2001B, C, 2101-02, 2200-02,2301	20 A	1	0 VA	0 VA								14	
	15	LTS. 2000, 2001A, 2100, 2101	20 A	1			0 VA	0 VA			3	30 A	SPARE	16	
	17	LTS. 2102, 2200, 2300A-H, 2300K, 2301	20 A	1					0 VA	0 VA				18	
	19	LTS. 2004, 2102, 2300J	20 A	1	0 VA	0 VA								20	
	21	LTS. RM 2005, 2006	20 A	1			0 VA	0 VA			3	30 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA				24	
	25	SPARE	20 A	1	0 VA	0 VA								26	
	27	SPARE	20 A	1			0 VA	0 VA			3	40 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA				30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	400 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	400 A

NOTES:

Branch Panel: ANNEX

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DBP1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPARE	20 A	1	0 VA	0 VA					1	20 A	LOBBY LIGHTS - EM	2	
	3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	A/C PLUG	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	A/C PLUG	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	A/C PLUG	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	FLOOR BOX	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	FRIDGE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	MEZZANINE PLUG	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	MEZZANINE PLUG	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	HANDICAP DOOR	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	WATER COOLER PLUG	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25				0 VA	0 VA					1	20 A	SPARE	26	
	27	HEATER - VESTIBULE	30 A	3			0 VA	0 VA			1	20 A	SPARE	28	
	29								0 VA	0 VA	1	20 A	SPARE	30	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	95 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	95 A

NOTES:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER. BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AGR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.36

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: L3A

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: DBL4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	TELECOM ROOM	20 A	1	0 VA	0 VA					1	20 A	RECEPT. HALL 313	2	
	3	RESTROOM LIGHTS	20 A	1			0 VA	0 VA			1	20 A	RECEPT. HALL	4	
	5	HEATER UNIT FC-1	20 A	1					0 VA	0 VA	1	20 A	HEATER UNIT FC-2	6	
	7	SPARE	20 A	1	0 VA	0 VA					1	20 A	HEATER UNIT FC-2	8	
	9	HEATER UNIT FC-3	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	RECEPT. RM 356	20 A	1					0 VA	0 VA	1	20 A	RECEPT. NEW OFFICES	12	
	13	RECEPT. RM 356	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	RECEPT. RM 355-356	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	RECEPT. RM 357	20 A	1					0 VA	--	1	--	SPACE	18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	RECEPT. RM 321-322	20 A	1					0 VA	0 VA	1	25 A	PLOTTER SUITE 340	24	
	25	RECEPT. RM 322	20 A	1	0 VA	0 VA					1	20 A	RECEPT. BENCH	26	
	27	VENDING MACHINE RM 310	20 A	1			0 VA	0 VA			1	20 A	RECEPT. BENCH	28	
	29	VENDING MACHINE RM 310	20 A	1					0 VA	0 VA	1	20 A	RECEPT. BENCH	30	
	31	TRACK LIGHTING	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 340	32	
	33	TRACK LIGHTING	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	
	35	COFFEE MAKER RM 340	20 A	1					0 VA	0 VA	1	20 A	TRACK LIGHTING RM 320A	36	
	37	TRACK LIGHTING	20 A	1	0 VA	0 VA								38	
	39	TRACK LIGHTING	20 A	1			0 VA	0 VA			3	20 A	RECEPT. RM 3301	40	
	41	SPACE		1					--	0 VA				42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	225 A

NOTES:

Branch Panel: H3

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
AIC RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: MDC

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	2	
	3	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	4	
	5	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	6	
	7	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	8	
	9	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	10	
	11	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	12	
	13	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	14	
	15	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	16	
	17	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	18	
	19	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	20	
	21	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	22	
	23	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	24	
	25	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	26	
	27	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	28	
	29	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	30	
	31	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	400 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	400 A

NOTES:

Branch Panel: L3B

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: DBL4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	RECEPT. RM 332,336,337,338	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	RECEPT. RM 331-335	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 339	4	
	5	WALL RECEPT. RM 300	20 A	1					0 VA	0 VA	1	20 A	WALL POWER POLE RM 300	6	
	7	RECEPT. RM 327-329,334,344	20 A	1	0 VA	0 VA					1	20 A	CUBICLES #6,7 RM 300	8	
	9	RECEPT. RM 346	20 A	1			0 VA	0 VA			1	20 A	COLUMN N.E. RM 300	10	
	11	RECEPT. RM 348-354	20 A	1					0 VA	0 VA	1	20 A	CUBICLES #8,9 RM 300	12	
	13	RECEPT. RM 300	20 A	1	0 VA	0 VA					1	20 A	CUBICLES #10,11 RM 300	14	
	15	RECEPT. RM 315	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	COLUMN RM 300	20 A	1	0 VA	0 VA					1	30 A	COLUMN RECEPT. RM 300	20	
	21	EAST PERIMETER WALL RECEPT.	20 A	1			0 VA	0 VA			1	30 A	QUAD WALL RECEPT. RM 300	22	
	23	WEST PERIMETER WALL RECEPT.	30 A	1					0 VA	0 VA	1	20 A	COFFEE MAKER	24	
	25	CUBICLES #2,3 RM 300	20 A	1	0 VA	0 VA								26	
	27	CUBICLES #4,5 RM 300	20 A	1			0 VA	0 VA			2	30 A	COPIER 208 VOLT	28	
	29	FLOOR BOXES RM 314	20 A	1					0 VA	0 VA	1	20 A	CUBICLE #1 RM 300	30	
	31	VENDING MACHINE RM 310	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	
	33	COPIER RM 320E	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	
	35	POWER POLE	20 A	1					0 VA	0 VA	1	20 A	VENDING MACHINE RM 310	36	
	37	POWER POLE	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLE	38	
	39	POWER POLE	20 A	1			0 VA	0 VA			1	20 A	COPIER	40	
	41	POWER POLE	20 A	1					0 VA	0 VA	1	20 A	POWER POLE	42	
	43	SPARE	20 A	1	0 VA	--					1	--	SPACE	44	
	45	SPARE	20 A	1			0 VA	--			1	--	SPACE	46	
	47	SPARE	20 A	1					0 VA	--	1	--	SPACE	48	
	49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50	
	51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52	
	53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	225 A

NOTES:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
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ELECTRICAL SYSTEM UPGRADES
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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AOR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.37

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: L4C

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 100 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: T-L4C

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	RECEPT. COMPUTER LAB	20 A	1	0 VA	0 VA					1	20 A	RECEPT. COMPUTER LAB	2	
	3	RECEPT. COMPUTER LAB	20 A	1			0 VA	0 VA			1	20 A	RECEPT. COMPUTER LAB	4	
	5	RECEPT. COMPUTER LAB	20 A	1					0 VA	0 VA	1	20 A	RECEPT. COMPUTER LAB	6	
	7	RECEPT. COMPUTER LAB	20 A	1	0 VA	0 VA					1	20 A	RECEPT. COMPUTER LAB	8	
	9	RECEPT. COMPUTER LAB	20 A	1			0 VA	0 VA			1	20 A	RECEPT. COMPUTER LAB	10	
	11	RECEPT. COMPUTER LAB	20 A	1					0 VA	0 VA	1	20 A	RECEPT. COMPUTER LAB	12	
	13	RECEPT. COMPUTER LAB	20 A	1	0 VA	0 VA					1	20 A	RECEPT. COMPUTER LAB	14	
	15	RECEPT. COMPUTER LAB	20 A	1			0 VA	0 VA			1	20 A	PROJECTOR	16	
	17	SPARE	20 A	1					0 VA	0 VA	1	20 A	RECEPT. COMPUTER LAB	18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 83 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 83 A

NOTES:

Branch Panel: H4

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
A/C RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: DBH4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	LIGHTING RM 414	20 A	1	0 VA	0 VA					1	20 A	LIGHTING RM 417	2	
	3	LIGHTING RM 414	20 A	1			0 VA	0 VA			1	20 A	LIGHTING RM 421-425	4	
	5	LIGHTING RM 414	20 A	1					0 VA	0 VA	1	20 A	LIGHTING RM 423-428	6	
	7	LIGHTING RM 414	20 A	1	0 VA	0 VA					1	20 A	LIGHTING	8	
	9	LIGHTING RM 414	20 A	1			0 VA	0 VA			1	20 A	LIGHTING RM 433	10	
	11	LIGHTING RM 440	20 A	1					0 VA	0 VA	1	20 A	LIGHTING RM 433	12	
	13	LIGHTING RM 414	20 A	1	0 VA	0 VA					1	20 A	LIGHTING RM 433	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	LIGHTING RM 433	16	
	17	LIGHTING RM 414	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	LIGHTING RM 416	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	LIGHTING RM 416	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	LIGHTING RM 416	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	HEATING UNIT Z9	30	
	31													32	
	33								0 VA		3	40 A	SPARE	34	
	35													36	
	37								0 VA		3	225 A	T-2 (FOURTH)	38	
	39													40	LSI
	41													42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 400 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 400 A

NOTES:

Branch Panel: L4A

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D I-LINE
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 600 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 500 A

SPD:
FEED-THROUGH LUGS:
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: DBL4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	TELEPHONE ROOM	20 A	1	0 VA	0 VA					1	20 A	HALLWAY RECEPT.	2	
	3	RESTROOMS	20 A	1			0 VA	0 VA			1	20 A	HALLWAY RECEPT. & RM 411	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 430	6	
	7	SPARE	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 430	8	
	9	RECEPT. 420-425	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 430	10	
	11	RECEPT. RM 427	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 420	12	
	13	RECEPT. RM 427	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 433	14	
	15	RECEPT. RM 427	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 433	16	
	17	RECEPT. RM 427, 430	30 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	RECEPT. RM 428, 429	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	TELEPHONE ROOM	20 A	1			0 VA	0 VA			1	20 A	PLOTTER & TAPEDRIVE	22	
	23	RECEPT. RM 423	20 A	1					0 VA	0 VA	1	20 A	PLOTTER & TAPEDRIVE	24	
	25	KEYPUNCH & SOTER	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 418	26	
	27	DECOLLATER RM 418	20 A	1			0 VA	0 VA			1	20 A	KEYPUNCH	28	
	29	DECOLLATER RM 418	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 460	30	
	31	PRINTER RM 418	20 A	1	0 VA	0 VA					1	20 A	READER 1 CPU	32	
	33	PRINTER RM 418	20 A	1			0 VA	0 VA			1	20 A	LOBBY LIGHTS	34	
	35	SPARE	20 A	1					0 VA	0 VA	2	30 A	AC RM 460	36	
	37	SPARE	20 A	1	0 VA	0 VA								38	
	39	COPIER & TELAX	20 A	1			0 VA	0 VA			2	30 A	AC RM 460	40	
	41	COPIER & TELAX	30 A	1					0 VA	0 VA				42	
	43													44	
	45													46	
	47													48	
	49													50	
	51													52	
	53													54	
	55	SPARE	20 A	1	0 VA	--					1	--	SPACE	56	
	57	SPARE	20 A	1			0 VA	--			1	--	SPACE	58	
	59	SPARE	20 A	1					0 VA	--	1	--	SPACE	60	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 417 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 417 A

NOTES:

Branch Panel: L4B

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: DBL4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	RECEPT. RM 413-434 FLOOR BOX 414	20 A	1	0 VA	--					1	--	SPACE	2	
	3	RECEPT. RM 414 PLUGMOLD	20 A	1			0 VA	--			1	--	SPACE	4	
	5	POWER POLE & LOUNGE	20 A	1					0 VA	0 VA	1	20 A	ITEK 175	6	
	7	COPIER	20 A	1	0 VA	0 VA					2	20 A	WATER HEATER WOOD SHOP	8	
	9	COPIER	20 A	1			0 VA	0 VA						10	
	11	RECEPT. RM 414	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 440	12	
	13	RECEPT. RM 414	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 440	14	
	15	FLOOR BOXES 414	20 A	1			0 VA	0 VA						16	
	17	SPARE	20 A	1					0 VA	0 VA	3	20 A	SPARE	18	
	19	KODAK MRG-1	20 A	1	0 VA	0 VA								20	
	21	RECEPT. RM 416	20 A	1			0 VA	0 VA			1	20 A	EXISTING EQUIPMENT	22	
	23	FACP	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	24	
	25	SPARE	20 A	1	0 VA	0 VA								26	
	27	SPARE	20 A	1			0 VA	0 VA			3	15 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA				30	
	31				0 VA	0 VA								32	
	33	SPARE	15 A	3			0 VA	0 VA			3	15 A	SPARE	34	
	35								0 VA	0 VA				36	
	37	RECEPT. COMPUTER LAB	30 A	1	0 VA	0 VA								38	
	39	SPARE	20 A	1			0 VA	0 VA			3	20 A	SPARE	40	
	41	PROJECTOR RM 470, 480	30 A	1					0 VA	0 VA				42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 200 A

NOTES:

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303-788-1717

CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #:	210032
Scale:	
Drawn By:	JR
Designed By:	JR/AQR
Checked By:	AQR/JE

Issued For:	**Date:**
100% CONSTRUCTION	12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER, BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

ELECTRICAL PANEL SCHEDULES

E0.38

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: L4B2

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DBL4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	EF-1	20 A	1	0 VA / 0 VA			1	20 A	PROXXON RECEPT.	2	
	3	SAW TRAX 1000	20 A	1		0 VA / 0 VA		2	20 A	WOODSHOP RECEPT.	4	
	5						0 VA / 0 VA				6	
	7	EXISTING EQUIPMENT	50 A	3	0 VA / 0 VA			2	20 A	SPARE	8	
	9					0 VA / 0 VA					10	
	11	SPARE	20 A	1			0 VA / 0 VA	2	30 A	SPARE	12	
	13	SPARE	20 A	1	0 VA / 0 VA						14	
	15	SPARE	20 A	1		0 VA / 0 VA		2	30 A	EXISTING EQUIPMENT	16	
	17	SPARE	20 A	1			0 VA / 0 VA				18	
	19	SPARE	20 A	1	0 VA / --			1	--	SPACE	20	
	21	SPARE	20 A	1		0 VA / --		1	--	SPACE	22	
	23	SPARE	20 A	1			0 VA / --	1	--	SPACE	24	
	25	SPARE	20 A	1	0 VA / --			1	--	SPACE	26	
	27	SPARE	20 A	1		0 VA / --		1	--	SPACE	28	
	29	SPARE	20 A	1			0 VA / --	1	--	SPACE	30	
			TOTAL LOAD:		0 VA	0 VA	0 VA					
			TOTAL AMPS:		0 A	0 A	0 A					

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT: 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 100 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY: 100 A

NOTES:

Branch Panel: L4B1

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 250 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 200 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DBL4

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA / 0 VA			2	20 A	DELTA BAND SAW	2	
	3	TURIT VAC	30 A	3		0 VA / 0 VA					4	
	5						0 VA / 0 VA	2	30 A	D.E. SANDER	6	
	7	SPARE	20 A	1	0 VA / 0 VA						8	
	9	PLUGMOLD SOUTH	20 A	2		0 VA / 0 VA		2	40 A	SPARE	10	
	11						0 VA / 0 VA				12	
	13				0 VA			2	20 A	SPARE SOUTH CEILING	14	
	15					0 VA					16	
	17						0 VA	1	20 A	WATER HEATER	18	
	19	PLUGMOLD EAST	20 A	1	0 VA / 0 VA			2	30 A	P.M. TABLE SAW	20	
	21	DELTA SANDING CTR	20 A	1		0 VA / 0 VA					22	
	23	DRUM SANDER	20 A	2			0 VA / 0 VA	1	20 A	EPO SWITCH	24	
	25				0 VA / 0 VA			2	30 A	S.T. TABLE SAW	26	
	27	PLUGMOLD EAST	20 A	1		0 VA / 0 VA					28	
	29	DELTA DUST COLLECTOR	20 A	2			0 VA / 0 VA	1	20 A	SPARE	30	
	31				0 VA / 0 VA						32	
	33	MINI MAX SAW	20 A	3		0 VA / 0 VA		3	30 A	JOINTER	34	
	35						0 VA / 0 VA				36	
	37				0 VA / 0 VA			1	20 A	SPARE	38	
	39	PLANER	20 A	2		0 VA / 0 VA		2	20 A	CEILING N. EAST	40	
	41						0 VA / 0 VA				42	
	43	SPARE	30 A	2	0 VA / 0 VA			2	20 A	SPARE	44	
	45					0 VA / 0 VA					46	
	47	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	48	
	49	SPARE	20 A	1	0 VA / --			1	--	SPACE	50	
	51	SPARE	20 A	1		0 VA / --		1	--	SPACE	52	
	53	SPARE	20 A	1			0 VA / --	1	--	SPACE	54	
	55	SPARE	20 A	1	0 VA / --			1	--	SPACE	56	
	57	SPARE	20 A	1		0 VA / --		1	--	SPACE	58	
	59	SPARE	20 A	1			0 VA / --	1	--	SPACE	60	
			TOTAL LOAD:		0 VA	0 VA	0 VA					
			TOTAL AMPS:		0 A	0 A	0 A					

