NRD Project # 17113

| CKT. # | DESCRIPTION | NOTE | BREAKER POLE | BREAKER AMP. | LOAD (KVA) | A | B | C | LOAD (KVA) | BREAKER AMP. | BREAKER POLE | NOTE | DESCRIPTION | CKT. # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | E12 - ICE CREAM 1 | #4 | 1 | 20 | 0.20 | 1.1 | | | 0.90 | 20 | 1 | #4 | E31 - WORKTOP COOLER | 2 |
| 3 | E54 - FRENCH FRY WARMER | #4 | 1 | 20 | 1.92 | | 2.4 | | 0.50 | 20 | 1 | #4 | C.O. - REC -CONVENIENCE | 4 |
| 5 | E93 - SODA SYSTEM | #4 | 1 | 20 | 0.62 | | | 1.4 | 0.76 | 20 | 1 | #4 | E53 - WORK TOP FREEZER | 6 |
| 7 | ECO1 - REC - CONVENIENCE | #4 | 1 | 20 | 0.18 | 0.9 | | | 0.72 | 20 | 1 | | USB OUTLETS @ DINING | 8 |
| 9 | E19 - ICE/SODA DISPENSER | #4 | 1 | 20 | 0.76 | | 1.3 | | 0.50 | 20 | 1 | #4 | E82 - BISCUIT FLOUR HOOD | 10 |
| 11 | E8 - ICE/SODA DISPENSER | #4 | 1 | 20 | 0.76 | | | 1.7 | 0.96 | 20 | 1 | #4 | E40 - REACH-IN REFRIGERATOR | 12 |
| 13 | E37/E38 TIMERS | #4 | 1 | 20 | 0.50 | 1.9 | | | 1.43 | 20 | 1 | #4 | E49 - UC REFRIG/FREEZER | 14 |
| 15 | E29 - TRANSFER TABLE LOAD CENTER | | 2 | 125 | 5.30 | | 5.9 | | 0.63 | 20 | 1 | #4 | E11 - DRINK MIXER | 16 |
| 17 | 3#1, #6 G. in (1) 1-1/2" C. EA | | | | 5.30 | | | 5.9 | 0.63 | 20 | 1 | #4 | E11 - DRINK MIXER | 18 |
| 19 | E60 - MAKE UP TABLE LOAD CENTER | | 2 | 100 | 6.88 | 8.3 | | | 1.40 | 20 | 1 | | E6/E7 - ICE CUBER W/ REMOTE | 20 |
| 21 | 3#1, #8 G. in (1) 1-1/2" C. EA | | | | 6.88 | | 8.4 | | 1.50 | 20 | 1 | #5 | E102 - HAND DRYER | 22 |
| 23 | E51/E57/E88 - HOOD LIGHTS | #1 | 1 | 20 | 1.50 | | | 3.0 | 1.50 | 20 | 1 | #5 | E102 - HAND DRYER | 24 |
| 25 | E59 - SLIDE TOP FREEZER | #4 | 1 | 20 | 0.69 | 1.0 | | | 0.36 | 20 | 1 | | REC - UTILITY ROOM | 26 |
| 27 | SPACE | | 1 | | | | 0.5 | | 0.50 | 20 | 1 | #5 | JB - DRIVE THRU WINDOW | 28 |
| 29 | SPACE | | 1 | | | | | 0.5 | 0.50 | 20 | 1 | #2 | JB - SECURITY/FA CABINET | 30 |
| 31 | E99 - HOT WATER DISPENSER | | 2 | 25 | 2.03 | 2.8 | | | 0.72 | 20 | 1 | | REC - TV/DVD COMBO & C.O. | 32 |
| 33 | 2#10, #10 G. in (1) 3/4" C. EA | | | | 2.03 | | 4.0 | | 1.92 | 20 | 1 | #4 | E62 - MICROWAVE OVEN | 34 |
| 35 | E22 - UNDERCOUNTER COOLER | #4 | 1 | 20 | 0.40 | | | 2.5 | 2.10 | 30 | 2 | | E4 - COFFEE BREWER | 36 |
| 37 | E42 - REACH-IN REFRIG. | #4 | 1 | 20 | 0.96 | 3.1 | | | 2.10 | | | | 2#10, #10 G. in (1) 3/4" C. EA | 38 |
| 39 | REC - SHOW WINDOW | | 1 | 20 | 1.08 | | 3.2 | | 2.10 | 30 | 2 | | E4 - COFFEE BREWER | 40 |
| 41 | E84 TIMERS - REC @ KITCHEN | #4 | 1 | 20 | 0.72 | | | 2.8 | 2.10 | | | | 2#10, #10 G. in (1) 3/4" C. EA | 42 |
| | | | | | | 19.1 | 25.6 | 17.8 | TOTAL KVA PER PHASE | | | | | |

