2" GRIDS

208Y/120V 3-Phase 4-Wire LIGHTING PANEL — Name: A

Mains: 225A MLO
Trim: Surface Door: Yes
Neutral: S/N
Ground bar: Yes

Min Sym IC: 22000
Fed from: MP
Feeder: Note 3

CIR	DESCRIPTION	CONDUIT	PHASE	NEUT	GND	TRIP	POLES	PHASE LOADS A	B	C	POLES	TRIP	CONDUIT	PHASE	NEUT	GND	DESCRIPTION	CIR
1	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
3	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	2
5	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	4
7	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
9	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	6
11	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
13	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	8
15	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
17	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	10
19	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
21	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	12
23	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
25	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	14
27	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
29	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	16
31	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
33	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	18
35	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
37	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	20
39	EXISTING LOAD	Note 4	#12	#12	#12	20	1	720										
41	EXISTING LOAD	Note 4	#12	#12	#12	20	1		720		1	20	Note 4	#12	#12	#12	EXISTING LOAD	22
43	SPARE	-				20	1	---										
45	SPARE	-				20	1	---			1	20	-				SPARE	24
47	SPARE	-				20	1	---			1	20	-				SPARE	26
49	Space only	-				--	1	---			1	--	-				Space only	28
51	Space only	-				--	1	---			1	--	-				Space only	30
53	Space only	-				--	1	---			1	--	-				Space only	32
		Phase load totals						A 10080										
								B	10080									
								C		11860								

Notes for A:

1 THIS PANEL AND ALL BREAKERS ARE NEW. RECONNECT EXISTING BRANCH CIRCUITS REMAINING FROM DEMOLITION TO NEW BREAKERS.
2 CONTRACTOR SHALL FIELD VERIFY LOCATION AND LOAD TYPE FOR EACH BRANCH CIRCUIT AND IDENTIFY ON PANEL DIRECTORY.
3 Feeder is (1) 1-1/2" - 4#1/0 + #6 GND THWN Copper
4 A maximum of 3 phases, 1 neutral and 1 ground may be combined per conduit without derating

208Y/120V 3-Phase 4-Wire POWER PANEL — Name: MP

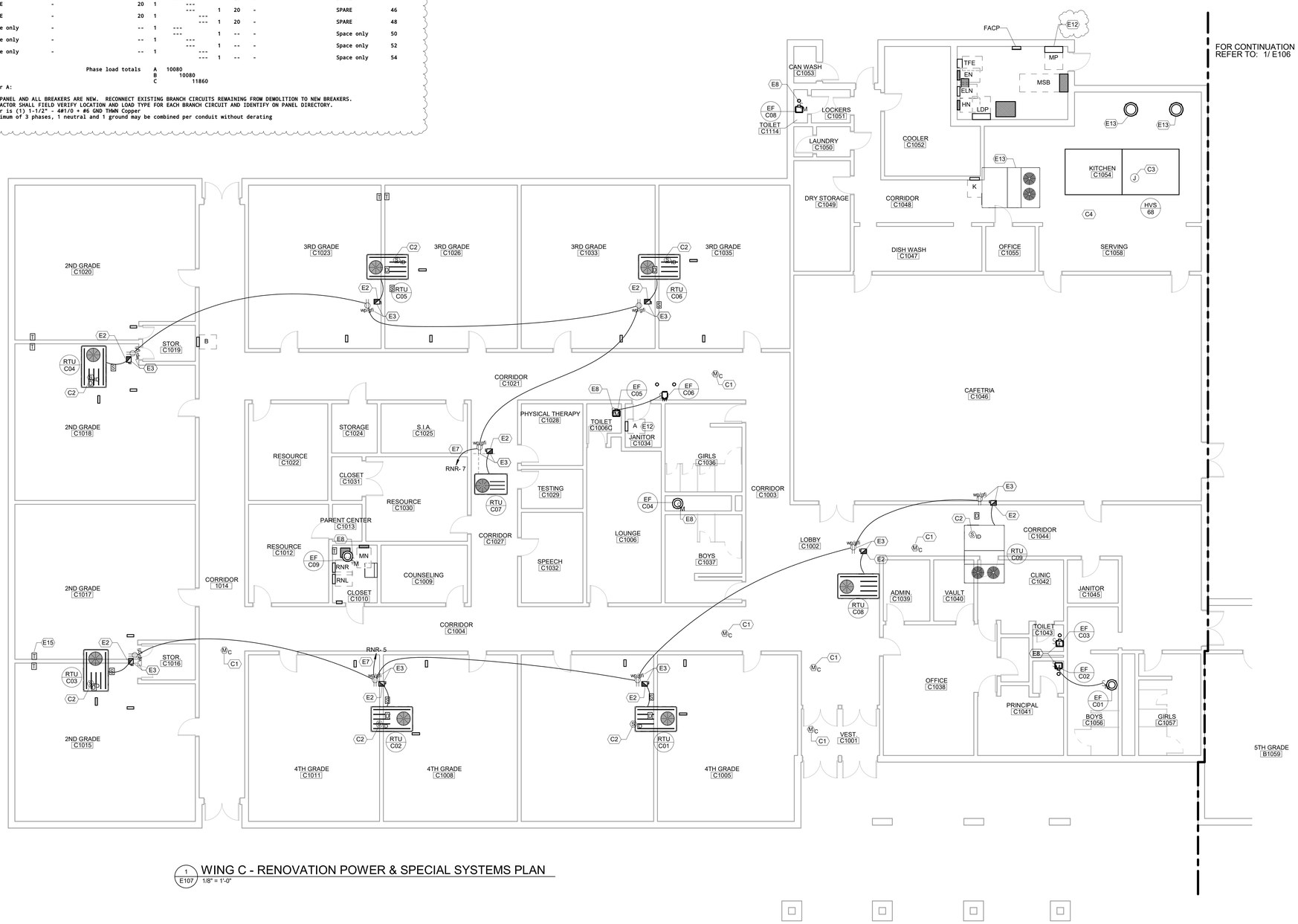
Mains: 600A Main molded case breaker
Trim: Surface Door: Yes
Branch OCP: Molded case breaker
Neutral: S/N
Ground bar: Yes

