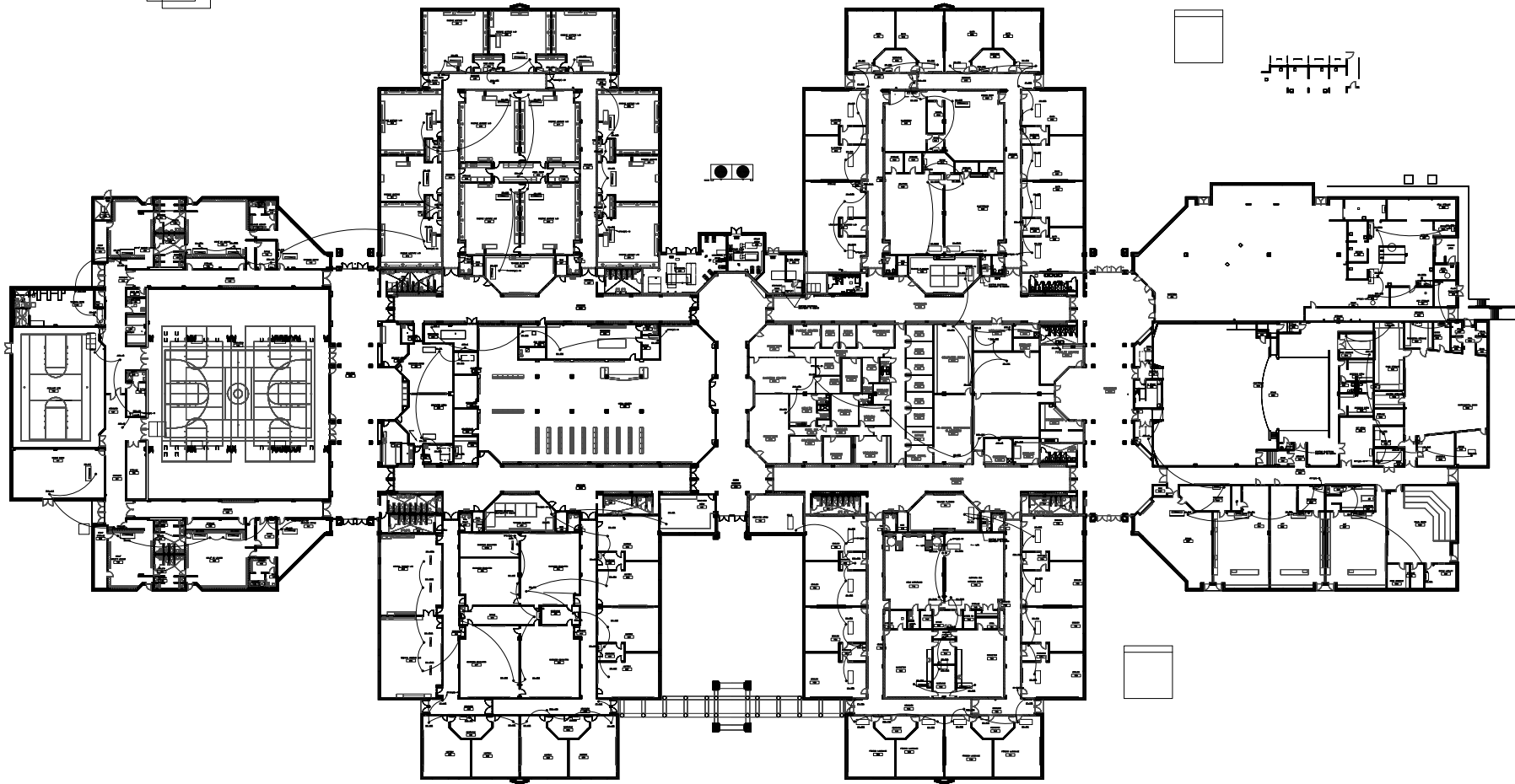
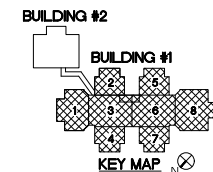


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1 ELECTRICAL FLOOR PLAN - MAIN BUILDING OVERALL ELECTRICAL PLAN
1/8" = 1'-0"



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Professional Engineer
David Butler
State of North Carolina
9/29/2022

butler high school
HVAC CONTROLS UPGRADE

761 david butler high school
1810 matthews-mint road
matthews, nc 28105

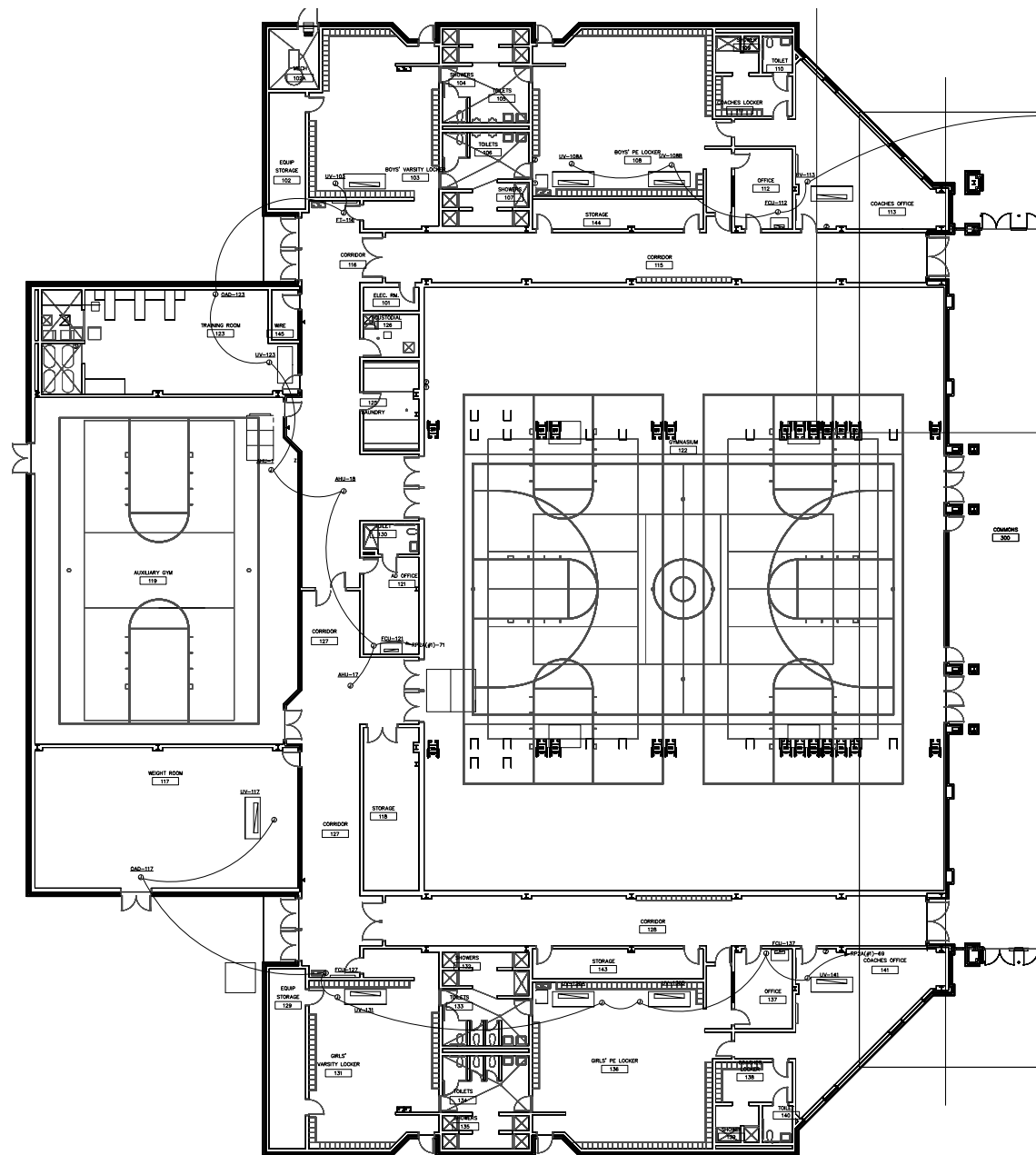
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DATE: 09-29-2022
PROJECT #: 22-0151
DRAWN BY: SMT
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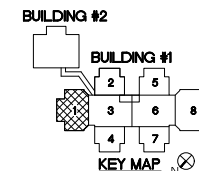
SHEET TITLE:
MAIN BUILDING
ELECTRICAL
FLOOR PLAN

DWG #:
E200

SHEET NO.: 2 of 16



1 ELECTRICAL FLOOR PLAN - AREA 1 RENOVATION
1/8" = 1'-0"



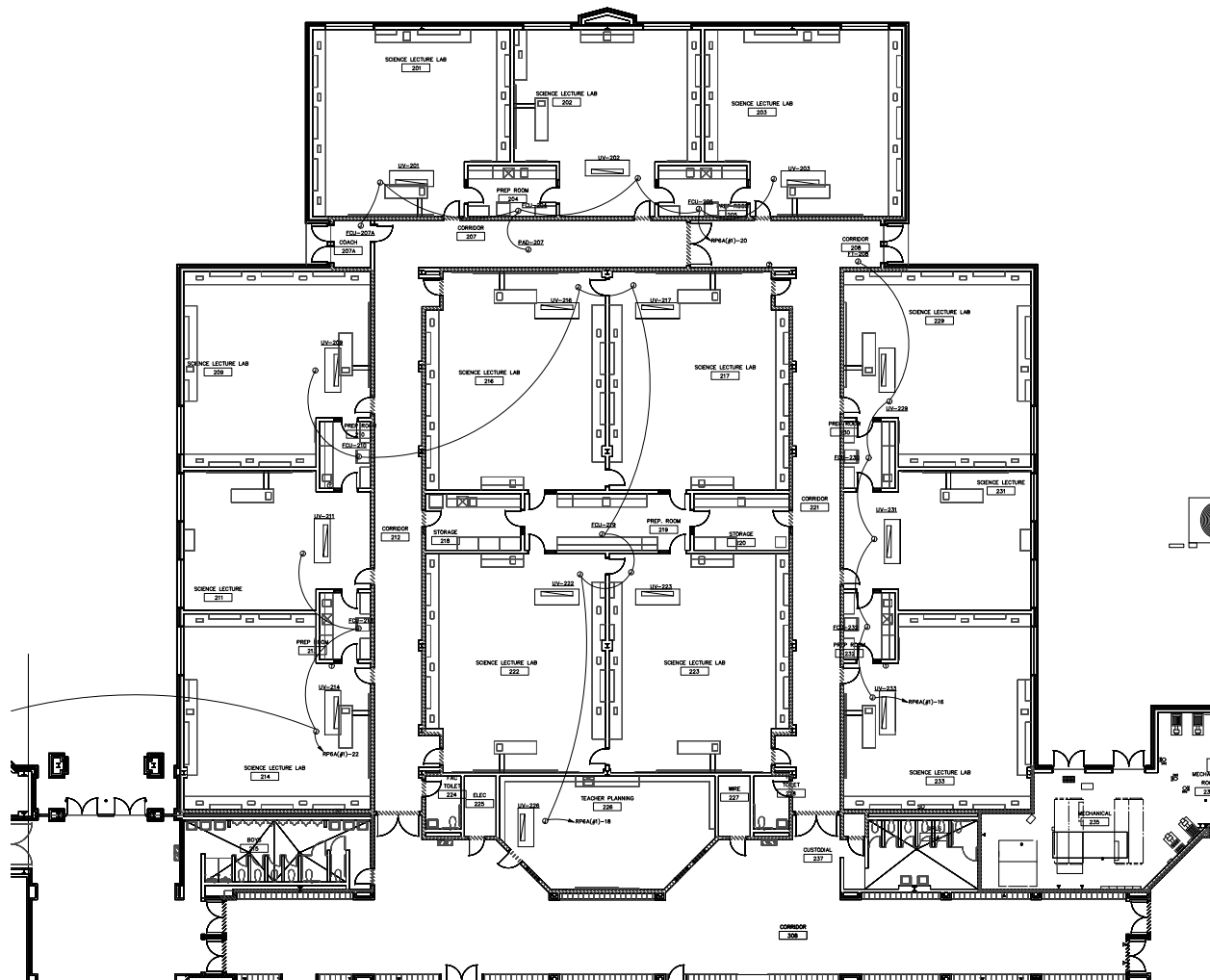
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PROJECT #:	22-0151
DRAWN BY:	SMT
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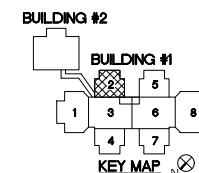
SHEET TITLE:
AREA 1
ELECTRICAL
FLOOR PLAN

