

PANEL SCHEDULE

| Circuit No. | THHN Wire Size | DESCRIPTION LOCATION | BREAKER AMP POLE | LOAD (VA) | GROUNDING | | Circuit No. | THHN Wire Size | DESCRIPTION LOCATION | BREAKER AMP POLE | LOAD (VA) |
|-------------|----------------|-------------------------|---------------------|--------------|-----------|----|-------------|----------------|-------------------------|---------------------|--------------|
| | | | | | AG | EG | | | | | |
| 1 | #4 | AHU-1 | 40 | 2 | 2 | 2 | 2 | #4 | 40 | 2 | 2 |
| 3 | #4 | AHU-1 | 40 | 2 | 2 | 2 | 4 | #4 | 40 | 2 | 4 |
| 5 | #10 | PANELBOARD PPT | 200 | 2 | 2 | 2 | 6 | #10 | 200 | 2 | 6 |
| 7 | #10 | PANELBOARD PPT | 200 | 2 | 2 | 2 | 8 | #10 | 200 | 2 | 8 |
| 9 | #8 | AHU-3 | 40 | 2 | 2 | 2 | 10 | #8 | 40 | 2 | 10 |
| 11 | #8 | AHU-3 | 40 | 2 | 2 | 2 | 12 | #8 | 40 | 2 | 12 |
| 13 | #4 | AHU-2 | 80 | 3 | 3 | 3 | 14 | #4 | 80 | 3 | 14 |
| 15 | #4 | AHU-2 | 80 | 3 | 3 | 3 | 16 | #4 | 80 | 3 | 16 |
| 17 | #4 | AHU-2 | 80 | 3 | 3 | 3 | 18 | #4 | 80 | 3 | 18 |
| 19 | #4 | AHU-4 | 80 | 3 | 3 | 3 | 20 | #4 | 80 | 3 | 20 |
| 21 | #4 | AHU-4 | 80 | 3 | 3 | 3 | 22 | #4 | 80 | 3 | 22 |
| 23 | #4 | AHU-4 | 80 | 3 | 3 | 3 | 24 | #4 | 80 | 3 | 24 |
| 25 | #10 | AHU-0 MINISPLIT | 30 | 2 | 2 | 2 | 26 | #10 | 30 | 2 | 26 |
| 27 | #10 | AHU-0 MINISPLIT | 30 | 2 | 2 | 2 | 28 | #10 | 30 | 2 | 28 |
| 29 | #8 | WATER HEATER | 40 | 2 | 2 | 2 | 30 | #8 | 40 | 2 | 30 |
| 31 | | | | | | | 32 | | | | 32 |
| 33 | | | | | | | 34 | | | | 34 |
| 35 | | | | | | | 36 | | | | 36 |
| 37 | | | | | | | 38 | | | | 38 |
| 39 | | | | | | | 40 | | | | 40 |
| 41 | | | | | | | 42 | | | | 42 |

