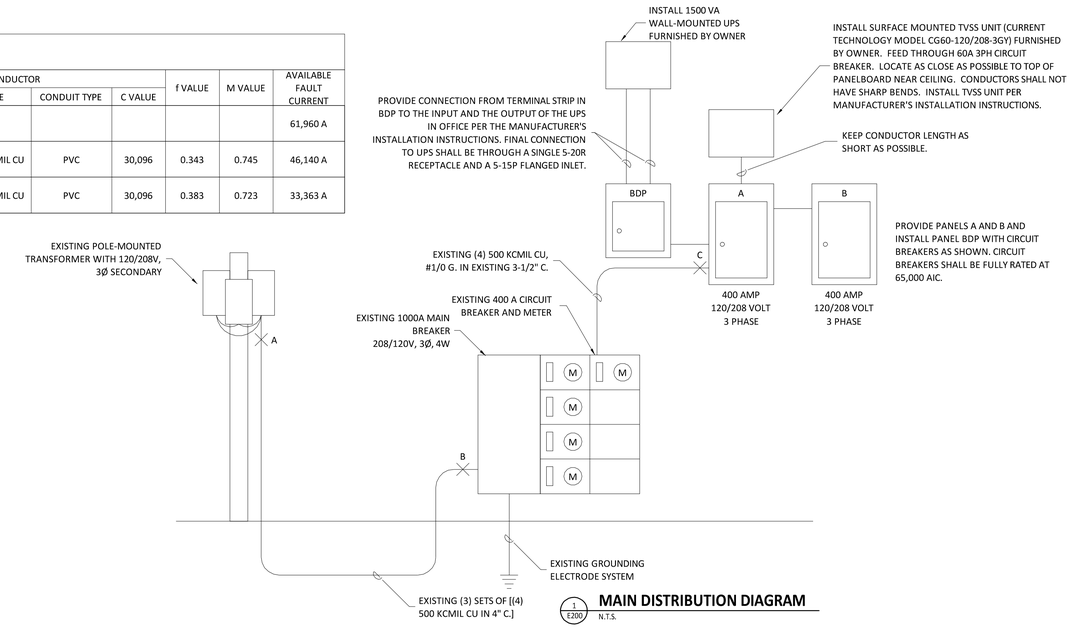
## AVAILABLE FAULT CURRENT CALCULATIONS

| POINT | VOLTAGE | PHASES | CONDUCTOR | | | | | f VALUE | M VALUE | AVAILABLE FAULT CURRENT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | LENGTH | # SETS | SIZE | CONDUIT TYPE | C VALUE | | | |
| A | 208 V | 3 | | | | | | | | 61,960 A |
| B | 208 V | 3 | 60 FT | 3 | 500 KCMIL CU | PVC | 30,096 | 0.343 | 0.745 | 46,140 A |
| C | 208 V | 3 | 30 FT | 1 | 500 KCMIL CU | PVC | 30,096 | 0.383 | 0.723 | 33,363 A |




1 E200 **MAIN DISTRIBUTION DIAGRAM**
N.T.S.

**Panel Name:** BDP
**Volts:** 120
**Phases:** 1
**Mains:** LUGS
**Mounting:** Recessed
**Wires:** 3
**Amperage:** 30 A
**Enclosure:** Type 1

| CKT | Circuit Description | Trip | Poles | Load |
|---|---|---|---|---|
| 1 | POS | 6 A | 1 | 0.2 kVA |
| 2 | Fax Line | 6 A | 1 | 0.2 kVA |
| 3 | Office - Network Gear | 6 A | 1 | 0.2 kVA |
| 4 | Office - Computer | 6 A | 1 | 0.4 kVA |
| 5 | Office - DVR | 6 A | 1 | 0.2 kVA |
| | | | **Total Load:** | 0.5 kVA |
| | | | **Total Amps:** | 5 A |