DWG #:
E201
SHEET NO.: 3 of 16

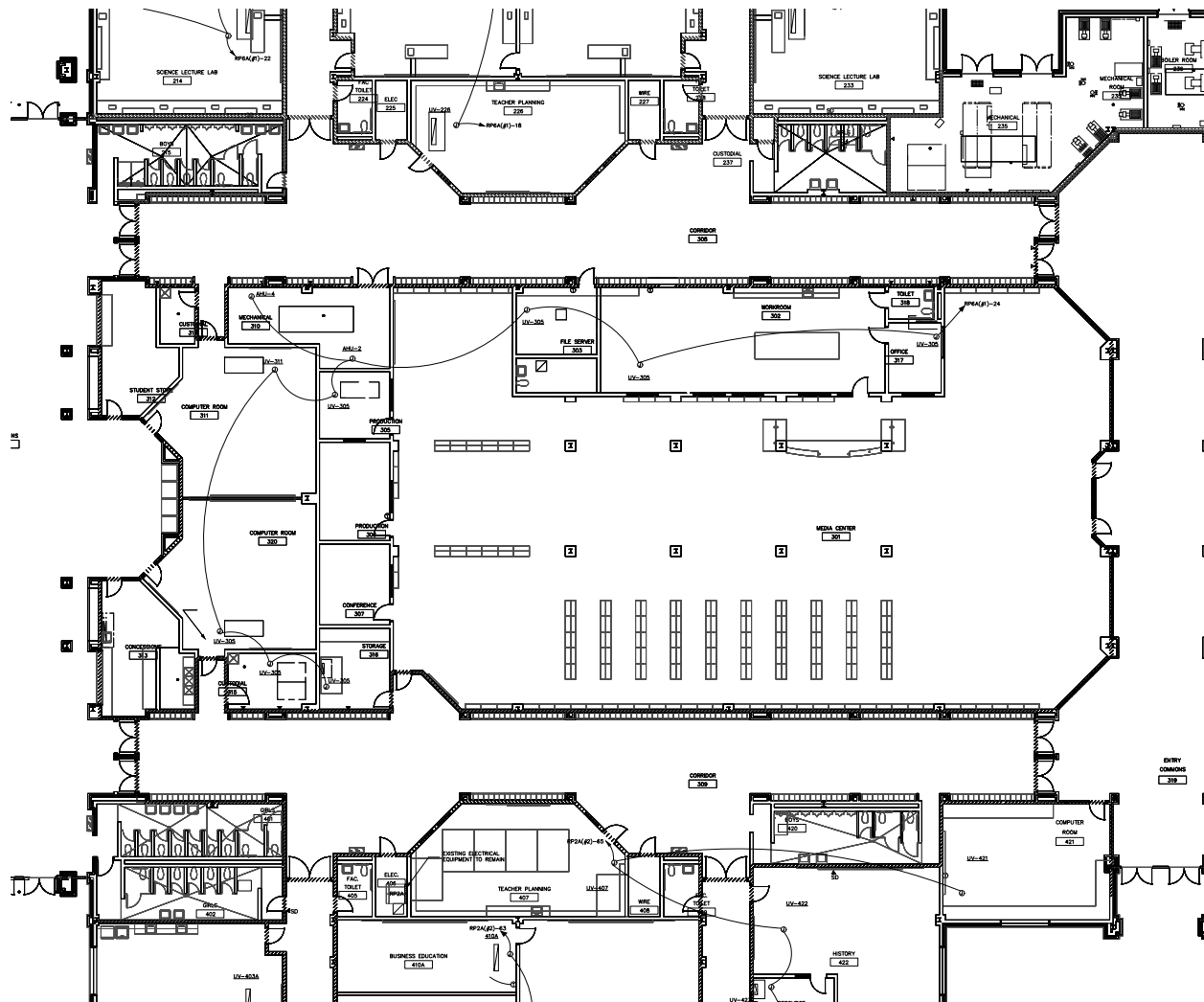
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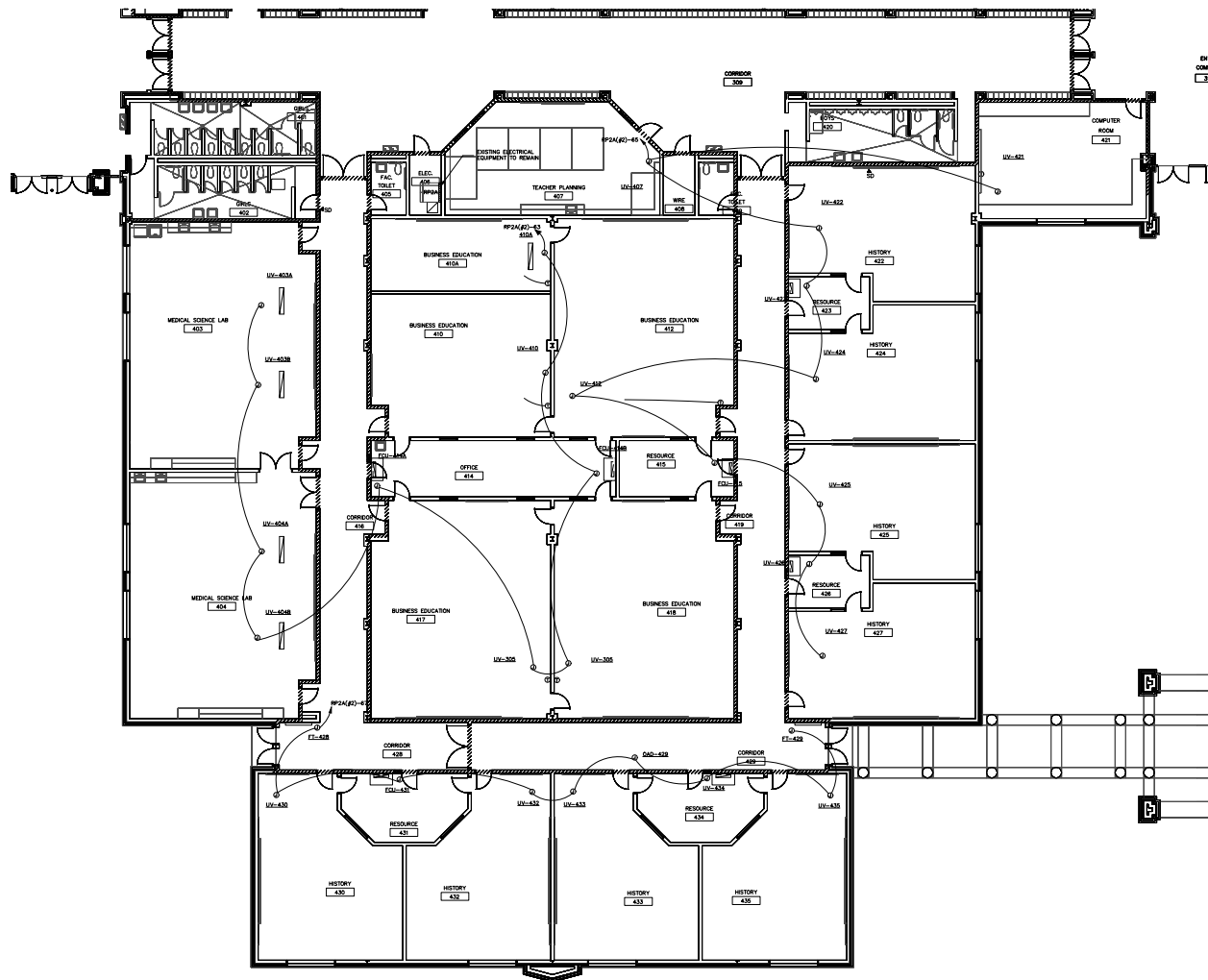
1 ELECTRICAL FLOOR PLAN - AREA 2 RENOVATION
1/8" = 1'-0"



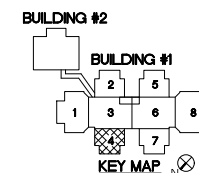
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1 ELECTRICAL FLOOR PLAN - AREA 4 RENOVATION
1/8" = 1'-0"



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REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
EXPIRATION DATE: 6/30/2022

butler high school
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361 david butler high school
1810 matthews mint road
matthews, nc 28105

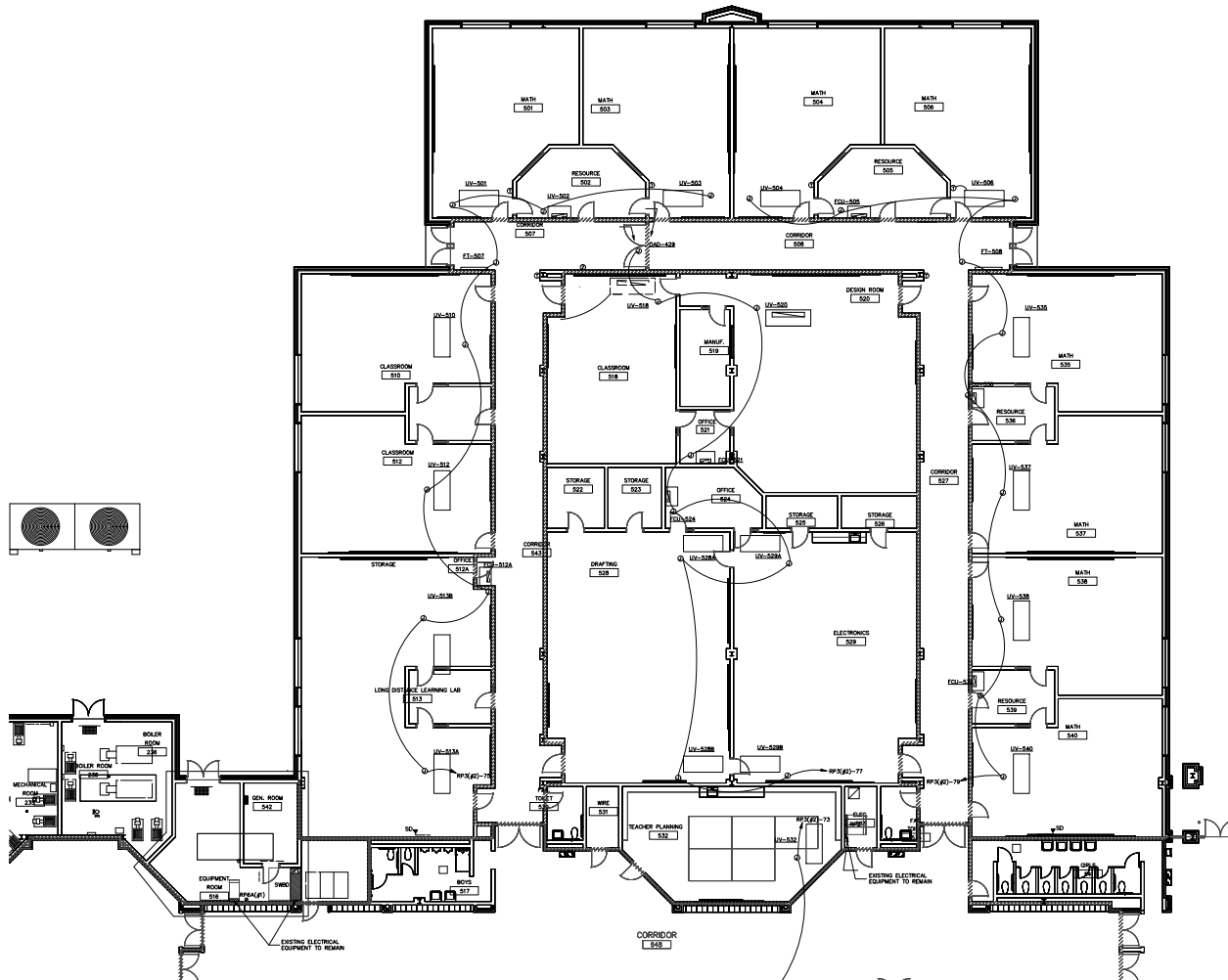
REV #	DATE	DESCRIPTION

DATE: 09-29-2022
PROJECT #: 22-0151
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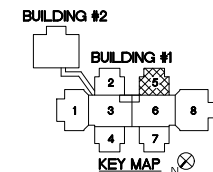
SHEET TITLE:
AREA "4"
ELECTRICAL FLOOR PLAN

DWG #: E204
SHEET NO: 6 OF 16

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1 ELECTRICAL FLOOR PLAN - AREA 5 RENOVATION
1/8" = 1'-0"



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State of North Carolina
License Number: 10000
Date: 6/29/2022

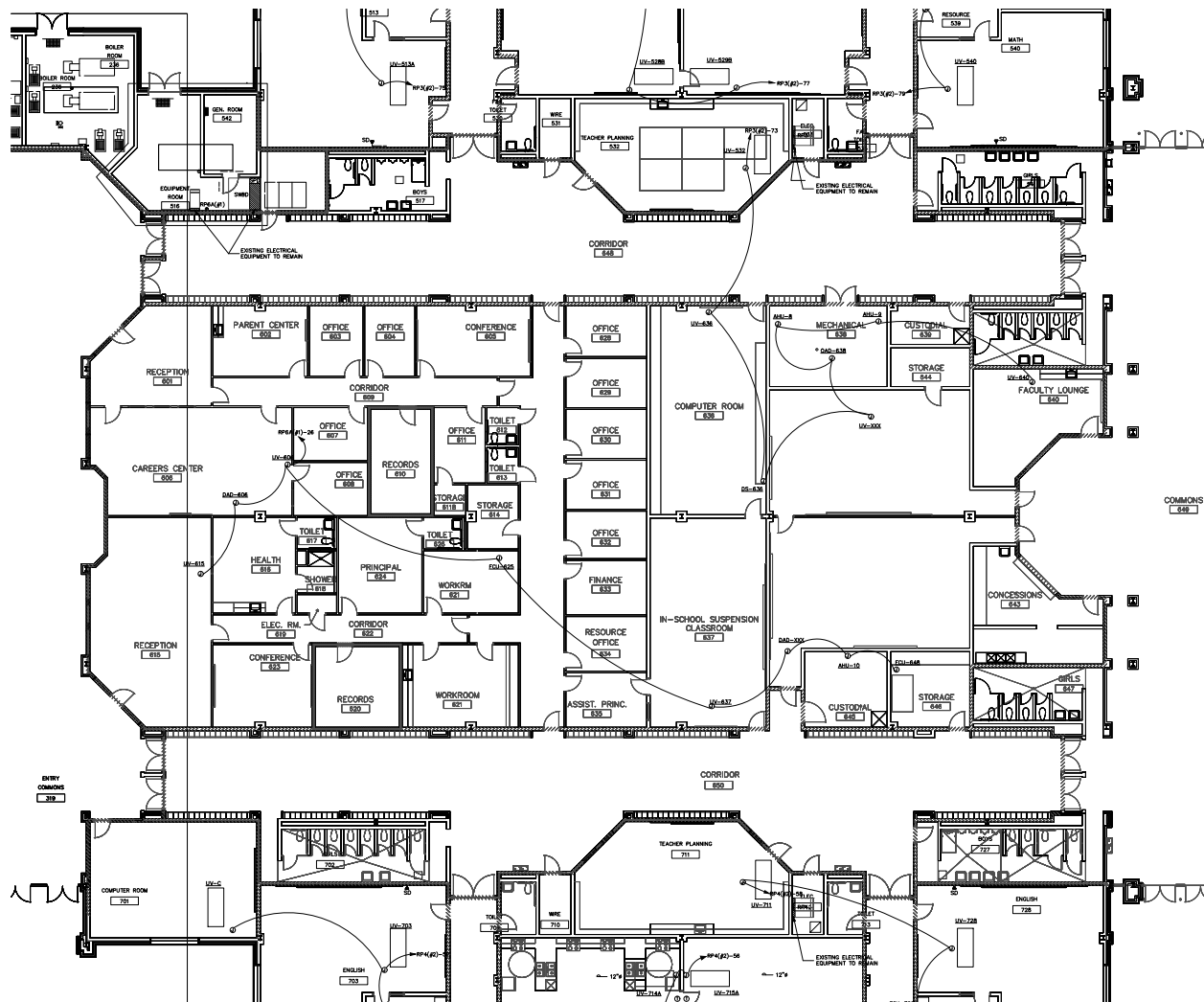
butler high school
HVAC CONTROLS UPGRADE
361 david butler high school
1810 matthews-mint road
matthews, nc 28105

REV #	DATE	DESCRIPTION

DATE: 09-29-2022
PROJECT #: 22-0151
DRAWN BY: SMT
DESIGNED BY: SMT
CHECKED BY: MAM

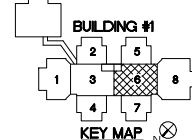
SHEET TITLE:
AREA "5"
ELECTRICAL
FLOOR PLAN

DWG #: E205
SHEET NO: 7 of 16



1 ELECTRICAL FLOOR PLAN - AREA 6 RENOVATION
1/8" = 1'-0"

BUILDING #2



KEY MAP

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matthews, nc 28105

REV # DATE DESCRIPTION

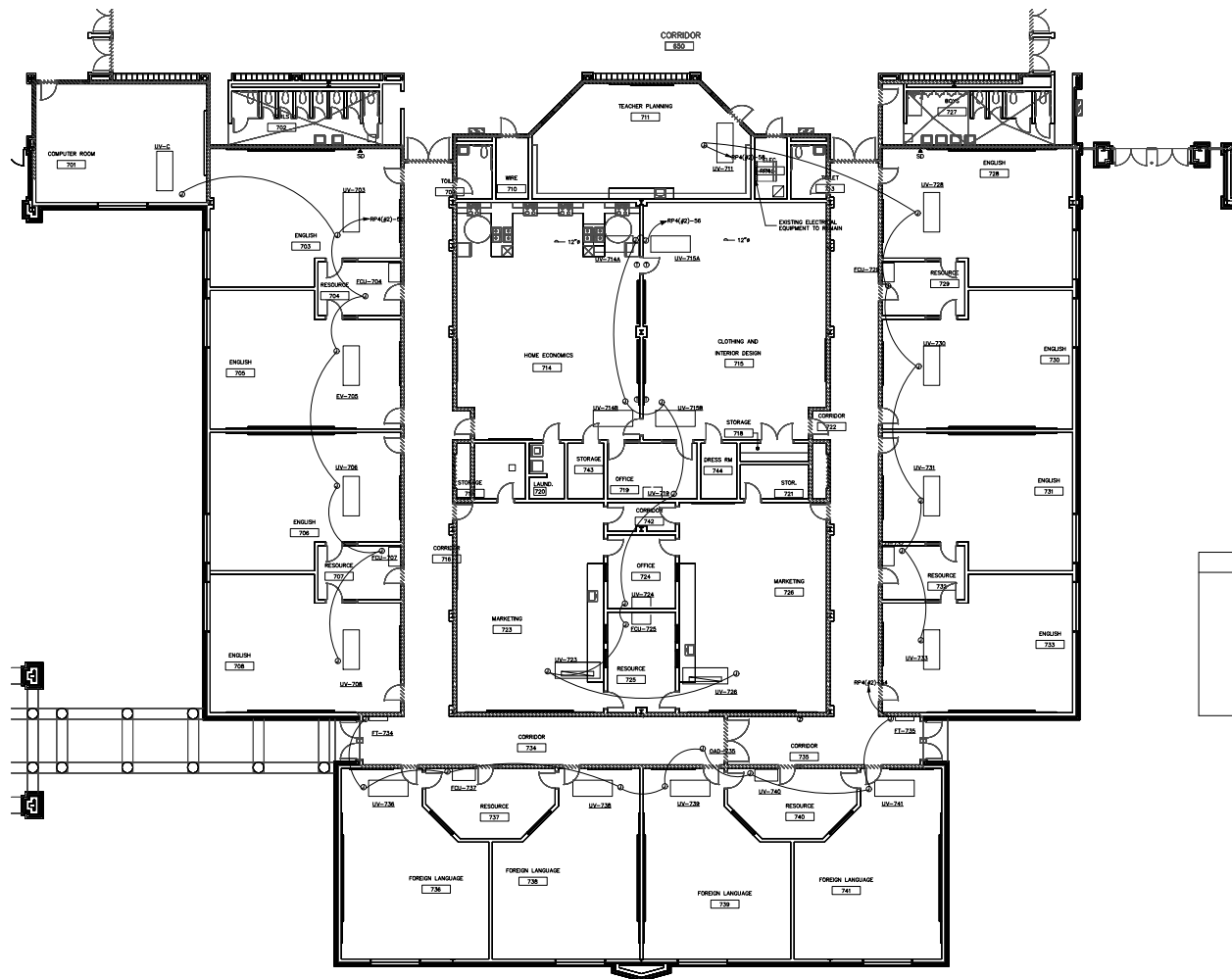
DATE:	09-29-2022
PROJECT #:	22-0151
DRAWN BY:	SMT
DESIGNED BY:	SMT
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SHEET TITLE:
AREA "6"
ELECTRICAL
FLOOR PLAN