VOLTAGE 208Y/120V
PHASE 3
WIRE 4
MAINS MLO
RATING 225 (AMPS)
WITH I.G. BAR NO
LOCATION SEE PLAN
MOUNTING SURFACE
FEEDER SEE SHOP DRAWINGS
MIN AIC 62k

PANEL "A"

| ITEMS | CON. | % | DEM. |
|---|---|---|---|
| RECEPTACLES | 3.4 | code | 3.4 |
| KITCHEN | 53.7 | 65% | 34.9 |
| HVAC | 0.0 | 100% | 0.0 |
| LIGHTS (INT.) | 0.0 | 125% | 0.0 |
| LIGHTS (EXT.) | 0.0 | 125% | 0.0 |
| MISC. | 5.4 | 100% | 5.4 |
| TOTAL KVA | 62.5 | | 43.7 |
| TOTAL AMPS | 173.5 | | 121 |

NOTES:
1) RUN THRU BUILDING CONTROL PANEL
2) PROVIDE LOCK-ON BREAKER
3) RUN THRU BUILDING CONTROL PANEL FOR SHUNT TRIP PROTECTION
4) GFI BREAKER.
5) PROVIDE LOCKABLE BREAKER PER NEC 422.31(B).

| CKT. # | DESCRIPTION | NOTE | BREAKER POLE | BREAKER AMP. | LOAD (KVA) | A | B | C | LOAD (KVA) | BREAKER AMP. | BREAKER POLE | NOTE | DESCRIPTION | CKT. # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EF-1 FLA: 1.9 | #2 | 3 | 15 | 0.23 | 3.1 | | | 2.88 | 30 | 3 | #2 | E87 - CONV. OVEN | 2 |
| 3 | 3#12, #12 G. in (1) 3/4" C. EA | | | | 0.23 | | 1.7 | | 1.44 | | | | 3#10, #10 G. in (1) 3/4" C. EA | 4 |
| 5 | | | | | 0.23 | | | 2.0 | 1.80 | | | | | 6 |
| 7 | EF-2 FLA: 1.9 | #2 | 3 | 15 | 0.23 | 3.1 | | | 2.88 | 30 | 3 | #2 | E87 - CONV. OVEN | 8 |
| 9 | 3#12, #12 G. in (1) 3/4" C. EA | | | | 0.23 | | 1.7 | | 1.44 | | | | 3#10, #10 G. in (1) 3/4" C. EA | 10 |
| 11 | | | | | 0.23 | | | 2.0 | 1.80 | | | | | 12 |
| 13 | EF-3 FLA: 2.5 | #2 | 3 | 15 | 0.30 | 3.2 | | | 2.88 | 30 | 3 | #2 | E85 - CONV. OVEN | 14 |
| 15 | 3#12, #12 G. in (1) 3/4" C. EA | | | | 0.30 | | 1.7 | | 1.44 | | | | 3#10, #10 G. in (1) 3/4" C. EA | 16 |
| 17 | | | | | 0.30 | | | 2.1 | 1.80 | | | | | 18 |
| 19 | E70 - WALK-IN FRZR. COMP. (2 HP) | #1 | 3 | 20 | 1.52 | 6.3 | | | 4.75 | 50 | 3 | #2 | E36 - GRIDDLE | 20 |
| 21 | 3#12, #12 G. in (1) 3/4" C. EA | | | | 1.52 | | 6.3 | | 4.75 | | | | 3#6, #10 G. in (1) 1" C. EA | 22 |
| 23 | | | | | 1.52 | | | 6.3 | 4.75 | | | | | 24 |
| 25 | E65 - WALK-IN CLR. COMP. (2 HP) | #1 | 3 | 20 | 1.14 | 1.1 | | | | 20 | 1 | | SPARE | 26 |
| 27 | 3#12, #12 G. in (1) 3/4" C. EA | | | | 1.14 | | 1.1 | | | 20 | 1 | | SPARE | 28 |
| 29 | | | | | 1.14 | | | 1.1 | | 20 | 1 | | SPARE | 30 |
| 31 | E96 - INSECT CONTROL FAN | | 1 | 20 | 0.90 | 8.9 | | | 8.00 | 90 | 3 | | EWH-1 | 32 |
| 33 | REC - DRIVE THRU AUDIO SYSTEM | | 1 | 20 | 0.50 | | 8.5 | | 8.00 | | | | 3#2, #8 G. in (1) 1-1/4" C. EA | 34 |
| 35 | REC - DRIVE THRU OUTLET | | 1 | 20 | 0.50 | | | 8.5 | 8.00 | | | | | 36 |
| 37 | REC - DRIVE THRU AUDIO SYSTEM | | 1 | 20 | 1.00 | 1.1 | | | 0.10 | 20 | 3 | #3 | ADM - 1204 VOLTAGE READING FOR | 38 |
| 39 | SPARE | | 1 | 20 | | | 0.1 | | 0.10 | | | | KW DATA | 40 |
| 41 | E10 - UNDERCOUNTER COOLER | | 1 | 20 | 0.50 | | | 0.6 | 0.10 | | | | | 42 |
| | | | | | | 26.8 | 21.1 | 22.7 | TOTAL KVA PER PHASE | | | | | |