**Panel: A**
**Volts:** 208/120V Wye
**Phases:** 3
**Mains:** LUGS
**Wires:** 4
**Amperage:** 400 A
**Mounting:** Recessed
**MCB Rating:**
**Enclosure:** Type 1

| CKT | Circuit Description | Rating | Poles | Type Notes | CKT AMPS | Load Type | A | | B | | C | | Load Type | CKT AMPS | Type Notes | Poles | Rating | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RTU-1 (3-#8, #10 G. in 3/4" C.) | 50 A | 3 | HACR | 32.3 | C | 3.9 kVA | 0.0 kVA | | | | | - | 0.0 | | 3 | 60 A | TVSS | 2 |
| 3 | -- | -- | -- | -- | -- | -- | | | 3.9 kVA | 0.0 kVA | | | -- | -- | -- | -- | -- | -- | 4 |
| 5 | -- | -- | -- | -- | -- | -- | | | | | 3.9 kVA | 0.0 kVA | -- | -- | -- | -- | -- | -- | 6 |
| 7 | RTU-2 (3-#8, #10 G. in 3/4" C.) | 50 A | 3 | HACR | 41.9 | C | 5.0 kVA | 0.0 kVA | | | | | -- | -- | | 1 | 20 A | Spare | 8 |
| 9 | -- | -- | -- | -- | -- | -- | | | 5.0 kVA | 0.5 kVA | | | E | 4.4 | | 1 | 15 A | EF-2 | 10 |
| 11 | -- | -- | -- | -- | -- | -- | | | | | 5.0 kVA | 0.0 kVA | -- | -- | | 1 | 20 A | Spare | 12 |
| 13 | RECEPTACLES - STOREFRONT Receptaculo | 20 A | 1 | | 13.5 | G | 1.6 kVA | 1.9 kVA | | | | | E | 15.6 | | 3 | 30 A | EF-1/MAU-1 (3-#10, #10 G. IN 3/4" C) | 14 |
| 15 | RECEPTACLES - DINING Receptaculo | 20 A | 1 | | 1.5 | G | | | 0.2 kVA | 1.9 kVA | | | -- | -- | -- | -- | -- | -- | 16 |
| 17 | WARE-WASH FLOOR DRYER Secador del Piso | 20 A | 1 | | 9.8 | F | | | | | 1.2 kVA | 1.9 kVA | -- | -- | -- | -- | -- | -- | 18 |
| 19 | Panel BDP | 20 A | 1 | | 9.0 | G | 0.5 kVA | 0.4 kVA | | | | | A | 3.0 | | 1 | 20 A | LIGHTING - EM/NL Luces | 20 |
| 21 | RECEPTACLES - ROOFTOP Receptaculo | 20 A | 1 | | 3.0 | G | | | 0.4 kVA | 0.8 kVA | | | A | 7.0 | | 1 | 20 A | LIGHTING - DINING ROOM Luces | 22 |
| 23 | RECEPTACLES - POS GENERAL Receptaculo | 20 A | 1 | | 6.0 | G | | | | | 0.7 kVA | 1.8 kVA | A | 15.0 | | 1 | 20 A | LIGHTING - FRONT KITCHEN Luces | 24 |
| 25 | SECURITY/AUDIO Sistema de la Seguridad | 20 A | 1 | | 4.5 | G | 0.5 kVA | 0.5 kVA | | | | | A | 4.0 | | 1 | 20 A | LIGHTING - BACK KITCHEN Luces | 26 |
| 27 | TELEPHONE BACKBOARD Receptaculo | 20 A | 1 | | 1.5 | G | | | 0.2 kVA | 0.9 kVA | | | B | 7.5 | | 1 | 20 A | SIGN LIGHTING Luces | 28 |
| 29 | RECEPTACLES - OFFICE Recaptaculo | 20 A | 1 | | 9.0 | G | | | | | 1.1 kVA | 0.9 kVA | B | 7.5 | | 1 | 20 A | SIGN LIGHTING Luces | 30 |
| 31 | RECEPTACLES - RESTROOMS Recaptaculo | 20 A | 1 | | 3.0 | G | 0.4 kVA | 0.2 kVA | | | | | G | 1.5 | | 1 | 20 A | SIGN LIGHITNG Luces | 32 |
| 33 | RECEPTACLES - FAX & LAUNCHPORT Receptaculo | 20 A | 1 | | 6.0 | G | | | 0.7 kVA | 1.5 kVA | | | D | 14.4 | | 2 | 20 A | UNIT HEATER | 34 |
| 35 | HD-1 (CONTROL AND LIGHTS) | 20 A | 1 | | 1.5 | E | | | | | 0.2 kVA | 1.5 kVA | -- | -- | -- | -- | -- | -- | 36 |
| 37 | Spare | 20 A | 1 | | -- | -- | 0.0 kVA | 0.0 kVA | | | | | -- | -- | | 1 | 20 A | Spare | 38 |
| 39 | Spare | 20 A | 1 | | -- | -- | | | 0.0 kVA | 0.0 kVA | | | -- | -- | | 1 | 20 A | Spare | 40 |
| 41 | Spare | 20 A | 1 | | -- | -- | | | | | 0.0 kVA | 0.0 kVA | -- | -- | | 1 | 20 A | Spare | 42 |
| | | | | | | **kVA** | 26.8 kVA | | 31.6 kVA | | 30.2 kVA | | | | | | | | |
| | | | | | | **AMPS** | 223 A | | 267 A | | 256 A | | | | | | | | |