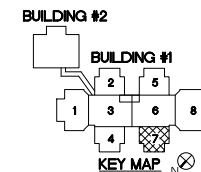
DWG #
E206

SHEET NO: 8 of 16

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1 ELECTRICAL FLOOR PLAN - AREA 7 RENOVATION
1/8" = 1'-0"



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HVAC CONTROLS UPGRADE

361 David Butler High School
1810 Matthews-Mint Road
Matthews, NC 28105

REV #	DATE	DESCRIPTION

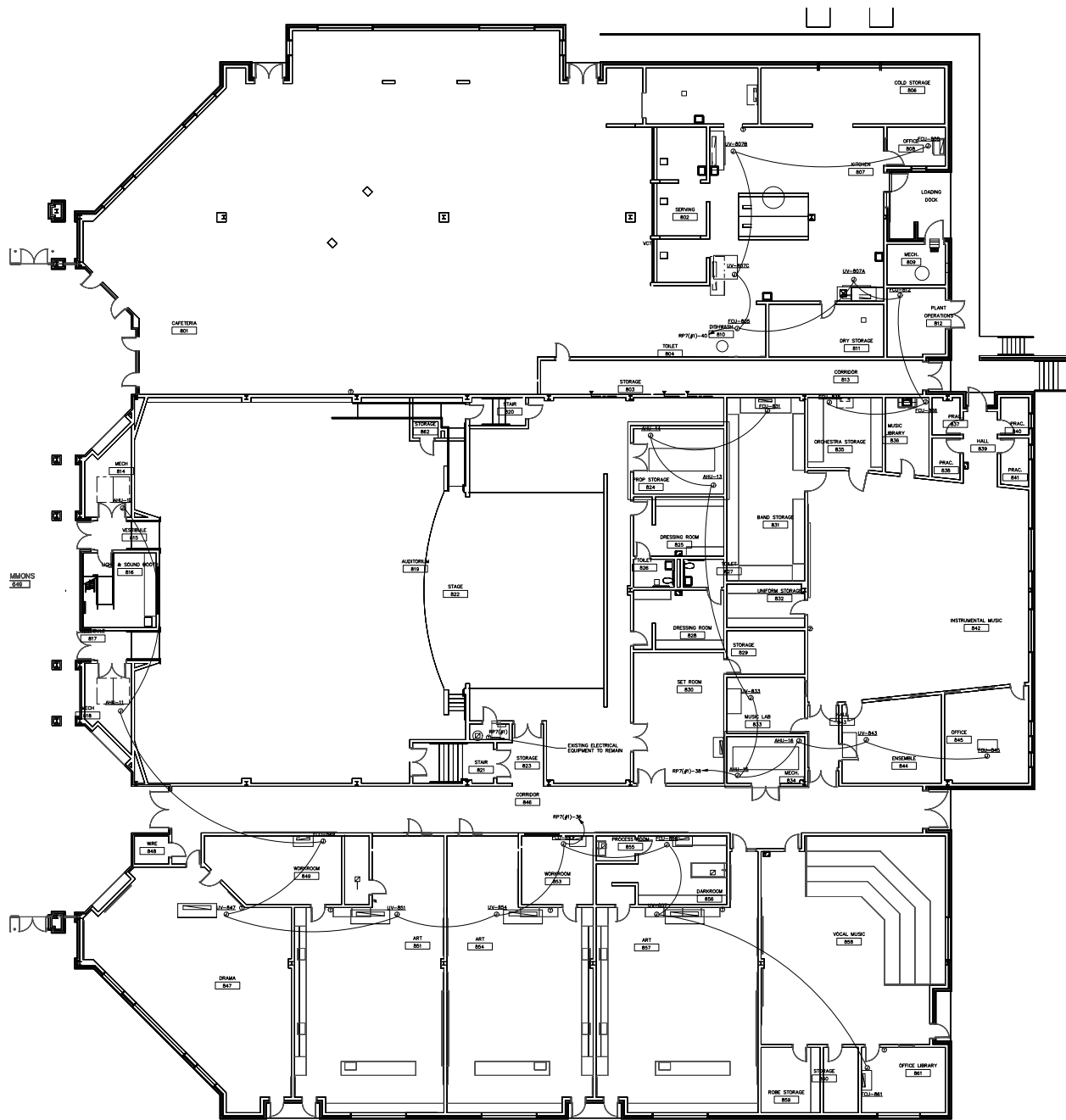
DATE: 09-29-2022
PROJECT #: 22-0151
DRAWN BY: SMT
DESIGNED BY: SMT
CHECKED BY: MAM

SHEET TITLE:
AREA 7
ELECTRICAL
FLOOR PLAN

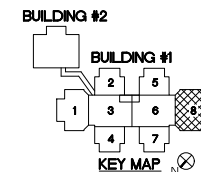
DWG #:
E207

SHEET NO: 9 of 16

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1 ELECTRICAL FLOOR PLAN - AREA 8 RENOVATION
1/8" = 1'-0"



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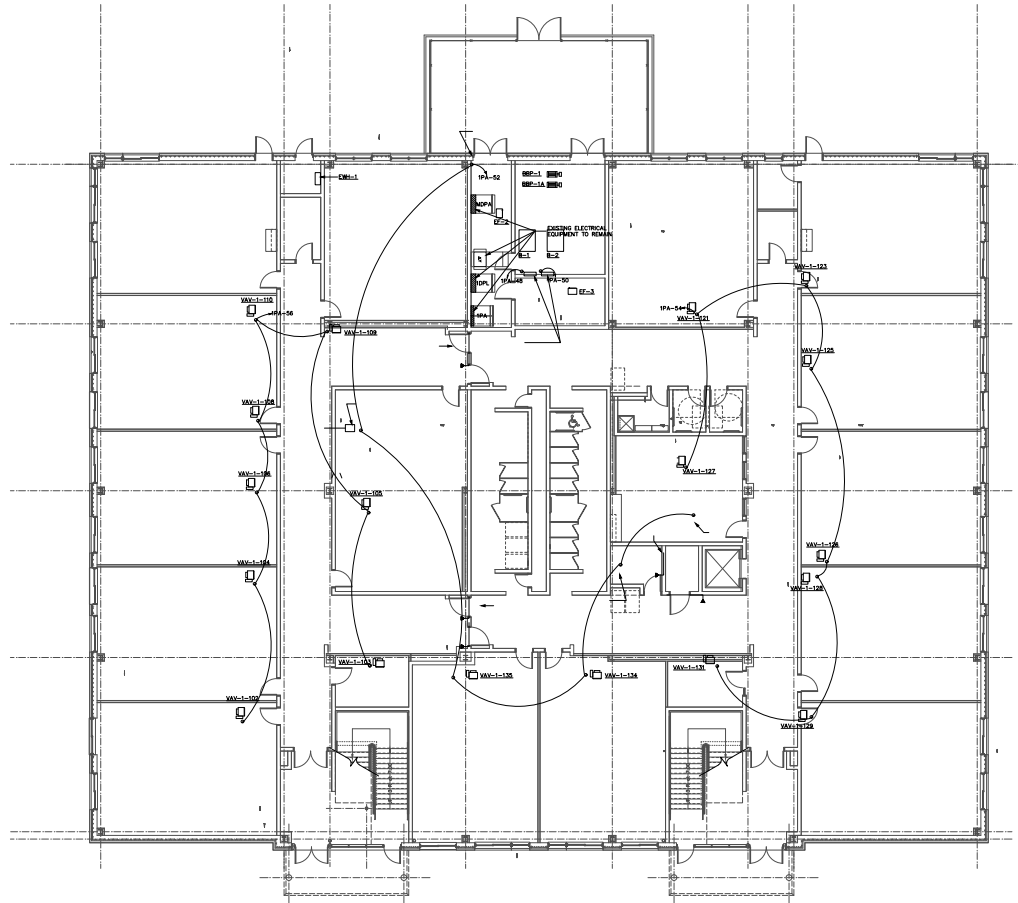
butler high school
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1810 matthews-mint road
matthews, nc 28105