VOLTAGE 208Y/120V
PHASE 3
WIRE 4
MAINS MLO
RATING 225 (AMPS)
WITH I.G. BAR NO
LOCATION SEE PLAN
MOUNTING SURFACE
FEEDER SEE SHOP DRAWINGS
MIN AIC 62k

PANEL "B"

| ITEMS | CON. | % | DEM. |
|---|---|---|---|
| RECEPTACLES | 2.0 | code | 2.0 |
| KITCHEN | 41.1 | 65% | 26.7 |
| HVAC | 2.3 | 100% | 2.3 |
| LIGHTS (INT.) | 0.0 | 125% | 0.0 |
| LIGHTS (EXT.) | 0.0 | 125% | 0.0 |
| MISC. | 25.2 | 100% | 25.2 |
| TOTAL KVA | 70.5 | | 56.2 |
| TOTAL AMPS | 195.8 | | 156 |

NOTES:
1) HACR TYPE BREAKER
2) RUN THRU BUILDING CONTROL PANEL
3) REQUIRED CIRCUITS FOR CONNECTION TO CPI ENERGY MANAGEMENT SYSTEM.

| CKT. # | DESCRIPTION | NOTE | BREAKER POLE | BREAKER AMP. | LOAD (KVA) | A | B | C | LOAD (KVA) | BREAKER AMP. | BREAKER POLE | NOTE | DESCRIPTION | CKT. # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LTG - KITCHEN/STORAGE | | 1 | 20 | 0.52 | 1.2 | | | 0.72 | 20 | 1 | | REC - INTERIOR MENU BOARDS | 2 |
| 3 | LTG - KITCHEN/OFFICE | | 1 | 20 | 0.62 | | 1.7 | | 1.08 | 20 | 1 | #1,3 | JB - SPK POST/ DT MENU | 4 |
| 5 | LTG - DINING PENDANTS | | 1 | 20 | 0.06 | | | 1.3 | 1.20 | 20 | 1 | #3,5 | LTG - DIRECTIONAL SIGNS | 6 |
| 7 | LTG - DINING DOWNLIGHTS | | 1 | 20 | 0.38 | 1.6 | | | 1.20 | 20 | 1 | #3,5 | LTG - ROAD SIGN | 8 |
| 9 | LTG - DINING DOWNLIGHTS | | 1 | 20 | 0.14 | | 0.6 | | 0.45 | 20 | 2 | #3 | LTG - EXTERIOR SITE | 10 |
| 11 | LTG - DINING (LARGE) PENDANTS | | 1 | 20 | 0.08 | | | 0.5 | 0.45 | | | | 2#8, #10 G. in (1) 3/4" C. EA | 12 |
| 13 | LTG- ORDER AREA | | 1 | 20 | 0.07 | 0.5 | | | 0.45 | 20 | 2 | #3 | LTG - EXTERIOR SITE | 14 |
| 15 | LTG - RR & EF-4 FLA: 4.8 | | 1 | 20 | 0.75 | | 1.2 | | 0.45 | | | | 2#8, #10 G. in (1) 3/4" C. EA | 16 |
| 17 | JB - SIDE BUILDING SIGNAGE | #3,5 | 1 | 20 | 1.20 | | | 1.7 | 0.50 | 20 | 1 | | GREASE TANK | 18 |
| 19 | JB - SIDE BUILDING SIGNAGE | #3,5 | 1 | 20 | 1.20 | 1.2 | | | | | 1 | | SPACE | 20 |
| 21 | JB - FRONT BUILDING SIGNAGE | #3,5 | 1 | 20 | 1.20 | | 2.3 | | 1.10 | 20 | 1 | #6 | E28 - POS SYSTEM | 22 |
| 23 | LTG - AWNING/CANOPY | #3 | 1 | 20 | 1.80 | | | 2.9 | 1.08 | 20 | 1 | | REC - DINING | 24 |
| 25 | LTG - AWNING/CANOPY | #3 | 1 | 20 | 1.80 | 2.3 | | | 0.54 | 20 | 1 | #4 | JB - SECURITY/AUDIO | 26 |
| 27 | JB - ORDER INFO BOARD | #1,3 | 1 | 20 | 0.38 | | 0.9 | | 0.54 | 20 | 1 | | REC - SECURITY CAMERAS | 28 |
| 29 | E92 - TV AND BREAK | | 1 | 20 | 0.38 | | | 0.9 | 0.54 | 20 | 1 | | REC - OFFICE | 30 |
| 31 | REC - IRRIGATION SYSTEM | #1,2 | 1 | 20 | 0.36 | 1.6 | | | 1.26 | 20 | 1 | | REC - [illegible] | 32 |
| 33 | JB- WALK-IN HT TAPE/LIGHTS | | 1 | 20 | 1.32 | | 1.8 | | 0.50 | 20 | 1 | | HVAC CONTROLS (AS NEEDED) | 34 |
| 35 | JB- DOOR BUZZER | | 1 | 20 | 0.30 | | | 0.8 | 0.50 | 20 | 1 | | HOOD CONTROLS (AS NEEDED) | 36 |
| 37 | REC - OUTLETS AT TRASH | #2 | 1 | 20 | 0.36 | 0.4 | | | | 20 | 1 | | SPARE | 38 |
| 39 | REC - DRIVE-THRU | | 1 | 20 | 0.36 | | 0.4 | | | 20 | 1 | | SPARE | 40 |
| 41 | REC - OFFICE | | 1 | 20 | 0.18 | | | 0.2 | | 20 | 1 | | SPARE | 42 |
| | | | | | | 8.9 | 8.9 | 8.3 | TOTAL KVA PER PHASE | | | | | |

VOLTAGE 208Y/120V
PHASE 3
WIRE 4
MAINS MLO
RATING 225 (AMPS)
WITH I.G. BAR YES
LOCATION SEE PLAN
MOUNTING SURFACE
FEEDER SEE SHOP DRAWINGS
MIN AIC 62k

PANEL "C"

| ITEMS | CON. | % | DEM. |
|---|---|---|---|
| RECEPTACLES | 5.4 | code | 5.4 |
| KITCHEN | 0.0 | 65% | 0.0 |
| HVAC | 0.0 | 100% | 0.0 |
| LIGHTS (INT.) | 2.6 | 125% | 3.3 |
| LIGHTS (EXT.) | 11.4 | 125% | 14.2 |
| MISC. | 6.6 | 100% | 6.6 |
| TOTAL KVA | 26.0 | | 29.5 |
| TOTAL AMPS | 72.2 | | 81.9 |