TOTAL CONNECTED LOAD (VA) = 29800
AG = 17840 EG = 5140 CG = 6820

PANEL SCHEDULE

| Circuit No. | THHN Wire Size | DESCRIPTION LOCATION | BREAKER AMP POLE | LOAD (VA) | GROUNDING | | Circuit No. | THHN Wire Size | DESCRIPTION LOCATION | BREAKER AMP POLE | LOAD (VA) |
|-------------|----------------|-------------------------|---------------------|--------------|-----------|----|-------------|----------------|-------------------------|---------------------|--------------|
| | | | | | AG | EG | | | | | |
| 1 | #4 | AHU-5 | 40 | 3 | 3 | 3 | 2 | #4 | 40 | 3 | 2 |
| 3 | #4 | AHU-5 | 40 | 3 | 3 | 3 | 4 | #4 | 40 | 3 | 4 |
| 5 | #4 | AHU-5 | 40 | 3 | 3 | 3 | 6 | #4 | 40 | 3 | 6 |
| 7 | #4 | AHU-0 | 80 | 3 | 3 | 3 | 8 | #4 | 80 | 3 | 8 |
| 9 | #4 | AHU-0 | 80 | 3 | 3 | 3 | 10 | #4 | 80 | 3 | 10 |
| 11 | #4 | AHU-0 | 80 | 3 | 3 | 3 | 12 | #4 | 80 | 3 | 12 |
| 13 | #4 | AHU-6 | 40 | 2 | 2 | 2 | 14 | #4 | 40 | 2 | 14 |
| 15 | #4 | AHU-6 | 40 | 2 | 2 | 2 | 16 | #4 | 40 | 2 | 16 |
| 17 | #4 | AHU-7 | 40 | 2 | 2 | 2 | 18 | #4 | 40 | 2 | 18 |
| 19 | #4 | AHU-4 | 40 | 2 | 2 | 2 | 20 | #4 | 40 | 2 | 20 |
| 21 | #4 | AHU-4 | 40 | 2 | 2 | 2 | 22 | #4 | 40 | 2 | 22 |
| 23 | #4 | AHU-4 | 40 | 2 | 2 | 2 | 24 | #4 | 40 | 2 | 24 |
| 25 | #8 | RANGE | 50 | 2 | 2 | 2 | 26 | #8 | 50 | 2 | 26 |
| 27 | #8 | RANGE | 50 | 2 | 2 | 2 | 28 | #8 | 50 | 2 | 28 |
| 29 | #8 | RANGE | 50 | 2 | 2 | 2 | 30 | #8 | 50 | 2 | 30 |
| 31 | | | | | | | 32 | | | | 32 |
| 33 | | | | | | | 34 | | | | 34 |
| 35 | | | | | | | 36 | | | | 36 |
| 37 | | | | | | | 38 | | | | 38 |
| 39 | | | | | | | 40 | | | | 40 |
| 41 | | | | | | | 42 | | | | 42 |

TOTAL CONNECTED LOAD (VA) = 14200
AG = 5180 EG = 4900 CG = 4120

PANEL SCHEDULE

| Circuit No. | THHN Wire Size | DESCRIPTION LOCATION | BREAKER AMP POLE | LOAD (VA) | GROUNDING | | Circuit No. | THHN Wire Size | DESCRIPTION LOCATION | BREAKER AMP POLE | LOAD (VA) |
|-------------|----------------|---|---------------------|--------------|-----------|----|-------------|----------------|-------------------------|---------------------|--------------|
| | | | | | AG | EG | | | | | |
| 1 | #12 | RECEPTACLES, ELECTRICAL ROOM AND JANITOR'S ROOM | 20 | 1 | 1 | 1 | 2 | #12 | 20 | 1 | 2 |
| 3 | #12 | RECEPTACLES, KITCHEN COUNTER | 20 | 1 | 1 | 1 | 4 | #12 | 20 | 1 | 4 |
| 5 | #12 | RECEPTACLES, KITCHEN ISLAND | 20 | 1 | 1 | 1 | 6 | #12 | 20 | 1 | 6 |
| 7 | #12 | RECEPTACLES, CLASSROOM 09 | 20 | 1 | 1 | 1 | 8 | #12 | 20 | 1 | 8 |
| 9 | #12 | RECEPTACLES, CLASSROOM 09 AND RESTROOM 04 | 20 | 1 | 1 | 1 | 10 | #12 | 20 | 1 | 10 |
| 11 | #12 | RECEPTACLES, CLASSROOM 09 | 20 | 1 | 1 | 1 | 12 | #12 | 20 | 1 | 12 |
| 13 | #12 | RECEPTACLES, FRONT CLOSET | 20 | 1 | 1 | 1 | 14 | #12 | 20 | 1 | 14 |
| 15 | #12 | RECEPTACLES, NURSE AREA | 20 | 1 | 1 | 1 | 16 | #12 | 20 | 1 | 16 |
| 17 | #12 | RECEPTACLES, NURSE AREA | 20 | 1 | 1 | 1 | 18 | #12 | 20 | 1 | 18 |
| 19 | #12 | RECEPTACLES, MEN ROOM AND CONDUCTOR | 20 | 1 | 1 | 1 | 20 | #12 | 20 | 1 | 20 |
| 21 | #12 | KITCHEN ROOM, ST. JONATHAN AND ELECTRICAL ROOM | 20 | 1 | 1 | 1 | 22 | #12 | 20 | 1 | 22 |
| 23 | #12 | RECEPTACLES, NURSE CENTER ROOM | 20 | 1 | 1 | 1 | 24 | #12 | 20 | 1 | 24 |
| 25 | #12 | RECEPTACLES, PLUMBER ROOM | 20 | 1 | 1 | 1 | 26 | #12 | 20 | 1 | 26 |
| 27 | #12 | RECEPTACLES, CLASSROOM 07 | 20 | 1 | 1 | 1 | 28 | #12 | 20 | 1 | 28 |
| 29 | #12 | RECEPTACLES, OFFICE 05 | 20 | 1 | 1 | 1 | 30 | #12 | 20 | 1 | 30 |
| 31 | | | | | | | 32 | | | | 32 |
| 33 | | | | | | | 34 | | | | 34 |
| 35 | | | | | | | 36 | | | | 36 |
| 37 | | | | | | | 38 | | | | 38 |
| 39 | | | | | | | 40 | | | | 40 |
| 41 | | | | | | | 42 | | | | 42 |