Min Sym IC: 42000
Fed from: XTLP
Feeder: Note 4

CIR	DESCRIPTION	TRIP	POLES	PHASE LOADS A	B	C	CONDUITS	PHASES	NEUTRAL	GROUND	WIRE TYPE
1	A	150	3	10080	10080	11860	(1)1-1/2"	3#1/0	1/0	#6	THWN Copper
2	B	100	3	---	---	---	1-1/4"	3#3	#3	#8	THWN Copper
3	C	150	3	---	---	---	(1)1-1/2"	3#1/0	1/0	#6	THWN Copper
4	D	70	3	---	---	---	1-1/4"	3#4	#4	#8	THWN Copper
5	E	150	3	---	---	---	(1)1-1/2"	3#1/0	1/0	#6	THWN Copper
6	EM	70	3	---	---	---	1-1/4"	3#4	#4	#8	THWN Copper
7	SPACE ONLY	225	3	---	---	---	-				
8	SPACE ONLY	100	3	---	---	---	-				
	Phase load totals			10080	10080	11860					

Notes for MP:

1 THIS PANEL AND ALL BREAKERS ARE NEW. RECONNECT EXISTING BRANCH CIRCUITS REMAINING FROM DEMOLITION TO NEW BREAKERS.
2 CONTRACTOR SHALL FIELD VERIFY LOCATION AND LOAD TYPE FOR EACH BRANCH CIRCUIT AND IDENTIFY ON PANEL DIRECTORY.
3 EXTEND/TRIM EXISTING BRANCH CIRCUITS AS REQUIRED FOR CONNECTION TO NEW BREAKERS. FIELD VERIFY EXISTING CONDITIONS.
4 Feeder is (2) 3-1/2" - 4#400kcmil + #3/0 GND THWN Copper from 300 KVA Transformer XTLP
5 Terminal Ratings: All 75C



FOR CONTINUATION REFER TO: 1/ E106

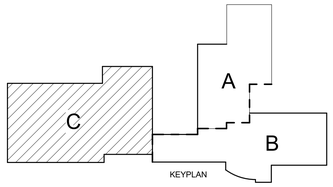
1 E107 WING C - RENOVATION POWER & SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