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT: 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 200 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY: 200 A

NOTES:

Branch Panel: L4D1

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: L4D

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	RECEPT. RM 490	20 A	1	0 VA / 0 VA						2	
	3	RECEPT. RM 490	20 A	1		0 VA / 0 VA		3	30 A	60 GAL COMPRESSOR	4	
	5	RECEPT. RM 490	20 A	1			0 VA / 0 VA				6	
	7	RECEPT. RM 490	20 A	1	0 VA / 0 VA			1	20 A	SPARE	8	
	9	F/S DAMPERS	20 A	1		0 VA / 0 VA		1	20 A	JOINTER	10	
	11	COMPRESSOR QUAD	20 A	1			0 VA / 0 VA	1	20 A	DRUM SANDER	12	
	13	SPARE ABOVE 450 B1	20 A	1	0 VA / 0 VA			1	20 A	RECEPT. PAINT BOOTH	14	
	15	LASER CUTTER	20 A	2		0 VA / 0 VA		1	20 A	EQ43,45,46	16	
	17						0 VA / 0 VA	1	20 A	EQ COLUMN RECEPT.	18	
	19	LASER CUTTER	20 A	2	0 VA / 0 VA			2	30 A	SPARE	20	
	21					0 VA / 0 VA					22	
	23	SPARE	20 A	1			0 VA / 0 VA	1	20 A	TRANE/ROOF GFCI	24	
	25	EQ 47 PAINTBOOTH EXHAUST	15 A	3	0 VA / 0 VA						26	
	27					0 VA / 0 VA		3	100 A	PLANER	28	
	29						0 VA / 0 VA				30	
	31	SPARE	20 A	2	0 VA / 0 VA			1	20 A	SPARE	32	
	33					0 VA / 0 VA		1	20 A	SPARE	34	
	35	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	36	
	37	SPARE	20 A	1	0 VA / --			1	--	SPACE	38	
	39	SPARE	20 A	1		0 VA / --		1	--	SPACE	40	
	41	SPARE	20 A	1			0 VA / --	1	--	SPACE	42	
			TOTAL LOAD:		0 VA	0 VA	0 VA					
			TOTAL AMPS:		0 A	0 A	0 A					

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT: 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 200 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY: 200 A

NOTES:

Branch Panel: L4D

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 200 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: T-4D

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA / 0 VA			1	20 A	SPARE	2	
	3	EXHAUST FAN LASER CUTTER	20 A	3		0 VA / 0 VA		1	20 A	WOODSHOP RECEPT.	4	
	5						0 VA / 0 VA	1	20 A	SPARE	6	
	7	EXHAUST FAN LASER CUTTER	20 A	3	0 VA / 0 VA			1	20 A	AIR CLEANER/WALL RECEPT.	8	
	9					0 VA / 0 VA		1	20 A	BRYNIE RECEPT.	10	
	11						0 VA / 0 VA				12	
	13	EXHAUST FAN LASER CUTTER	20 A	3	0 VA / 0 VA			3	30 A	SPARE	14	
	15					0 VA / 0 VA					16	
	17						0 VA / 0 VA	1	20 A	WALL RECEPT.	18	
	19	EXHAUST FAN LASER CUTTER	20 A	3	0 VA / 0 VA			1	35 A	SPARE	20	
	21					0 VA / 0 VA		2	20 A	SPARE	22	
	23						0 VA / 0 VA				24	
	25	ONEIDA DUST COLLECTOR	20 A	3	0 VA / 0 VA			2	20 A	THERMAL FORMER	26	
	27					0 VA / 0 VA					28	
	29						0 VA / 0 VA				30	
	31	ONEIDA DUST COLLECTOR	20 A	3	0 VA / 0 VA			2	20 A	LASER CUTTER	32	
	33					0 VA / 0 VA					34	
	35						0 VA / 0 VA	2	20 A	LASER CUTTER	36	
	37	AIR CLEANERS	20 A	1	0 VA / 0 VA			1	35 A	SPARE	38	
	39	RECEPT. RM 440	20 A	1		0 VA / 0 VA		1	20 A	RM 440 LASER	40	
	41	RM 440 CLOSET	20 A	1			0 VA / 0 VA	1	20 A	RM 440 SCREEN	42	
	43	SPARE	20 A	2	0 VA / 0 VA						44	
	45					0 VA / 0 VA		3	20 A	SPARE	46	
	47	SPARE	20 A	1			0 VA / 0 VA				48	
	49	SPARE	20 A	1	0 VA / --			1	--	SPACE	50	
	51	SPARE	20 A	1		0 VA / --		1	--	SPACE	52	
	53	SPARE	20 A	1			0 VA / --	1	--	SPACE	54	
	55	SPARE	20 A	1	0 VA / --			1	--	SPACE	56	
	57	SPARE	20 A	1		0 VA / --		1	--	SPACE	58	
	59						--	1	--	SPACE	60	
					0 VA	0 VA	0 VA					
					0 A	0 A	0 A					

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT: 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 200 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY: 200 A

NOTES:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER. BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AGR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.39

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: L5A

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 22000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	TELEPHONE RM	20 A	1	0 VA	0 VA					1	20 A	HALLWAY RECEPT./WATER COOLER	2	
	3	RESTROOM LIGHTS	20 A	1			0 VA	0 VA			1	20 A	HALLWAY RECEPT.	4	
	5	RECEPT. 6C,D	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	RECEPT. 5C,D	20 A	1	0 VA	0 VA					1	20 A	POWER POLES RM 520	8	
	9	RECEPT. 7C,D	20 A	1			0 VA	0 VA			1	20 A	POWER POLES RM 521	10	
	11	WIREMOLD 5A,B /UNDERWINDOW	20 A	1					0 VA	0 VA	1	20 A	POWER POLES RM 520	12	
	13	WIREMOLD 1C,D /UNDERWINDOW	20 A	1	0 VA	0 VA					1	20 A	POWER POLES RM 519	14	
	15	RECEPT. 7A,C,6B,D	20 A	1			0 VA	0 VA			1	20 A	POWER POLES RM 518	16	
	17	RECEPT. 3A,B	20 A	1					0 VA	0 VA	1	20 A	POWER POLES RM 518 E STUDIO	18	
	19	RECEPT. 2A,B	20 A	1	0 VA	0 VA					1	20 A	POWER POLES RM 522	20	
	21	FLOOR BOX 3C	20 A	1			0 VA	0 VA			1	20 A	POWER POLES RM 523	22	
	23	WIREMOLD 7A,B	20 A	1					0 VA	0 VA	1	20 A	POWER POLES RM 522 E STUDIO	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	EXISTING EQUIPMENT	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	SPACE	--	1					--	0 VA	1	20 A	SPARE	30	
	31	SPACE	--	1	--	0 VA					1	20 A	SPARE	32	
	33	RECEPTACLES	20 A	1			0 VA	--			1	--	SPACE	34	
	35	COPIER	20 A	1					0 VA	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 200 A

NOTES:

Branch Panel: H5

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: MDC

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	LIGHTS 18A,B	20 A	1	0 VA	0 VA					1	20 A	HVAC 6B, 5C	2	
	3	LIGHTS 20A,B,C,D	20 A	1			0 VA	0 VA			1	20 A	LIGHTS 5C,D 6C, D	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	LIGHTS 3A,B,C,D 6A,B	6	
	7	EXISTING HVAC	20 A	1	0 VA	0 VA					1	20 A	LIGHTS 5A,B	8	
	9	LIGHTS 1A,B	20 A	1			0 VA	0 VA			1	20 A	LIGHTS 2C,D	10	
	11	LIGHTS 11C,D, 16B	20 A	1					0 VA	0 VA	1	20 A	LIGHTS 2A,B	12	
	13	LIGHTS 9C,D, 14B	20 A	1	0 VA	0 VA					1	20 A	LIGHTS 7C,D	14	
	15	LIGHTS 14A,C,D	20 A	1			0 VA	0 VA			1	20 A	LIGHTS 7A,B	16	
	17	LIGHTS	20 A	1					0 VA	0 VA	1	20 A	LIGHTS	18	
	19	LIGHTS	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	LIGHTS	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	HVAC 11D	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 225 A

NOTES:

Branch Panel: L8C

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: T-L8C

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	COMPUTER RECEPT. - 810	20 A	1	1400 VA	0 VA					1	20 A	SPARE	2	
	3	COMPUTER RECEPT. - 810	20 A	1			1400 VA	0 VA			1	20 A	SPARE	4	
	5	COMPUTER RECEPT. - 810	20 A	1					1400 VA	0 VA	1	20 A	SPARE	6	
	7	COMPUTER RECEPT. - 810	20 A	1	1400 VA	0 VA					2	20 A	SPARE	8	
	9	COMPUTER RECEPT. - 810	20 A	1			1400 VA	0 VA						10	
	11	COMPUTER RECEPT. - 810	20 A	1					1400 VA	0 VA	2	30 A	SPARE	12	
	13	COMPUTER RECEPT. - 810	20 A	1	1400 VA	0 VA								14	
	15	COMPUTER RECEPT. - 810	20 A	1			1400 VA	0 VA			1	20 A	SPARE	16	
	17	COMPUTER RECEPT. - 810	20 A	1					1400 VA	1400 VA	1	20 A	COMPUTER RECEPT. - 805A	18	
	19	COMPUTER RECEPT. - 810	20 A	1	1400 VA	1400 VA					1	20 A	COMPUTER RECEPT. - 805A	20	
	21	COMPUTER RECEPT. - 810	20 A	1			1400 VA	1400 VA			1	20 A	COMPUTER RECEPT. - 805A	22	
	23	COMPUTER RECEPT. - 810	20 A	1					1400 VA	1400 VA	1	20 A	COMPUTER RECEPT. - 805A	24	
	25	COMPUTER RECEPT. - 805A	20 A	1	1400 VA	1400 VA					1	20 A	COMPUTER RECEPT. - 805A	26	
	27	COMPUTER RECEPT. - 805A	20 A	1			1400 VA	1400 VA			1	20 A	COMPUTER RECEPT. - 805A	28	
	29	COMPUTER RECEPT. - 805A	20 A	1					1400 VA	0 VA	1	20 A	SPARE	30	
	31	COMPUTER RECEPT. - 805A	20 A	1	1400 VA	0 VA					1	20 A	SPARE	32	
	33	COMPUTER RECEPT. - 805A	20 A	1			1400 VA	0 VA			1	20 A	SPARE	34	
	35	COMPUTER RECEPT. - 805A	20 A	1					1400 VA	0 VA	1	20 A	SPARE	36	
	37	COMPUTER RECEPT. - 805A	20 A	1	1400 VA	0 VA					1	20 A	SPARE	38	
	39	COMPUTER RECEPT. - 805A	20 A	1			1400 VA	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		12600 VA		12600 VA		11200 VA						
			TOTAL AMPS:		107 A		107 A		93 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	36400 VA	63.74%	23200 VA	**TOTAL CONN. LOAD:** 36400 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 23200 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 101 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 64 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 136 A

NOTES:

Branch Panel: L5B

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 22000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	RECEPT. 15A,B,C,D	20 A	1	0 VA	0 VA					1	20 A	LIGHTS 15B,D	2	
	3	RECEPT. 16C,D	20 A	1			0 VA	0 VA			1	20 A	LIGHTS 15A	4	
	5	WIREMOLD 20A,C	20 A	1					0 VA	0 VA	1	20 A	LIGHTS 15C	6	
	7	DED. RECEPT. RM 540	20 A	1	0 VA	0 VA					1	20 A	RECEPT. 20B,21A	8	
	9	DED. RECEPT. RM 540	20 A	1			0 VA	0 VA			1	20 A	WIREMOLD 21C,D	10	
	11	SPARE	20 A	1					0 VA	0 VA	1	20 A	WIREMOLD 21B,D	12	
	13	SPARE	20 A	1	0 VA	0 VA					1	20 A	POWER POLE RM 524	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	POWER POLE RM 524	16	
	17	SPARE	20 A	1					0 VA	0 VA	1	20 A	POWER POLE RM 524 & 525	18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	RECEPT. 11A,B	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	WIREMOLD 11C,D,16B	22	
	23	J-BOX RM 500	20 A	1					0 VA	0 VA	1	20 A	EXISTING EQUIPMENT	24	
	25	RECEPT. RM 500	20 A	1	0 VA	0 VA					1	20 A	EXISTING EQUIPMENT	26	
	27	SPACE	--	1			--	0 VA			1	20 A	SPARE	28	
	29	SPACE	--	1					--	0 VA	1	20 A	SPARE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 200 A

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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AOR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER, BAUCOM ENGINEERING & CONSULTING. (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

ELECTRICAL PANEL SCHEDULES

E0.40

Branch Panel: L6A

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 22000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 200 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPARE	20 A	1	0 VA	0 VA					1	20 A	RR GFCI RECEPT.	2	
	3	SPARE	20 A	1			0 VA	0 VA			1	20 A	RR LIGHTING	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	CRITIQUE 02 RECEPT.	20 A	1			0 VA	0 VA			1	20 A	WEST CEILING RECEPT.	10	
	11	CRITIQUE 03 RECEPT.	20 A	1					0 VA	0 VA	1	20 A	WEST CEILING RECEPT.	12	
	13	WEST WALL RECEPT.	20 A	1	0 VA	0 VA					1	20 A	WEST CEILING RECEPT.	14	
	15	NORTH WALL RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	WORK AREA RECEPT.	20 A	1					0 VA	0 VA	1	20 A	HALLWAY RECEPT.	18	
	19	KITCHEN RECEPT.	20 A	1	0 VA	0 VA					1	20 A	CRITIQUE 01 RECEPT.	20	
	21	KITCHEN RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	KITCHEN RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	
	33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	
	35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38	
	39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40	
	41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	200 A

NOTES:

Branch Panel: H6

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: MDC

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	LTG -WEST OPEN STUDIO	20 A	1	0 VA	--					1	--	SPACE	2	
	3	LTG -SOUTH OPEN STUDIO	20 A	1			0 VA	--			1	--	SPACE	4	
	5	LTG -NORTH OPEN STUDIO	20 A	1					0 VA	--	1	--	SPACE	6	
	7	LTG -EAST OPEN STUDIO	20 A	1	0 VA	--					1	--	SPACE	8	
	9	LTG -INTERIOR CRITIQUE RM	20 A	1			0 VA	--			1	--	SPACE	10	
	11	LTG -INTERIOR ROOMS	20 A	1					0 VA	--	1	--	SPACE	12	
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	225 A

NOTES:

Branch Panel: TR6

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 22000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 60 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	RECEPTACLES	20 A	1	0 VA	0 VA					2	30 A	CU-1	2	
	3	RECEPTACLES - WEST	20 A	1			0 VA	0 VA						4	
	5	RECEPTACLES - EAST	20 A	1					0 VA	0 VA	1	20 A	RACK RECEPTACLES	6	
	7	SPARE	20 A	1	0 VA	0 VA					1	20 A	RACK RECEPTACLES	8	
	9	SPARE	20 A	1			0 VA	0 VA			1	20 A	VAV CONTROL PANEL	10	
	11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	60 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	60 A

NOTES:

Branch Panel: L6B

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 22000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 200 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPARE	20 A	1	0 VA	0 VA					1	20 A	EAST CEILING RECEPT.	2	
	3	SPARE	20 A	1			0 VA	0 VA			1	20 A	EAST CEILING RECEPT.	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	NORTH CEILING RECEPT.	6	
	7				0 VA	0 VA					1	20 A	NORTH CEILING RECEPT.	8	
	9	PANEL TR6	60 A	3			0 VA	0 VA			1	20 A	SPARE	10	
	11								0 VA	0 VA	1	20 A	SPARE	12	
	13	WEST WALL RECEPT.	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	NORTH WALL RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	NORTH WALL RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	EAST WALL RECEPT.	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SOUTH WALL RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SOUTH CEILING RECEPT.	22	
	23	FIRE ALARM NAC	20 A	1					0 VA	0 VA	1	20 A	SOUTH CEILING RECEPT.	24	
	25	SMOKE DAMPERS	20 A	1	0 VA	0 VA					1	20 A	EAST CEILING RECEPT.	26	
	27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	
	33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	
	35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38	
	39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40	
	41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	200 A

NOTES:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER BAUCOM ENGINEERING & CONSULTING. (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AOR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.41

Branch Panel: L7A

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	BATHROOMS	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	FLUSHDUCT	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	FLUSHDUCT	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	FLUSHDUCT	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	FLUSHDUCT	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	FLUSHDUCT	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	FLUSHDUCT	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25				0 VA	0 VA					1	20 A	SPARE	26	
	27	IT PANEL	90 A	3			0 VA	0 VA			1	20 A	SPARE	28	
	29								0 VA	0 VA	1	20 A	SPARE	30	
	31	SPARE	20 A	1	0 VA	0 VA					2	30 A	SPARE	32	
	33	SPACE	--	1			--	0 VA						34	
	35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37	SPARE	20 A	1	0 VA	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	200 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	200 A

NOTES:

Branch Panel: H7

NORMAL POWER

MANUFACTURER AND TYPE: --
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: MDC

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	LIGHTING	18	
	19	LIGHTING	20 A	1	0 VA	0 VA					1	20 A	LIGHTING	20	
	21	LIGHTING	20 A	1			0 VA	0 VA			1	20 A	LIGHTING	22	
	23	LIGHTING	20 A	1					0 VA	0 VA	1	20 A	LIGHTING	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	LIGHTING	26	
	27	SPARE	20 A	1			0 VA	0 VA			1	20 A	LIGHTING	28	
	29	SPACE	--	1					--	0 VA	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	225 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	225 A

NOTES:

Branch Panel: L7C

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				0 VA	0 VA								2	
	3	SPARE	100 A	3			0 VA	0 VA			3	20 A	SPARE	4	
	5								0 VA	0 VA				6	
	7	LTS & GFCI	20 A	1	0 VA	0 VA					1	20 A	NORTHWEST RECEPT.	8	
	9	SOUTHEAST RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SOUTHEAST RECEPT.	10	
	11	SPACE	--	1					--	0 VA	1	20 A	ON RACK RECEPTACLES	12	
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	125 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	125 A

NOTES:

Branch Panel: L7B

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	W/REMOLD RECEPTACLES	20 A	1	0 VA	0 VA					1	20 A	W/REMOLD RECEPTACLES	2	
	3	W/REMOLD RECEPTACLES	20 A	1			0 VA	0 VA			1	20 A	W/REMOLD RECEPTACLES	4	
	5	W/REMOLD RECEPTACLES	20 A	1					0 VA	0 VA	1	20 A	TRACK LIGHTS	6	
	7	W/REMOLD RECEPTACLES	20 A	1	0 VA	0 VA					1	20 A	TRACK LIGHTS	8	
	9	W/REMOLD RECEPTACLES	20 A	1			0 VA	0 VA			1	20 A	W/REMOLD RECEPTACLES	10	
	11	W/REMOLD RECEPTACLES	20 A	1					0 VA	0 VA	1	20 A	W/REMOLD RECEPTACLES	12	
	13	W/REMOLD RECEPTACLES	20 A	1	0 VA	0 VA					1	20 A	W/REMOLD RECEPTACLES	14	
	15	W/REMOLD RECEPTACLES	20 A	1			0 VA	0 VA			1	20 A	W/REMOLD RECEPTACLES	16	
	17	COUNTER GFCI RECEPT.	20 A	1					0 VA	0 VA	1	20 A	W/REMOLD RECEPTACLES	18	
	19	CLASS OUTLETS	20 A	1	0 VA	0 VA					1	20 A	W/REMOLD RECEPTACLES	20	
	21	REFRIGERATOR	20 A	1			0 VA	0 VA			1	20 A	W/REMOLD RECEPTACLES	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	FLUSHDUCT	24	
	25	EXITS LOBBY	20 A	1	0 VA	0 VA					1	20 A	FLUSHDUCT	26	
	27	TRACK LIGHTS LOBBY	20 A	1			0 VA	0 VA			1	20 A	FLUSHDUCT	28	
	29	FLUSHDUCT	20 A	1					0 VA	0 VA	1	20 A	CLASSROOM LIGHTS	30	
	31	FLUSHDUCT	20 A	1	0 VA	0 VA					1	20 A	FIRE DAMPERS	32	
	33	FLUSHDUCT	20 A	1			0 VA	0 VA			1	20 A	PRINTER AREA	34	
	35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37				0 VA	0 VA					1	20 A	RECEPTACLES	38	
	39	FCU UNIT	20 A	3			0 VA	0 VA			1	20 A	SPARE	40	
	41								0 VA	0 VA	1	20 A	FIRE DAMPERS	42	
	43	SPARE	20 A	1	0 VA	--					1	--	SPACE	44	
	45	SPARE	20 A	1			0 VA	--			1	--	SPACE	46	
	47	SPARE	20 A	1					0 VA	--	1	--	SPACE	48	
	49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50	
	51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52	
	53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54	
	55	SPARE	20 A	1	0 VA	--					1	--	SPACE	56	
	57	SPARE	20 A	1			0 VA	--			1	--	SPACE	58	
	59	SPARE	20 A	1					0 VA	--	1	--	SPACE	60	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND:	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT:	0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT:	0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY:	200 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY:	200 A

NOTES:

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NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER. BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

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SBEC Project #:	210032
Scale:	
Drawn By:	JR
Designed By:	JR/AQR
Checked By:	AQR/JE

Issued For: 100% CONSTRUCTION — **Date:** 12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.42

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: L8D

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: L8C

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	COMPUTER RECEPT.	20 A	1	0 VA	0 VA					2	50 A	SPARE	2	
	3	COMPUTER RECEPT.	20 A	1			0 VA	0 VA						4	
	5	COMPUTER RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	COMPUTER RECEPT.	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	COMPUTER RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	COMPUTER RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	COMPUTER RECEPT.	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	COMPUTER RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	COMPUTER RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	COMPUTER RECEPT.	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	COMPUTER RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	COMPUTER RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	COMPUTER RECEPT.	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	COMPUTER RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	COMPUTER RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	COMPUTER RECEPT.	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	
	33	COMPUTER RECEPT.	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	
	35	COMPUTER RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37	COMPUTER RECEPT.	20 A	1	0 VA	0 VA					1	20 A	SPARE	38	
	39	COMPUTER RECEPT.	20 A	1			0 VA	--			1	--	SPACE	40	
	41	SPACE		1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 150 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 150 A

NOTES:

Branch Panel: L8B1

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	COPIER	20 A	1	0 VA	0 VA					1	20 A	WIREMOLD RM 824	2	
	3	WIREMOLD RM 832	20 A	1			0 VA	0 VA			1	20 A	WIREMOLD RM 824	4	
	5	WIREMOLD RM 832	20 A	1					0 VA	0 VA	1	20 A	WIREMOLD RM 824	6	
	7	VENDING MACHING RM 807	20 A	1	0 VA	0 VA					1	20 A	WIREMOLD RM 824	8	
	9	VENDING MACHING RM 807	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	VENDING MACHING RM 807	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	RECEPT. RM 803	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	STUDIO SCREEN	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	FLOOR RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	STUDIO SCREEN	20 A	1	0 VA	0 VA					1	20 A	LOBBY RECEPT.	20	
	21	STUDIO SCREEN	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 832	22	
	23	WIREMOLD RM 805	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 836-839	24	
	25	WIREMOLD RM 805	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 832	26	
	27	WIREMOLD RM 805	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	WIREMOLD RM 805	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 805D	30	
	31	FLOOR RECEPT.	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 805D	32	
	33	SPARE	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 805D	34	
	35	SPARE	20 A	1					0 VA	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 208 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 208 A

NOTES:

Branch Panel: L8F

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: L8E

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	WORKSTATION	20 A	1	720 VA	0 VA					1	20 A	SPARE	2	
	3	WORKSTATION	20 A	1			720 VA	0 VA			1	20 A	SPARE	4	
	5	WORKSTATION	20 A	1					720 VA	0 VA	1	20 A	SPARE	6	
	7	WORKSTATION	20 A	1	720 VA	0 VA					1	20 A	SPARE	8	
	9	INSTRUCTOR STATION	20 A	1			180 VA	0 VA			1	20 A	SPARE	10	
	11	INSTRUCTOR STATION	20 A	1					180 VA	0 VA	1	20 A	SPARE	12	
	13	SURFACE RACE	20 A	1	180 VA	540 VA					1	20 A	WORKSTATIONS	14	
	15	SURFACE RACE	20 A	1			360 VA	540 VA			1	20 A	WORKSTATIONS	16	
	17	SPARE	20 A	1					0 VA	540 VA	1	20 A	WORKSTATIONS	18	
	19	SPARE	20 A	1	0 VA	540 VA					1	20 A	WORKSTATIONS	20	
	21	SPARE	20 A	1			0 VA	540 VA			1	20 A	WORKSTATIONS	22	
	23	WORKSTATIONS	20 A	1					540 VA	540 VA	1	20 A	WORKSTATIONS	24	
	25	WORKSTATIONS	20 A	1	540 VA	540 VA					1	20 A	WORKSTATIONS	26	
	27	WORKSTATIONS	20 A	1			540 VA	540 VA			1	20 A	WORKSTATIONS	28	
	29	WORKSTATIONS	20 A	1					540 VA	540 VA	1	20 A	WORKSTATIONS	30	
	31	WORKSTATIONS	20 A	1	540 VA	0 VA					2	20 A	SPARE	32	
	33	WORKSTATIONS	20 A	1			540 VA	0 VA						34	
	35	WORKSTATIONS	20 A	1					540 VA	300 VA	1	20 A	PROJECTOR	36	
	37	WORKSTATIONS	20 A	1	540 VA	0 VA					1	20 A	SPARE	38	
	39	WORKSTATIONS	20 A	1			540 VA	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		4860 VA		4500 VA		4440 VA						
			TOTAL AMPS:		41 A		38 A		37 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	13800 VA	86.23%	11900 VA	**TOTAL CONN. LOAD:** 13800 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 11900 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 38 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 33 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 150 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 117 A

NOTES:

Branch Panel: L8E

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: T-L8E

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	COMPUTER RECEPT. 805B	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	COMPUTER RECEPT. 805B	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	COMPUTER RECEPT. 805B	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	COMPUTER RECEPT. 805B	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	COMPUTER RECEPT. 805B	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11	COMPUTER RECEPT. 805B	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	COMPUTER RECEPT. 805B	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	COMPUTER RECEPT. 805B	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	COMPUTER RECEPT. 805B	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	COMPUTER RECEPT. 805B	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	COMPUTER RECEPT. 805B	20 A	1			0 VA	0 VA			1	20 A	SPARE	22	
	23	COMPUTER RECEPT. 805B	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	COMPUTER RECEPT. 805B	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	COMPUTER RECEPT. 805B	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	COMPUTER RECEPT. 805B	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	
	33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34	
	35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37	SPARE	20 A	1	0 VA	4860 VA								38	
	39	SPACE	--	1			--	4500 VA			3	20 A	L8F	40	
	41	SPACE	--	1					--	4440 VA				42	
			TOTAL LOAD:		4860 VA		4500 VA		4440 VA						
			TOTAL AMPS:		41 A		38 A		37 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	13800 VA	86.23%	11900 VA	**TOTAL CONN. LOAD:** 13800 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 11900 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 38 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 33 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 167 A

NOTES:

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CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AOR
Checked By: AOR/JE

Issued For: 100% CONSTRUCTION
Date: 12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER BAUCOM ENGINEERING & CONSULTING. (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

ELECTRICAL PANEL SCHEDULES

E0.43

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: H8

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: MDC

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	LIGHTING W.	20 A	1	0 VA	0 VA					1	20 A	LIGHTING	2	
	3	LIGHTING S.W.	20 A	1			0 VA	0 VA			1	20 A	LIGHTING N.	4	
	5	LIGHTING S.	20 A	1					0 VA	0 VA	1	20 A	LIGHTING N.W.	6	
	7	LIGHTING S.E.	20 A	1	0 VA	0 VA					1	20 A	LIGHTING	8	
	9	LIGHTING E.	20 A	1			0 VA	0 VA			1	20 A	LIGHTING	10	
	11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12	
	13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14	
	15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16	
	17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18	
	19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA	0 VA			1	20 A	CAN LTS IN LOBBY	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28	
	29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30	
	31	SPACE	--	1	--	--					1	--	SPACE	32	
	33	SPACE	--	1			--	--			1	--	SPACE	34	
	35	SPACE	--	1					--	--	1	--	SPACE	36	
	37	SPACE	--	1	--	--					1	--	SPACE	38	
	39	SPACE	--	1			--	--			1	--	SPACE	40	
	41	SPACE	--	1					--	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 225 A

NOTES:

Branch Panel: L8G

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 150 A

SPD:
FEED-THROUGH LUGS:
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM: T-L8G

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				1356 VA	180 VA					1	20 A	COUNTER REC	2	10
10	3	COMPUTER - 800	20 A	3			1356 VA	1200 VA			1	20 A	MICROWAVE	4	10
	5								1356 VA	0 VA	2	25 A	SPARE	6	
10	7	COMPUTER - 800	20 A	1	1356 VA	0 VA								8	7
10	9	COMPUTER - 800	20 A	1			1356 VA	580 VA			2	15 A	FCU-08-008	10	3
	11								1356 VA	580 VA				12	
10	13	COMPUTER - 800	20 A	3	1356 VA	0 VA					1	20 A	SPARE	14	
	15						1356 VA	0 VA			1	20 A	SPARE	16	
10	17	COMPUTER - 800	20 A	1					1356 VA	1356 VA				18	
10	19	COMPUTER - 800	20 A	1	1356 VA	1356 VA					3	20 A	COMPUTER - 800 & FRIDGE/DISPOSAL	20	10
10	21	COMPUTER - 800	20 A	1			1356 VA	1356 VA						22	
10	23	GENERAL RECEPTACLE	20 A	1					180 VA	0 VA	1	20 A	SPARE	24	
10	25	COMPUTER - 800	20 A	1	1356 VA	0 VA					1	20 A	SPARE	26	
10	27	COMPUTER - 800	20 A	1			1356 VA	0 VA			1	20 A	SPARE	28	
10	29	COMPUTER - 800	20 A	1					1356 VA	0 VA	1	20 A	SPARE	30	
10	31	COMPUTER - 800	20 A	1	1356 VA	0 VA					1	20 A	SPARE	32	
10	33	COMPUTER - 800	20 A	1			1356 VA	0 VA			1	20 A	SPARE	34	
10	35	COMPUTER - 800	20 A	1					1356 VA	1407 VA	1	20 A	DISPOSAL	36	10
10	37	COMPUTER - 800	20 A	1	1356 VA	1680 VA								38	
10	39	COMPUTER - 800	20 A	1			1356 VA	1680 VA			3	20 A	CU-09-008	40	4
10	41	COMPUTER - 800	20 A	1					1356 VA	1680 VA				42	
			TOTAL LOAD:		12708 VA		14308 VA		13339 VA						
			TOTAL AMPS:		105 A		120 A		112 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	34155 VA	64.64%	22078 VA	**TOTAL CONN. LOAD:** 40355 VA
MOTOR	6200 VA	120.32%	7460 VA	**TOTAL EST. DEMAND:** 29538 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 112 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 82 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 150 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 68 A

NOTES:

Branch Panel: L8A

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	COPIER IN OPEN SPACE	20 A	1	0 VA	0 VA					1	20 A	TRACK LIGHTS	2	
	3	RECEPT. RM 810	20 A	1			0 VA	0 VA			1	20 A	TRACK LIGHTS	4	
	5	TRACK LIGHTS RM 810	20 A	1					0 VA	0 VA	1	20 A	TRACK LIGHTS	6	
	7	TRACK LIGHTS RM 820	20 A	1	0 VA	0 VA					1	20 A	WIREMOLD RECEPTACLES	8	
	9	RESTROOM LIGHTS	20 A	1			0 VA	0 VA			1	20 A	WIREMOLD RECEPTACLES	10	
	11	TRACK LIGHTS RM 808	20 A	1					0 VA	0 VA	1	20 A	WIREMOLD RECEPTACLES	12	
	13	TRACK LIGHTS RM 815	20 A	1	0 VA	0 VA					1	20 A	CAN LIGHTS IN HALL	14	
	15	TRACK LIGHTS RM 821	20 A	1			0 VA	0 VA			1	20 A	CAN LIGHTS IN STUDENT LOUNGE	16	
	17	TRACK LIGHTS RM 809	20 A	1					0 VA	0 VA	1	20 A	CAN LIGHTS IN RM 831	18	
	19	TRACK LIGHTS RM 806	20 A	1	0 VA	0 VA					1	20 A	WIREMOLD RECEPTACLES	20	
	21	HALL 816 DISPOSAL	20 A	1			0 VA	0 VA			1	20 A	CAN LTS IN LOBBY	22	
	23	HALL GFCI RECEPT.	20 A	1					0 VA	0 VA	1	20 A	TRACK LIGHTS	24	
	25	TRACK LIGHTS RM 801	20 A	1	0 VA	0 VA					1	20 A	GFCI IN DARK RM 817	26	
	27	LIGHTS IN RM 812	20 A	1			0 VA	0 VA			1	20 A	LIGHTS IN STUDENT/840 FL. RECEPT.	28	
	29	LIGHTS IN STUDIO SPACE	20 A	1					0 VA	0 VA	1	20 A	TRACK LIGHTS RM 802	30	
	31	DARK RM LIGHTS	20 A	1	0 VA	0 VA					1	20 A	LIGHTS IN HALLWAY	32	
	33	LIGHTS IN CONTROL ROOM	20 A	1			0 VA	0 VA			1	20 A	CAN LIGHTS	34	
	35	STUDENT LOUNGE RECEPT.	20 A	1					0 VA	0 VA	1	20 A	TRACK LIGHTS RM 821	36	
	37	STUDENT LOUNGE RECEPT.	20 A	1	0 VA	0 VA					1	20 A	TRACK LIGHTS	38	
	39	CAN LIGHTS	20 A	1			0 VA	0 VA			2	20 A	WATER HEATER	40	
	41	CAN LIGHTS	20 A	1					0 VA	0 VA				42	
	43	SPARE	20 A	1	0 VA	--					1	--	SPACE	44	
	45	SPARE	20 A	1			0 VA	--			1	--	SPACE	46	
	47	SPARE	20 A	1					0 VA	--	1	--	SPACE	48	
	49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50	
	51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52	
	53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54	
	55	SPARE	20 A	1	0 VA	--					1	--	SPACE	56	
	57	SPARE	20 A	1			0 VA	--			1	--	SPACE	58	
	59	SPARE	20 A	1					0 VA					60	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 200 A