TOTAL CONNECTED LOAD (VA) = 2980
AG = 1840 EG = 1140

PANEL SCHEDULE

| Circuit No. | THHN Wire Size | DESCRIPTION LOCATION | BREAKER AMP POLE | LOAD (VA) | GROUNDING | | Circuit No. | THHN Wire Size | DESCRIPTION LOCATION | BREAKER AMP POLE | LOAD (VA) |
|-------------|----------------|-----------------------------|---------------------|--------------|-----------|----|-------------|----------------|-------------------------|---------------------|--------------|
| | | | | | AG | EG | | | | | |
| 1 | #12 | RECEPTACLE, KITCHEN | 20 | 1 | 1 | 1 | 2 | #12 | 20 | 1 | 2 |
| 3 | #12 | RECEPTACLE, KITCHEN REFRIG. | 20 | 1 | 1 | 1 | 4 | #12 | 20 | 1 | 4 |
| 5 | #12 | RECEPTACLE, KITCHEN COUNTER | 20 | 1 | 1 | 1 | 6 | #12 | 20 | 1 | 6 |
| 7 | #12 | RECEPTACLE, KITCHEN COUNTER | 20 | 1 | 1 | 1 | 8 | #12 | 20 | 1 | 8 |
| 9 | #12 | RECEPTACLES, KITCHEN WALLS | 20 | 1 | 1 | 1 | 10 | #12 | 20 | 1 | 10 |
| 11 | #12 | RECEPTACLES, MEN ROOM | 20 | 1 | 1 | 1 | 12 | #12 | 20 | 1 | 12 |
| 13 | #12 | RECEPTACLES, MEN ROOM | 20 | 1 | 1 | 1 | 14 | #12 | 20 | 1 | 14 |
| 15 | #12 | RECEPTACLES, MEN ROOM | 20 | 1 | 1 | 1 | 16 | #12 | 20 | 1 | 16 |
| 17 | #12 | RECEPTACLES, MEN ROOM | 20 | 1 | 1 | 1 | 18 | #12 | 20 | 1 | 18 |
| 19 | #12 | RECEPTACLES, MEN ROOM | 20 | 1 | 1 | 1 | 20 | #12 | 20 | 1 | 20 |
| 21 | | | | | | | 22 | | | | 22 |
| 23 | | | | | | | 24 | | | | 24 |
| 25 | | | | | | | 26 | | | | 26 |
| 27 | | | | | | | 28 | | | | 28 |
| 29 | | | | | | | 30 | | | | 30 |
| 31 | | | | | | | 32 | | | | 32 |
| 33 | | | | | | | 34 | | | | 34 |
| 35 | | | | | | | 36 | | | | 36 |
| 37 | | | | | | | 38 | | | | 38 |
| 39 | | | | | | | 40 | | | | 40 |
| 41 | | | | | | | 42 | | | | 42 |

TOTAL CONNECTED LOAD (VA) = 1780
AG = 940 EG = 840

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 (MULTI OCCUPANCY) |
| INDIVIDUAL UNIT DESIGNATION: | (MULTI 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 |

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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: