

# BARTLETT REGIONAL CAMPUS TVSS SURGE PROTECTION CONSTRUCTION DOCUMENTS - 04/21/2022

FOR:

**CBJ ENGINEERING DEPARTMENT  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA**



PREPARED BY:



**Juneau, AK**

9109 Mendenhall Mall Rd. Ste. 4

Juneau, AK 99801

Phone: 907.780.6060

Fax: 907.586.3771

AECC163270

SHEET INDEX		SHEET INDEX	
GENERAL:		ELECTRICAL:	
G-001	COVER SHEET	E-120	ELECTRICAL BELOW GRADE FLOOR PLAN - BLDG MAB
ELECTRICAL:		E-121	ELECTRICAL FIRST FLOOR PLAN - BLDG MAB
E-001	LEGENDS AND ABBREVIATIONS	E-130	ELECTRICAL FIRST FLOOR PLAN - BLDG RRC
E-100	ELECTRICAL FIRST FLOOR PLAN - BLDG BRH WEST	E-140	ELECTRICAL FIRST FLOOR PLAN - BLDG BH
E-101	ELECTRICAL FIRST FLOOR PLAN - BLDG BRH EAST	E-141	ELECTRICAL SECOND FLOOR PLAN - BLDG BH
E-102	ELECTRICAL SECOND FLOOR PLAN - BLDG BRH WEST	E-601	PARTIAL ONE LINE DIAGRAM - BRH MAIN
E-103	ELECTRICAL SECOND FLOOR PLAN - BLDG BRH SOUTHEAST	E-602	PARTIAL ONE LINE DIAGRAM - BRH MAIN
E-104	ELECTRICAL SECOND FLOOR PLAN - BLDG BRH NORTHEAST	E-603	PARTIAL ONE LINE DIAGRAM - BRH MAIN
E-105	ELECTRICAL THIRD FLOOR PLAN - BLDG BRH WEST	E-604	PARTIAL ONE LINE DIAGRAM - BRH MAIN
E-106	ELECTRICAL THIRD FLOOR PLAN - BLDG BRH EAST	E-605	PARTIAL ONE LINE DIAGRAM - BRH MAIN
E-107	ELECTRICAL FOURTH FLOOR PLAN - BLDG BRH WEST	E-606	PARTIAL ONE LINE DIAGRAM - BRH MAIN
E-108	ELECTRICAL FOURTH FLOOR PLAN - BLDG BRH SOUTHEAST	E-607	PARTIAL ONE LINE DIAGRAM - BRH MAIN
E-109	ELECTRICAL FOURTH FLOOR PLAN - BLDG BRH NORTHEAST	E-608	PARTIAL ONE LINE DIAGRAM - BRH MAIN
E-110	ELECTRICAL BELOW GRADE PLAN - BLDG RVA	E-609	ONE LINE DIAGRAMS - BHF, RRC, AND BH
E-111	ELECTRICAL FIRST FLOOR PLAN - BLDG RVA	E-610	ONE LINE DIAGRAMS - ADMIN AND MEDICAL ARTS
E-112	ELECTRICAL SECOND FLOOR PLAN - BLDG RVA	E-611	ONE LINE DIAGRAMS - GROUNDING

POWER SYMBOLS	
	NONFUSIBLE SWITCH
	BRANCH-CIRCUIT PANELBOARD; RECESSED, SURFACE
	DISTRIBUTION PANELBOARD
ONE-LINE SYMBOLS (600V AND BELOW)	
DISTRIBUTION PANEL: NPHXX 480Y/277V, 3PH, 4W, XXXA ELECTRICAL: XXX	SWITCHBOARD/DISTRIBUTION PANEL/MCC
	PANELBOARD
	CIRCUIT BREAKER
	DRAWOUT CIRCUIT BREAKER
	FUSIBLE SWITCH
	NONFUSIBLE SWITCH
	FUSE
	SHUNT TRIP
	TRANSIENT VOLTAGE SURGE SUPPRESSION
	GROUND FAULT
	TRANSFORMER
	TRANSFER SWITCH
	CURRENT TRANSFORMER/POWER MONITOR
	METER
	FEEDER NO.
	FEEDER NO. EXISTING
	GROUND
	MOTOR

### GENERAL NOTES AND SPECIFICATIONS

- GENERAL REGULATORY REQUIREMENTS
  - COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE 2017 EDITION; NECA 1, STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION; AND NATIONAL ELECTRICAL SAFETY CODE.
  - ELECTRICAL COMPONENTS, DEVICES, ASSEMBLIES, AND ACCESSORIES ARE REQUIRED TO BE LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
  - DELIVER, STORE, PROTECT, AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROTECT PRODUCTS FROM WEATHER.
  - ACCEPT PRODUCTS ON SITE IN MANUFACTURER'S PACKAGING. INSPECT FOR DAMAGE. NOTIFY PROJECT MANAGER OF ALL DAMAGED PRODUCTS.
  - THE CONTRACT DOCUMENTS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS AS BINDING AS IF REQUIRED BY ALL.
  - DRAWINGS SHOW THE GENERAL LOCATIONS OF THE ELECTRICAL FEATURES ONLY, UNLESS OTHERWISE INDICATED. MAKE MINOR RELOCATIONS AS REQUIRED FOR PROJECT CONDITIONS WHEN NECESSARY TO PRESENT SYMMETRICAL APPEARANCE OR TO AVOID INTERFERENCE WITH OTHER INSTALLATIONS. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE, FEDERAL, AND OSHA SAFETY REQUIREMENTS.
  - CONTRACTOR COORDINATION
    - CONTRACTOR SHALL COORDINATE START-UP AND ENERGIZING OF ALL ELECTRICAL EQUIPMENT WITH PROJECT MANAGER.
    - CONTRACTOR SHALL COORDINATE POWER OUTAGES AND DE-ENERGIZING OF ALL EXISTING ELECTRICAL EQUIPMENT WITH PROJECT MANAGER.
- SUBMITTALS
  - SUBMIT BOOKMARKED, ELECTRONIC PDF OF PRODUCT DATA FOR REVIEW AND APPROVAL.
- CONDUCTORS
  - CONDUCTOR MATERIAL: COPPER. SOLID FOR NO. 12 AWG AND SMALLER; STRANDED FOR NO. 10 AWG AND LARGER.
    - FEEDERS: TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY.
    - BRANCH CIRCUITS:
      - HEATED SPACES SHALL BE TYPE THHN-2-THWN-2 OR XHHW-2
  - INSTALLATION
    - CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
    - SURFACE RACEWAYS IN ELECTRICAL AND UTILITY ROOMS IS ACCEPTABLE.
    - NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN BRANCH CIRCUITS, UNLESS OTHERWISE INDICATED.
    - MINIMUM CONDUCTOR SIZE FOR BRANCH CIRCUITS: NO. 12 AWG.
      - USE NO. 10 AWG MINIMUM FOR 15 OR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 65 FEET BUT NOT GREATER THAN 100 FEET.
      - USE NO. 8 AWG MINIMUM FOR 15 OR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET UNLESS OTHERWISE INDICATED.
      - USE NO. 10 AWG MINIMUM FOR 15 OR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 150 FEET UNLESS OTHERWISE INDICATED.
  - FIELD QUALITY CONTROL: AFTER INSTALLING CONDUCTORS AND CABLES AND BEFORE ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR UNINTENDED OPENS, SHORTS, AND GROUNDS.

### GENERAL NOTES AND SPECIFICATIONS

- GROUNDING AND BONDING
  - INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE INDICATED.
  - CONNECTORS: LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS IN WHICH USED, AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.
  - INSTALLATION
    - PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. TERMINATE EACH END ON SUITABLE LUG, BUS OR BUSHING. SIZE EQUIPMENT GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC, UNLESS OTHERWISE INDICATED, BUT NOT SMALLER THAN NO. 12 AWG.
    - PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTORS IN PATIENT CARE AREAS TO COMPLY WITH NEC 517.13. SIZE THE EQUIPMENT GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC, UNLESS OTHERWISE INDICATED, BUT NOT SMALLER THAN NO. 10 AWG.
- RACEWAY
  - PERMITTED USES
    - INDOOR DRY LOCATIONS: USE EMT UNLESS OTHERWISE INDICATED.
    - INDOOR DAMP OR WET LOCATIONS (KITCHEN, LAUNDRY, ETC)
      - PROVIDE IMC UNLESS OTHERWISE INDICATED.
  - RMC: COMPLY WITH ANSI C80.1 AND UL 6, HOT-DIPPED ZINC GALVANIZED.
  - IMC: COMPLY WITH ANSI C80.6 AND UL 1242, ZINC-COATED STEEL WITH THREADED FITTINGS.
  - EMT: COMPLY WITH ANSI C80.3 AND UL 797 ZINC-COATED STEEL.
  - INSTALLATION
    - MINIMUM RACEWAY SIZE:
      - 3/4-INCH TRADE SIZE.
      - 1-INCH TRADE SIZE HOMERUN TO PANELBOARD OR DISTRIBUTION PANEL.
    - COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.
    - FITTINGS FOR METAL CONDUIT: COMPLY WITH NEMA FB 1 AND UL 514B.
- BOXES
  - SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1, DEEP TYPE; FOR USE WITH CONCEALED RACEWAYS AND FOR BOXES EXPOSED ON CEILINGS.
  - CAST-METAL OUTLET AND DEVICE BOXES: NEMA FB 1, THREADED HUB, TYPE FD, WITH GASKETED COVER; FOR USE WITH EXPOSED CONDUIT.
- SWITCHBOARDS AND PANELBOARDS
  - EQUIPMENT IS EXISTING.
  - PROVIDE BREAKERS FOR ADDED TVSS WHERE SHOWN ON DRAWINGS. CONTRACTOR SHALL FIELD VERIFY SWITCHBOARD/PANELBOARD MANUFACTURER AND MODEL NUMBERS.
  - PROVIDE MOUNTING HARDWARE, BLANK COVER PLATES AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
  - PROVIDE UPDATED ENGRAVED LABELS TO MATCH OTHERS ON PANEL FOR ADDED CIRCUITS.
  - PROVIDE UPDATED TYPED PANEL SCHEDULE WITH UPDATED CIRCUITS.
- SURGE SUPPRESSION DEVICES
  - PROVIDE SURGE SUPPRESSION DEVICE MODELS AS SHOWN ON ONE LINE DIAGRAM OR APPROVED EQUAL. SURGE DEVICES SHALL BE MODULAR TYPE.
  - IN FINISHED AREAS, RECESS SURGE SUPPRESSION DEVICES IN FINISHED WALLS, UNLESS OTHERWISE INDICATED.
  - SURFACE MOUNT SURGE SUPPRESSION DEVICES IN ELECTRICAL AND UTILITY ROOMS.

### ABBREVIATIONS

(E)	EXISTING
(N)	NEW
#	NUMBER
+XX	DIMENSIONED HEIGHT XX INCHES AFF
A	AMPERES
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERES
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPX	APPROXIMATE
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BCU	BARE COPPER WIRE
BH	BARTLETT HOUSE
BRH	BARTLETT REGIONAL HOSPITAL
C	CONDUIT
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
CU	COPPER
DIST	DISTRIBUTION
EMT	ELECTRICAL METALLIC TUBING
FMC	FLEXIBLE METAL CONDUIT
FTL	FEED-THRU LUGS
FU	FUSE
GF	GROUND FAULT
IMC	INTERMEDIATE METALLIC CONDUIT
KVA	KILOVOLT AMPERES
LCP	LIGHTING CONTROL PANEL
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
LRP	LIGHTING RELAY PANEL
MAB	MEDICAL ARTS BUILDING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE; NFPA 70
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PRI	PRIMARY
RMC	RIGID METAL CONDUIT (HOT-DIPPED GALVANIZED)
RRC	RAINFOREST RECOVERY CENTER
RVA	ROBERT VALLIANT ADMIN BUILDING
SEC	SECONDARY
SFB	SUB-FEED CB
SFL	SUB-FEED DOUBLE LUGS
SN	SOLID NEUTRAL
SPD	SURGE PROTECTION DEVICE (TVSS)
SR	SERIES RATED
ST	SHUNT TRIP
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
W	WITH, WATT
XFMR	TRANSFORMER

NOT ALL ABBREVIATIONS ARE USED

CONSULTANT :



**Juneau, AK**  
 9100 Mendota Hall Rd, Ste. 4  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC/C 163270



PROJECT :  
**BARTLETT REGIONAL CAMPUS  
 TVSS SURGE PROTECTION**  
 155 SOUTH SEWARD ST.  
 JUNEAU, ALASKA

SHEET TITLE :  
**LEGENDS AND ABBREVIATIONS**  
**CONSTRUCTION DOCUMENTS**

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

PROJECT No.	E20-139
SHEET NUMBER	E-001

No.	Date	Item



**SHEET NOTES**

1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

**1** ELECTRICAL FIRST FLOOR PLAN - BLDG BRH WEST  
 E-100 SCALE: 3/32" = 1'-0"

No.	Date	Item

CONSULTANT :

**Juneau, AK**  
 9103 Mendota Mall, Rm. 404  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 63270

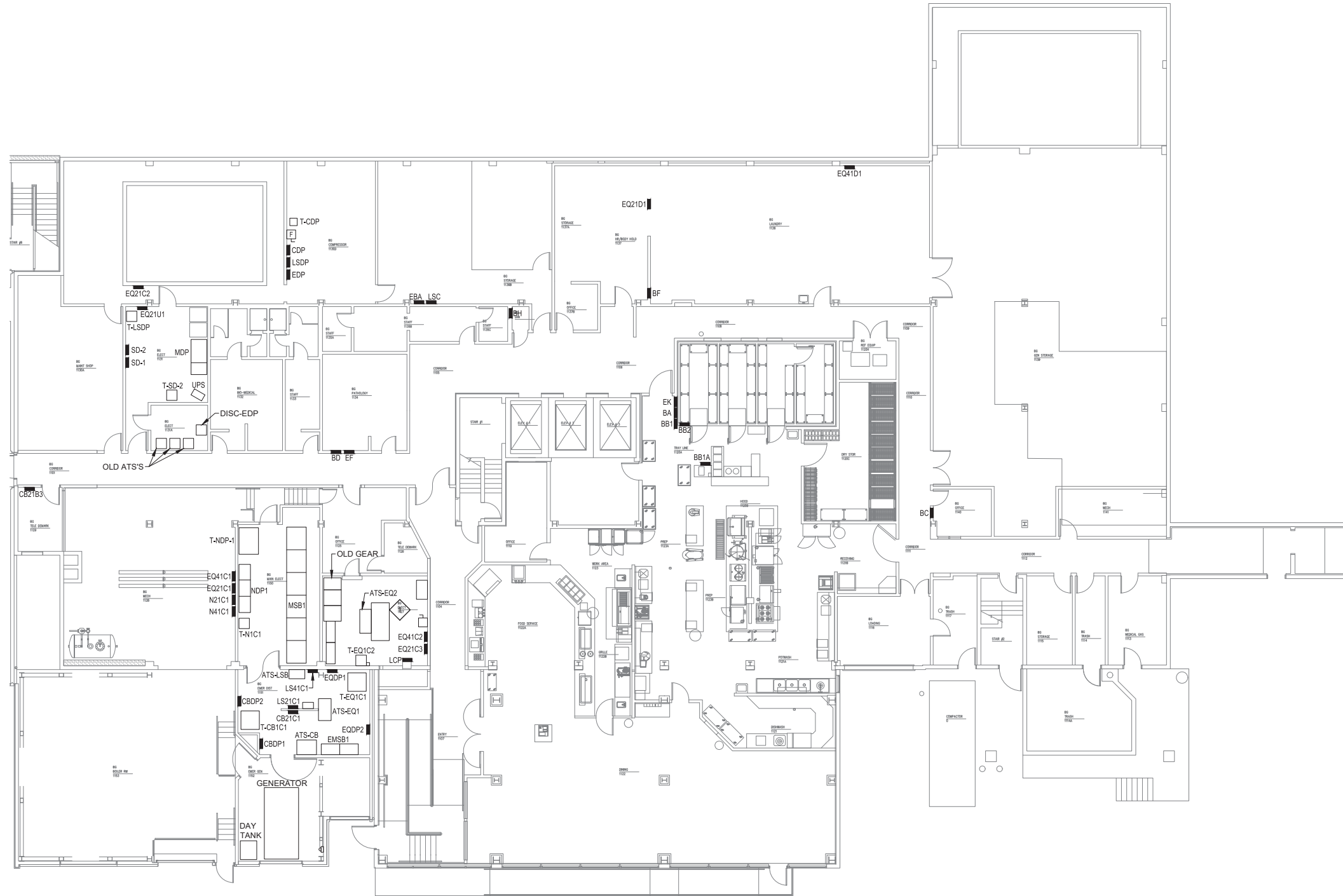
PROJECT :  
**BARTLETT REGIONAL CAMPUS  
 TVSS SURGE PROTECTION  
 155 SOUTH SEWARD ST.  
 JUNEAU, ALASKA**

SHEET TITLE :  
**ELECTRICAL FIRST FLOOR PLAN -  
 BLDG BRH WEST**

**CONSTRUCTION DOCUMENTS**

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER  
**E-100**



**SHEET NOTES**

- PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

**SHEET KEYNOTES** #

- EXISTING COMPRESSOR TO REMAIN.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall, Rm. 404  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 6163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL FIRST FLOOR PLAN -**  
**BLDG BRH EAST**  
**CONSTRUCTION DOCUMENTS**

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

**PROJECT No.**  
**E20-139**  
**SHEET NUMBER**

**E-101**

**1** ELECTRICAL FIRST FLOOR PLAN - BLDG BRH EAST  
 E-101 SCALE: 3/32" = 1'-0"

No.	Date	Item



SHEET NOTES

- 1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



Juneau, AK  
9103 Mendota Mall Rm. 4  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC 163270



PROJECT :  
**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION**  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA

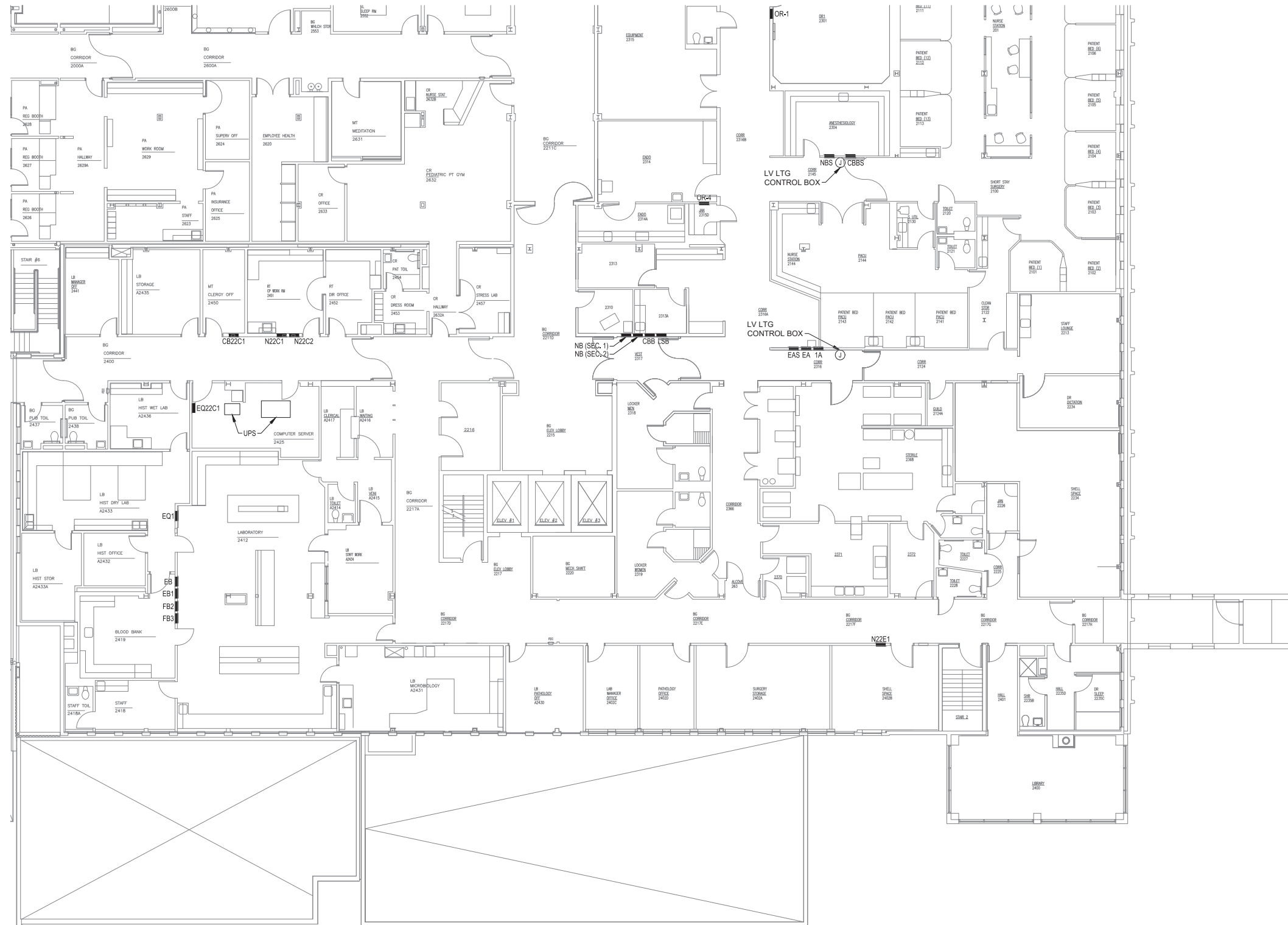
SHEET TITLE :  
**ELECTRICAL SECOND FLOOR PLAN -  
BLDG BRH WEST**  
CONSTRUCTION DOCUMENTS

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022
PROJECT No. <b>E20-139</b>	
SHEET NUMBER <b>E-102</b>	

**1** ELECTRICAL SECOND FLOOR PLAN - BLDG BRH WEST  
E-102 SCALE: 3/32" = 1'-0"

No.	Date	Item

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES



**SHEET NOTES**

- PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9100 Merchants Mall, Rm. 404  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 63270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL SECOND FLOOR PLAN -**  
**BLDG BRH SOUTHEAST**  
**CONSTRUCTION DOCUMENTS**

DESIGN: *BKH*  
 DRAWN: *JDS*  
 CHECKED: *BDM*  
 DATE: 04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-103**

No.	Date	Item

**1** ELECTRICAL SECOND FLOOR PLAN - BLDG BRH SOUTHEAST  
 SCALE: 3/32" = 1'-0"

**SHEET NOTES**

- PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall, Rm. 304  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 163270

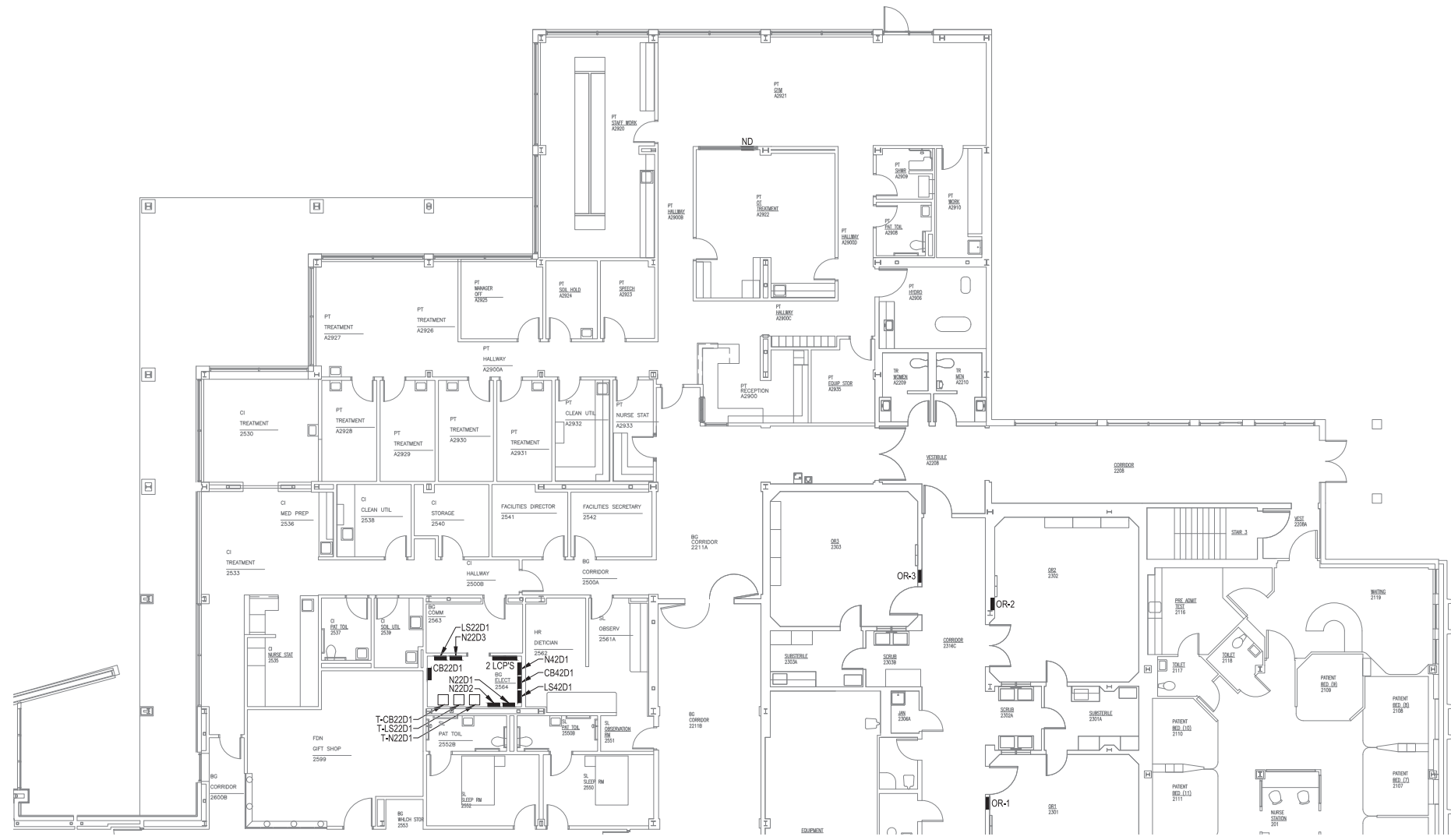


**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

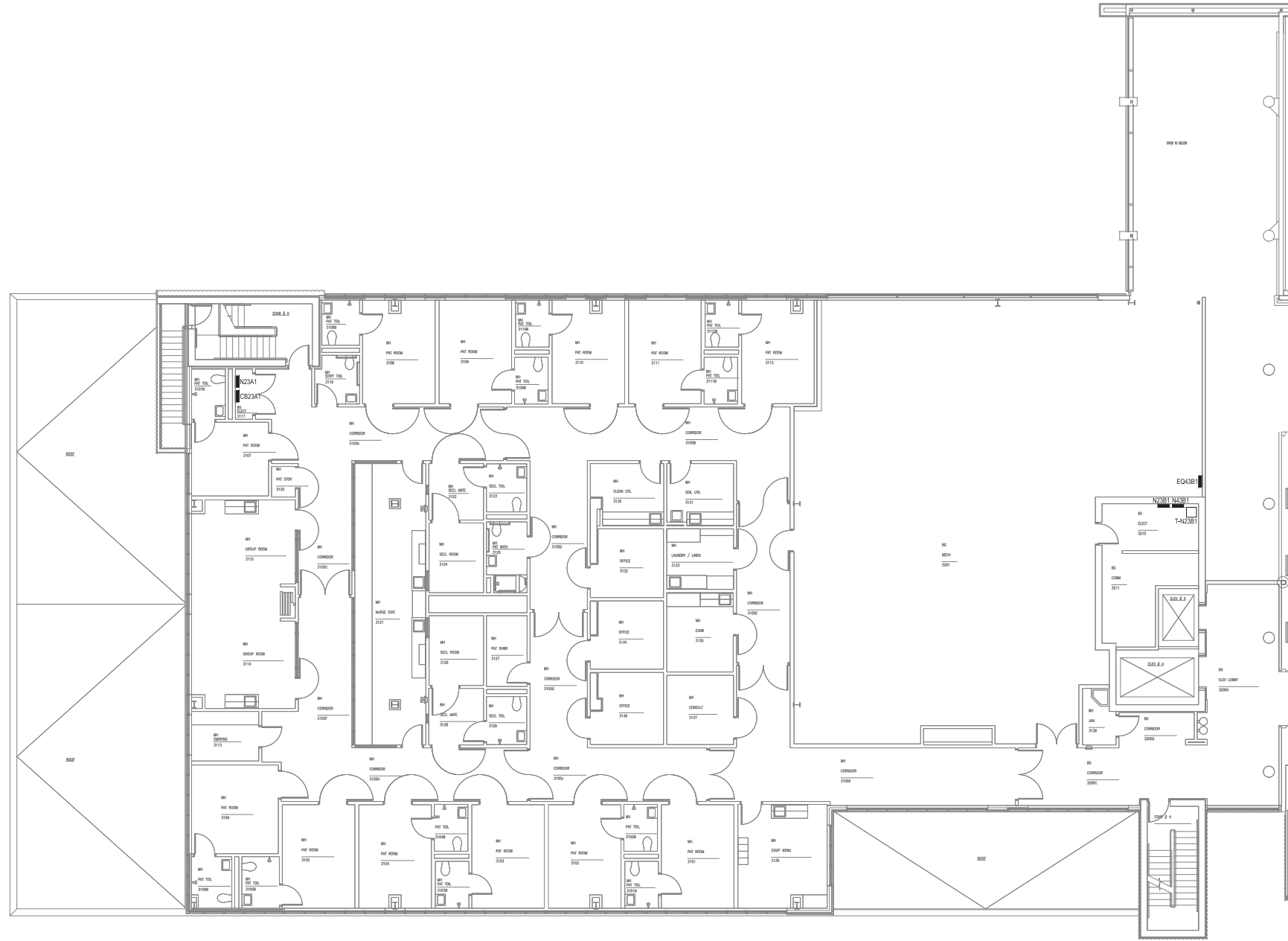
**SHEET TITLE :**  
**ELECTRICAL SECOND FLOOR PLAN -**  
**BLDG BRH NORTHEAST**  
**CONSTRUCTION DOCUMENTS**

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022
PROJECT No. <b>E20-139</b>	
SHEET NUMBER <b>E-104</b>	

No.	Date	Item



**1** ELECTRICAL SECOND FLOOR PLAN - BLDG BRH NORTHEAST  
 SCALE: 3/32" = 1'-0"



SHEET NOTES

- 1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall Rd, Ste. 4  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL THIRD FLOOR PLAN -**  
**BLDG BRH WEST**  
**CONSTRUCTION DOCUMENTS**

DESIGN *BKH*  
 DRAWN *JDS*  
 CHECKED *BDM*  
 DATE *04/21/2022*

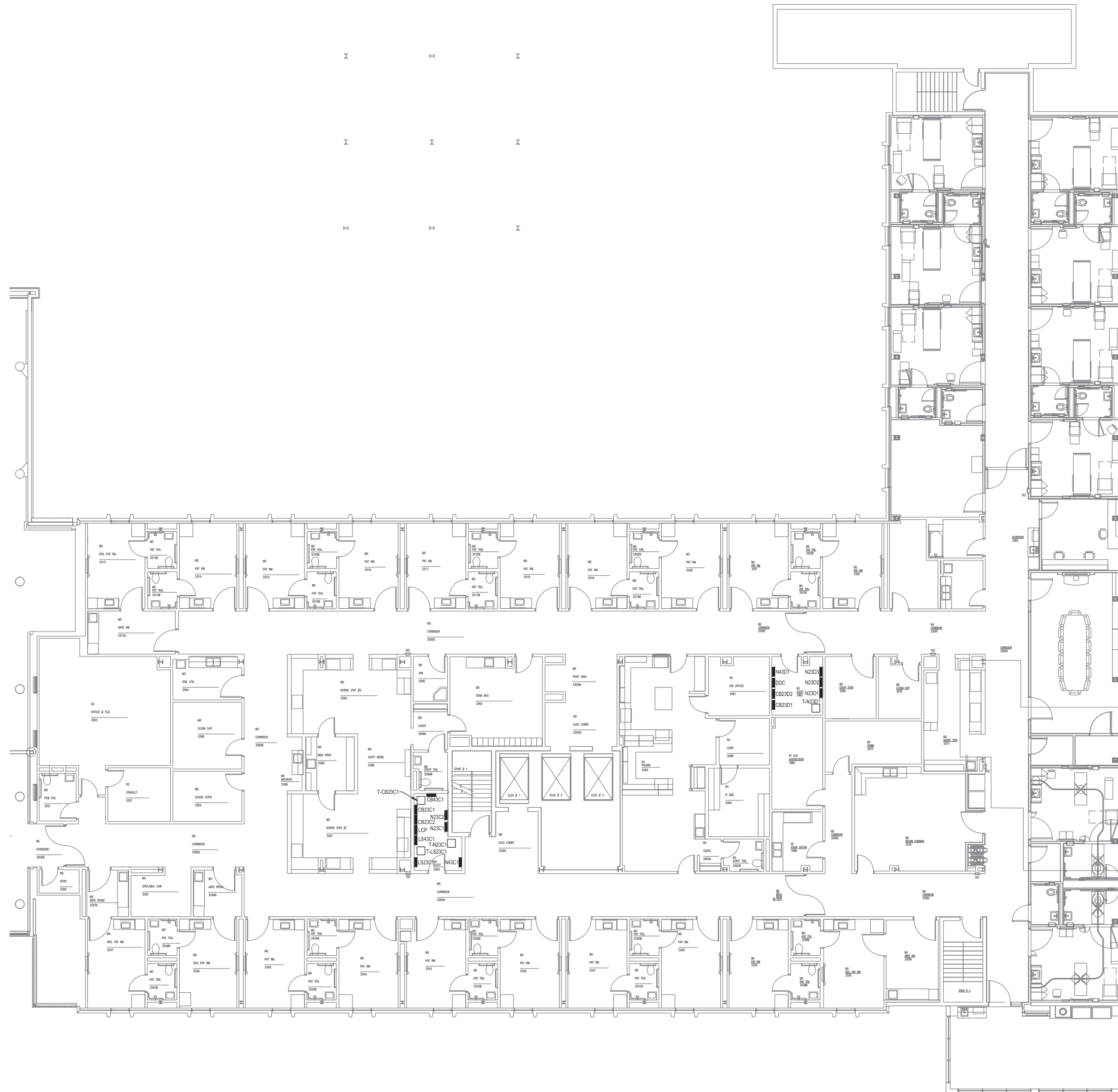
PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-105**