NOTES:
1) PROVIDE LOCKABLE BREAKER PER NEC 422.31(B).
2) GFI BREAKER
3) RUN THRU BUILDING CONTROL PANEL
4) PROVIDE LOCK-ON BREAKER
5) PROVIDE LOCKABLE BREAKER PER NEC 600.6
6) PROVIDE IG CIRCUIT.

| CKT. # | DESCRIPTION | NOTE | BREAKER POLE | BREAKER AMP. | LOAD (KVA) | A | B | C | LOAD (KVA) | BREAKER AMP. | BREAKER POLE | NOTE | DESCRIPTION | CKT. # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | E-50 FRYER BATTERY | #2 | 3 | 60 | 5.76 | 5.8 | | | | | 1 | | SPACE | 2 |
| 3 | 3#4, #10 G. in (1) 1-1/4" C. EA | | | | 5.76 | | 5.8 | | | | 1 | | SPACE | 4 |
| 5 | | | | | 5.76 | | | 5.8 | | | 1 | | SPACE | 6 |
| 7 | E-50 FRYER BATTERY | #2 | 3 | 60 | 5.76 | 5.8 | | | | | 1 | | SPACE | 8 |
| 9 | 3#4, #10 G. in (1) 1-1/4" C. EA | | | | 5.76 | | 5.8 | | | | 1 | | SPACE | 10 |
| 11 | | | | | 5.76 | | | 5.8 | | | 1 | | SPACE | 12 |
| 13 | E-50 FRYER BATTERY | #2 | 3 | 60 | 5.76 | 6.2 | | | 0.41 | 15 | 3 | #1 | SF-1 FLA: 3.4 | 14 |
| 15 | 3#4, #10 G. in (1) 1-1/4" C. EA | | | | 5.76 | | 6.2 | | 0.41 | | | | 3#12, #12 G. in (1) 3/4" C. EA | 16 |
| 17 | | | | | 5.76 | | | 6.2 | 0.41 | | | | | 18 |
| 19 | E45- FRYER BATTERY | #2 | 3 | 60 | 5.76 | 7.2 | | | 1.41 | 20 | 2 | | E74/E75 ICE CUBE MAKER W/REMOTE | 20 |
| 21 | 3#4, #10 G. in (1) 1-1/4" C. EA | | | | 5.76 | | 7.2 | | 1.41 | | | | 2#12, #12 G. in (1) 3/4" C. EA | 22 |
| 23 | | | | | 5.76 | | | 5.8 | | 20 | 1 | | SPARE | 24 |
| 25 | E56 - CONVEYOR BROILER | #2 | 3 | 80 | 7.68 | 7.7 | | | | 20 | 1 | | SPARE | 26 |
| 27 | 3#3, #8 G. in (1) 1-1/4" C. EA | | | | 7.68 | | 7.7 | | | 20 | 1 | | SPARE | 28 |
| 29 | | | | | 7.68 | | | 7.7 | | 20 | 1 | | SPARE | 30 |
| 31 | REC - ROOF | | 1 | 20 | 0.90 | 13.0 | | | 12.12 | 150 | 3 | | SF-1 AUX HEAT 36KW | 32 |
| 33 | JB - HOOD FIRE SYSTEM | | 1 | 20 | 0.50 | | 12.6 | | 12.12 | | | | 3#1/0, #6 G. in (1) 1-1/2" C. EA | 34 |
| 35 | REC - ELECTRONIC SAFE | | 1 | 20 | 0.50 | | | 12.6 | 12.12 | | | | | 36 |
| 37 | SPACE | | 1 | | | 0.0 | | | | | | | | 38 |
| 39 | SPACE | | 1 | | | | 0.0 | | | | | | | 40 |
| 41 | SPACE | | 1 | | | | | 0.0 | | | | | | 42 |
| | | | | | | 45.6 | 45.2 | 43.7 | TOTAL KVA PER PHASE | | | | | |