| Type | Description | Connected Load | Demand Factor | | Estimated Demand |
|---|---|---|---|---|---|
| A | Interior Lighting | 3 kVA | 125.00% | | 4 kVA |
| B | Exterior Lighting | 2 kVA | 125.00% | | 2 kVA |
| C | Comfort Cooling | 27 kVA | 100.00% | + 25% Largest Motor | 27 kVA |
| D | Comfort Heating | 3 kVA | 100.00% | | 3 kVA |
| E | Miscellaneous Motor | 6 kVA | 100.00% | | 6 kVA |
| F | Kitchen Equipment | 40 kVA | 65.00% | | 26 kVA |
| G | Receptacles | 7 kVA | 100.00% | | 7 kVA |

**Panel Totals (Includes Panel B)**

| | |
|---|---|
| **Total Connected kVA:** | 88 kVA |
| **Total Connected Amps:** | 246 A |
| **Total Estimated kVA:** | 76 kVA |
| **Total Estimated Amps:** | 210 A |

**Panel: B**
**Volts:** 208/120V Wye
**Phases:** 3
**Mains:** LUGS
**Wires:** 4
**Amperage:** 400 A
**Mounting:** Recessed
**MCB Rating:**
**Enclosure:** Type 1

| CKT | Circuit Description | Rating | Poles | Type Notes | CKT AMPS | Load Type | A | | B | | C | | Load Type | CKT AMPS | Type Notes | Poles | Rating | Circuit Description | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Spare | 20 A | 1 | | -- | -- | 0.0 kVA | 0.2 kVA | | | | | F | 1.7 | | 1 | 20 A | WALK-IN COOLER | 2 |
| 3 | CARBONATOR/CO2 ALARM Maquina de la Soda/Alarma | 20 A | 1 | | 10.9 | F | | | 1.3 kVA | 1.4 kVA | | | F | 11.3 | GFCI | 1 | 20 A | FOOD PREP TABLE (ISLAND) Receptaculo | 4 |
| 5 | FOOD PREP TABLE Receptaculo | 20 A | 1 | GFCI | 11.3 | F | | | | | 1.4 kVA | 1.1 kVA | F | 9.4 | | 1 | 20 A | SODA SYSTEM DISPENSER Systema de Sodas | 6 |
| 7 | REACH-IN REFRIGERATOR Refrigerador | 20 A | 1 | GFCI | 13.8 | F | 1.7 kVA | 0.8 kVA | | | | | F | 6.3 | | 1 | 20 A | BLENDER Mezclador | 8 |
| 9 | COLD TOP (SERVE LINE) Refrigerador | 20 A | 1 | | 12.0 | F | | | 1.4 kVA | 1.0 kVA | | | F | 10.0 | | 2 | 20 A | CARVING STATION | 10 |
| 11 | ICE MAKER Maquina del Hielo | 20 A | 2 | | 10.7 | F | | | | | 1.1 kVA | 1.0 kVA | -- | -- | -- | -- | -- | -- | 12 |
| 13 | -- | -- | -- | -- | -- | -- | 1.1 kVA | 2.1 kVA | | | | | F | 20.0 | | 2 | 30 A | HOT FOOD SERVER (SERVE) Servidor Caliente del Alimento (2-#10, #10 G. in 3/4" C.) | 14 |
| 15 | GAS WATER HEATER Calientador de Aqua del Gas | 20 A | 1 | | 5.0 | F | | | 0.6 kVA | 2.1 kVA | | | -- | -- | -- | -- | -- | -- | 16 |