**1** ELECTRICAL THIRD FLOOR PLAN - BLDG BRH WEST  
 E-105 SCALE: 3/32" = 1'-0"

No.	Date	Item





**SHEET NOTES**

- PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall, Rm. 404  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL THIRD FLOOR PLAN -**  
**BLDG BRH EAST**  
**CONSTRUCTION DOCUMENTS**

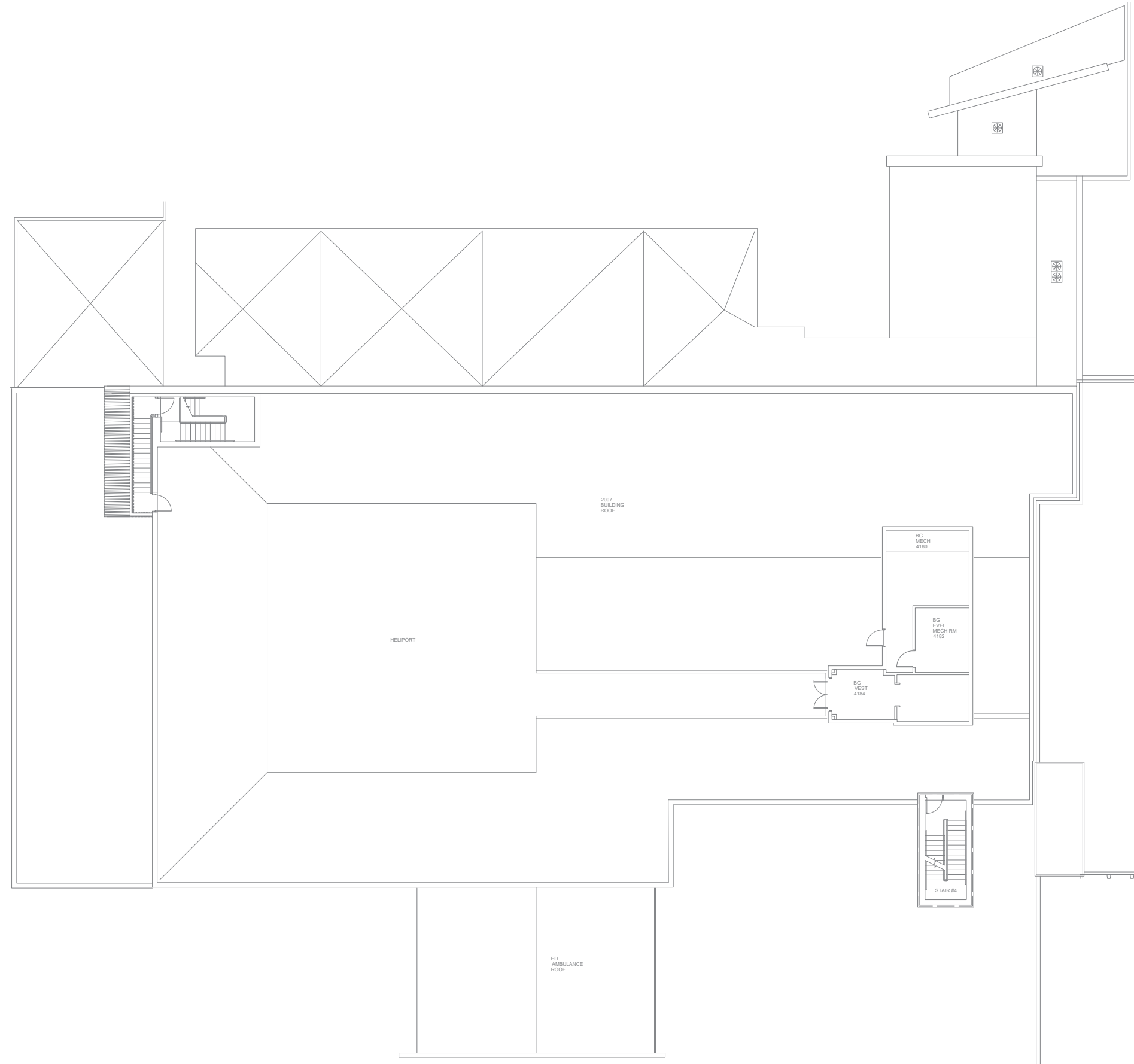
DESIGN *BKH*  
 DRAWN *JDS*  
 CHECKED *BDM*  
 DATE 04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-106**

**1** ELECTRICAL THIRD FLOOR PLAN - BLDG BRH EAST  
 E-106 SCALE: 3/32" = 1'-0"

No.	Date	Item



**SHEET NOTES**

1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

**1** ELECTRICAL FOURTH FLOOR PLAN - BLDG BRH WEST

E-107 SCALE: 3/32" = 1'-0"

No.	Date	Item

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

PROJECT No.  
**E20-139**  
SHEET NUMBER

**E-107**

CONSULTANT :

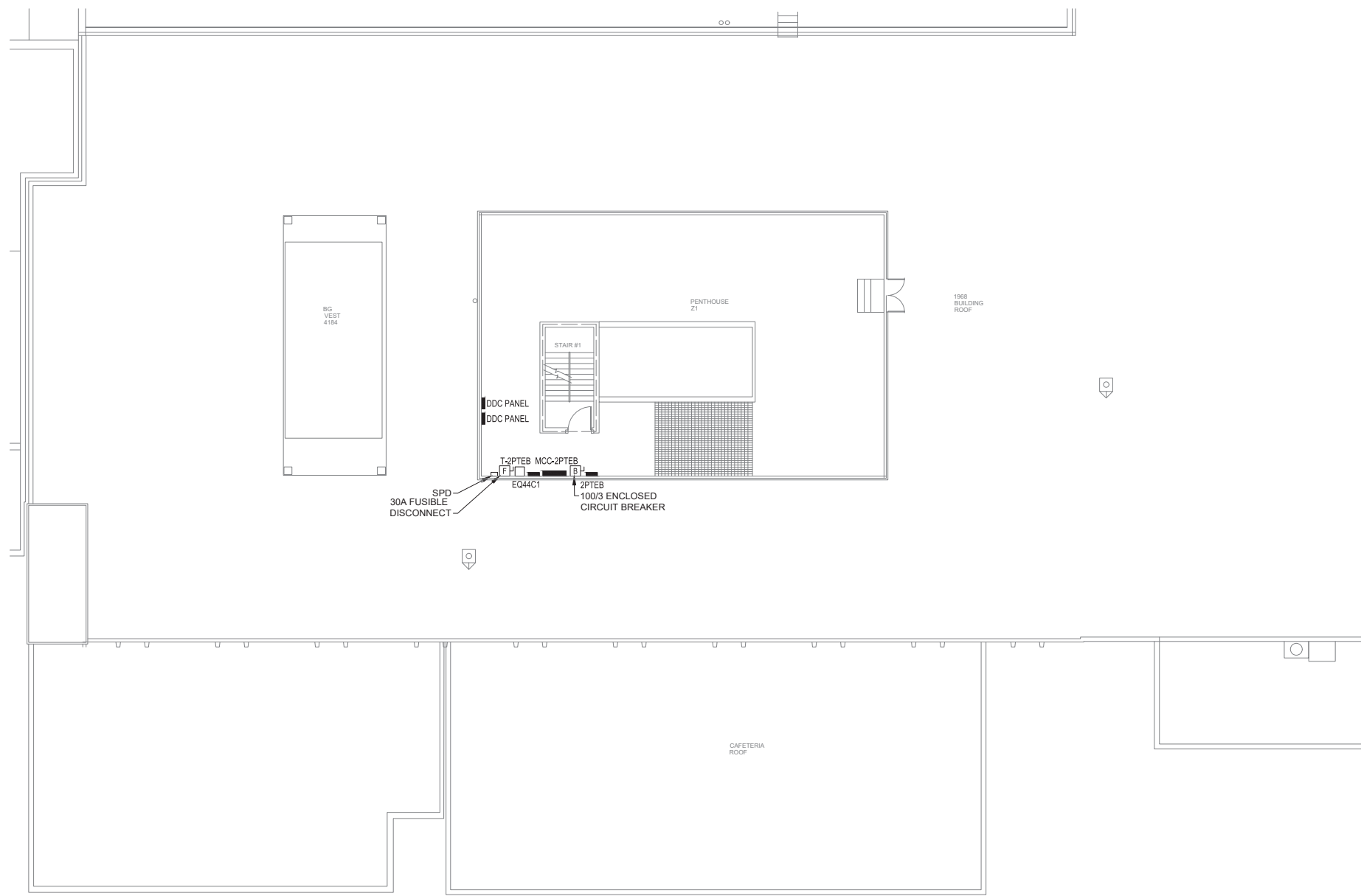


**Juneau, AK**  
9100 Mendota Mall, Rm. 4  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC# 163270



PROJECT :  
**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA**

SHEET TITLE :  
**ELECTRICAL FOURTH FLOOR PLAN -  
BLDG BRH WEST**  
**CONSTRUCTION DOCUMENTS**



**SHEET NOTES**

- PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall Rd, Ste. 4  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL FOURTH FLOOR PLAN -**  
**BLDG BRH SOUTHEAST**  
**CONSTRUCTION DOCUMENTS**

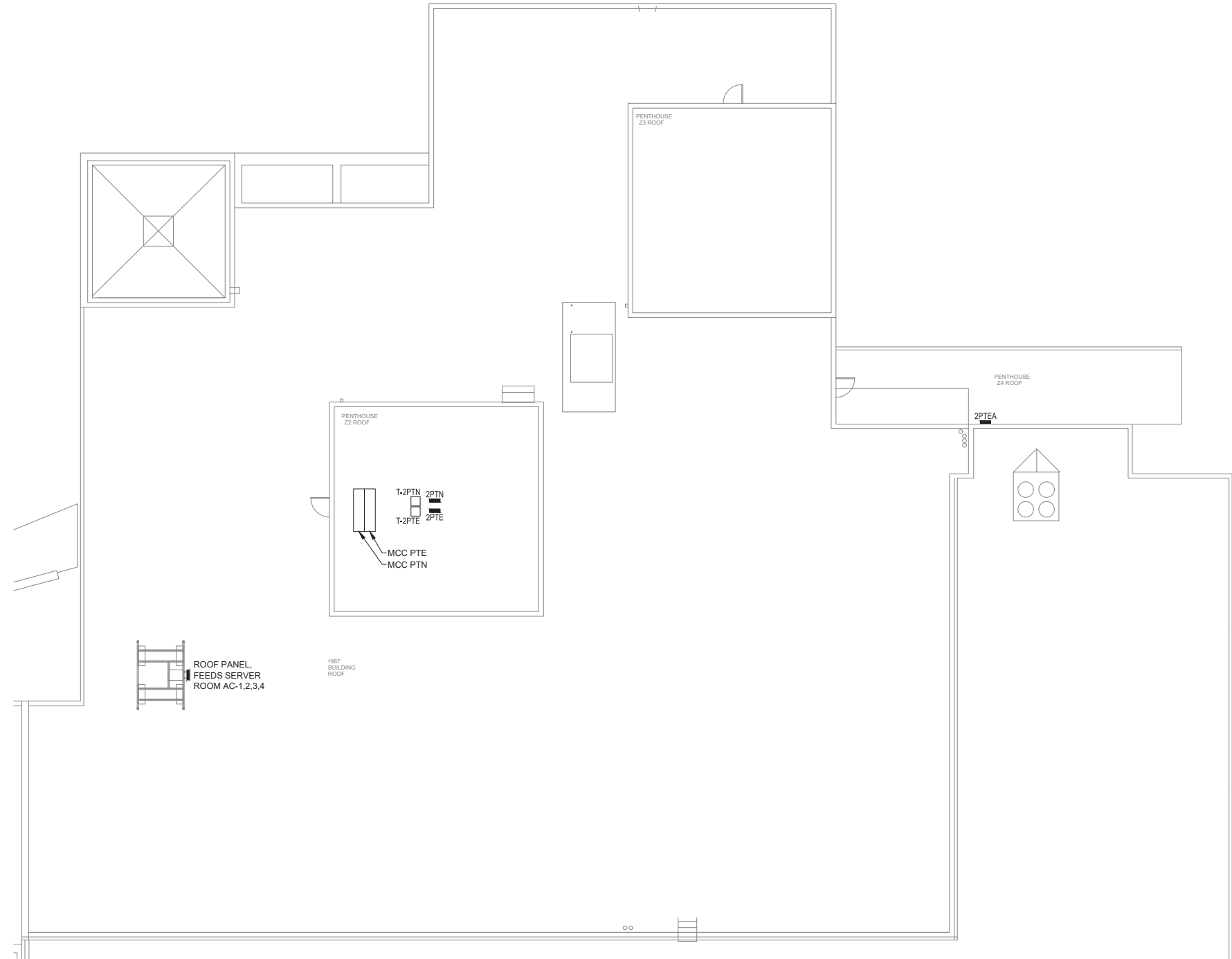
DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-108**

**1** **ELECTRICAL FOURTH FLOOR PLAN - BLDG BRH SOUTHEAST**  
 E-108 SCALE: 3/32" = 1'-0"

No.	Date	Item



**SHEET NOTES**

- 1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall, Rm. 404  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL FOURTH FLOOR PLAN -**  
**BLDG BRH NORTHEAST**  
**CONSTRUCTION DOCUMENTS**

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

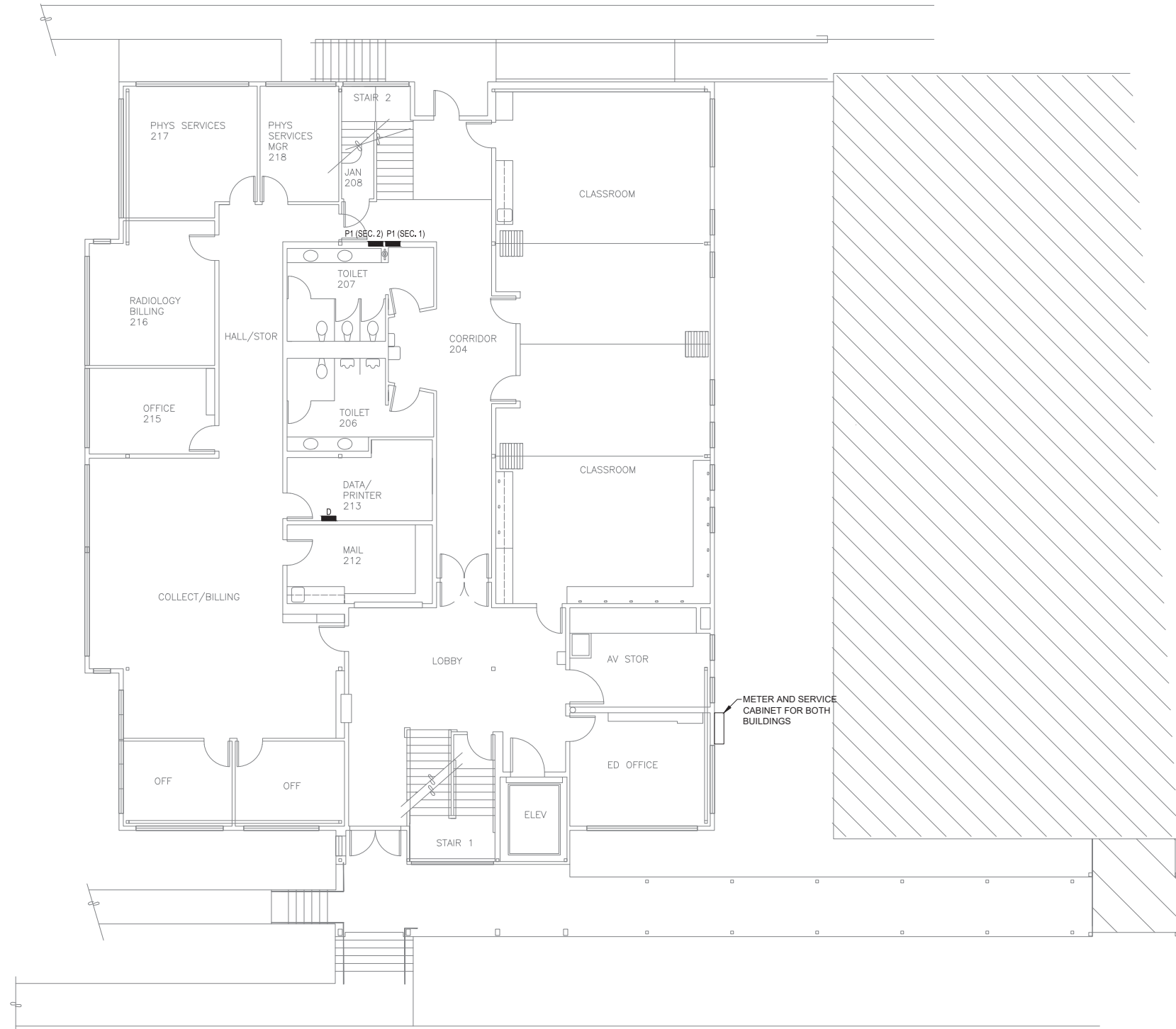
PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-109**