NOTES:

Branch Panel: L8B

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
A/C RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	REFRIGERATOR	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 821	2	
	3	MICROWAVE	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 820	4	
	5	A/C GFCI RECEPT.	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 815	6	
	7	DISPOSAL	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 808	8	
	9	RESTROOM RECEPT.	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 808	10	
	11	RECEPT. RM 838-841	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 809	12	
	13	CONF RM FLOOR RECEPT. 840	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 810	14	
	15	RECEPT. RM 825	20 A	1			0 VA	0 VA			1	20 A	RECEPT. 801, 806	16	
	17	FURNITURE RECEPT.	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 02	18	
	19	FURNITURE RECEPT.	20 A	1	0 VA	0 VA					1	20 A	LOBBY RECEPT.	20	
	21	FURNITURE RECEPT.	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 818	22	
	23	RECEPT. RM 829	20 A	1					0 VA	0 VA	1	20 A	WIREMOLD RM 804,840 FLOOR RECEPT.	24	
	25	RECEPT. SEMINAR RM 831	20 A	1	0 VA	0 VA					1	20 A	WIREMOLD RM 804	26	
	27	CK LIGHTS	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 812	28	
	29	FIRE ALARM	20 A	1					0 VA	0 VA	1	20 A	RECEPT. RM 812	30	
	31	RECEPT. RM 823, 840	20 A	1	0 VA	0 VA					1	20 A	RECEPT. RM 813	32	
	33	STUDENT LOUNGE RECEPT.	20 A	1			0 VA	0 VA			1	20 A	RECEPT. RM 813	34	
	35	CONFERENCE RM FLOOR RECEPT.	20 A	1					0 VA	0 VA	1	20 A	SPARE	36	
	37	EXHAUST MOTORS	20 A	1	0 VA	0 VA								38	
	39	SPARE	40 A	2			0 VA	0 VA			3	100 A	PANEL L8B1	40	
	41								0 VA	0 VA				42	
	43	SPARE	20 A	1	0 VA	--					1	--	SPACE	44	
	45	SPARE	20 A	1			0 VA	--			1	--	SPACE	46	
	47	SPARE	20 A	1					0 VA	--	1	--	SPACE	48	
	49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50	
	51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52	
	53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54	
	55	SPARE	20 A	1	0 VA	--					1	--	SPACE	56	
	57	SPARE	20 A	1			0 VA	--			1	--	SPACE	58	
	59	SPARE	20 A	1					0 VA	--	1	--	SPACE	60	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:** 0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:** 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:** 0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:** 0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:** 200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:** 200 A

NOTES:

SBEC
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3900 S. Wadsworth Blvd.
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80235
303-986-8280 Voice
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SBEC # 210032

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2 Kalamath Street
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CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #:	210032
Scale:	
Drawn By:	JR
Designed By:	JR/AQR
Checked By:	AQR/JE

Issued For: 100% CONSTRUCTION — **Date:** 12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

ELECTRICAL PANEL SCHEDULES

E0.44

Branch Panel: PL

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: T-1

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	AIR COMPRESSOR	20 A	1	0 VA	0 VA					1	20 A	SIEMENS CONTROL PANEL	2	
	3	HEAT TRACE TOWER	20 A	1			0 VA	0 VA			1	20 A	UNIT HEATER/FAN	4	
	5	CT CIRCULATING PUMP	20 A	1					0 VA	0 VA	1	20 A	CONTROL PANEL	6	
	7	HOT WATER PUMP	20 A	1	0 VA	0 VA					1	20 A	ROOF RECEPT.	8	
	9	SPARE	20 A	1			0 VA	0 VA			1	20 A	REC EQUIPMENT ROOM	10	
	11	LIGHT AIR PLENUM	20 A	1					0 VA	0 VA	1	20 A	PLENUM LIGHTS	12	
	13	CU SIGN	20 A	1	0 VA	0 VA					1	20 A	PLENUM SMOKE DETECTOR	14	
	15	CU SIGN	20 A	1			0 VA	0 VA			1	20 A	PLENUM OUTLET	16	
	17	CONTROL CHILLER 1	20 A	1					0 VA	0 VA	1	20 A	CU SIGN 14TH STREET	18	
	19	SPARE	30 A	1	0 VA	0 VA					1	25 A	MECH RM EXHAUST FAN	20	
	21	IG OUTLET MECH RM	20 A	1			0 VA	0 VA			1	20 A	FCV-05,09	22	
	23	IG OUTLET MECH RM	20 A	1					0 VA	0 VA	1	20 A	REFRIGERENT PANELS	24	
	25	IG OUTLET COMM PANEL	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	TCV-06	20 A	1					0 VA	0 VA	1	20 A	FCV-1,2,7,8	30	
	31	SPARE	20 A	1	0 VA	--					1	--	SPACE	32	
	33	SPARE	20 A	1			0 VA	--			1	--	SPACE	34	
	35	SPARE	20 A	1					0 VA	--	1	--	SPACE	36	
	37	SPARE	20 A	1	0 VA	--					1	--	SPACE	38	
	39	SPARE	20 A	1			0 VA	--			1	--	SPACE	40	
	41	SPARE	20 A	1					0 VA	--	1	--	SPACE	42	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	70 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	70 A

NOTES:

Branch Panel: HPH

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 250 A
AIC RATING: 42000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: MDC

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1						12600 VA	4860 VA						2	
LSI	3	T-L8C	110 A	3					12600 VA	4500 VA	3	110 A	T-L8E	4	LSI
	5													6	
	7				0 VA	12708 VA								8	
	9	SPARE	30 A	3					0 VA	14308 VA	3	70 A	T-L8G	10	
	11													12	
	13				0 VA	0 VA					1	20 A	SPARE	14	
	15	SPARE	45 A	3					0 VA	0 VA	1	20 A	SPARE	16	
	17										1	20 A	SPARE	18	
	19				0 VA	0 VA					1	20 A	SPARE	20	
	21	SPARE	100 A	3					0 VA	0 VA	1	20 A	SPARE	22	
	23										1	20 A	SPARE	24	
	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26	
	27	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	28	
	29	SPARE	20 A	1							1	20 A	SPARE	30	
	31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32	
	33	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	34	
	35	SPARE	20 A	1							1	20 A	SPARE	36	
	37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38	
	39	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	40	
	41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42	
			TOTAL LOAD:		30168 VA		31408 VA		28970 VA						
			TOTAL AMPS:		110 A		114 A		105 A						

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	84355 VA	55.93%	47178 VA	**TOTAL CONN. LOAD:**	90555 VA
MOTOR	6200 VA	120.32%	7460 VA	**TOTAL EST. DEMAND:**	54638 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	109 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	66 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	225 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	159 A

NOTES:

Branch Panel: ELHP

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB9

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	EXISTING EQUIPMENT	20 A	1	0 VA	0 VA								2	
	3	EXISTING EQUIPMENT	20 A	1			0 VA	0 VA			3	70 A	ELEVATOR #1	4	
	5	SPACE	--	1					--	0 VA				6	
	7				0 VA	0 VA								8	
	9	SPARE	70 A	3			0 VA	0 VA			3	70 A	ELEVATOR #2	10	
	11								0 VA	0 VA				12	
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	0 VA
MOTOR	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	0 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN. CURRENT:**	0 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND CURRENT:**	0 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	200 A
(E)	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	200 A

NOTES:

DESIGNATION: DB9

SWITCHBOARD OR DISTR. PANELBOARD — NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D I-LINE
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 800 A
AIC RATING: 65000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: MDC

ADDITIONAL LOADS AND OTHER REQUIREMENTS MAY BE SHOWN ON THE ASSOCIATED ONE-LINE DIAGRAM.

CUSTOMIZATIONS:

CKT	LOAD DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	Load	REMARKS
1	ELHP	3	250 A	225 A	0 VA	
2	HPHA	3	250 A	225 A	72251 VA	
3	PH	3	250 A	100 A	0 VA	
4	SPARE	3	250 A	100 A	0 VA	
5	SPARE	3	250 A	225 A	0 VA	
6	SPARE	3	250 A	250 A	0 VA	
7	SPARE	3	400 A	400 A	0 VA	
8	SPACE	3	--	--	--	
9	SPACE	3	--	--	--	
10	SPACE	3	--	--	--	
11	SPACE	3	--	--	--	
12	SPACE	3	--	--	--	
13	SPACE	3	--	--	--	
14	SPACE	3	--	--	--	
15	SPACE	3	--	--	--	
16	SPACE	3	--	--	--	
17	SPACE	3	--	--	--	
18	SPACE	3	--	--	--	
19	SPACE	3	--	--	--	
20	SPACE	3	--	--	--	
21	SPACE	3	--	--	--	
22						
23						
24						
25						
26						
27						
28						
29						
30						
				TOTAL CONN. LOAD:	72251 VA	
				TOTAL AMPS	87 A	

LEGEND:
"-" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	0 VA	0.00%	0 VA		
RECEPTACLE	0 VA	0.00%	0 VA	**TOTAL CONN. LOAD:**	72251 VA
MOTOR	61077 VA	106.29%	64920 VA	**TOTAL EST. DEMAND:**	76094 VA
EQUIPMENT	0 VA	0.00%	0 VA	**TOTAL CONN.:**	87 A
HEATING	0 VA	0.00%	0 VA	**TOTAL EST. DEMAND:**	92 A
KITCHEN	0 VA	0.00%	0 VA	**CAPACITY:**	800 A
EXISTING LOAD	0 VA	0.00%	0 VA	**SPARE CAPACITY:**	708 A

NOTES:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
THIS WORK SHOWN AS EXISTING CONDITIONS WAS TAKEN FROM OWNER FURNISHED DRAWINGS BY SHAFFER. BAUCOM ENGINEERING & CONSULTING, (SBEC) IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THE DOCUMENTS.

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SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AGR
Checked By: AOR/JE

Issued For: — **Date:**
100% CONSTRUCTION — 12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.45

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

Branch Panel: LPHA

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NQ
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 100 A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R
SUPPLY FROM:

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
3	1	FCU-08-001	15 A	2	580 VA	0 VA					1	20 A	SPARE	2	
	3						580 VA	0 VA			1	20 A	SPARE	4	
10	5	FCU-2 & ACCU-2	25 A	2					1872 VA	0 VA	1	20 A	SPARE	6	
	7				1872 VA	0 VA					1	20 A	SPARE	8	
3	9	FCU-08-003	15 A	2			955 VA	0 VA			1	20 A	SPARE	10	
	11								955 VA	0 VA	1	20 A	SPARE	12	
3	13	FCU-08-005	15 A	2	955 VA	0 VA					1	20 A	SPARE	14	
	15						955 VA	0 VA			1	20 A	SPARE	16	
3	17	FCU-08-007	15 A	2					955 VA	0 VA	1	20 A	SPARE	18	
	19				955 VA	0 VA					1	20 A	SPARE	20	
10	21	ROOF RECP	20 A	1			540 VA	0 VA			1	20 A	SPARE	22	
	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24	
	25	SPARE	20 A	1	0 VA	--					1	--	SPACE	26	
	27	SPARE	20 A	1			0 VA	--			1	--	SPACE	28	
	29	SPARE	20 A	1					0 VA	--	1	--	SPACE	30	
			TOTAL LOAD:		4362 VA		3030 VA		3782 VA						
			TOTAL AMPS:		37 A		25 A		32 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	540 VA	100.00%	540 VA	TOTAL CONN. LOAD: 11174 VA
MOTOR	10634 VA	108.80%	11570 VA	TOTAL EST. DEMAND: 12110 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT: 31 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT: 34 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 83 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY: 49 A

NOTES:

Branch Panel: HPHA

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 35000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 100A

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R
SUPPLY FROM: DB9

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1				2327 VA	3725 VA								2	
3	3	CU-09-001	15 A	3			2327 VA	3725 VA			3	50 A	30Kva TRANSFORMER - LPHA	4	3
	5								2327 VA	3725 VA				6	
	7				2327 VA	943 VA								8	
3	9	CU-09-003	15 A	3			2327 VA	943 VA			3	15 A	FCU-08-006	10	3
	11								2327 VA	943 VA				12	
	13				2936 VA	--					1	--	SPACE	14	
3	15	CU-09-005	15 A	3			2936 VA	--			1	--	SPACE	16	
	17								2936 VA	--	1	--	SPACE	18	
	19				5124 VA	--					1	--	SPACE	20	
3	21	CU-09-006	25 A	3			5124 VA	--			1	--	SPACE	22	
	23								5124 VA	--	1	--	SPACE	24	
	25				2936 VA	--					1	--	SPACE	26	
3	27	CU-09-007	15 A	3			2936 VA	--			1	--	SPACE	28	
	29								2936 VA	--	1	--	SPACE	30	
	31				2936 VA	--					1	--	SPACE	32	
3	33	CU-09-004	25 A	3			2936 VA	--			1	--	SPACE	34	
	35								2936 VA	--	1	--	SPACE	36	
	37				830 VA	--					1	--	SPACE	38	
3	39	FCU-08-004	15 A	3			830 VA	--			1	--	SPACE	40	
	41								830 VA	--	1	--	SPACE	42	
			TOTAL LOAD:		24084 VA		24084 VA		24084 VA						
			TOTAL AMPS:		87 A		87 A		87 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 72251 VA
MOTOR	61077 VA	106.25%	64920 VA	TOTAL EST. DEMAND: 76094 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT: 87 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT: 92 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 100 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY: 8 A

NOTES:

DESIGNATION: DBP1

SWITCHBOARD OR DISTR. PANELBOARD — NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D I-LINE
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
AIC RATING: 10000 A

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 400 A

SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA-1
SUPPLY FROM: T-ANNEX

ADDITIONAL LOADS AND OTHER REQUIREMENTS MAY BE SHOWN ON THE ASSOCIATED ONE-LINE DIAGRAM.

CUSTOMIZATIONS:

CKT	LOAD DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	Load	REMARKS
1	L1BA	3	225 A	150 A	0 VA	
2	L1BB	3	225 A	150 A	0 VA	
3	ANNEX	3	225 A	100 A	0 VA	
4	SPARE	3	225 A	100 A	0 VA	
5	SPARE	3	225 A	150 A	0 VA	
6	SPARE	3	225 A	225 A	0 VA	
7	L1BC	3	225 A	225 A	0 VA	
8	SPACE	3	--	--	--	
9	SPACE	3	--	--	--	
10	SPACE	3	--	--	--	
11	SPACE	3	--	--	--	
12	SPACE	3	--	--	--	
13	SPACE	3	--	--	--	
14	SPACE	3	--	--	--	
15	SPACE	3	--	--	--	
16	SPACE	3	--	--	--	
17	SPACE	3	--	--	--	
18	SPACE	3	--	--	--	
19	SPACE	3	--	--	--	
20	SPACE	3	--	--	--	
21	SPACE	3	--	--	--	
22	SPACE	3	--	--	--	
23	SPACE	3	--	--	--	
24	SPACE	3	--	--	--	
25	SPACE	3	--	--	--	
26	SPACE	3	--	--	--	
27	SPACE	3	--	--	--	
28	SPACE	3	--	--	--	
29	SPACE	3	--	--	--	
30	SPACE	3	--	--	--	
31	SPACE	3	--	--	--	
32	SPACE	3	--	--	--	
33	SPACE	3	--	--	--	
34						
35						
36						
37						
38						
39						
40						
				TOTAL CONN. LOAD:	0 VA	
				TOTAL AMPS	0 A	

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. : 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 313 A
EXISTING LOAD	0 VA	0.00%	0 VA	SPARE CAPACITY: 313 A

NOTES:

Branch Panel: PH

NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D NF
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 225 A
AIC RATING: 42000 A

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:

SPD:
FEED-THROUGH LUGS: X
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM: DB9

CUSTOMIZATIONS:

NOTES	CKT	LOAD DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	LOAD DESCRIPTION	CKT	NOTES
	1	UNIT HEATER	20 A	1	0 VA	0 VA					1	20 A	SPARE	2	
	3	ELEVATOR RM LIGHTS	20 A	1			0 VA	0 VA			1	20 A	SPARE	4	
	5	PENTHOUSE LIGHTS	20 A	1					0 VA	0 VA	1	20 A	SPARE	6	
	7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8	
	9	TEST WIRE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10	
	11								0 VA	--	1	--	SPACE	12	
	13	AIR COMPRESSOR	20 A	3	0 VA	--					1	--	SPACE	14	
	15						0 VA	--			1	--	SPACE	16	
	17								0 VA	0 VA				18	
	19	CHILLER OIL PUMP #2	15 A	3	0 VA	0 VA					3	20 A	CHILLER OIL PUMP #1	20	
	21						0 VA	0 VA						22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
			TOTAL LOAD:		0 VA		0 VA		0 VA						
			TOTAL AMPS:		0 A		0 A		0 A						

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP - EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT: 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND CURRENT: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 100 A
(E)	0 VA	0.00%	0 VA	SPARE CAPACITY: 100 A

NOTES:

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
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SBEC Project #:	210032
Scale:	
Drawn By:	JR
Designed By:	JR/AGR
Checked By:	AGR/JE

Issued For:	**Date:**
100% CONSTRUCTION	12/01/2023

ELECTRICAL PANEL SCHEDULES

E0.46

THE ORIGINAL OF THIS DRAWING IS 36" X 42". IF THIS COPY IS ANY OTHER SIZE, IT HAS EITHER BEEN REDUCED OR ENLARGED.