KEYNOTE SCHEDULE - POWER

#	KEYNOTE DESCRIPTION
E2	LOCATE WIRING MAINTAINED FROM DEMOLITION PHASE AT ROOFTOP UNIT, CAPTURE BELOW ROOF AND EXTEND CONDUCTORS/ RACEWAY UP TO NEW DISCONNECT SWITCH MOUNTED ON ROOFTOP DISCONNECT STAND. PROVIDE ADDITIONAL RATINGWAY FROM DISCONNECT (LOAD SIDE) BACK BELOW ROOF DECK AND ROUTED UP THROUGH UNIT/CURB FOR CONNECTION TO UNIT. NEW WIRING AND RACEWAY SIZE AND QUANTITY SHALL MATCH EXISTING.
E3	DISCONNECT/RECEPTACLE INSTALLED ON ROOFTOP STRUT STAND. COORDINATE INSTALLATION WITH VENDOR SHOP DRAWINGS. REFER TO PITCH POCKET ROOFTOP DISCONNECT STAND DETAIL FOR ADDITIONA REQUIREMENTS.
E7	PROVIDE NEW BRANCH CIRCUIT ROUTED TO PANEL/BREAKER DESIGNATION AS INDICATED. TERMINATE CIRCUIT ON NEW 20A/1P BREAKER OF SAME TYPE AND AIC RATING AS EXISTING. BRANCH CIRCUIT SHALL BE 3#10CU THWN IN A 1/2"C.
E8	PROVIDE NEW MOTOR RATED SWITCH AT EXHAUST FAN LOCATION AND CONNECTION TO EXISTING BRANCH CIRCUIT MAINTAINED FROM DEMOLISHION PHASE. EXTEND/TRIM CONDUCTORS AND RACEWAY AS REQUIRED, SIZE TO MATCH EXISTING.
E12	NEW PANELBOARD TO REPLACE OLD PANEL REMOVED DURING DEMOLISHION PHASE. RECONNECT EXISTING BRANCH CIRCUITS REMAINING FROM DEMO TO RESPECTIVE BREAKERS IN NEW PANEL. REFER PANEL SCHEDULE ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.
E13	EXISTING MECHANICAL EQUIPMENT TO REMAIN, PROTECT FROM DAMAGE THROUGH ALL PHASES OF CONSTRUCTION.
E15	PROVIDE FLUSH MOUNTED OUTLET BOX AND 1/2" CONDUIT CONCEALED IN WALL AT MECHANICAL CONTROL LOCATIONS. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS W/ HVAC CONTRROLS CONTRACTOR PRIOR TO ROUGH-IN. TYPICAL THROUGHOUT THIS BUILDING.

KEYNOTE SCHEDULE- SPECIAL SYSTEMS

#	KEYNOTE DESCRIPTION
C1	PROVIDE CONNECTION FROM FIRE ALARM SYSTEM TO OCCUPANCY SENSOR POWER PACK FOR OVERRIDER OF OCCUPANCY SENSOR(S) IN THIS SPACE UPON ACTIVATION OF FIRE ALARM, PER NFPA-101.
C2	DUCT SMOKE DETECTOR INSTALLED IN HVAC PACKAGE UNIT. PROVIDE NEW ADDRESSABLE SMOKE DETECTOR, COMPATIBLE WITH FIRE ALARM SYSTEM.
C3	PROVIDE CONNECTION FROM HOOD FIRE SUPPPRESSION SYSTEM TO FIRE ALARM SYSTEM. PROVIDE RELAY AS REQUIRED.
C4	ALL CABLING WITHIN THIS SPACE SHALL BE INSTALLED IN RACEWAY. PAINT EXPOSED RACEWAY TO MATCH FINISH OF WALL OR CEILING.



KEYPLAN

TRUE NORTH

8 0 8 16
SCALE: 1/8" = 1'-0"

SA&E PROJECT NUMBER	01-920-016
BID PACKAGE	BP-1
ISSUED FOR CONSTRUCTION	08-24-2022

REVISIONS

R #	Doc #	Date
1	AD3	10/06/2022

Southern A&E LLC
7951 Troon Circle
Austell, Ga 30168
(770) 819-7777
architects & engineers

© COPYRIGHT 2022 BY SOUTHERN A&E, LLC. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF SOUTHERN A&E, LLC AND SHALL NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN CONSENT FROM SOUTHERN A&E, LLC.

School Code: 746-5052

HVAC & Lighting Replacement to:

STONE CREEK ELEMENTARY

1600 HAPPY VALLEY RD, ROSSVILLE, GA 30741

WALKER COUNTY SCHOOL DISTRICT

201 S DUKE ST, LAFAYETTE, GA 30728

WING C - RENOVATION POWER & SPECIAL SYSTEMS PLAN

GEORGIA REGISTERED No. 27857 PROFESSIONAL ENGINEER FRANK E. CAMPO, JR.

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

SOUTHERN A & E, LLC
ENGINEER FIRM

LICENSE NO: PEF003374
EXP. DATE: 06/30/2024

DRAWING NUMBER

E107

ORIGINAL SHEET SIZE: ARCH E1 (30" X 42")