**1** **ELECTRICAL FOURTH FLOOR PLAN - BLDG BRH NORTHEAST**  
 E-109 SCALE: 3/32" = 1'-0"

No.	Date	Item





**SHEET NOTES**

1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9100 Mendota Mall, Rm. 404  
 Juneau, AK 99801  
 Phone: 907.586.0080  
 Fax: 907.586.3771  
 AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL FIRST FLOOR PLAN -**  
**BLDG RVA**  
**CONSTRUCTION DOCUMENTS**

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-111**

**1** **ELECTRICAL FIRST FLOOR PLAN - BLDG RVA**

E-111 SCALE: 1/8" = 1'-0"

No.	Date	Item

SHEET NOTES

- 1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall Rd, Ste. 4  
 Juneau, AK 99801  
 Phone: 907.586.0080  
 Fax: 907.586.3771  
 AEC 163270



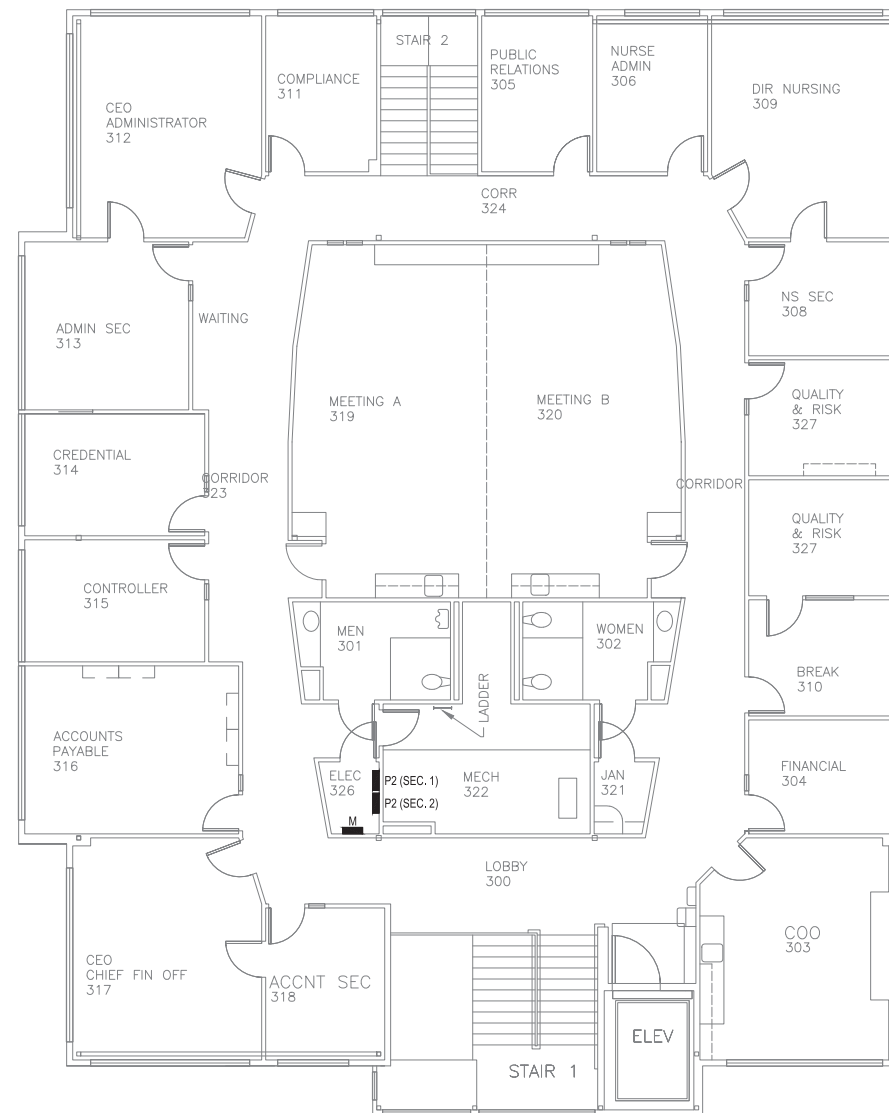
**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL SECOND FLOOR PLAN -**  
**BLDG RVA**  
**CONSTRUCTION DOCUMENTS**

DESIGN *BKH*  
 DRAWN *JDS*  
 CHECKED *BDM*  
 DATE 04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-112**



**1** ELECTRICAL SECOND FLOOR PLAN - BLDG RVA  
 E-112 SCALE: 1/8" = 1'-0"

No.	Date	Item









**SHEET NOTES**

- 1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall Rm. 4  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL FIRST FLOOR PLAN -**  
**BLDG RRC**  
**CONSTRUCTION DOCUMENTS**

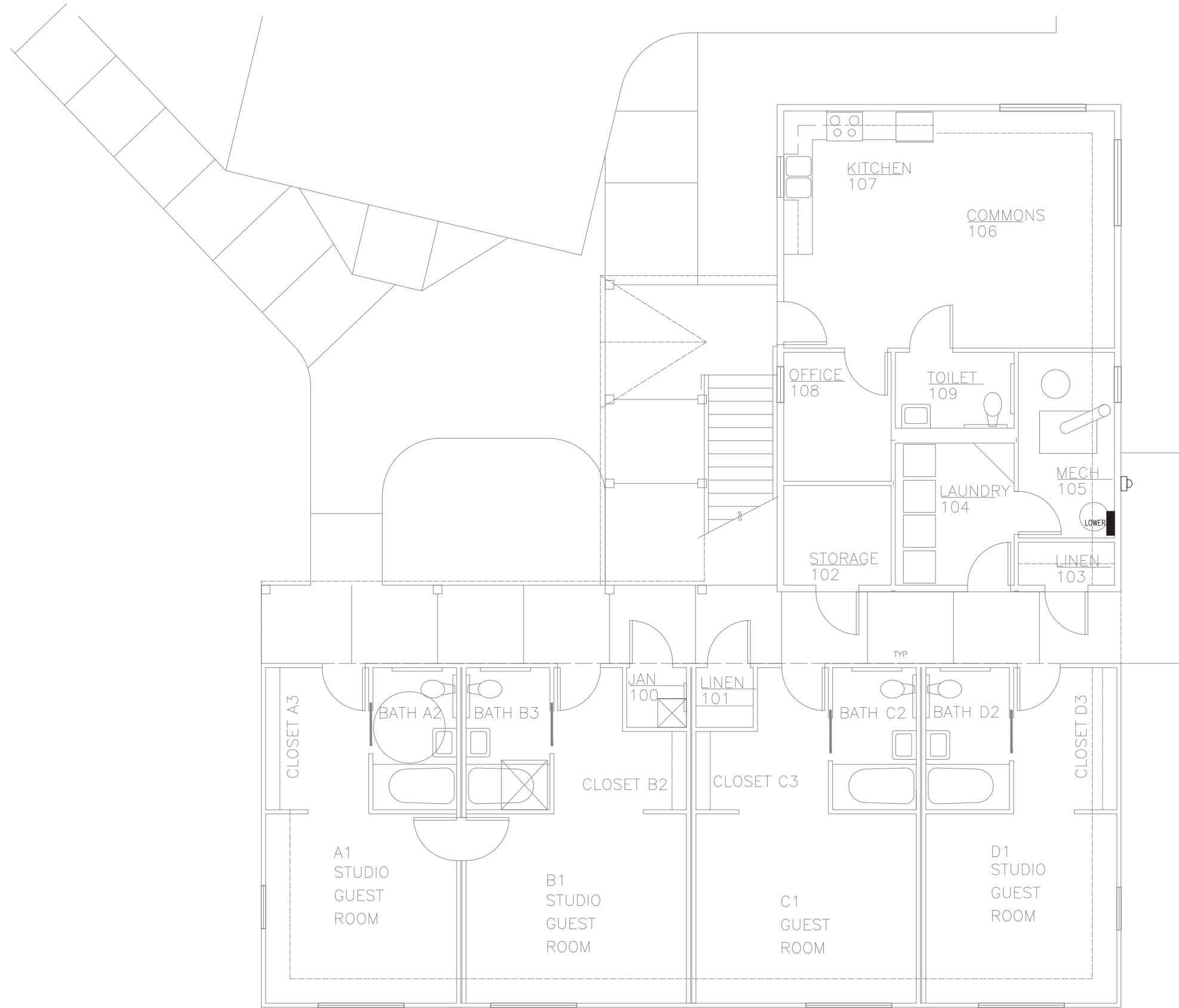
DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-130**

**1** **ELECTRICAL FIRST FLOOR PLAN - BLDG RRC**  
 E-130 SCALE: 1/8" = 1'-0"

No.	Date	Item



**SHEET NOTES**

- 1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall Rd, Ste. 4  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL FIRST FLOOR PLAN -**  
**BLDG BH**  
**CONSTRUCTION DOCUMENTS**

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

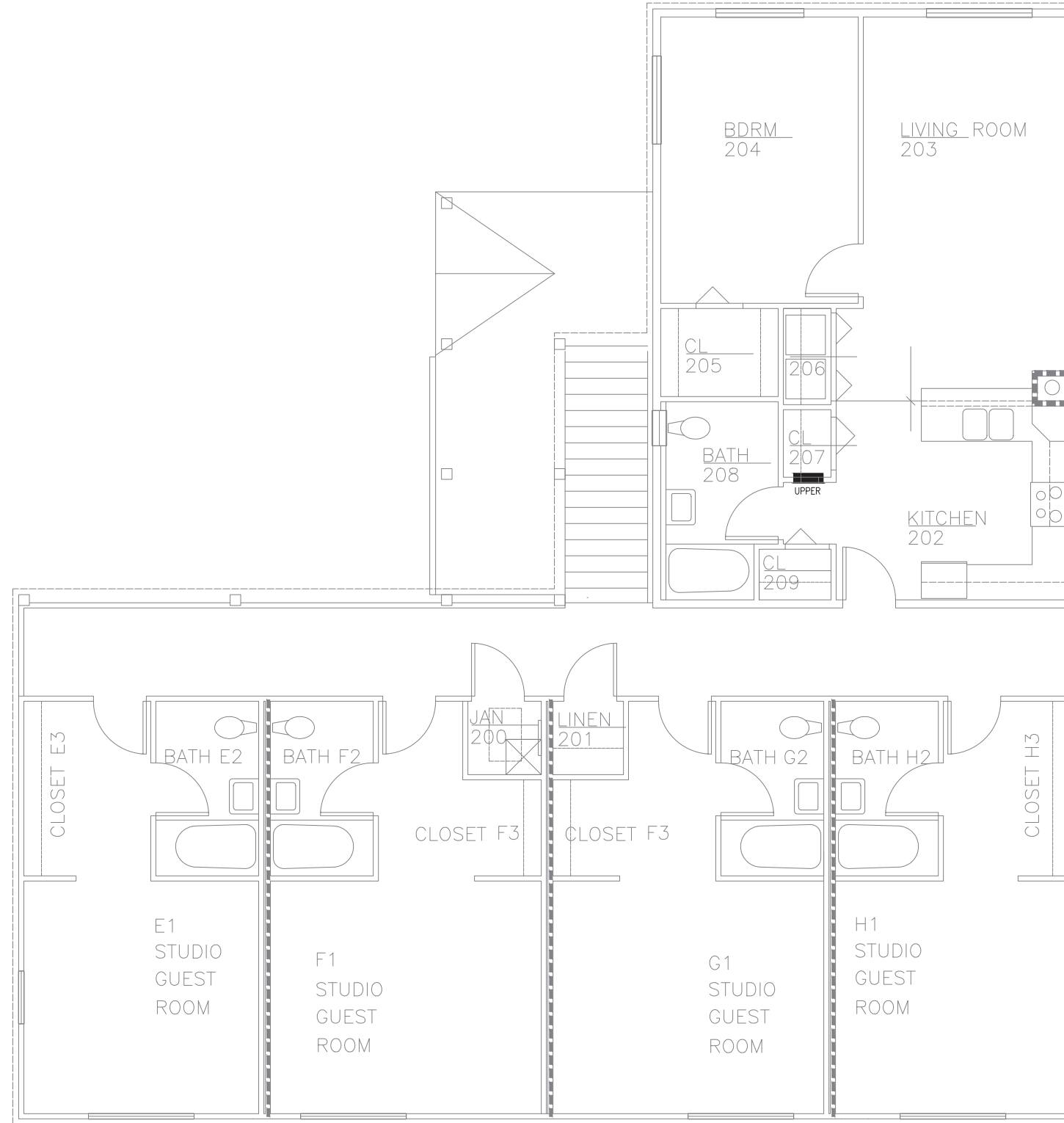
PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-140**

**1** **ELECTRICAL FIRST FLOOR PLAN - BLDG BH**

E-140 SCALE: 1/4" = 1'-0"

No.	Date	Item



**SHEET NOTES**

- 1. PANEL LOCATIONS ARE APPROXIMATE AND SHOWN BASED ON LIMITED FIELD AND RECORD DRAWING INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.

CONSULTANT :



**Juneau, AK**  
 9100 Merchants Mall Rm. 314  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ELECTRICAL SECOND FLOOR PLAN -**  
**BLDG BH**  
**CONSTRUCTION DOCUMENTS**

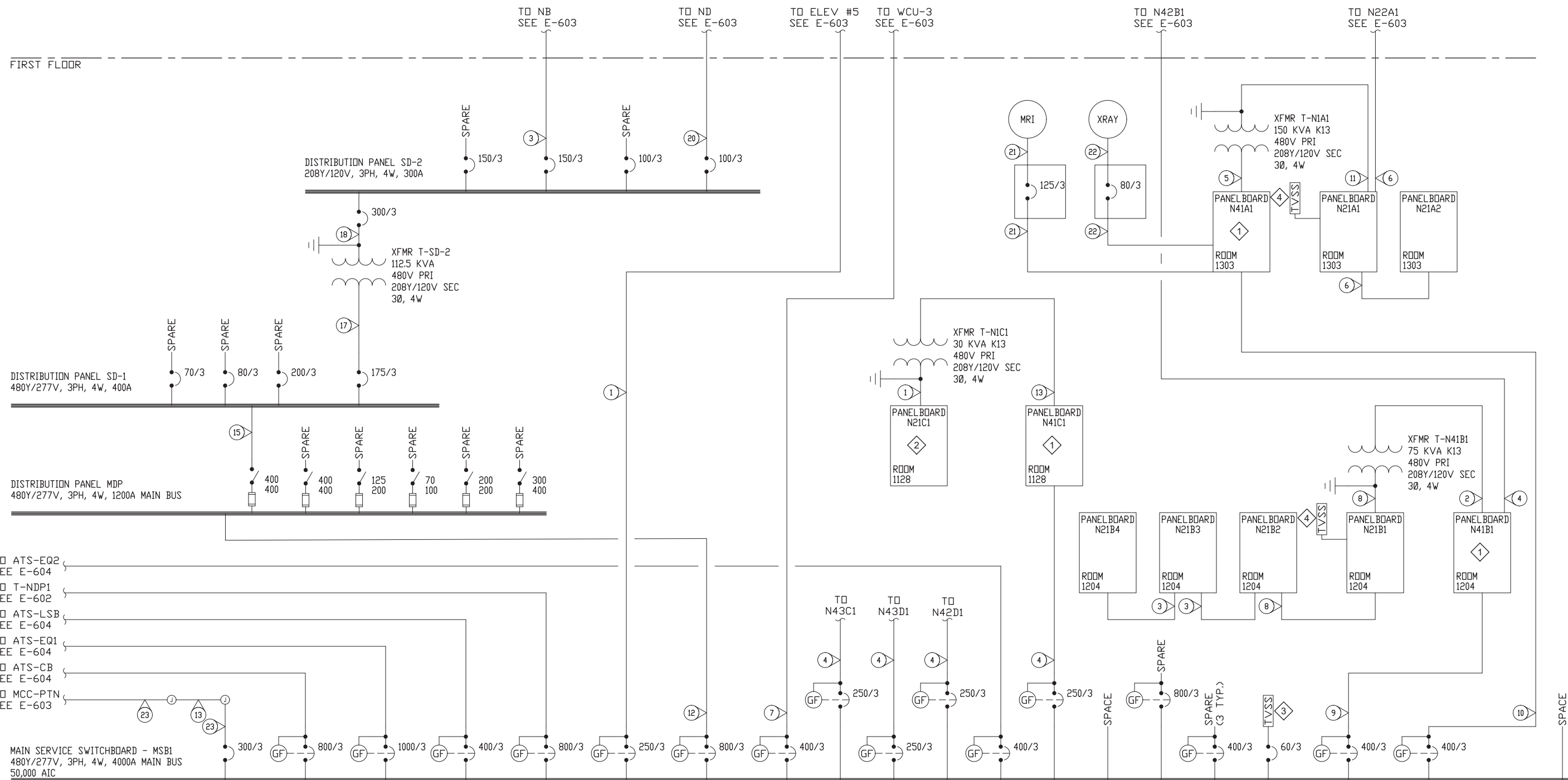
DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-141**