DESIGNATION: DBH4

SWITCHBOARD OR DISTR. PANELBOARD — NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D I-LINE
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 400 A
A/C RATING: 35000 A
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB:
SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM:

ADDITIONAL LOADS AND OTHER REQUIREMENTS MAY BE SHOWN ON THE ASSOCIATED ONE-LINE DIAGRAM.

CUSTOMIZATIONS:

CKT	LOAD DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	Load	REMARKS
1	H4	3	400 A	400 A	0 VA	LSIG
2	T-L4C	3	400 A	45 A	0 VA	
3	T-4D	3	125 A	110 A	0 VA	LSI
4	SPACE	1	--	--	--	
5	SPACE	1	--	--	--	
6	SPACE	1	--	--	--	
7	SPACE	1	--	--	--	
8	SPACE	1	--	--	--	
9	SPACE	1	--	--	--	
10	SPACE	1	--	--	--	
11	SPACE	1	--	--	--	
12	SPACE	1	--	--	--	
13	SPACE	1	--	--	--	
14	SPACE	1	--	--	--	
15	SPACE	1	--	--	--	
16	SPACE	1	--	--	--	
17	SPACE	1	--	--	--	
18	SPACE	1	--	--	--	
19	SPACE	1	--	--	--	
20	SPACE	1	--	--	--	
				TOTAL CONN. LOAD:	0 VA	
				TOTAL AMPS	0 A	

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP – EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN.: 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 400 A
EXISTING LOAD	0 VA	0.00%	0 VA	SPARE CAPACITY: 400 A

NOTES:

DESIGNATION: DB1A

SWITCHBOARD OR DISTR. PANELBOARD — NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D I-LINE
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 600 A
A/C RATING: 10000 A
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 500 A
SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM:

ADDITIONAL LOADS AND OTHER REQUIREMENTS MAY BE SHOWN ON THE ASSOCIATED ONE-LINE DIAGRAM.

CUSTOMIZATIONS:

CKT	LOAD DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	Load	REMARKS
1	LP1-1	3	400 A	20 A	0 VA	
2	L1A	3	400 A	20 A	0 VA	
3	SPACE	1	--	--	--	
4	SPACE	1	--	--	--	
5	SPACE	1	--	--	--	
6	SPACE	1	--	--	--	
7	SPACE	1	--	--	--	
8	SPACE	1	--	--	--	
9	SPACE	1	--	--	--	
10	SPACE	1	--	--	--	
11	SPACE	1	--	--	--	
12	SPACE	1	--	--	--	
13	SPACE	1	--	--	--	
14	SPACE	1	--	--	--	
15	SPACE	1	--	--	--	
16	SPACE	1	--	--	--	
17	SPACE	1	--	--	--	
18	SPACE	1	--	--	--	
19	SPACE	1	--	--	--	
20	SPACE	1	--	--	--	
				TOTAL CONN. LOAD:	0 VA	
				TOTAL AMPS	0 A	

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP – EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN.: 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 416 A
EXISTING LOAD	0 VA	0.00%	0 VA	SPARE CAPACITY: 416 A

NOTES:

DESIGNATION: DBL4

SWITCHBOARD OR DISTR. PANELBOARD — NORMAL POWER

MANUFACTURER AND TYPE: SQUARE D I-LINE
INSTALLED: Electrical Upgrades
DEMOLISHED: None
BUS RATING: 600 A
A/C RATING: 10000 A
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
GROUND: X
MAIN CB: 500 A
SPD:
FEED-THROUGH LUGS:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
SUPPLY FROM:

ADDITIONAL LOADS AND OTHER REQUIREMENTS MAY BE SHOWN ON THE ASSOCIATED ONE-LINE DIAGRAM.

CUSTOMIZATIONS:

CKT	LOAD DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	Load	REMARKS
1	L4B1	3	400 A	200 A	0 VA	
2	L4B2	3	400 A	100 A	0 VA	
3	L4B	3	400 A	200 A	0 VA	
4	L4A	3	400 A	20 A	0 VA	
5	L3B	3	400 A	20 A	0 VA	
6	L3A	3	400 A	200 A	0 VA	
7	L2B	3	400 A	20 A	0 VA	
8	L2A	3	400 A	200 A	0 VA	
9	SPACE	1	--	--	--	
10	SPACE	1	--	--	--	
11	SPACE	1	--	--	--	
12	SPACE	1	--	--	--	
13	SPACE	1	--	--	--	
14	SPACE	1	--	--	--	
15	SPACE	1	--	--	--	
16	SPACE	1	--	--	--	
17	SPACE	1	--	--	--	
18	SPACE	1	--	--	--	
19	SPACE	1	--	--	--	
20	SPACE	1	--	--	--	
				TOTAL CONN. LOAD:	0 VA	
				TOTAL AMPS	0 A	

LEGEND:
"--" INDICATED FULLY BUSSED SPACE TO BE PROVIDED
HTG - HEATING
EQP – EQUIPMENT
RCPT - RECEPTACLE
LTG - LIGHTING
(E) - EXISTING LOAD
MTR - MOTOR
KTN - KITCHEN APPLIANCE

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLE	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 0 VA
MOTOR	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 VA
EQUIPMENT	0 VA	0.00%	0 VA	TOTAL CONN.: 0 A
HEATING	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 0 A
KITCHEN	0 VA	0.00%	0 VA	CAPACITY: 416 A
EXISTING LOAD	0 VA	0.00%	0 VA	SPARE CAPACITY: 416 A

NOTES:

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dcec@dcengr.com E-mail
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CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #: 210032
Scale:
Drawn By: JR
Designed By: JR/AGR
Checked By: AOR/JE

Issued For: — **Date:**
100% CONSTRUCTION — 12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

NOTE:
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ELECTRICAL PANEL SCHEDULES

E0.47

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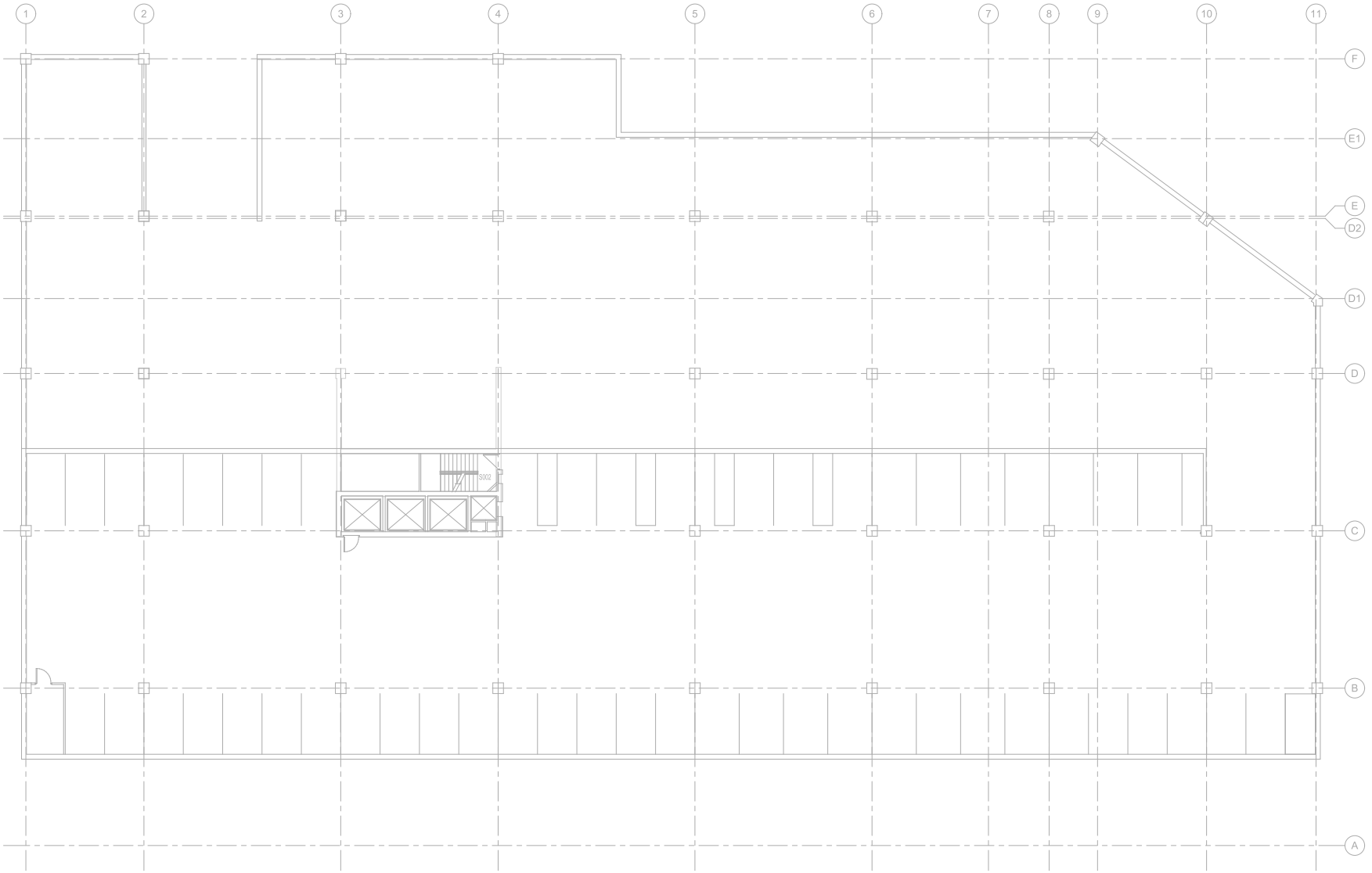

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

1 OVERALL ELECTRICAL PLAN - LEVEL P2
SCALE: 1/8" = 1'-0"

NORTH

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OVERALL ELECTRICAL PLAN - LEVEL P2

E2.00

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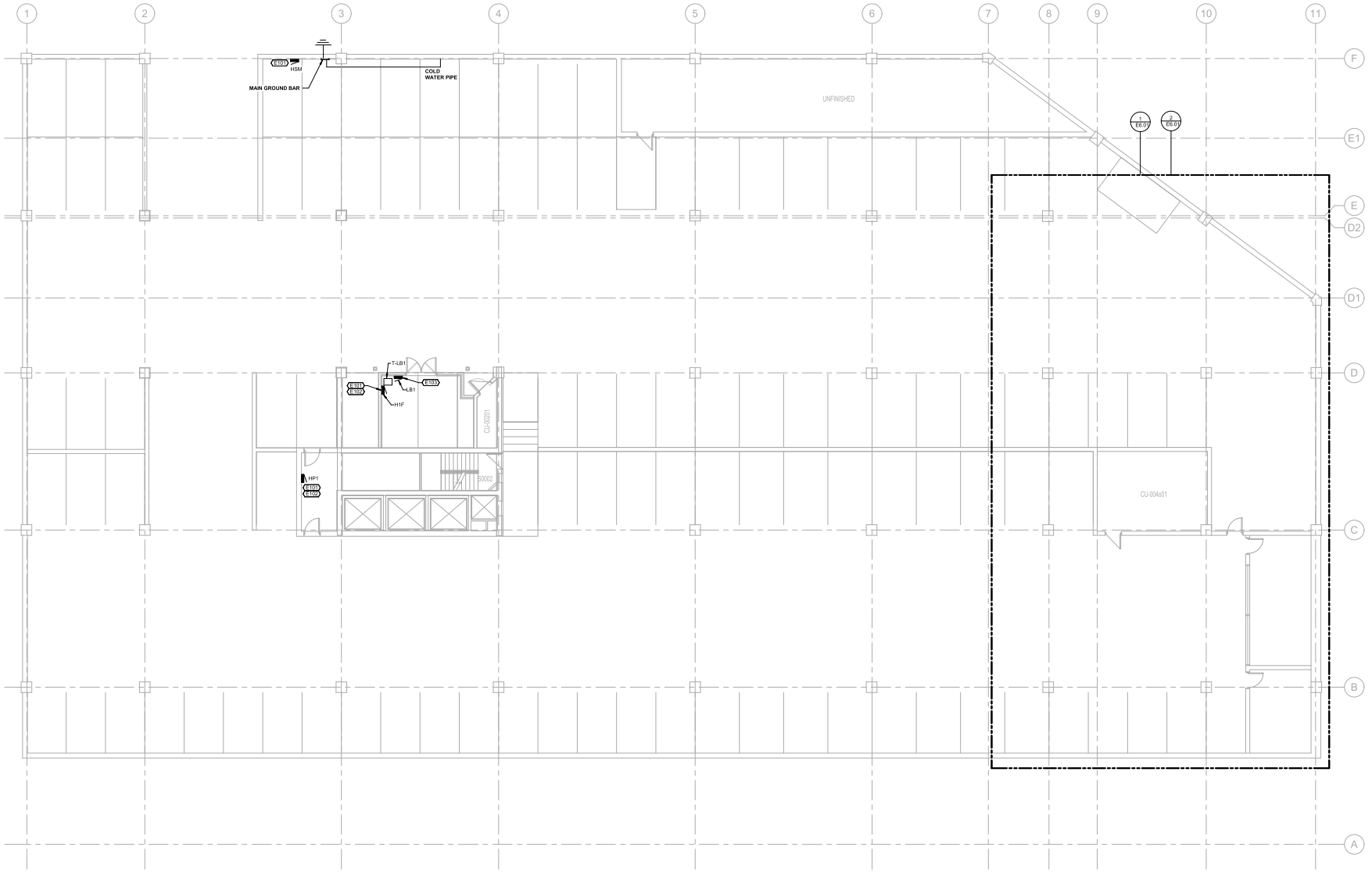

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.
E103	NEW PANELBOARD THIS PROJECT. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

1 OVERALL ELECTRICAL PLAN - LEVEL P1
SCALE: 1/8" = 1'-0"

NORTH

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SBEC Project #:	210032
Scale:	As indicated
Drawn By:	JR
Designed By:	JR/AOR
Checked By:	AOR/JE

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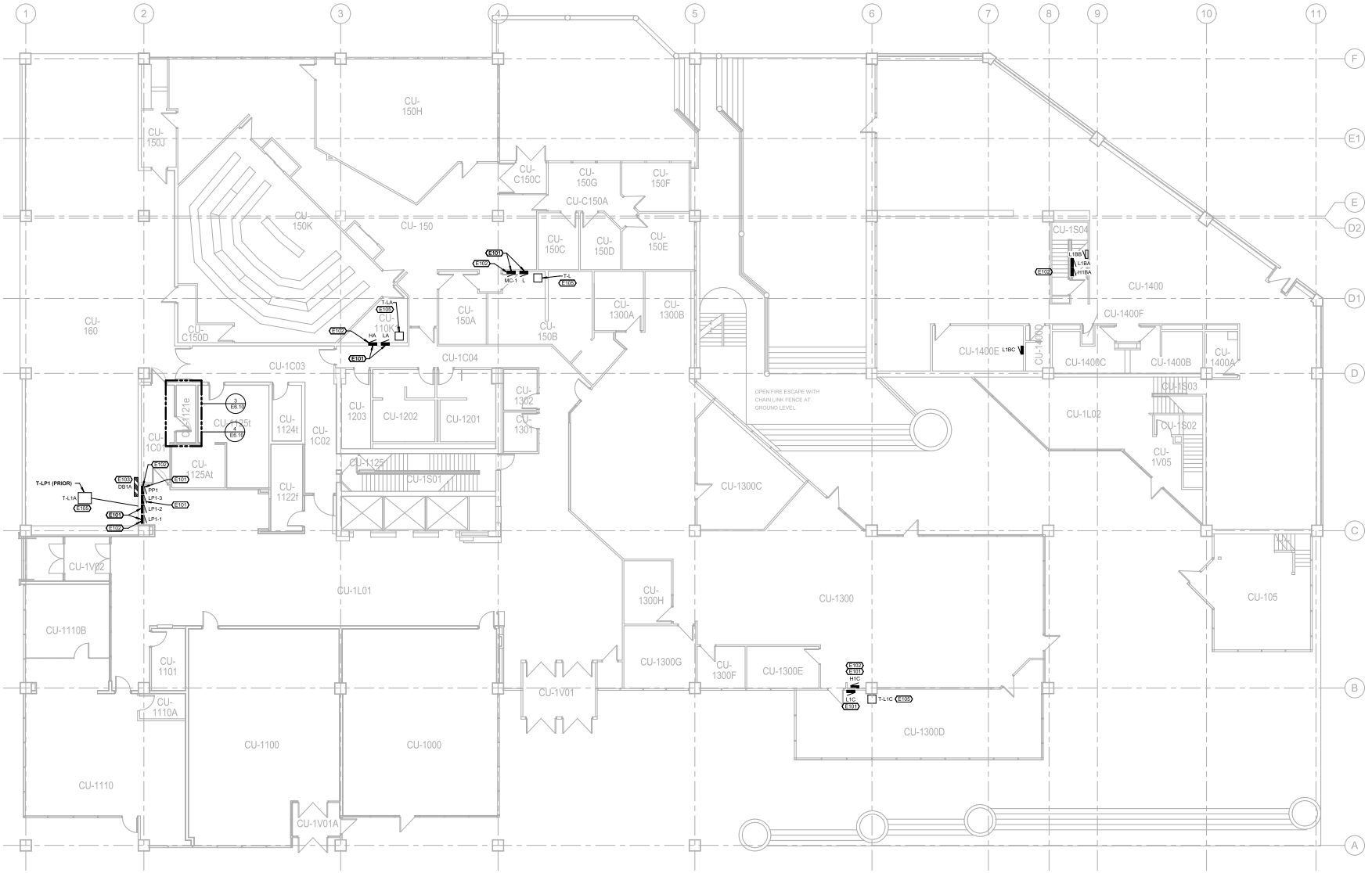
OVERALL ELECTRICAL PLAN - LEVEL P1

E2.01



GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.
E103	NEW PANELBOARD THIS PROJECT. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
E105	DISCONNECT AND REMOVE EXISTING TRANSFORMER. PROVIDE NEW TRANSFORMER. CONNECT TO NEW GROUND BAR AS REQUIRED. REFER TO ONE-LINE DIAGRAM FOR TRANSFORMER SIZE.