VOLTAGE 208Y/120V
PHASE 3
WIRE 4
MAINS MLO
RATING 400 (AMPS)
WITH I.G. BAR NO
LOCATION SEE PLAN
MOUNTING SURFACE
FEEDER SEE SHOP DRAWINGS
MIN AIC 62k

PANEL "D"

| ITEMS | CON. | % | DEM. |
|---|---|---|---|
| RECEPTACLES | 1.4 | code | 1.4 |
| KITCHEN | 95.0 | 65% | 61.7 |
| HVAC | 1.2 | 100% | 1.2 |
| LIGHTS (INT.) | 0.0 | 125% | 0.0 |
| LIGHTS (EXT.) | 0.0 | 125% | 0.0 |
| MISC. | 36.9 | 100% | 36.9 |
| TOTAL KVA | 134.5 | | 101.2 |
| TOTAL AMPS | 373.2 | | 281 |

NOTES:
1) HACR TYPE BREAKER
2) RUN THRU BUILDING CONTROL PANEL FOR SHUNT TRIP PROTECTION

| CKT. # | DESCRIPTION | NOTE | BREAKER POLE | BREAKER AMP. | LOAD (KVA) | A | B | C | LOAD (KVA) | BREAKER AMP. | BREAKER POLE | NOTE | DESCRIPTION | CKT. # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPACE | | 1 | | | 19.1 | | | 19.06 | 200 | 3 | | PANEL "B" | 2 |
| 3 | SPACE | | 1 | | | | 25.6 | | 25.61 | | | | INTERNAL BY PANEL MANUFACTURER | 4 |
| 5 | PANEL "C" | | 3 | 200 | 8.86 | | | 26.7 | 17.83 | | | | | 6 |
| 7 | INTERNAL BY PANEL MANUFACTURER | | | | 8.39 | 35.7 | | | 26.80 | 200 | 3 | | PANEL "A" | 8 |
| 9 | | | | | 8.27 | | 29.3 | | 21.08 | | | | INTERNAL BY PANEL MANUFACTURER | 10 |
| 11 | PANEL "D" | | 3 | 400 | 45.55 | | | 68.2 | 22.66 | | | | | 12 |
| 13 | INTERNAL BY PANEL MANUFACTURER | | | | 45.15 | 66.1 | | | 20.94 | 225 | 3 | #1 | RTU-1 FLA: 174.5 MCA: 209 | 14 |
| 15 | | | | | 43.75 | | 64.7 | | 20.94 | | | | 3#4/0, #4 G. in (1) 2-1/2" C. EA | 16 |
| 17 | | | | | | | | 20.9 | 20.94 | | | | | 18 |
| 19 | MCB SPACE | | 3 | 800 | | 7.6 | | | 7.56 | 80 | 3 | #1 | RTU-2 FLA: 63.0 MCA: 77 | 20 |
| 21 | | | | | | | 7.6 | | 7.56 | | | | 3#3, #8 G. in (1) 1-1/4" C. EA | 22 |
| 23 | | | | | | | | 7.6 | 7.56 | | | | | 24 |
| 25 | | | | | | 7.6 | | | 7.56 | 80 | 3 | #1 | RTU-3 FLA: 63.0 MCA: 77 | 26 |
| 27 | | | | | | | 7.6 | | 7.56 | | | | 3#3, #8 G. in (1) 1-1/4" C. EA | 28 |
| 29 | | | | | | | | 7.6 | 7.56 | | | | | 30 |
| | | | | | | 136.0 | 134.8 | 131.0 | TOTAL KVA PER PHASE | | | | | |

VOLTAGE 208Y/120V
PHASE 3
WIRE 4
MAINS 800 MCB
RATING 800 (AMPS)
WITH I.G. BAR NO
LOCATION SEE PLAN
MOUNTING SURFACE
FEEDER SEE SHOP DRAWINGS
MIN AIC 62K

PANEL "MDP"

| ITEMS | CON. | % | DEM. |
|---|---|---|---|
| RECEPTACLES | 12.2 | code | 11.1 |
| KITCHEN | 189.8 | 65% | [illegible] |
| HVAC | 111.7 | 100% | 111.7 |
| LIGHTS (INT.) | 2.6 | 125% | 3.3 |
| LIGHTS (EXT.) | 11.4 | 125% | 14.2 |
| MISC. | [illegible] | 100% | 74.1 |
| TOTAL KVA | 401.7 | | 337.7 |
| TOTAL AMPS | 1115 | | [illegible] |