**1** ELECTRICAL SECOND FLOOR PLAN - BLDG BH  
 E-141 SCALE: 1/4" = 1'-0"

No.	Date	Item



- TO ATS-EQ2 SEE E-604
- TO T-NDP1 SEE E-602
- TO ATS-LSB SEE E-604
- TO ATS-EQ1 SEE E-604
- TO ATS-CB SEE E-604
- TO MCC-PTN SEE E-603

FEEDER SCHEDULE					
NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1	4 - #2, 1 - #6 G.		1-1/4"	1	
2	3 - #1, 1 - #6 G.		1-1/2"	1	
3	5 - #2/0, 1 - #6 G.		2"	1	
4	4 - #4/0, 1 - #4 G.		2-1/2"	1	
5	3 - #4/0, 1 - #4 G.		2"	1	
6	5 - 250KCMIL, 1 - #4 G.		3"	1	
7	3 - 500KCMIL, 1 - #3 G.		3"	1	
8	5 - 500KCMIL, 1 - #4 G.		3"	1	
9	4 - 500KCMIL, 1 - #4 G.		3"	1	
10	4 - 600KCMIL, 1 - #2 G.		3-1/2"	1	
11	5 - 400KCMIL, 1 - #1 G.		3-1/2"	2	
12	4 - 600KCMIL, 1 - #2 G.		3-1/2"	2	

FEEDER SCHEDULE					
NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
13	3 - 350KCMIL, 1 - #4 G.		2-1/2"	1	
14	4 - 400KCMIL		4"	12	
15	4 - 500KCMIL, 1 - #2 G.		4"	1	
16				1	
17	3 - 3/0, 1 - #4 G.		1-1/2"	1	
18	4 - 350KCMIL, 1 - #6 G.		2-1/2"	1	
19	4 - 2/0, 1 - #6 G.		2"	1	
20	4 - #1, 1 - #8 G.		2"	1	
21	4 - #1, 1 - #8 G.		1-1/2"	1	
22	4 - #4, 1 - #10 G.		1"	1	
23	3 - 350KCMIL, 1 - #4 G.		3"	1	

- SHEET KEYNOTES** x
1. PROVIDE TRANSTECTOR MODEL B93-00-2740. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
  2. PROVIDE TRANSTECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
  3. EXISTING TRANSTECTOR MODEL B93-00-6740.
  4. EXISTING SQUARE D SURGELOGIC TYPE HWA.

**1 PARTIAL ONE LINE DIAGRAM - BRH MAIN**  
E-601 SCALE: NO SCALE

No.	Date	Item

CONSULTANT:

Juneau, AK  
9100 Merchants Mall, Rm. 404  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC# 63270

**RESPEC**

PROJECT:  
**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA**

SHEET TITLE:  
**PARTIAL ONE LINE DIAGRAM - BRH  
MAIN**

CONSTRUCTION DOCUMENTS

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

PROJECT No.  
**E20-139**  
SHEET NUMBER  
**E-601**

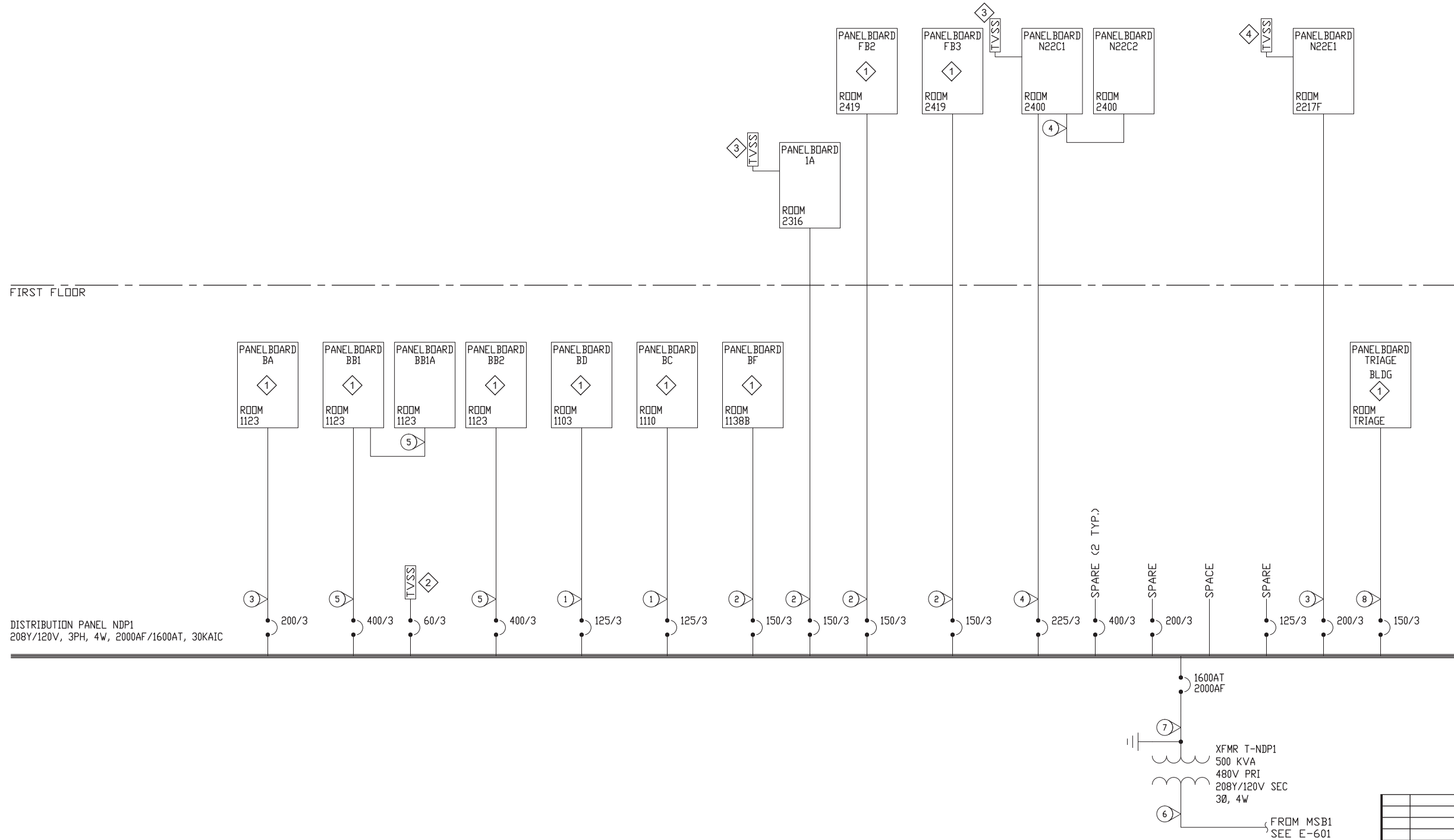
FEEDER SCHEDULE					
NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1	4 - #1, 1 - #6 G.		1-1/2"	1	
2	4 - #1/0, 1 - #6 G.		2"	1	
3	4 - #3/0, 1 - #6 G.		2"	1	
4	5 - 250KCMIL, 1 - #4 G.		3"	1	
5	4 - 600KCMIL, 1 - #2 G.		3-1/2"	1	
6	3 - 600KCMIL, 1 - #1/0 G. EA.		3"	2	
7	4 - 600KCMIL, 1 - #4/0 G. EA.		3-1/2"	4	
8	4 - 1/0, 1 - #6 G.		1-1/2"	1	

SHEET KEYNOTES

1. PROVIDE TRANSTECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
2. EXISTING TRANSTECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
3. EXISTING TVSS NOT FULLY FUNCTIONAL. REPLACE DAMAGED COMPONENTS. EXISTING TVSS IS A TRANSTECTOR APEX SERIES.
4. EXISTING TVSS NOT FULLY FUNCTIONAL. REPLACE DAMAGED COMPONENTS. EXISTING TVSS IS A SQUARE D SURGELOGIC SERIES.

SECOND FLOOR

FIRST FLOOR



CONSULTANT :



Juneau, AK  
9100 Merchants Mall Rm. 4  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC# 163270



PROJECT :  
**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION**  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA

SHEET TITLE :  
**PARTIAL ONE LINE DIAGRAM - BRH  
MAIN**

CONSTRUCTION DOCUMENTS

DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022

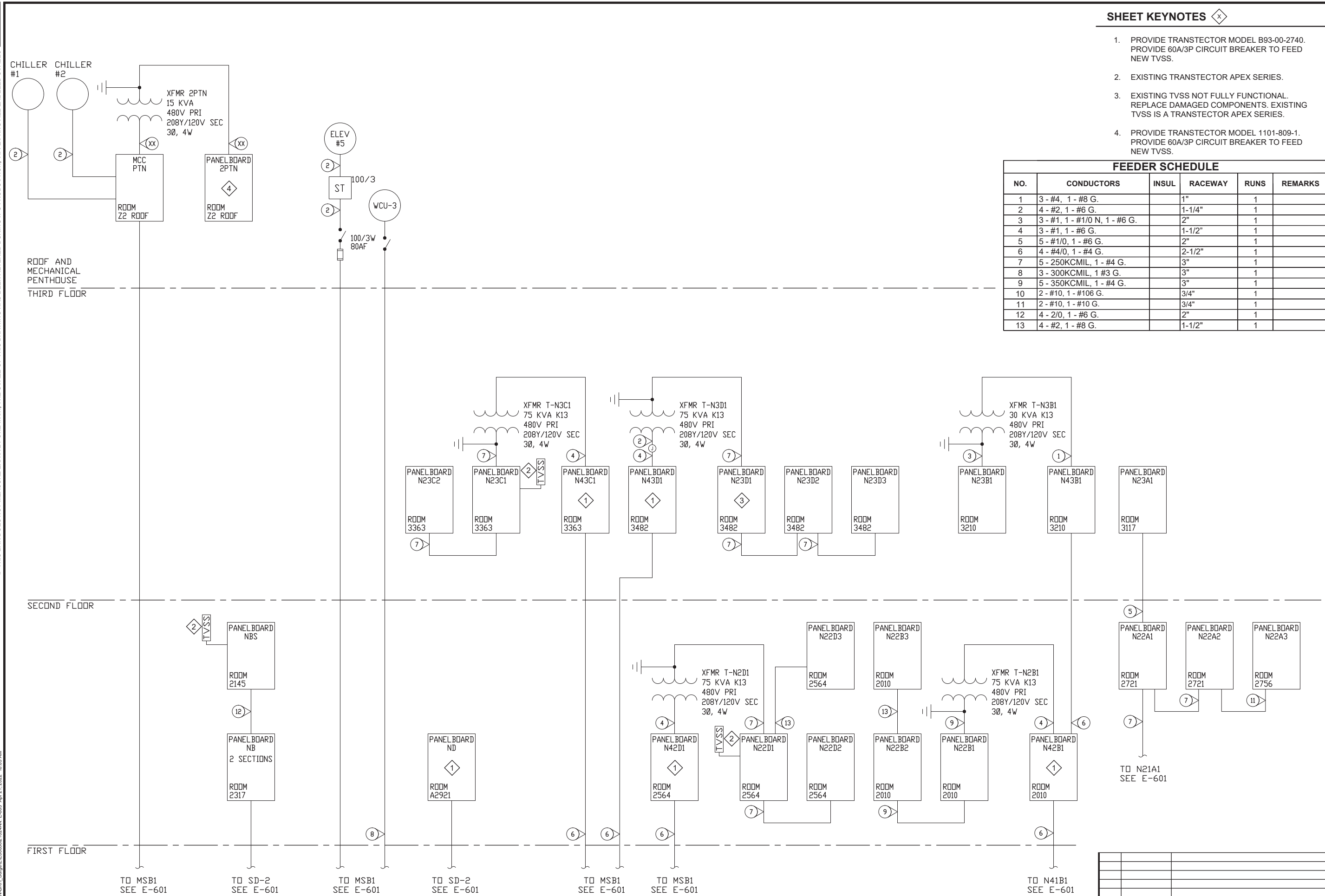
PROJECT No.  
**E20-139**  
SHEET NUMBER  
**E-602**

**1 PARTIAL ONE LINE DIAGRAM - BRH MAIN**  
E-602 SCALE: NO SCALE

No.	Date	Item

1"

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION. AFFECTING ALL LABELED SCALES



SHEET KEYNOTES

1. PROVIDE TRANSTECTOR MODEL B93-00-2740. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
2. EXISTING TRANSTECTOR APEX SERIES.
3. EXISTING TVSS NOT FULLY FUNCTIONAL. REPLACE DAMAGED COMPONENTS. EXISTING TVSS IS A TRANSTECTOR APEX SERIES.
4. PROVIDE TRANSTECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.

FEEDER SCHEDULE

NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1	3 - #4, 1 - #8 G.		1"	1	
2	4 - #2, 1 - #6 G.		1-1/4"	1	
3	3 - #1, 1 - #1/0 N, 1 - #6 G.		2"	1	
4	3 - #1, 1 - #6 G.		1-1/2"	1	
5	5 - #1/0, 1 - #6 G.		2"	1	
6	4 - #4/0, 1 - #4 G.		2-1/2"	1	
7	5 - 250KCMIL, 1 - #4 G.		3"	1	
8	3 - 300KCMIL, 1 #3 G.		3"	1	
9	5 - 350KCMIL, 1 - #4 G.		3"	1	
10	2 - #10, 1 - #106 G.		3/4"	1	
11	2 - #10, 1 - #10 G.		3/4"	1	
12	4 - 2/0, 1 - #6 G.		2"	1	
13	4 - #2, 1 - #8 G.		1-1/2"	1	

CONSULTANT:

BRIAN K. HAYDEN  
EE 12458  
REGISTERED PROFESSIONAL ENGINEER

Juneau, AK  
9160 Merchants Mall, Rm. 404  
Juneau, AK 99801  
Phone: 907.586.0080  
Fax: 907.586.3771  
AEC 63270

PROJECT:

**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION**

155 SOUTH SEWARD ST.  
JUNEAU, ALASKA

SHEET TITLE:

**PARTIAL ONE LINE DIAGRAM - BRH  
MAIN**

CONSTRUCTION DOCUMENTS

DESIGN	BKH
DRAWN	JDS
CHECKED	BKH
DATE	04/21/2022

PROJECT No.  
**E20-139**

SHEET NUMBER  
**E-603**

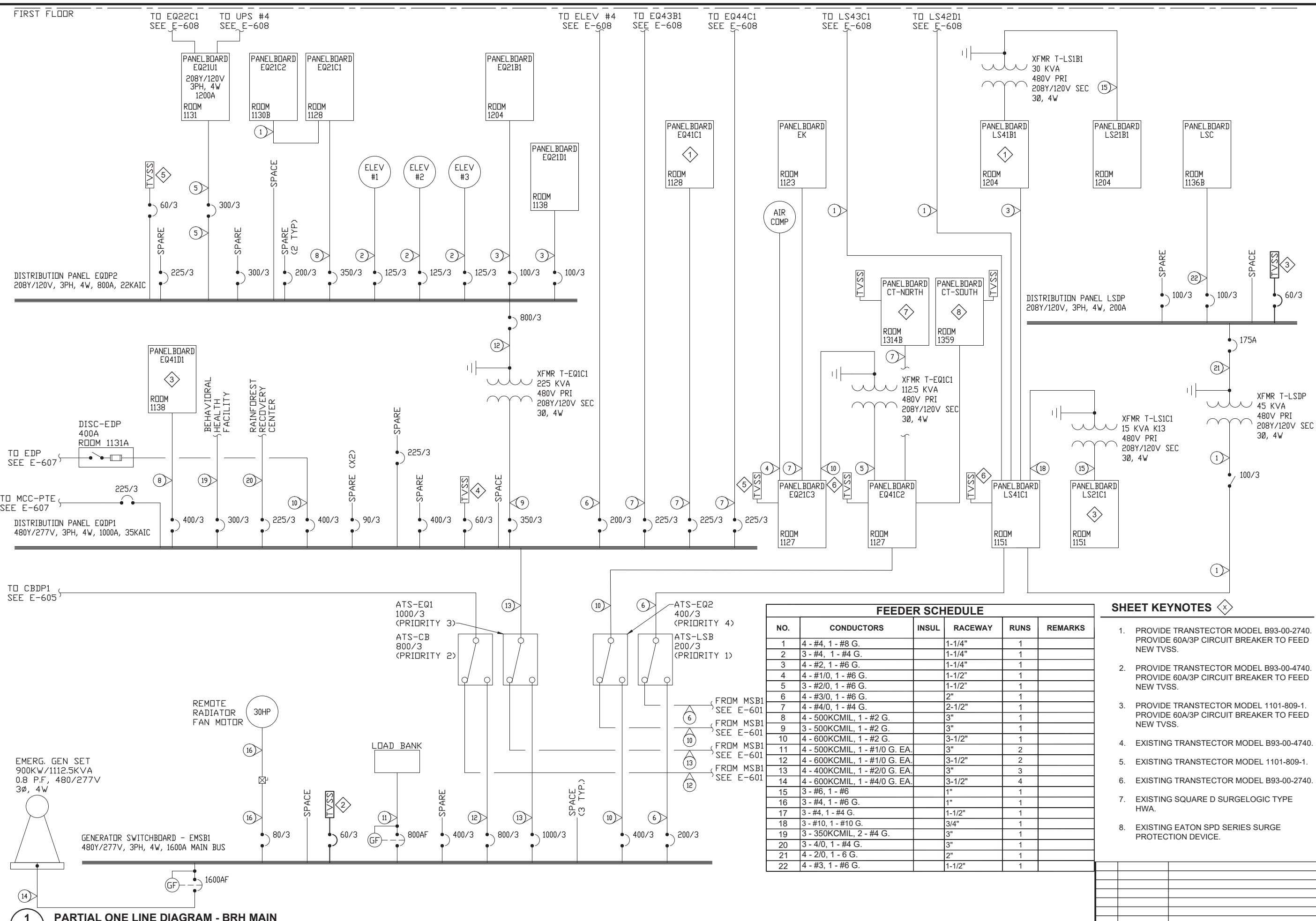
No.	Date	Item

REVISIONS

**1 PARTIAL ONE LINE DIAGRAM - BRH MAIN**  
E-603 SCALE: NO SCALE

N:\Projects\21024AN-BRH\_Surge\E-603\21024AN-E-603.dwg Apr 21, 2022 10:03 AM

1" IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES



- SHEET KEYNOTES**
- PROVIDE TRANSTECTOR MODEL B93-00-2740. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
  - PROVIDE TRANSTECTOR MODEL B93-00-4740. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
  - PROVIDE TRANSTECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
  - EXISTING TRANSTECTOR MODEL B93-00-4740.
  - EXISTING TRANSTECTOR MODEL 1101-809-1.
  - EXISTING TRANSTECTOR MODEL B93-00-2740.
  - EXISTING SQUARE D SURGELOGIC TYPE HWA.
  - EXISTING EATON SPD SERIES SURGE PROTECTION DEVICE.