1 OVERALL ELECTRICAL PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

NORTH

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OVERALL ELECTRICAL PLAN - LEVEL 1

E2.10

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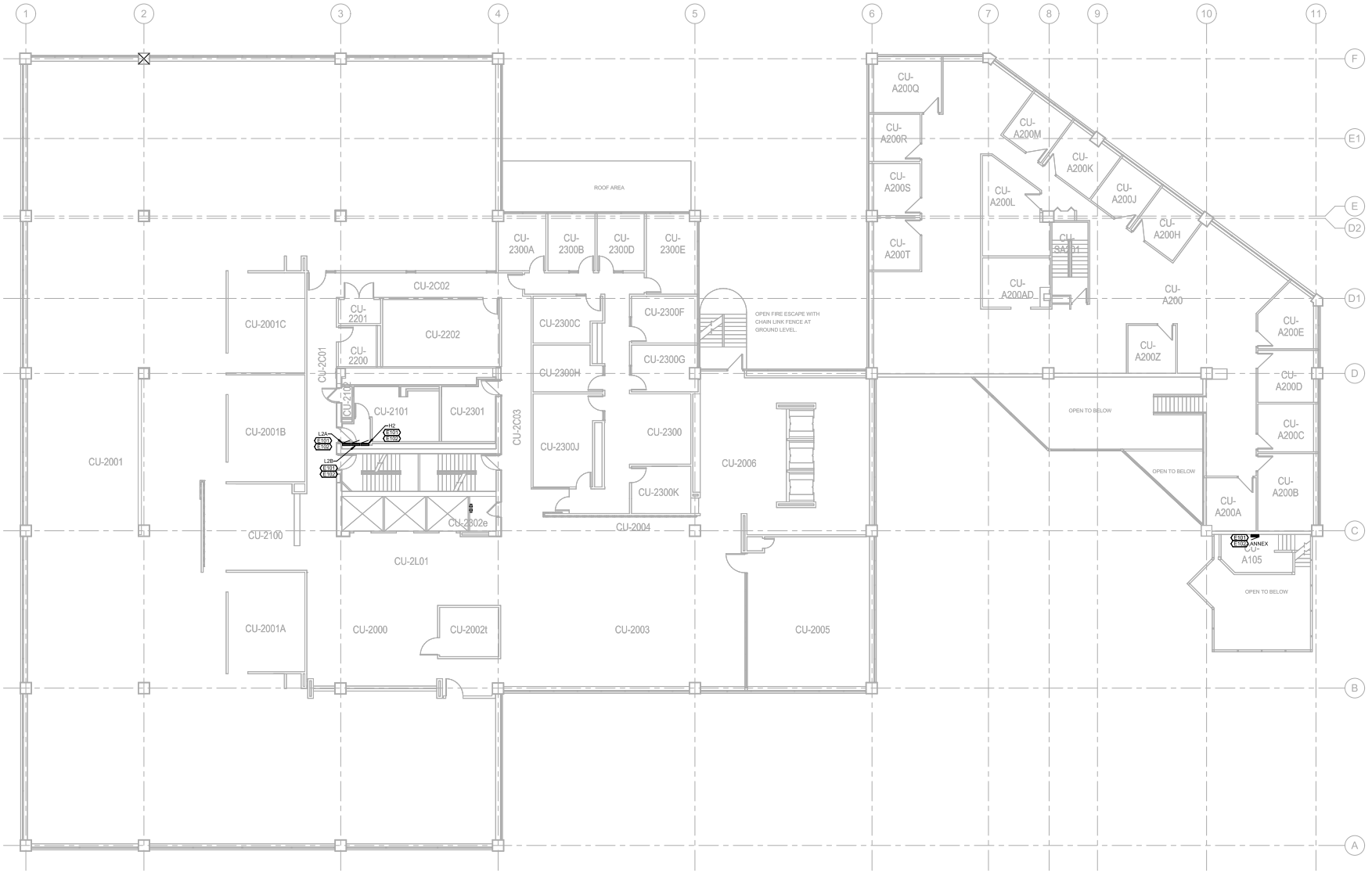

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.

1 OVERALL ELECTRICAL PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"

NORTH

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OVERALL ELECTRICAL PLAN - LEVEL 2

E2.20

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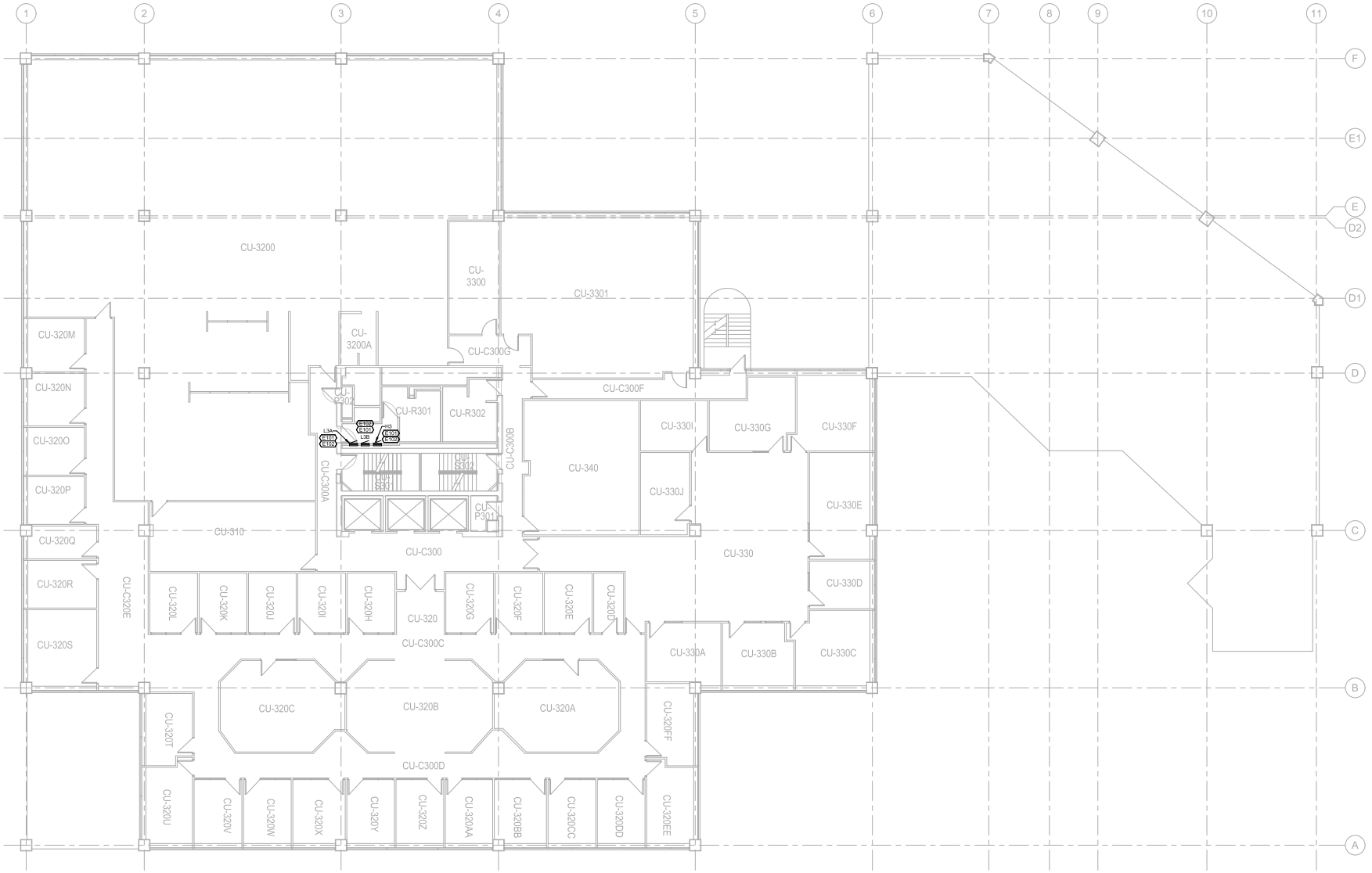

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.

1 OVERALL ELECTRICAL PLAN - LEVEL 3
SCALE: 1/8" = 1'-0"

NORTH

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SBEC Project #:	210032
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OVERALL ELECTRICAL PLAN - LEVEL 3

E2.30

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1 OVERALL ELECTRICAL PLAN - LEVEL 4
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.
E103	NEW PANELBOARD THIS PROJECT. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
E104	PROVIDE NEW GROUNDBAR FOR TRANSFORMER GROUNDING ELECTRODE.
E105	DISCONNECT AND REMOVE EXISTING TRANSFORMER. PROVIDE NEW TRANSFORMER. CONNECT TO NEW GROUND BAR AS REQUIRED. REFER TO ONE-LINE DIAGRAM FOR TRANSFORMER SIZE.

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OVERALL ELECTRICAL PLAN - LEVEL 4

E2.40

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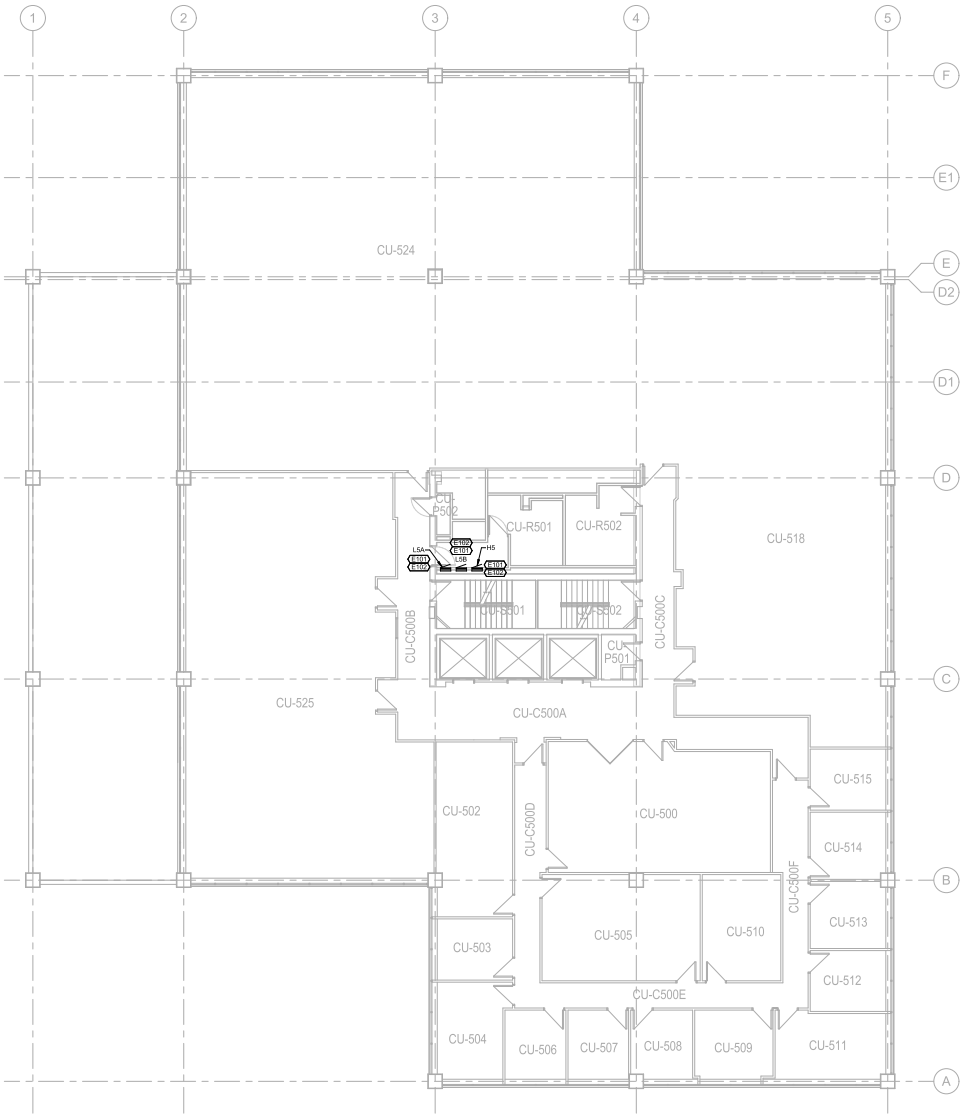

1 OVERALL ELECTRICAL PLAN - LEVEL 5
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

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E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.

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OVERALL ELECTRICAL PLAN - LEVEL 5

E2.50

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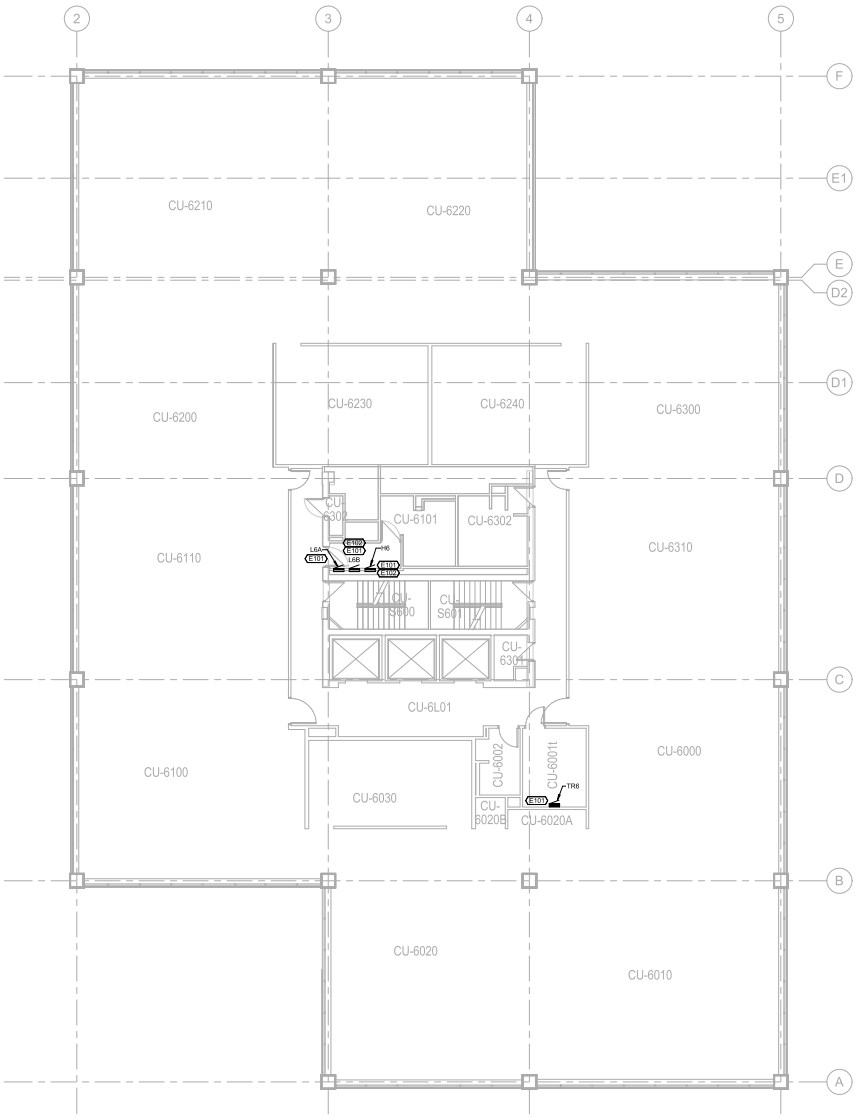

1 OVERALL ELECTRICAL PLAN - LEVEL 6
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

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E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.