REV #	DATE	DESCRIPTION

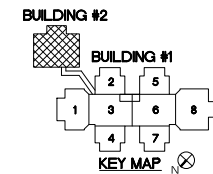
DATE: 09-29-2022
PROJECT #: 22-0151
DRAWN BY: SMT
DESIGNED BY: SMT
CHECKED BY: MAM

SHEET TITLE:
AREA "8"
ELECTRICAL
FLOOR PLAN

DWG #:
E208
SHEET NO: 10 of 16



1 ELECTRICAL FLOOR PLAN - BUILDING #2 FIRST FLOOR ELECTRICAL PLAN
1/8" = 1'-0"



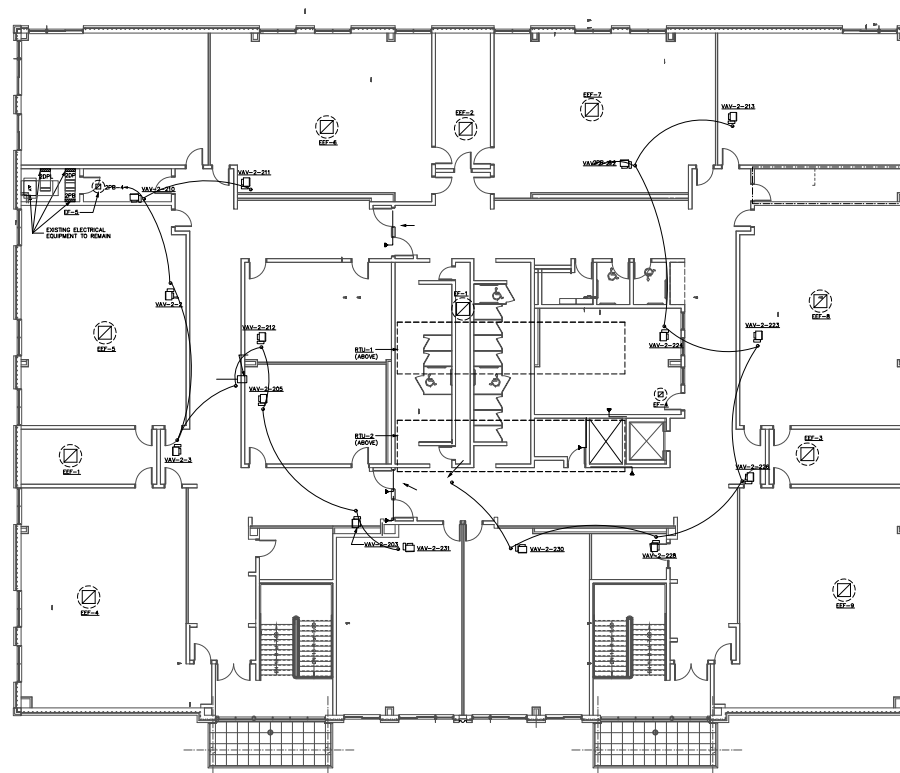
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PROJECT #:	22-0151
DRAWN BY:	SMT
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CHECKED BY:	MAM

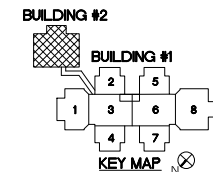
SHEET TITLE:
BUILDING #2
FLOOR 1
ELECTRICAL
FLOOR PLAN

DWG #:
E209
SHEET NO: 11 of 16

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1 ELECTRICAL FLOOR PLAN - BUILDING #2 SECOND FLOOR ELECTRICAL PLAN
1/8" = 1'-0"