**1 PARTIAL ONE LINE DIAGRAM - BRH MAIN**  
E-604 SCALE: NO SCALE

CONSULTANT:

Juneau, AK  
9100 Merchants Mall, Rm. 404  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC# 63270

**RESPEC**

PROJECT:  
**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION**  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA

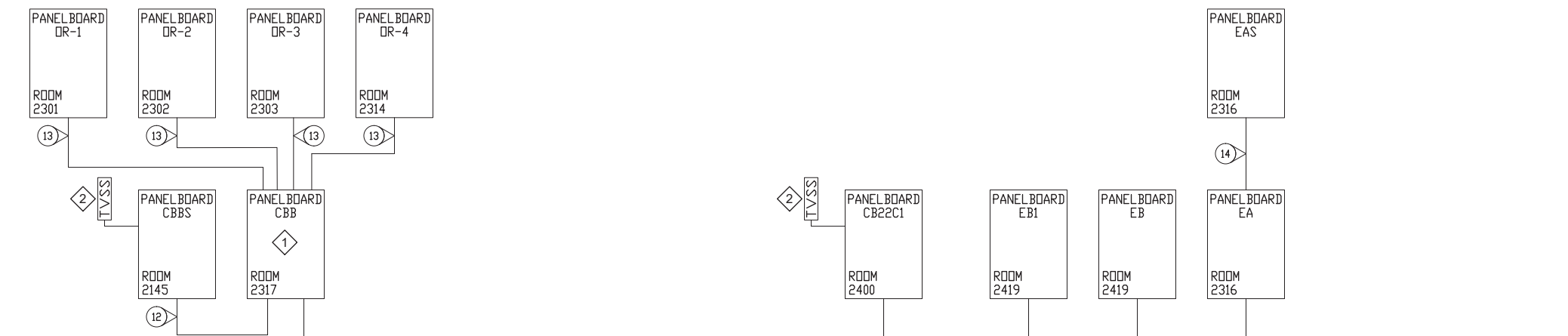
SHEET TITLE:  
**PARTIAL ONE LINE DIAGRAM - BRH  
MAIN**

CONSTRUCTION DOCUMENTS

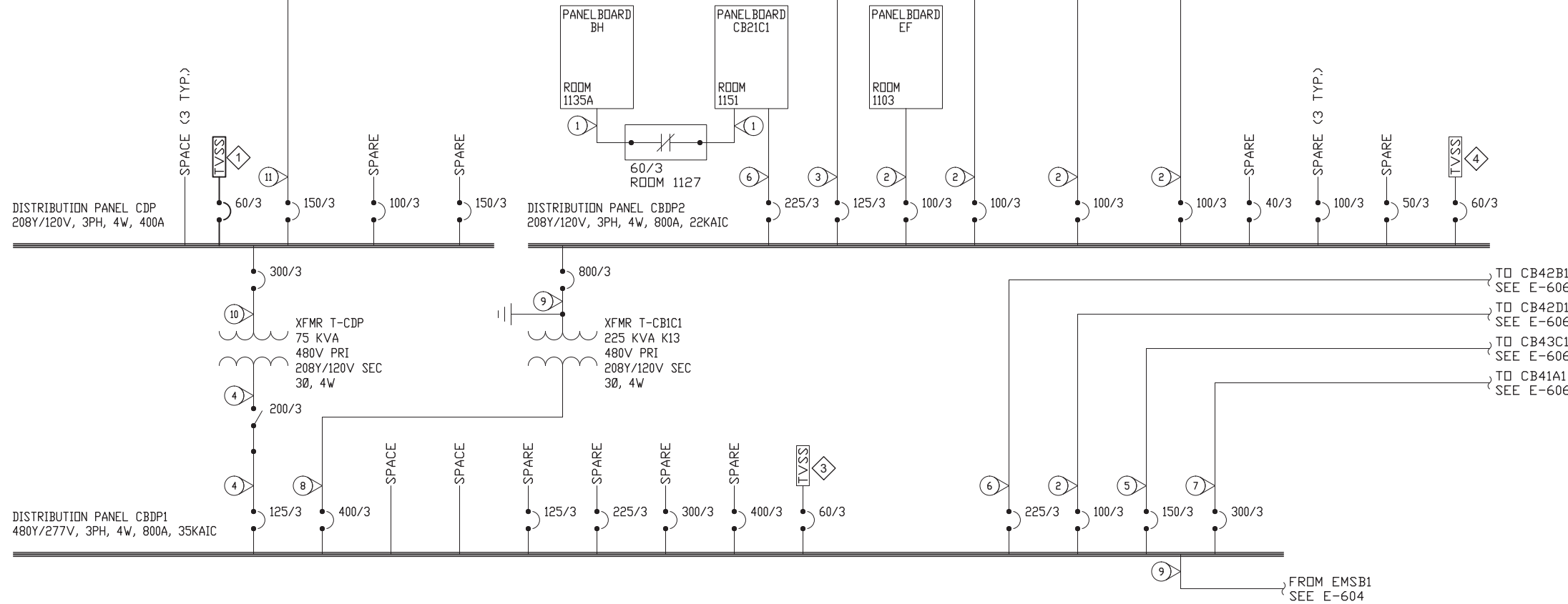
DESIGN	BKH	
DRAWN	JDS	
CHECKED	BDM	
DATE	04/21/2022	
PROJECT No. <b>E20-139</b>		
SHEET NUMBER <b>E-604</b>		
No.	Date	Item
REVISIONS		



SECOND FLOOR



FIRST FLOOR



SHEET KEYNOTES

1. PROVIDE TRANSTECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
2. EXISTING TRANSTECTOR APEX SERIES.
3. EXISTING TRANSTECTOR MODEL B93-00-4740.
4. EXISTING TRANSTECTOR MODEL 1101-809-1.

FEEDER SCHEDULE

NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1	4 - #4, 1 - #8 G.		1-1/4"	1	
2	4 - #2, 1 - #6 G.		1-1/4"	1	
3	3 - #1, 1 - #1/0 N, 1 - #6 G.		2"	1	
4	3 - #1, 1 - #6 G.		1-1/2"	1	
5	4 - #1/0, 1 - #6 G.		1-1/2"	1	
6	4 - #4/0, 1 - #4 G.		2-1/2"	1	
7	4 - 350KCMIL, 1 - #4 G.		3"	1	
8	3 - 600KCMIL, 1 - #2 G.		3-1/2"	1	
9	4 - 600KCMIL, 1 - #1/0 G. EA.		3-1/2"	2	
10	4 - 350KCMIL, 1 - #4 G.		3-1/2"	1	
11	4 - #2/0, 1 - #8 G.		2"	1	
12	4 - #3, 1 - #8 G.		1-1/2"	1	
13	2 - #6, 1 - #6 G.		1"	1	
14	4 - #2, 1 - #6 G.		2"	1	



**Juneau, AK**  
 9100 Mendota Mall, Rm. 404  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC/C 63270

PROJECT :  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

SHEET TITLE :  
**PARTIAL ONE LINE DIAGRAM - BRH MAIN**

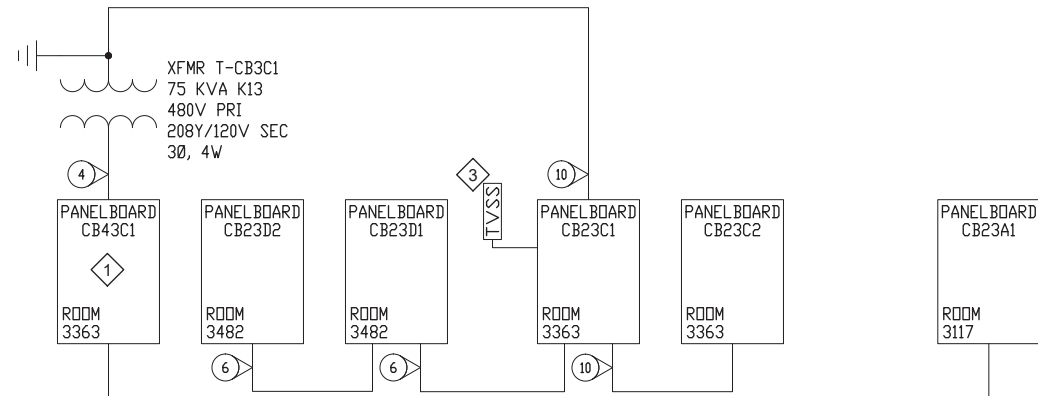
DESIGN	BKH
DRAWN	JDS
CHECKED	BDM
DATE	04/21/2022
PROJECT No.	E20-139
SHEET NUMBER	E-605

**1 PARTIAL ONE LINE DIAGRAM - BRH MAIN**  
 E-605 SCALE: NO SCALE

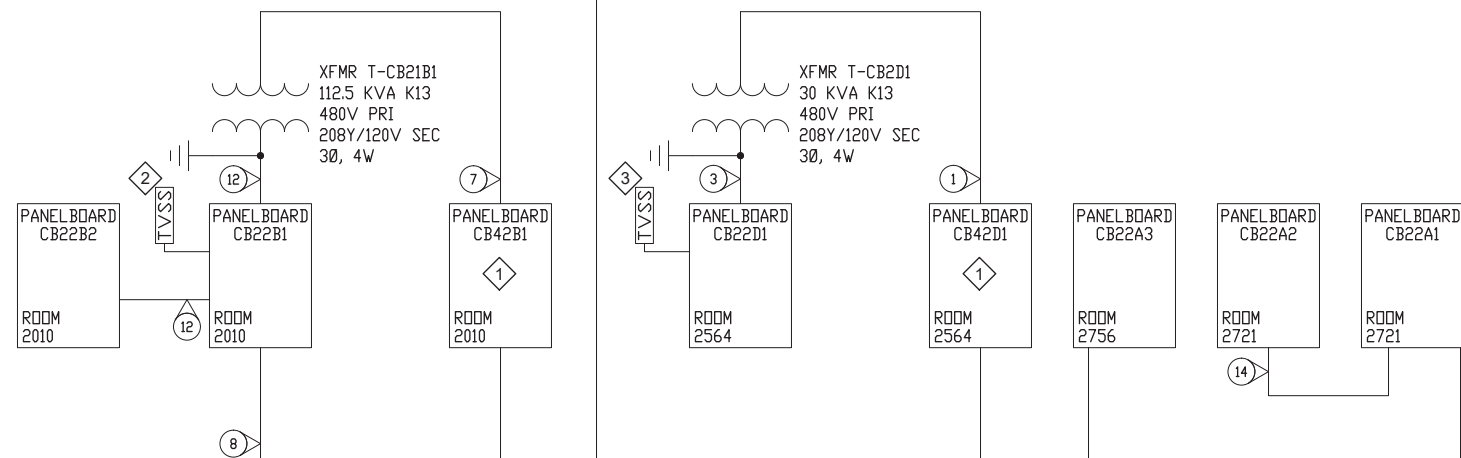
No.	Date	Item

IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES

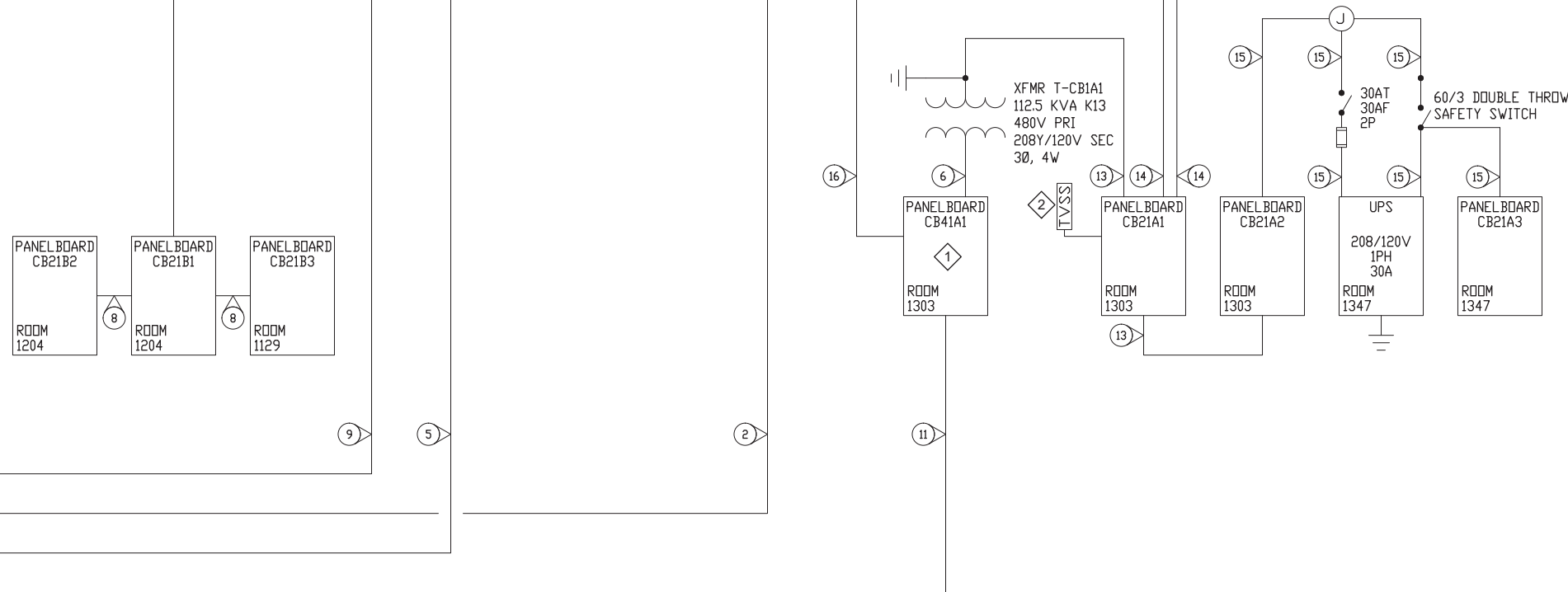
ROOF AND MECHANICAL PENTHOUSE  
THIRD FLOOR



SECOND FLOOR



FIRST FLOOR



FROM CBDP1  
SEE E-605  
FROM CBDP1  
SEE E-605  
FROM CBDP1  
SEE E-605  
FROM CBDP1  
SEE E-605

SHEET KEYNOTES

1. PROVIDE TRANSTECTOR MODEL B93-00-2740. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
2. EXISTING SQUARE D SURGE LOGIC TYPE HWA.
3. EXISTING TRANSTECTOR APEX SERIES.