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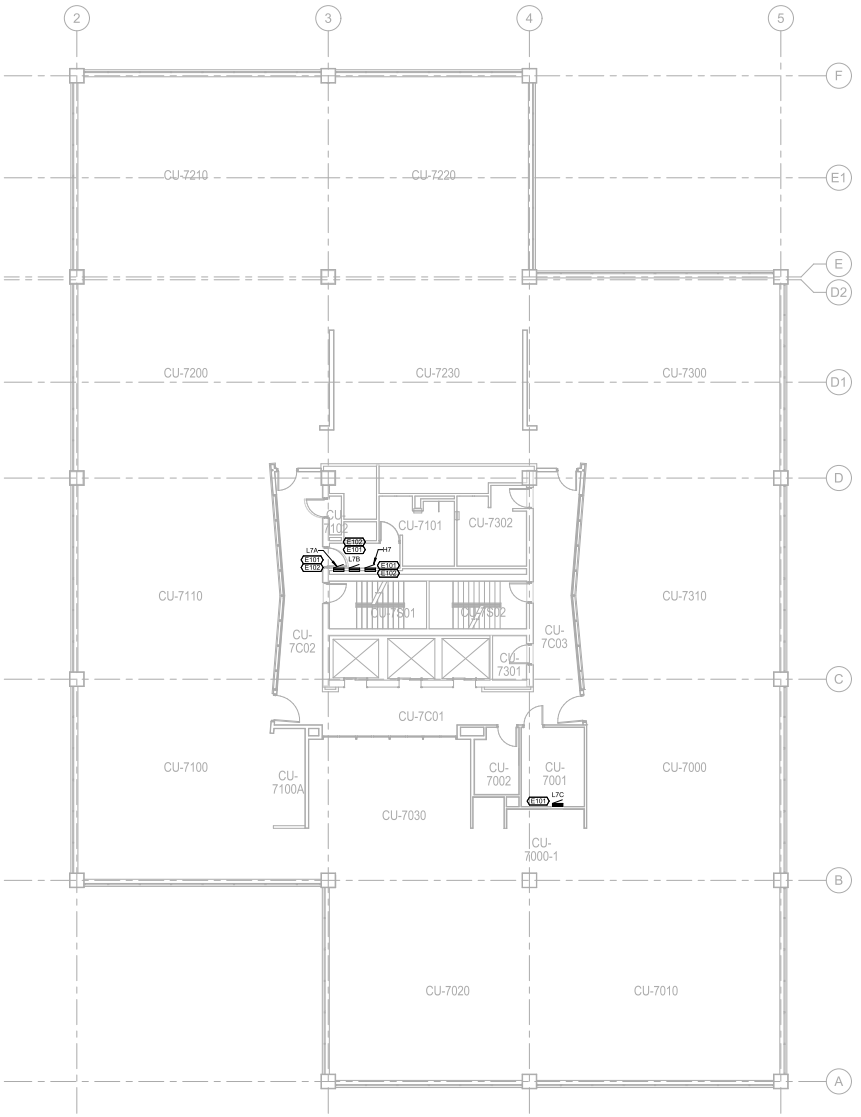
OVERALL ELECTRICAL PLAN - LEVEL 6

E2.60



1 OVERALL ELECTRICAL PLAN - LEVEL 7
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.

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SBEC Project #:	210032
Scale:	As indicated
Drawn By:	JH
Designed By:	JR/AOR
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Issued For:	Date:
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OVERALL ELECTRICAL PLAN - LEVEL 7

E2.70

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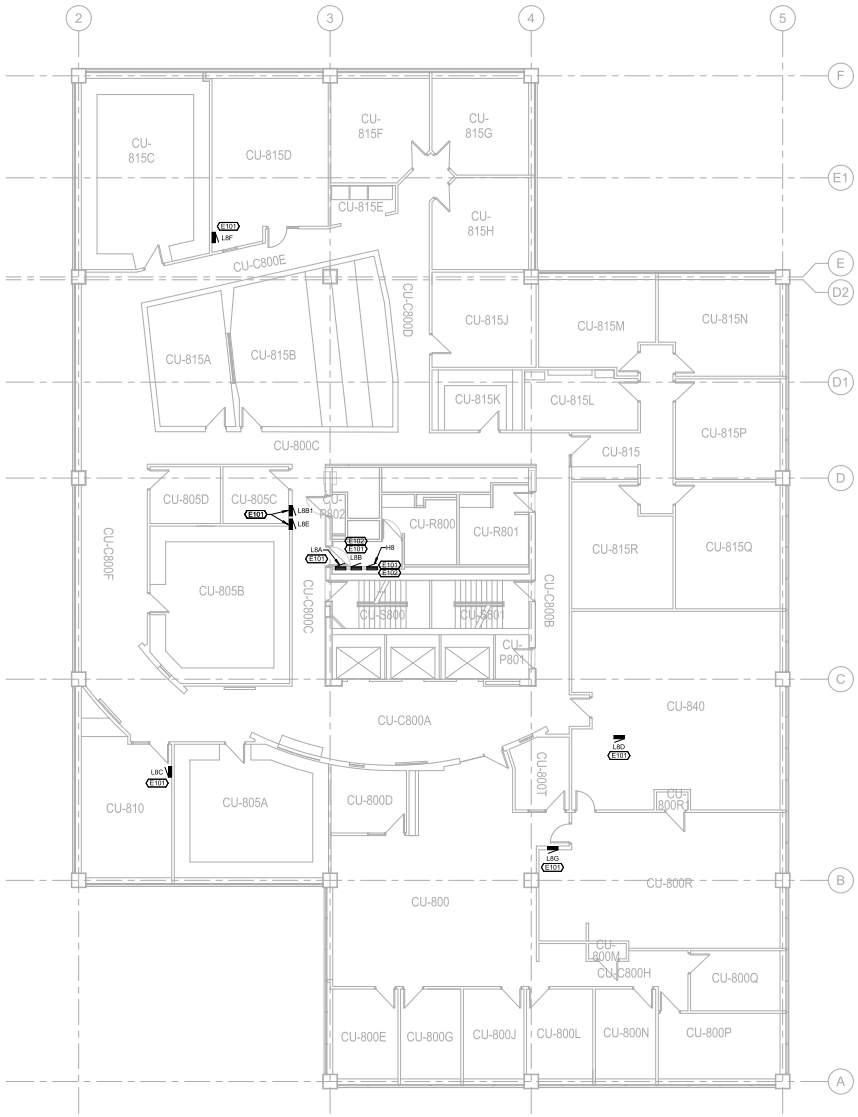

1 OVERALL ELECTRICAL PLAN - LEVEL 8
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.

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CU DENVER BUILDING
ELECTRICAL SYSTEM UPGRADES
1250 14th STREET, DENVER, CO. 80204

SBEC Project #:	210032
Scale:	As indicated
Drawn By:	JH
Designed By:	JR/AOR
Checked By:	AOR/JE

Issued For:	Date:
100% CONSTRUCTION	12/01/2023

NOTE:
EXISTING CONDITIONS ARE SHOWN WITH LIGHT LINE WEIGHT.

NEW WORK INCLUDED IN THIS CONTRACT IS SHOWN WITH HEAVY LINE WEIGHT.

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OVERALL ELECTRICAL PLAN - LEVEL 8

E2.80

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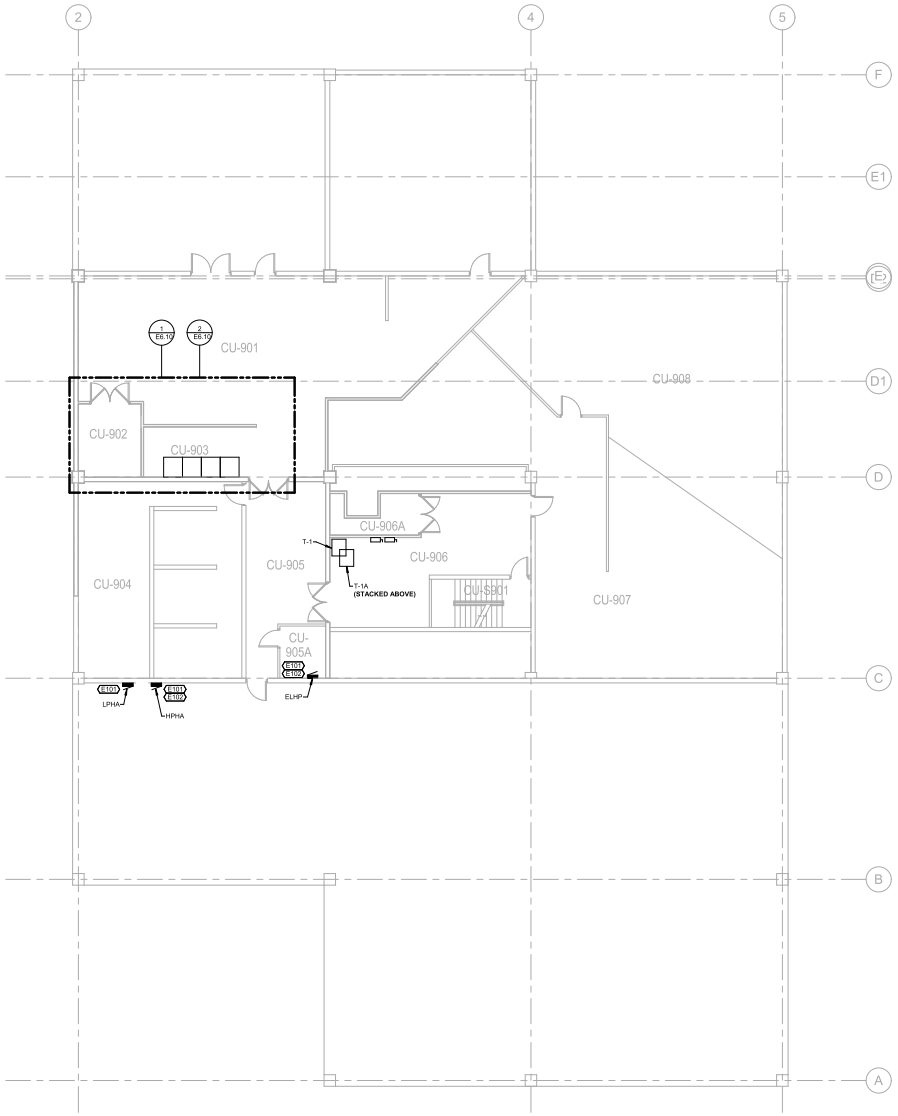

1 OVERALL ELECTRICAL PLAN - LEVEL 9
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.

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OVERALL ELECTRICAL PLAN - LEVEL 9

E2.90

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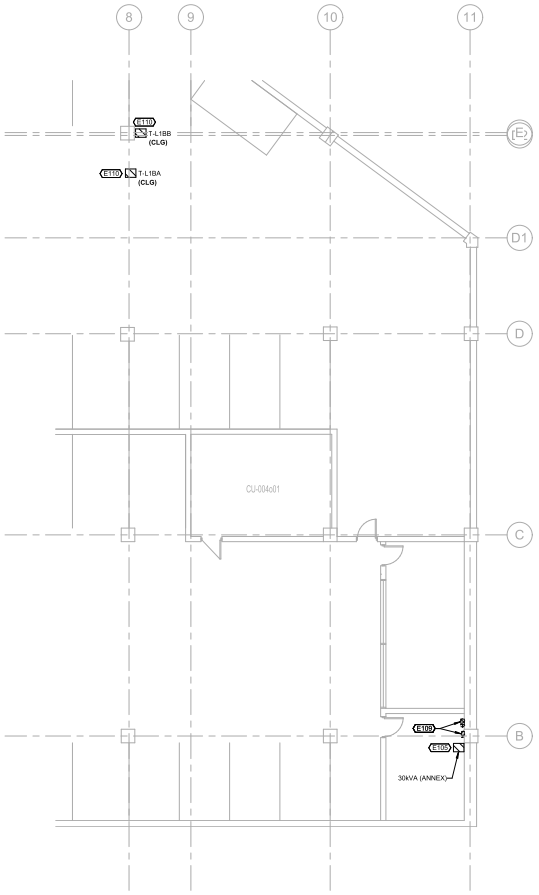
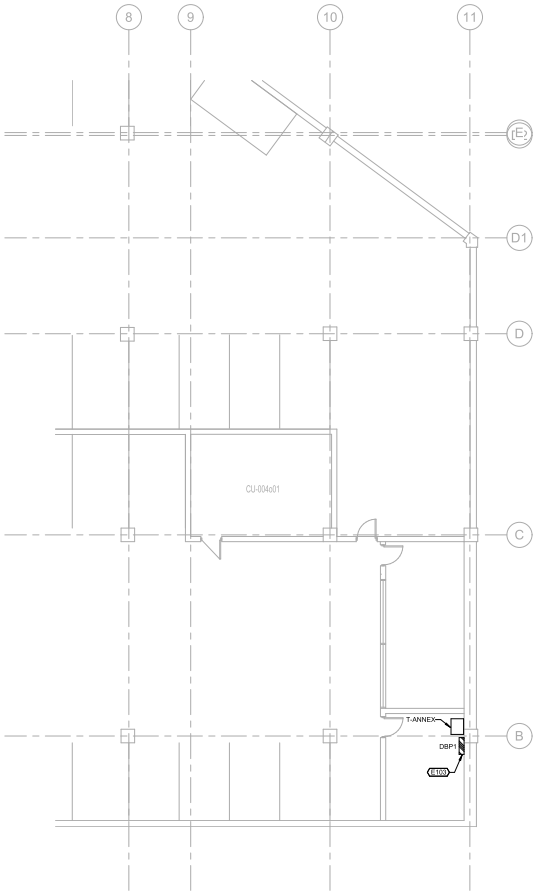


LEVEL P1 - ENLARGED PLAN - DEMO

2' 4' 8' 16' 1/8" = 1'-0"



LEVEL P1 - ENLARGED PLAN

2' 4' 8' 16' 1/8" = 1'-0"

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E103	NEW PANELBOARD THIS PROJECT. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
E105	DISCONNECT AND REMOVE EXISTING TRANSFORMER, PROVIDE NEW TRANSFORMER. CONNECT TO NEW GROUND BAR AS REQUIRED. REFER TO ONE-LINE DIAGRAM FOR TRANSFORMER SIZE.
E109	DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCHES ALONG WITH ASSOCIATED CONDUIT AND WIRE BACK TO POINT OF ORIGIN.
E110	DISCONNECT AND REMOVE EXISTING TRANSFORMER ALONG WITH ASSOCIATED CONDUIT AND WIRE BACK TO POINT OF ORIGIN.