| 17 | TORTILLA PRESS (BACK BAR) Parilla del Emparedado | 20 A | 1 | GFCI | 13.8 | F | | | | | 1.7 kVA | 1.4 kVA | F | 13.0 | | 2 | 20 A | TORTILLA PRESS (SERVE LINE) Parilla del Emparedado (2-#10, #10 G. in 3/4" C.) | 18 |
| 19 | Space | -- | -- | -- | -- | -- | 0.0 kVA | 1.4 kVA | | | | | -- | -- | -- | -- | -- | -- | 20 |
| 21 | GAS GRIDDLE | 20 A | 1 | SHNT TRIP | 1.5 | F | | | 0.2 kVA | 1.2 kVA | | | F | 9.8 | | 1 | 20 A | REFRIGERATOR (COOK LINE) Refrigerador | 22 |
| 23 | SHUNT | -- | -- | -- | -- | -- | | | | | 0.0 kVA | 0.8 kVA | F | 7.0 | | 1 | 20 A | SALAD CHILLER | 24 |
| 25 | GAS FRYER | 20 A | 1 | SHNT TRIP | 0.6 | F | 0.1 kVA | 1.0 kVA | | | | | F | 10.0 | | 2 | 20 A | HOT FOOD SERVER (FAX LINE) Servidor Caliente del Alimento (2-#10, #10 G. in 3/4" C.) | 26 |
| 27 | SHUNT | -- | -- | -- | -- | -- | | | 0.0 kVA | 1.0 kVA | | | -- | -- | -- | -- | -- | -- | 28 |
| 29 | FOOD WARMER (RICE TABLE) Warmer de Alimento | 15 A | 1 | | 1.5 | F | | | | | 0.2 kVA | 1.4 kVA | F | 11.7 | | 1 | 20 A | FOODWARMER (FAX LINE) Warmer de Alimento | 30 |
| 31 | Spare | 20 A | 1 | | -- | -- | 0.0 kVA | 0.3 kVA | | | | | F | 2.1 | | 1 | 20 A | SALAD SPINNER | 32 |
| 33 | TORTILLA PRESS (FAX LINE) Parrilla del Emparedado | 20 A | 1 | GFCI | 13.8 | F | | | 1.7 kVA | 1.2 kVA | | | F | 10.0 | GFCI | 1 | 20 A | COLD TOP (FAX LINE) Refrigerador | 34 |
| 35 | Space | -- | -- | -- | -- | -- | | | | | 0.0 kVA | 2.0 kVA | F | 16.2 | | 3 | 20 A | CU-1 | 36 |
| 37 | UPRIGHT REFRIGERATOR Refrigerador | 20 A | 1 | | 12.0 | F | 1.4 kVA | 2.0 kVA | | | | | -- | -- | -- | -- | -- | -- | 38 |
| 39 | Spare | 20 A | 1 | | -- | -- | | | 0.0 kVA | 2.0 kVA | | | -- | -- | -- | -- | -- | -- | 40 |
| 41 | Spare | 20 A | 1 | | -- | -- | | | | | 0.0 kVA | 0.0 kVA | -- | -- | | 1 | 20 A | Spare | 42 |
| | | | | | | **kVA** | 11.9 kVA | | 15.0 kVA | | 12.0 kVA | | | | | | | | |
| | | | | | | **AMPS** | 99 A | | 125 A | | 100 A | | | | | | | | |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Issue Record:

| | |
|---|---|
| 09/15/15 | PERMIT/LANDLORD REVIEW |

Revisions:

Drawn: AJJ
Checked: RTJ

Project No. 1401163

Contents:

Electrical Schedules & Details

E200

Date of Last Print: 09/15/15