FEEDER SCHEDULE

NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1	3 - #4, 1 - #8 G.		1"	1	
2	4 - #2, 1 - #6 G.		1-1/4"	1	
3	3 - #1, 1 - #1/0 N, 1 - #6 G.		2"	1	
4	3 - #1, 1 - #6 G.		1-1/2"	1	
5	4 - #1/0, 1 - #6 G.		1-1/2"	1	
6	5 - #2/0, 1 - #6 G.		2"	1	
7	3 - #2/0, 1 - #6 G.		1-1/2"	1	
8	5 - #4/0, 1 - #4 G.		2-1/2"	1	
9	4 - #4/0, 1 - #4 G.		2-1/2"	1	
10	5 - 250KCMIL, 1 - #4 G.		3"	1	
11	4 - 350KCMIL, 1 - #4 G.		3"	1	
12	5 - 600KCMIL, 1 - #2 G.		4"	1	
13	5 - 250KCMIL, 1 - #2 G. EA.		3"	2	
14	5 - #2, 1 - #6 G.		1-1/4"	1	
15	3 - #6, 1 - #6 G.		1"	1	
16	2 - #10, 1 - #10 G.		3/4"	1	

CONSULTANT :



Juneau, AK  
9100 Merchants Mall Bldg. 4  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC 163270



PROJECT :  
**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION**  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA

SHEET TITLE :  
**PARTIAL ONE LINE DIAGRAM - BRH  
MAIN**  
CONSTRUCTION DOCUMENTS

DESIGN: BKH  
DRAWN: JDS  
CHECKED: BDM  
DATE: 04/21/2022

PROJECT No.  
**E20-139**  
SHEET NUMBER  
**E-606**

No.	Date	Item

**1 PARTIAL ONE LINE DIAGRAM - BRH MAIN**  
E-606 SCALE: NO SCALE

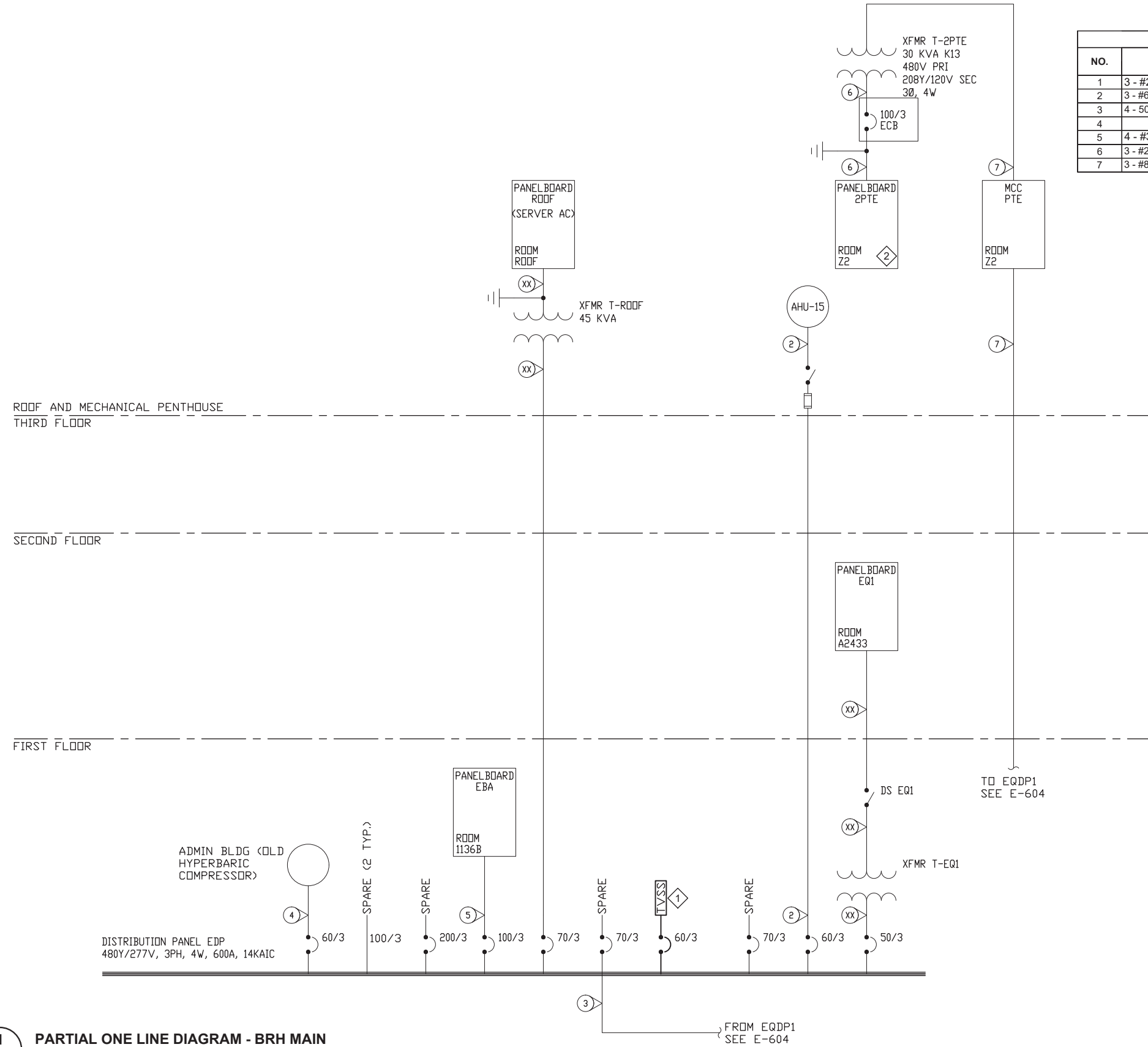
N:\Projects\21024AN-BRH\_Suppl\E\060602\024AN-E-606\_Apr 21, 2022 10:04 AM

SHEET KEYNOTES

1. PROVIDE TRANSECTOR MODEL B93-00-2740. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
2. PROVIDE TRANSECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.

FEEDER SCHEDULE

NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1	3 - #2, 1 - #6 G.		1-1/4"	1	
2	3 - #6, 1 - #8 G.		1"	1	
3	4 - 500KCMIL, 1 - #3 G.		4"	1	
4			1-1/4"	1	
5	4 - #3, 1 - #8 G.		1-1/2"	1	
6	3 - #2, 1 - #8 G.		1-1/4"	1	
7	3 - #8, 1 - #10 G.		3/4"	1	



**1** PARTIAL ONE LINE DIAGRAM - BRH MAIN  
E-607 SCALE: NO SCALE

CONSULTANT :



**Juneau, AK**  
9100 Mendota Mall, Rm. 316-4  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC# 63270

PROJECT :  
**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA**

SHEET TITLE :  
**PARTIAL ONE LINE DIAGRAM - BRH  
MAIN  
CONSTRUCTION DOCUMENTS**

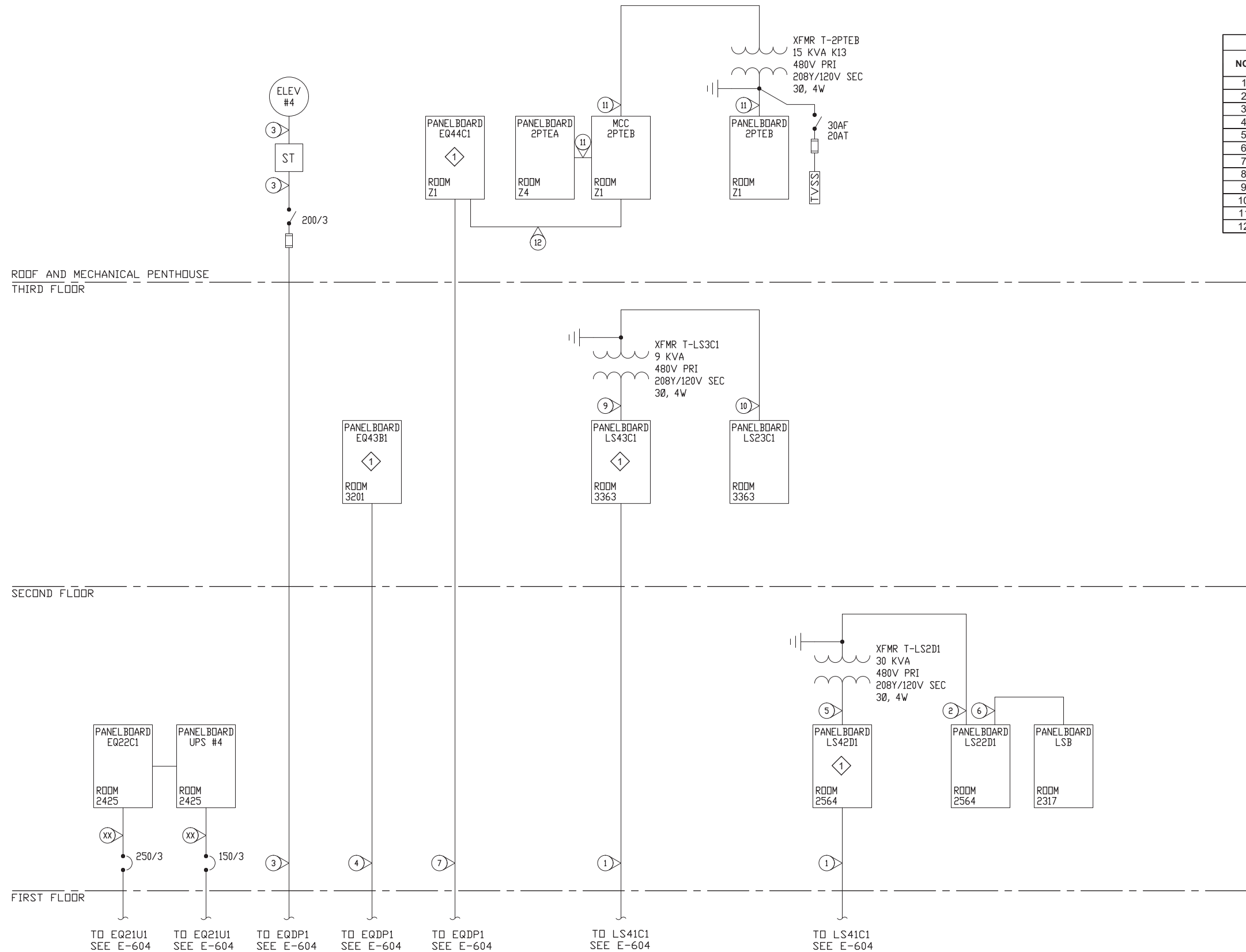
DESIGN	BKH	
DRAWN	JDS	
CHECKED	BDM	
DATE	04/21/2022	
PROJECT No. <b>E20-139</b>		
SHEET NUMBER <b>E-607</b>		
No.	Date	Item
REVISIONS		

**SHEET KEYNOTES**

1. PROVIDE TRANSECTOR MODEL B93-00-2740.  
PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.

**FEEDER SCHEDULE**

NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1	4 - #4, 1 - #8 G.		1-1/4"	1	
2	4 - #2, 1 - #6 G.		1-1/4"	1	
3	4 - #3/0, 1 - #6 G.		2"	1	
4	4 - #4/0, 1 - #4 G.		2-1/2"	1	
5	3 - #6, 1 - #6		1"	1	
6	4 - #6, 1 - #6		1"	1	
7			3"	1	
8	3 - #4/0, 1 - #4 G.		2-1/2"	1	
9	3 - #10, 1 - #10 G.		1"	1	
10	4 - #10, 1 - #10 G.		1"	1	
11	4 - #8, 1 - #10 G.		1"	1	
12	3 - #4/0, 1 - #4 G.		2-1/2"	1	



CONSULTANT :



**Juneau, AK**  
 9100 Merchants Mall, Rm. 404  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC/C 63270



**PROJECT :**  
 BARTLETT REGIONAL CAMPUS  
 TVSS SURGE PROTECTION  
 155 SOUTH SEWARD ST.  
 JUNEAU, ALASKA

**SHEET TITLE :**  
 PARTIAL ONE LINE DIAGRAM - BRH  
 MAIN  
 CONSTRUCTION DOCUMENTS

DESIGN: BKH  
 DRAWN: JDS  
 CHECKED: BDM  
 DATE: 04/21/2022

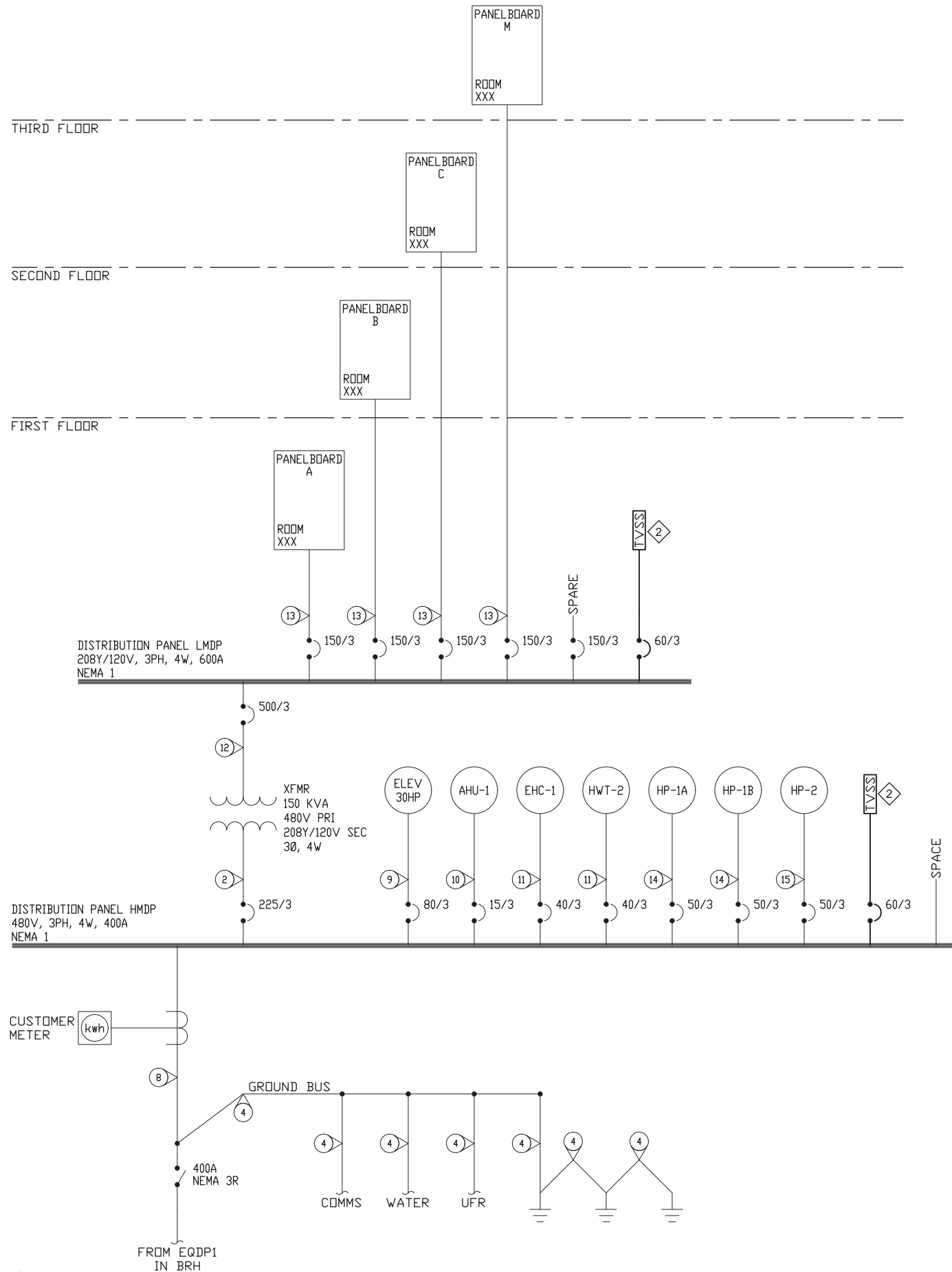
PROJECT No.  
**E20-139**  
 SHEET NUMBER  
**E-608**