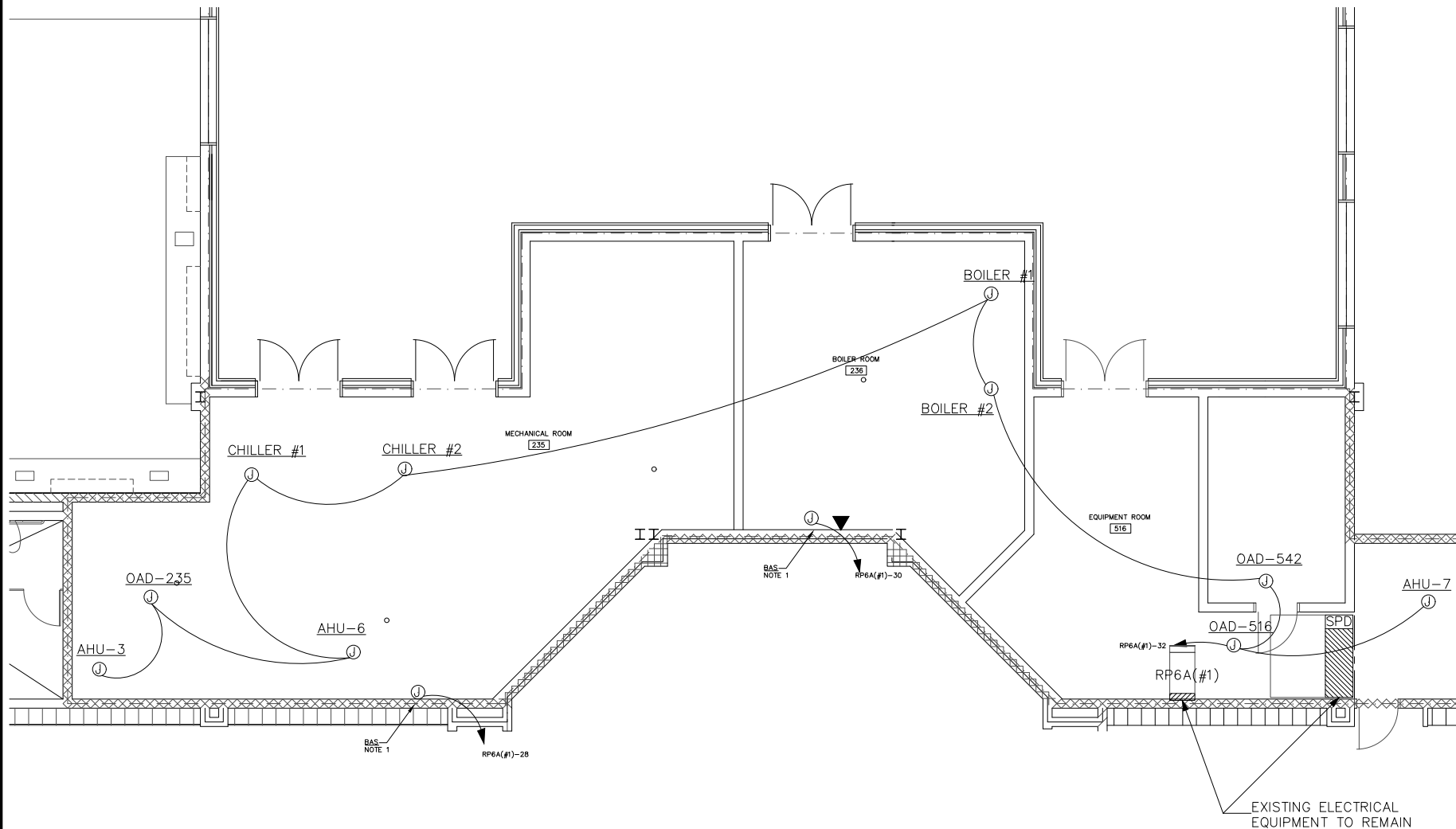
REV #	DATE	DESCRIPTION

DATE:	09-29-2022
PROJECT #:	22-0151
DRAWN BY:	SMT
DESIGNED BY:	SMT
CHECKED BY:	MAM

SHEET TITLE:	BUILDING #2 FLOOR 2 ELECTRICAL FLOOR PLAN
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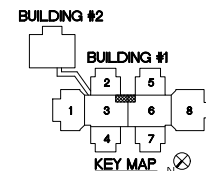
DWG #:	E210
SHEET NO:	13 of 16

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NOTES:
 EXISTING PANEL WILL BE REMOVED, BAS PANEL WILL BE INSTALLED. EXISTING PANEL POWER AND DATA WILL BE USED FOR THE BAS PANEL.

1 ELECTRICAL FLOOR PLAN - BOILER/CHILLER ROOM
 1/16" = 1'-0"



REV #	DATE	DESCRIPTION

DATE:	09-29-2022
PROJECT #:	22-0151
DRAWN BY:	SMT
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SHEET TITLE:
 ELECTRICAL
 ENLARGED
 BOILER/MECH
 ROOM PLANS

DWG #:
E262
 SHEET NO: 13 of 16

[illegible]

PANEL: RPA(1/1)														PANEL: RP7(1/1)													
VOLTAGE				120 / 208				3 PHASE		4 WIRE		EXTRA MISC		VOLTAGE				120 / 208				3 PHASE		4 WIRE		EXTRA MISC	
MOUNTING SURFACE				SURFACE				NO		HINT		CHUCK BREAKER		MOUNTING SURFACE				SURFACE				NO		HINT		CHUCK BREAKER	
LOAD	NO	TYPE	WIRE	TERMINAL	WIRE	TERMINAL	WIRE	TERMINAL	WIRE	TERMINAL	WIRE	TERMINAL	WIRE	TERMINAL	LOAD	NO	TYPE	WIRE	TERMINAL	WIRE	TERMINAL	WIRE	TERMINAL	WIRE	TERMINAL	WIRE	TERMINAL
LOAD BEARER														LOAD BEARER													
REC COMPUTER ROOM(1) 1.21	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.21	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.22	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.22	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.23	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.23	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.24	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.24	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.25	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.25	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.26	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.26	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.27	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.27	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.28	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.28	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.29	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.29	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
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REC COMPUTER ROOM(1) 1.35	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.35	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
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REC COMPUTER ROOM(1) 1.37	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.37	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
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REC COMPUTER ROOM(1) 1.42	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.42	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.43	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.43	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.44	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.44	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.45	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.45	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.46	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.46	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.47	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.47	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.48	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.48	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.49	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.49	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.50	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.50	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.51	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.51	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.52	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.52	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.53	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.53	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.54	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.54	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.55	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.55	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.56	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.56	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.57	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.57	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.58	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.58	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.59	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.59	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.60	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.60	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.61	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.61	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.62	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.62	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.63	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.63	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.64	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.64	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.65	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.65	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.66	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.66	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.67	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.67	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.68	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.68	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.69	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.69	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.70	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.70	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.71	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.71	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.72	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.72	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.73	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.73	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.74	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.74	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.75	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.75	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A
REC COMPUTER ROOM(1) 1.76	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	REC ROOM(1) 1.76	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A	20	EX-1	N/A	N/A

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butler high school
HVAC CONTROLS UPGRADE

361 david butler high school
1810 matthews-mint road
matthews, nc 28105

REV #	DATE	DESCRIPTK
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DATE: 09-29-202
PROJECT #: 22-015
DRAWN BY: SM
DESIGNED BY: SM
CHECKED BY: MA

SHEET TITLE:

YAG #:

SHEET NO: 15 of 1

[illegible][illegible]

1 POWER RISER DIAGRAM

PANEL DESIGNATION	MDPA
VOLTAGE	277/480V
AMPERAGE	800A
DESIGNED LOAD CAP (KVA)	532
EXISTING LOAD (KVA)	418
INCREASING LOAD (KVA)	19

PANEL DESIGNATION	2CP
VOLTAGE	277/480V
AMPERAGE	600A
DESIGNED LOAD CAP (KVA)	399
EXISTING LOAD (KVA)	329
INCREASING LOAD (KVA)	19

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SEAL:



1/29/2022

butler high school
HVAC CONTROLS UPGRADE

REV #	DATE	DESCRIPTION
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DATE: 09-29-2022
PROJECT #: 22-0151
DRAWN BY: SMT
DESIGNED BY: SMT
CHECKED BY: MAM

SHEET TITLE:
2ND BUILDING
POWER RISER
DIAGRAM &
SCHEDULES

DIANE A.

E702

SHEET NO: 16 of 16