

**PANEL SCHEDULE**

Circuit No	THHN Wire Size	LOAD DESCRIPTION LOCATION	BREAKER AMP POLE	LOAD (VA)	AG BG CG		LOAD (VA)	BREAKER POLE AMP	LOAD DESCRIPTION LOCATION	THHN Wire Size	Circuit No	
					AG	BG						CG
1	#4	AHU-1	40 2	7500	○	○	○	2	CL-1	#6	2	
3	#4	AHU-1	40 2	7500	○	○	○	2	CL-1	#6	4	
5	#10	PANELBOARD PPT	200 2	14400	○	○	○	200	PANELBOARD PPT	#10	6	
7	#10	PANELBOARD PPT	200 2	14400	○	○	○	200	PANELBOARD PPT	#10	8	
9	#8	AHU-3	40 2	2500	○	○	○	2	CL-1	#10	10	
11	#8	AHU-3	40 2	2500	○	○	○	2	CL-1	#10	12	
13	#4	AHU-2	80 3	6000	○	○	○	3	CL-2	#6	14	
15	#4	AHU-2	80 3	6000	○	○	○	3	CL-2	#6	16	
17	#4	AHU-2	80 3	6000	○	○	○	3	CL-2	#6	18	
19	#4	AHU-4	80 3	6000	○	○	○	3	CL-4	#6	20	
21	#4	AHU-4	80 3	6000	○	○	○	3	CL-4	#6	22	
23	#4	AHU-4	80 3	6000	○	○	○	3	CL-4	#6	24	
25	#10	AHU-0 MAIN SUPPLY	30 2	2000	○	○	○	1	PANEL PPT-2	#12	26	
27	#10	AHU-0 MAIN SUPPLY	30 2	2000	○	○	○	1	PANEL PPT-2	#12	28	
29	#8	WATER HEATER	40 2	2000	○	○	○	2			30	
31				2000	○	○	○				32	
33					○	○	○				34	
35					○	○	○				36	
37					○	○	○				38	
39					○	○	○				40	
41					○	○	○				42	
				TOTAL CONNECTED LOAD (VA) = 29800					GROUND BUS			
				AG = 11840	BG = 8140	CG = 9820	GROUND WIRE (G)					

**PANEL SCHEDULE**

Circuit No	THHN Wire Size	LOAD DESCRIPTION LOCATION	BREAKER AMP POLE	LOAD (VA)	AG BG CG		LOAD (VA)	BREAKER POLE AMP	LOAD DESCRIPTION LOCATION	THHN Wire Size	Circuit No	
					AG	BG						CG
1	#2	REFRIGERATION	20 1	1100	○	○	○	1	CL-5	#6	2	
3	#2	REFRIGERATION	20 1	1100	○	○	○	1	CL-5	#6	4	
5	#2	REFRIGERATION	20 1	1100	○	○	○	1	CL-5	#6	6	
7	#4	AHU-0	80 3	6000	○	○	○	3	CL-6	#6	8	
9	#4	AHU-0	80 3	6000	○	○	○	3	CL-6	#6	10	
11	#4	AHU-0	80 3	6000	○	○	○	3	CL-6	#6	12	
13	#4	AHU-6	40 2	7500	○	○	○	2	CL-6	#6	14	
15	#4	AHU-6	40 2	7500	○	○	○	2	CL-6	#6	16	
17	#4	AHU-7	40 2	7500	○	○	○	2	CL-7	#6	18	
19	#4	AHU-4	40 2	2500	○	○	○	2	CL-4	#10	20	
21	#4	AHU-4	40 2	2500	○	○	○	2	CL-4	#10	22	
23	#8	RANGE	50 2	2500	○	○	○	2			24	
25	#8	RANGE	50 2	2500	○	○	○	2			26	
27	#8	RANGE	50 2	2500	○	○	○	2			28	
29	#8	RANGE	50 2	2500	○	○	○	2			30	
31	#8	RANGE	50 2	2500	○	○	○	2			32	
33	#8	RANGE	50 2	2500	○	○	○	2			34	
35	#8	RANGE	50 2	2500	○	○	○	2			36	
37	#8	RANGE	50 2	2500	○	○	○	2			38	
39	#8	RANGE	50 2	2500	○	○	○	2			40	
41					○	○	○				42	
				TOTAL CONNECTED LOAD (VA) = 42000					GROUND BUS			
				AG = 15800	BG = 4900	CG = 43200	GROUND WIRE (G)					