**1** PARTIAL ONE LINE DIAGRAM - BRH MAIN  
 E-608 SCALE: NO SCALE

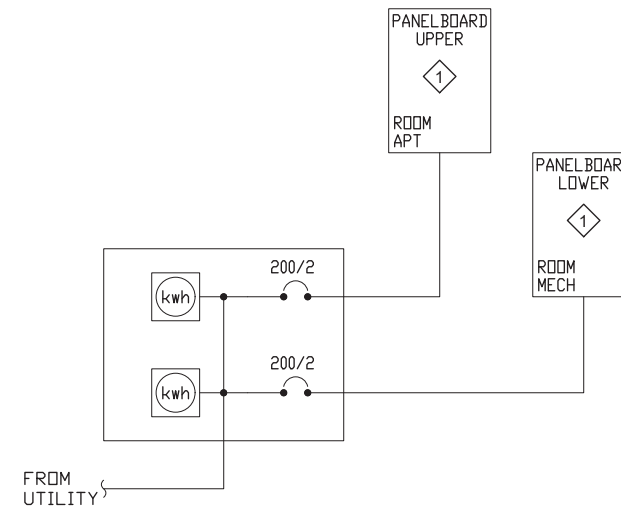
No.	Date	Item

1" IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES

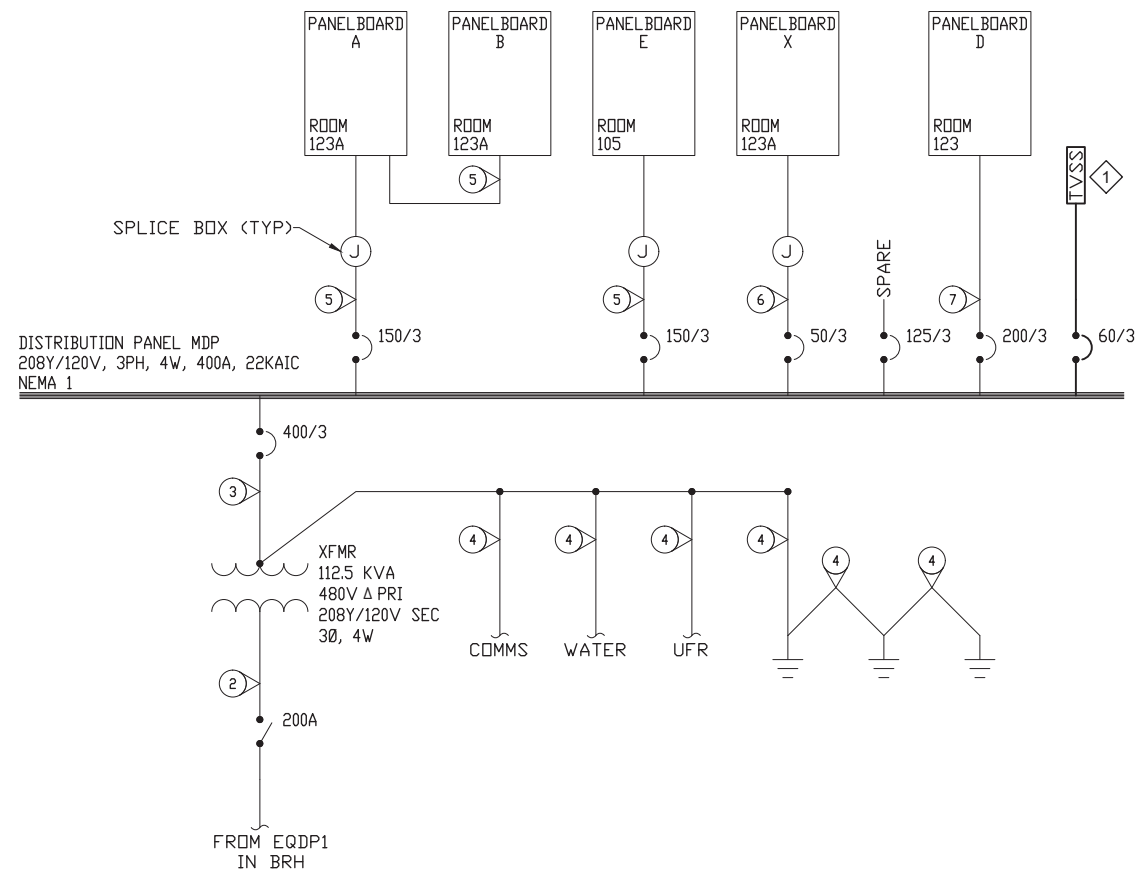
MECHANICAL



**1 ONE LINE DIAGRAM - BEHAVIORAL HEALTH FACILITY**  
E-609 SCALE: NO SCALE



**2 ONE LINE DIAGRAM - BARTLETT HOME**  
E-609 SCALE: NO SCALE



**3 ONE LINE DIAGRAM - RAINFOREST RECOVERY CENTER**  
E-609 SCALE: NO SCALE

**SHEET KEYNOTES**

1. PROVIDE TRANSECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
2. TVSS CURRENTLY BEING INSTALLED. IN CURRENT CONSTRUCTION. SUBMITTED PRODUCT IS SQUARE D SURGEOLOGIC SERIES.

**FEEDER SCHEDULE**

NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1	3 - #3/0, 1 - #6 G.		2"	1	
2	3 - #4/0, 1 - #4 G.		2"	1	
3	4 - #3/0, 1 - 2 G.		2"	2	
4	1 - #2			1	
5	4 - #4/0, 1 - #6 G.		1-1/2"	1	
6	4 - #8, 1 - #10 G.		1"	1	
7	4 - #3/0, 1 - #6 G.		2"	1	
8	3 - 350KCMIL, 1#4 N, 1 #4 G.		3"	1	
9	3 - #4, 1 - #8 G.		1"	1	
10	3 - #12, 1 - #12 G.		1/2"	1	
11	3 - #8, 1 - #10 G.		3/4"	1	
12	4 - #250KCMIL, 1 - #2 G.		3"	2	
13	4 - #1/0, 1 - #6 G.		2"	1	
14	6 - #6, 1 - #10G.		1-1/4"	1	
15	3 - #6, 1 - #10G.		1"	1	

CONSULTANT :



**Juneau, AK**  
9100 Merchants Mall, Rm. 404  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

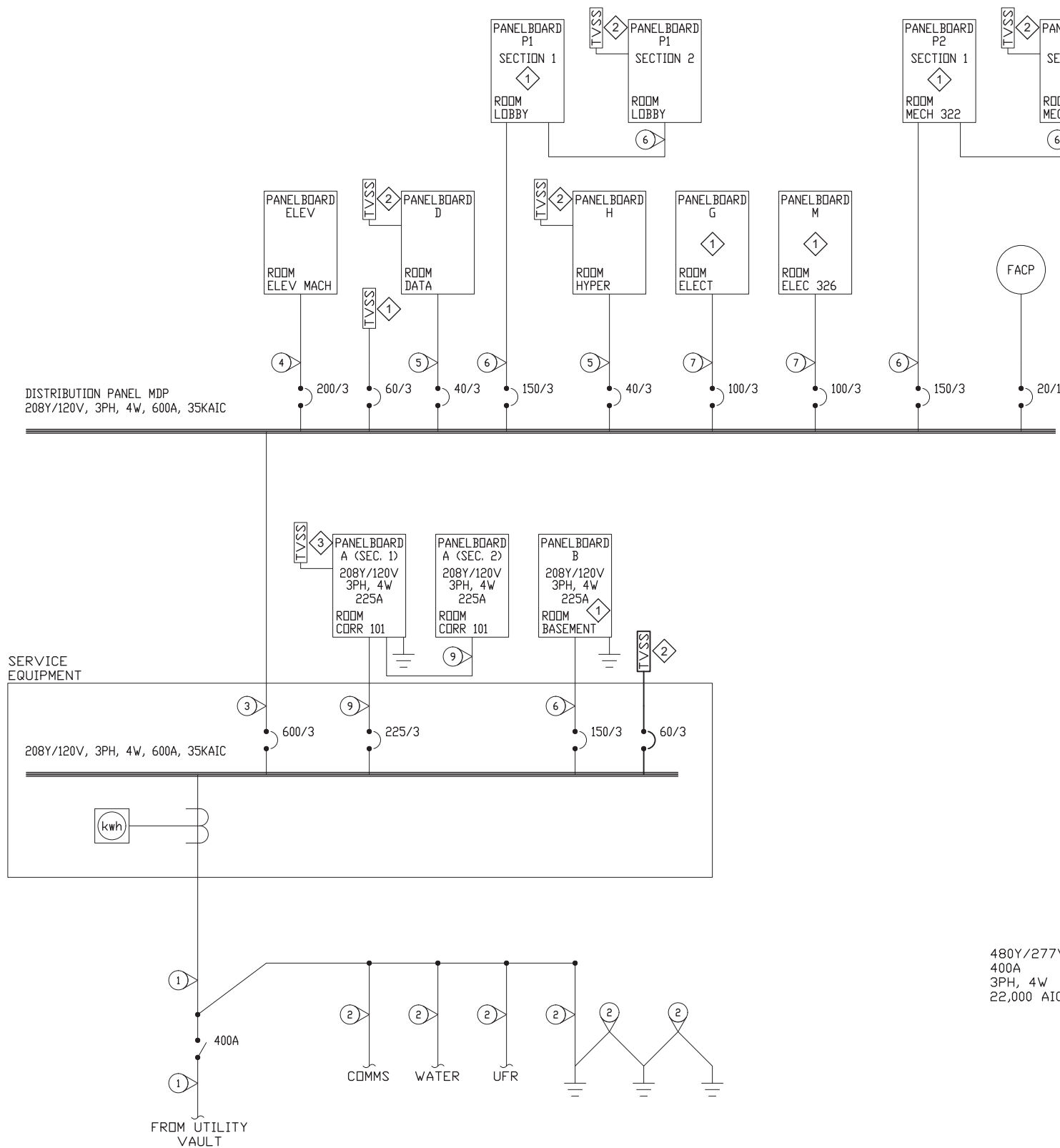
**SHEET TITLE :**  
**ONE LINE DIAGRAMS - BHF, RRC, AND BH**  
**CONSTRUCTION DOCUMENTS**

DESIGN: BKH  
DRAWN: JDS  
CHECKED: BDM  
DATE: 04/21/2022

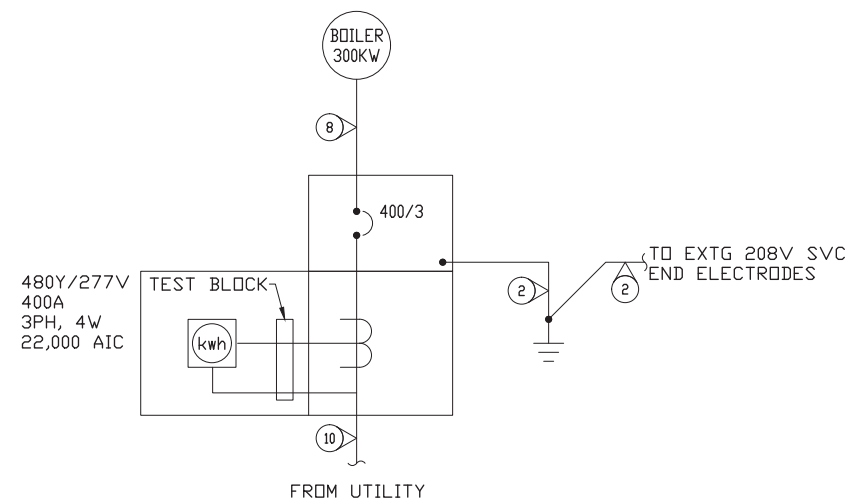
PROJECT No.  
**E20-139**  
SHEET NUMBER

**E-609**

No.	Date	Item



**1 ONE LINE DIAGRAM - ROBERT F. VALLIANT ADMIN BUILDING AND MEDICAL ARTS FACILITY**  
E-610 SCALE: NO SCALE



**2 ONE LINE DIAGRAM - MEDICAL ARTS ELECTRIC BOILER**  
E-610 SCALE: NO SCALE

**SHEET KEYNOTES**

1. PROVIDE TRANSECTOR MODEL 1101-809-1. PROVIDE 60A/3P CIRCUIT BREAKER TO FEED NEW TVSS.
2. EXISTING TVSS NOT FULLY FUNCTIONAL. REPLACE DAMAGED COMPONENTS. EXISTING TVSS IS A TRANSECTOR APEX SERIES.
3. EXISTING TVSS IS SPECIFIED POWER DEVICES MODEL SPD-120W.

**FEEDER SCHEDULE**

NO.	CONDUCTORS	INSUL	RACEWAY	RUNS	REMARKS
1			3"	2	
2	1 - #1/0			1	
3	3 - #350KCMIL, 1 - #4/0 NEUTRAL, 1 - #1 G.		3"	2	
4	3 - #3/0, 1 - #2 NEUTRAL		2"	1	
5	4 - #8, 1 - #12 G.		1"	1	
6	4 - #1/0, 1 - #6 G.		2"	1	
7	4 - #2		1-1/4"	1	
8	3 - #500MCM		3"	1	
9	4 - #4/0, 1 - #2 G.		2-1/2"	1	
10			3"	1	

CONSULTANT :



**Juneau, AK**  
9100 Merchants Mall, Rm. 314  
Juneau, AK 99801  
Phone: 907.586.0060  
Fax: 907.586.3771  
AEC 63270



PROJECT :  
**BARTLETT REGIONAL CAMPUS  
TVSS SURGE PROTECTION  
155 SOUTH SEWARD ST.  
JUNEAU, ALASKA**

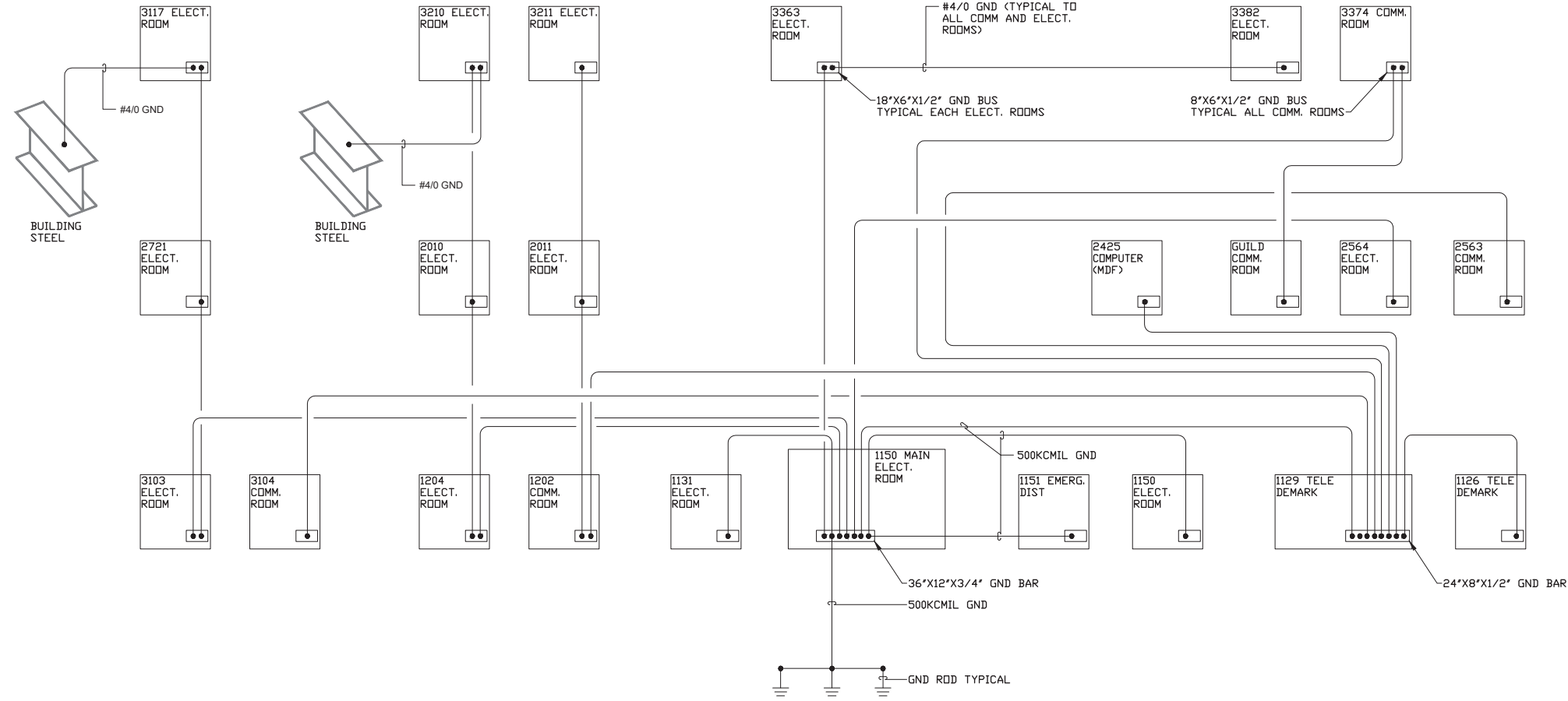
SHEET TITLE :  
**ONE LINE DIAGRAMS - ADMIN AND  
MEDICAL ARTS  
CONSTRUCTION DOCUMENTS**

DESIGN *BKH*  
DRAWN *JDS*  
CHECKED *BDM*  
DATE *04/21/2022*

PROJECT No.  
**E20-139**  
SHEET NUMBER

**E-610**

No.	Date	Item



**SHEET NOTES**

1. THIS SHEET IS EXISTING TO REMAIN AND SHOWN FOR REFERENCE PURPOSES ONLY.
2. BOND PANELBOARD GROUND BUS TO END BAR WITH #4 CONDUCTOR.
3. PANELBOARD TO PANELBOARD BONDING REQUIRED BY 2002 NEC 517-14 IS NOT INDICATED ON THIS DIAGRAM.

**1 ONE LINE DIAGRAMS - GROUNDING**  
 E-611 SCALE: NO SCALE

CONSULTANT :



**Juneau, AK**  
 9103 Mendota Mall Rd, Ste. 4  
 Juneau, AK 99801  
 Phone: 907.586.0060  
 Fax: 907.586.3771  
 AEC/C 163270



**PROJECT :**  
**BARTLETT REGIONAL CAMPUS**  
**TVSS SURGE PROTECTION**  
**155 SOUTH SEWARD ST.**  
**JUNEAU, ALASKA**

**SHEET TITLE :**  
**ONE LINE DIAGRAMS - GROUNDING**  
**CONSTRUCTION DOCUMENTS**

DESIGN *BKH*  
 DRAWN *JDS*  
 CHECKED *BKH*  
 DATE 04/21/2022

PROJECT No.  
**E20-139**  
 SHEET NUMBER

**E-611**

No.	Date	Item