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SBEC Project #:	210032
Scale:	As indicated
Drawn By:	Author
Designed By:	Designer
Checked By:	Checker

Issued For:	**Date:**
100% CONSTRUCTION	12/01/2023

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ENLARGED ELECTRICAL PLANS - LEVEL P1

E6.01

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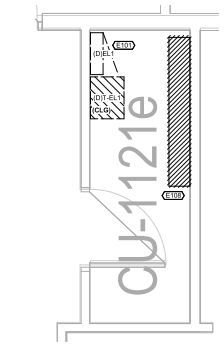
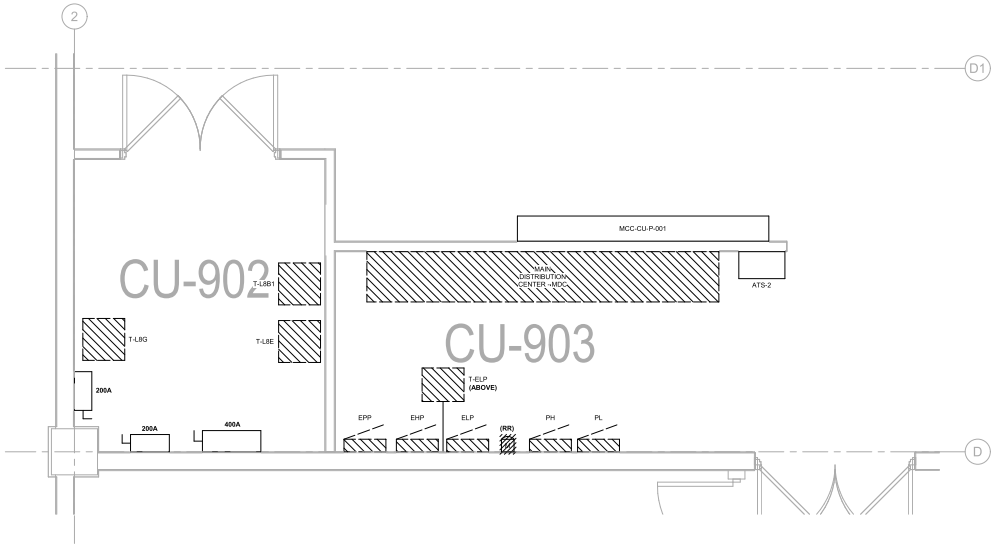


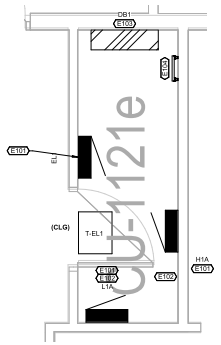
LEVEL 1 - ENLARGED ELEC ROOM - DEMO

2' 4' 8' 16' 1/2" = 1'-0"



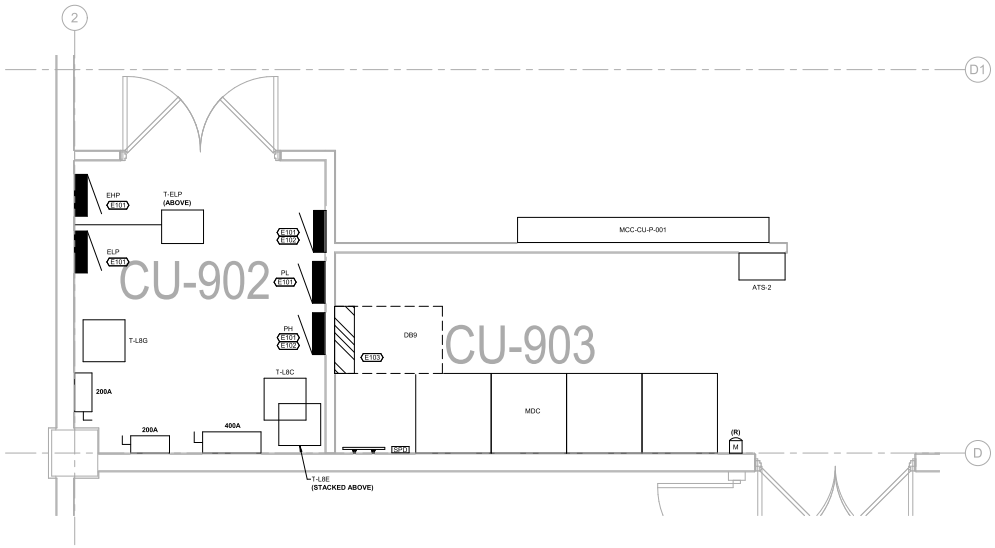
LEVEL 9 - ENLARGED CU-902 CU-903 - DEMO

2' 4' 8' 16' 1/2" = 1'-0"



LEVEL 1 - ENLARGED ELEC ROOM

2' 4' 8' 16' 1/2" = 1'-0"



LEVEL 9 - ENLARGED CU-902 CU-903

1 2 4 8 RE: 1 / E2.90 1/2" = 1'-0" 1 E6.10

GENERAL NOTES

1. (REFER TO SHEET E0.1)

KEYNOTE LEGEND

E101	DISCONNECT AND REMOVE EXISTING PANELBOARD. PROTECT EXISTING BRANCH CIRCUITS AND FEEDERS FOR CONNECTION TO NEW PANELBOARD. PROVIDE NEW PANELBOARD. EXTEND AND RECONNECT EXISTING BRANCH CIRCUITS AND FEEDERS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
E102	REFER TO NEW ONE-LINE DIAGRAM FOR NEW ROUTING OF PANELBOARD FEEDER.
E103	NEW PANELBOARD THIS PROJECT. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
E104	PROVIDE NEW GROUNDBAR FOR TRANSFORMER GROUNDING ELECTRODE.
E108	DISCONNECT AND REMOVE EXISTING (4) UTILITY METERS & ASSOCIATED (4) DISCONNECT SWITCHES AND 600A BUSSED GUTTER 'CPDP'. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

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ENLARGED ELECTRICAL PLANS - LEVEL 1 & 9

E6.10

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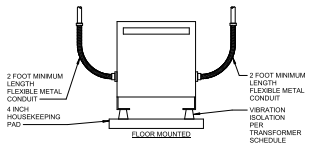
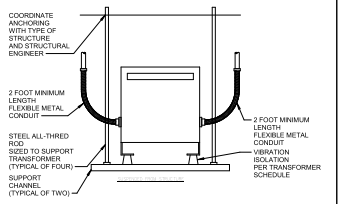


FLOOR MOUNTED TRANSFORMER DETAIL

SCALE: NONE



SUSPENDED TRANSFORMER DETAIL

SCALE: NONE

1/2 INCH [DISTRIBUTION EQUIPMENT DESIGNATION]
3/8 INCH [ELECTRICAL SYSTEM] BRANCH

[1600] AMPERES,[3] PHASE, [4] WIRE

FED FROM [EQUIPMENT DESIGNATION]

[65,000] A.I.C.
CALCULATED AVAILABLE SHORT CIRCUIT CURRENT [46,000] AMPERES
DATE OF CALCULATION:[01/01/2018]

[480Y/277] VOLTS

FEEDER: [5 SETS OF 4/#400, 1/#4/0 GROUND IN 3-1/2 INCH CONDUIT]

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.
2. APPLIES TO SWITCHBOARDS, PANELBOARDS AND BUSWAYS.
3. DEPENDING ON BUILDING TYPE AND ELECTRICAL SYSTEM CONFIGURATION, INSERT THE APPROPRIATE [ELECTRICAL SYSTEM] FROM THE FOLLOWING POSSIBLE BRANCHES: NORMAL, EQUIPMENT, EMERGENCY, LEGALLY REQUIRED, STANDBY

DISTRIBUTION EQUIPMENT NAMEPLATE DETAIL

SCALE: NONE

1/2 INCH [ATS DESIGNATION]
3/8 INCH [ELECTRICAL SYSTEM] BRANCH

[480Y/277] VOLTS
[200] AMPERES, [3] PHASE, [3] WIRE, [3] POLE

CALCULATED AVAILABLE SHORT CIRCUIT CURRENT [46,000] AMPERES
[65,000] A.I.C.

DATE OF CALCULATION: [01/01/2018]

FEEDER: [4#3/0, 1#6 GROUND IN 2-1/2 INCH CONDUIT]
INSULATION TYPE[THWN] CONDUCTOR MATERIAL[COPPER]

NORMAL SOURCE: [EQUIPMENT DESIGNATION]
ALTERNATE SOURCE: [EQUIPMENT DESIGNATION]

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.
2. DEPENDING ON BUILDING TYPE AND ELECTRICAL SYSTEM CONFIGURATION, INSERT A/THE APPROPRIATE [ELECTRICAL SYSTEM] FROM THE FOLLOWING POSSIBLE BRANCHES: NORMAL, EQUIPMENT, CRITICAL, LIFE SAFETY, EMERGENCY, LEGALLY REQUIRED, STANDBY.

ATS NAMEPLATE DETAIL

SCALE: NONE

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.
2. APPLIES TO BUILDING TYPE AND ELECTRICAL SYSTEM CONFIGURATION.
3. WHITE LETTERS ON BLACK BACKGROUND FOR NORMAL POWER EQUIPMENT.
4. WHITE LETTERS ON RED BACKGROUND FOR EMERGENCY POWER EQUIPMENT.
5. WHITE LETTERS ON BLUE BACKGROUND FOR UPS POWER EQUIPMENT.

1/2 INCH 3/8 INCH PANELBOARD [UH1A1C]
DISTRIBUTION BRANCH[UPS]

[200] AMPERES[3] PHASE,[4] WIRE

FED FROM[DISTRIBUTION BOARD UH1A1C IN ROOM:[# OR DESIGNATION]

[14,000]A.I.C.
CALCULATED AVAILABLE SHORT CIRCUIT CURREN[12,800] AMPERES
DATE OF CALCULATI[01/01/2011]

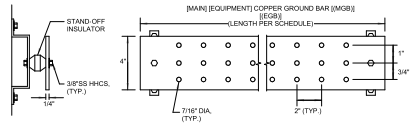
[480Y/277] VOLTS

FEEDER: [4#3/0, 1#6 GROUND IN 2-1/2 INCH CONDUIT]
INSULATION TY[THWN,] CONDUCTOR MATERIAL[COPPER]

COLOR CODING OF CONDUCTORS:
PHASE A [BLACK]
PHASE B [RED]
PHASE C [BLUE]

NAMEPLATE DETAIL - PANELBOARDS

SCALE: NONE



SECTION ELEVATION

GROUND BAR DETAIL

SCALE: NONE

NOTE:
1. TERMINATE GROUNDING CONDUCTORS WITH TWO-HOLE LONG BARREL COMPRESSION CONNECTORS WITH INSPECTION HOLES.
2. IDENTIFY EACH GROUNDING CONDUCTOR WRAP-AROUND LABEL.
3. REMOVE SHARP EDGES AND BURS AFTER CRIMPING OF COMPRESSION CONNECTORS.

COPPER GROUND BAR SCHEDULE		
TAG	LENGTH	MOUNTING HEIGHT
MGB	24"	24" A.F.F.
EGB	24"	24" A.F.F.
TGB	PER OWNER'S SPECIALTY CONTRACTOR	

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.
2. ORANGE BACKGROUND WITH BLACK TEXT FOR TITLE, YELLOW BACKGROUND WITH BLACK TEXT FOR GRAPHIC SYMBOLS, REST WHITE BACKGROUND WITH RED TEXT FOR BRACKETED INFORMATION (EXCEPT THE BOTTOM RECTANGLE) AND BLACK FOR STATIC INFORMATION.
3. PROVIDE ARC FLASH CALCULATIONS FOR EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT AND FILL OUT INFORMATION INDICATED BY BRACKETS OR CHECK BOXES.

⚠WARNING 3/8"
QUALIFIED WORKERS ONLY 1/4"

ARC FLASH AND SHOCK HAZARD APPROPRIATE PPE REQUIRED 1/4" 1/4" 1/4" 1/4"

WARNING: CHANGES IN ELECTRICAL DISTRIBUTION EQUIPMENT SETTINGS OR SYSTEM CONFIGURATION OR INCORRECT INFORMATION PROVIDED BY OTHERS WILL INVALIDATE THE CALCULATED VALUES AND PPE REQUIREMENTS.

Equipment: {{[XXXXX] 1/4"
[XX INCHES] FLASH HAZARD BOUNDARY
[XX INCHES] FLASH HAZARD CATEGORY
[XX] INCIDENT ENERGY AT WORKING DISTANCE (CAL/CM²)
[XX] FLASH RISK/HAZARD CATEGORY AT WORKING DISTANCE
[XX] VAC SHOCK HAZARD WHEN COVER IS REMOVED
[XX] GLOVE CLASS
[XX INCHES] LIMITED APPROACH
[XX INCHES] RESTRICTED APPROACH
[XX INCHES] PROHIBITED APPROACH

Fed From: [MDB] 1/4"
Overcurrent[400A Circuit Breaker] 1/4"
[INSTALLED LOCATION LOGO]

PREPARED BY: [XXXXX]
PROJECT #: [XXXXX] DATE: [XX/XX/2013]

ARC FLASH AND SHOCK WARNING SIGN DETAIL

SCALE: NONE

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.

1/2 INCH [STANDBY] GENERATOR

[1000kW/1250kVA] SITE RATING
[480Y/277] VOLTS
[1600] AMPERES, [3] PHASE, [4] WIRE
[0.8] POWER FACTOR

[14,000] AVAILABLE SHORT CIRCUIT CURRENT

NEUTRAL: [BONDED TO GROUND] [ISOLATED FROM GROUND]

FEEDER: [5 SETS OF 4/#400, 1/#4/0 GROUND IN 3-1/2 INCH CONDUIT]

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.

GENERATOR NAMEPLATE DETAIL

SCALE: NONE

1/4 INCH [PANELBOARD DESIGNATION]

OVERCURRENT RATING[1200A] [FRS-R]

[CIRCUIT BREAKER SETTINGS:]

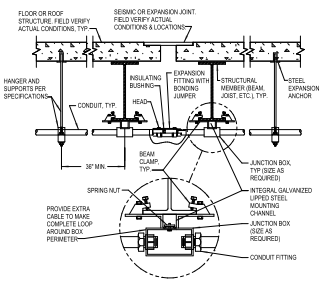
LOCATED IN ROOM [# OR NAME]

[FEEDER[BRANCH CIRCUIT]: [3#4, 1#10 GROUND IN 1-1/4 INCH CONDUIT]

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.
2. APPLIES TO CIRCUIT BREAKERS AND FUSED SWITCHES WITHIN SWITCHBOARDS AND DISTRIBUTION PANELBOARDS, AND TO BUSWAY PLUG-IN UNITS.
3. MOUNT ON EQUIPMENT NEXT TO ASSOCIATED LOAD OVERCURRENT DEVICE.

DISTRIBUTION DEVICE NAMEPLATE DETAIL

SCALE: NONE

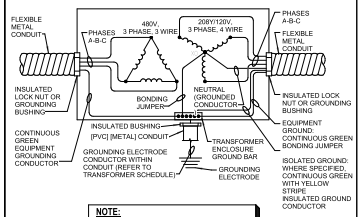


GENERAL NOTES

1. INSTALLATION IS APPLICABLE TO CONDUITS ACROSS A BUILDING EXPANSION JOINT AND WHERE REQUIRED TO ACCOMMODATE THERMAL EXPANSION.
2. WHEN APPROVED BY THE ENGINEER IN WRITING, FLEXIBLE CONDUIT UTILIZED IN A CONDUIT RUN FOR CONSTRUCTIBILITY SHALL COMPLY WITH THIS DETAIL.

CONDUIT EXPANSION JOINT CROSSING DETAIL- EXPANSION FITTING

SCALE: NONE



NOTE:
IF GROUNDING BUSHINGS ARE UTILIZED TO TERMINATE CONDUITS TO TRANSFORMER, THEN BOND EACH BUSHING TO TRANSFORMER ENCLOSURE GROUND BAR WITH CONTINUOUS GREEN BONDING JUMPER.

TRANSFORMER GROUNDING DETAIL

SCALE: NONE

1/2 INCH [EQUIPMENT DESIGNATION]
3/8 INCH [ELECTRICAL SYSTEM] BRANCH

OVERCURRENT RATING:[100A] [FRS-R]

FED FROM [EQUIPMENT DESIGNATION]

[CIRCUIT NUMBER]
[10,000] A.I.C.
CALCULATED AVAILABLE SHORT CIRCUIT CURRENT [4,000] AMPERES
DATE OF CALCULATION:[01/01/2018]

[208Y/120] VOLTS

BRANCH CIRCUIT: [3#10, 1#10 GROUND IN 1-1/4 INCH CONDUIT]

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.
2. APPLIES TO EQUIPMENT DISCONNECT SWITCHES, FUSED DISCONNECTS AND ENCLOSED CIRCUIT BREAKERS.
3. DEPENDING ON BUILDING TYPE AND ELECTRICAL SYSTEM CONFIGURATION, INSERT THE APPROPRIATE [ELECTRICAL SYSTEM] FROM THE FOLLOWING POSSIBLE BRANCHES: NORMAL, EQUIPMENT, CRITICAL, LIFE SAFETY, EMERGENCY, LEGALLY REQUIRED, STANDBY.

EQUIPMENT NAMEPLATE DETAIL

SCALE: NONE

1/2 INCH [TRANSFORMER DESIGNATION]
3/8 INCH [ELECTRICAL SYSTEM] BRANCH

[112.5]KVA, [3] PHASE,[480] VOLTS [DELTA] PRI, [208Y/120] VOLTS SEC

FED FROM [EQUIPMENT DESIGNATION]

[3.0] PERCENT IMPEDANCE (% Z)
CALCULATED AVAILABLE SHORT CIRCUIT CURRENT [22,000] AMPERES
DATE OF CALCULATION [01/01/2018]

FEEDER IN: [3#2/0, 1#6 GROUND IN 2 INCH CONDUIT]

FEEDER OUT: [2 SETS OF 4#3/0, 1#2 BONDING JUMPER IN 2-1/2 INCH CONDUIT]

GROUNDING ELECTRODE CONDUCTOR:[1/0]

NOTES:
1. MINIMUM TEXT HEIGHT 1/8 INCH, UNLESS NOTED OTHERWISE.
2. DEPENDING ON BUILDING TYPE AND ELECTRICAL SYSTEM CONFIGURATION, INSERT THE APPROPRIATE [ELECTRICAL SYSTEM] FROM THE FOLLOWING POSSIBLE BRANCHES: NORMAL EQUIPMENT, CRITICAL, LIFE SAFETY, EMERGENCY, LEGALLY REQUIRED, STANDBY.

TRANSFORMER NAMEPLATE DETAIL

SCALE: NONE

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ELECTRICAL DETAILS

E7.00

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