**PANEL SCHEDULE**

Circuit No	THHN Wire Size	LOAD DESCRIPTION LOCATION	BREAKER AMP POLE	LOAD (VA)	AG BG CG		LOAD (VA)	BREAKER POLE AMP	LOAD DESCRIPTION LOCATION	THHN Wire Size	Circuit No	
					AG	BG						CG
1	#12	RECEPTACLES, ELECTRICAL ROOM AND JANITOR'S ROOM	20 1	360	○	○	○	1	RECEPTACLES, ELECTRICAL ROOM AND JANITOR'S ROOM	#12	2	
3	#12	RECEPTACLES, KITCHEN COUNTER	20 1	1200	○	○	○	1	RECEPTACLES, KITCHEN COUNTER	#12	4	
5	#12	RECEPTACLES, KITCHEN ISLAND	20 1	1200	○	○	○	1	RECEPTACLES, KITCHEN ISLAND	#12	6	
7	#12	RECEPTACLES, CLASSROOM 09	20 1	1440	○	○	○	1	RECEPTACLES, CLASSROOM 09	#12	8	
9	#12	RECEPTACLES, CLASSROOM 09 AND RESTROOM 04	20 1	1440	○	○	○	1	RECEPTACLES, CLASSROOM 09 AND RESTROOM 04	#12	10	
11	#12	RECEPTACLES, CLASSROOM 09	20 1	1440	○	○	○	1	RECEPTACLES, CLASSROOM 09	#12	12	
13	#12	RECEPTACLES, FRONT CLOSET	20 1	400	○	○	○	1	RECEPTACLES, FRONT CLOSET	#12	14	
15	#12	RECEPTACLES, RECEPTION AREA	20 1	400	○	○	○	1	RECEPTACLES, RECEPTION AREA	#12	16	
17	#12	RECEPTACLES, RECEPTION AREA	20 1	400	○	○	○	1	RECEPTACLES, RECEPTION AREA	#12	18	
19	#12	RECEPTACLES, MEN, WOMEN, AND CORRIDOR	20 1	760	○	○	○	1	RECEPTACLES, MEN, WOMEN, AND CORRIDOR	#12	20	
21	#12	KITCHEN, ROOM 07, JANITOR AND ELECTRICAL ROOM	20 1	800	○	○	○	1	KITCHEN, ROOM 07, JANITOR AND ELECTRICAL ROOM	#12	22	
23	#12	RECEPTACLES, RECEPTION CENTER	20 1	1200	○	○	○	1	RECEPTACLES, RECEPTION CENTER	#12	24	
25	#12	RECEPTACLES, RECEPTION CENTER	20 1	1200	○	○	○	1	RECEPTACLES, RECEPTION CENTER	#12	26	
27	#12	RECEPTACLES, CLASSROOM 07, 08, 09	20 1	600	○	○	○	1	RECEPTACLES, CLASSROOM 07, 08, 09	#12	28	
29	#12	RECEPTACLES, CLASSROOM 09	20 1	1200	○	○	○	1	RECEPTACLES, CLASSROOM 09	#12	30	
31					○	○	○				32	
33					○	○	○				34	
35					○	○	○				36	
37					○	○	○				38	
39					○	○	○				40	
41					○	○	○				42	
				TOTAL CONNECTED LOAD (VA) = 29800					GROUND BUS			
				AG = 14840	BG = 1740	CG = 8000	GROUND WIRE (G)					

**PANEL SCHEDULE**

Circuit No	THHN Wire Size	LOAD DESCRIPTION LOCATION	BREAKER AMP POLE	LOAD (VA)	AG BG CG		LOAD (VA)	BREAKER POLE AMP	LOAD DESCRIPTION LOCATION	THHN Wire Size	Circuit No	
					AG	BG						CG
1	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	2	
3	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	4	
5	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	6	
7	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	8	
9	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	10	
11	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	12	
13	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	14	
15	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	16	
17	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	18	
19	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	20	
21	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	22	
23	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	24	
25	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	26	
27	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	28	
29	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	30	
31	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	32	
33	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	34	
35	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	36	
37	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	38	
39	#12	REFRIGERATION	20 1	1500	○	○	○	1	REFRIGERATION	#12	40	
41					○	○	○				42	
				TOTAL CONNECTED LOAD (VA) = 17800					GROUND BUS			
				AG = 4840	BG = 8000	CG = 5000	GROUND WIRE (G)					

**ELECTRICAL LOAD SUMMARY**

PROJECT:	GRACE FELLOWSHIP CHURCH
NAME:	PEARL RIVER, LOUISIANA
ADDRESS:	CHURCH
CITY/TOWN:	
INTENDED USER:	
REQ SERV:	240 V 3 PHASE 4 WIRES
SERV ENTR SIZE:	800 AMPS
HVAC TONNAGE:	0 TONS
LARGEST MOTOR:	0 HP
TOTAL BUILDING SQ FT:	0 SF
INDIVIDUAL UNIT SQUARE FOOTAGE:	0 SF (MULT OCCUPANCY)
INDIVIDUAL UNIT DESIGNATION:	(MULT OCCUPANCY)
LOAD SOURCE	10-KVA OR 10-KM OR 30-KM
BUILDING LIGHTING	15.7
ELECTRIC WATER HEATING	5.0
HEAT PUMPS	N/A
SUPPLEMENTAL HEAT SYSTEMS	N/A
AIR COND CONDENSING UNITS	76
ELEC HEATING (PRIMARY) - AHUs	165
COOKING	5.0
REFRIGERATION	11.5
RECEPTACLES (STANDARD)	31.3
RECEPTACLES (COMPUTER)	N/A
TOTAL MOTORS (EXCLUDE HVAC)	N/A
EXTERIOR LIGHTING	1.6
MISCELLANEOUS - CEILING FANS	N/A
OTHER (SPECIFY)	N/A

NOTE: MOTORS ABOVE 30HP MAY REQUIRE REDUCED VOLTAGE STARTING AND ARE NEVER RECOMMENDED FOR USE W/ 120/240V, 1Ø, 3Ø SERVICE

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**GRACE FELLOWSHIP**  
34442 WILLIS ALLEY  
PEARL RIVER, LA  
JOB No: 2340 DATE: 04/30/2018  
DRAWN BY: CKD CHECKED BY: BAM

SHEET TITLE: ONE LINE DIAGRAM AND PANEL SCHEDULES  
DRAWING NUMBER: E105  
SHEET NO: 17 OF 18