NOTES:
1) HACR TYPE BREAKER

SPECIAL POWER DISTRIBUTION NOTES

1. PANELBOARDS ARE A PART OF A NATIONAL ACCOUNTS PROGRAM AND SHALL BE PURCHASED BY OWNER THROUGH:
   CAROLINA PRODUCTS, INC.
   1132 PRO AM DR.
   CHARLOTTE, NC 28211
   PH. (704) 364-9029
   FX. (704) 367-1215
2. REFER TO CPI DRAWINGS FOR ADDITIONAL INFO ON INTEGRATED PANEL.
3. INSTALL BLANKS TO FILL UNUSED BRK'R. SPACES. MAX. NO. OF BRKR'S. ALLOWED IN "MDP" PANEL IS SIX.
4. TEST AND ADJUST TO INSURE A BALANCED SYSTEM ACROSS ALL PHASES.
5. SITE LIGHT CIRCUITS AND CONTACTORS ARE DESIGNED TO ACCOMODATE (2) 20A/2P CIRCUITS, AT 208 VOLTS, SINGLE PHASE. SEE SITE PLAN FOR NUMBER AND TYPE OF SITE LIGHTS.
6. VERIFY ROOF TOP HVAC UNIT CAPACITY AND CIRCUIT BREAKER/FEEDER CONDUCTOR REQUIREMENTS. SEE SHEETS C-1 AND M-2.
7. PRIME SIGN W/APPENDAGE LOADS ARE BASED ON MODEL 615 RS ROAD SIGN. IF USING HIGH RISE SIGNS 2 (20 AMP) CIRCUITS ARE REQUIRED.
8. ELECTRICAL CONTRACTOR TO VERIFY C/T & METERING REQUIREMENTS W/ LOCAL UTILITY CO. & PAY ALL COSTS INVOLVED. ALSO VERIFY FEEDER LENGTH.

NOTE:
SEE SHEET E6 FOR "CONDUIT CONDUCTOR SCHEDULE" IF WIRING IS NOT INDICATED.

POWER LOAD SUMMARY (KVA)

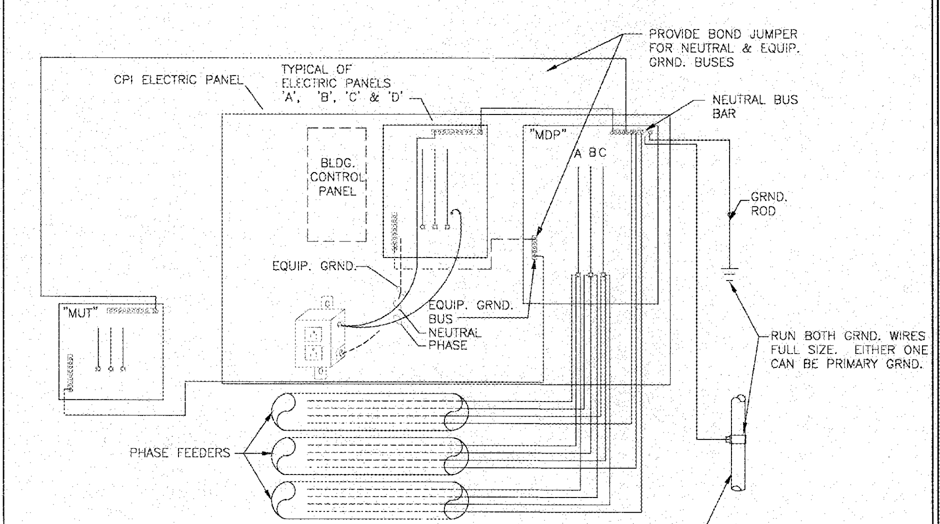
| PANEL | RECEPTACLE LOAD | KITCHEN LOAD | HVAC LOAD | INTERIOR LIGHTING LOAD | EXTERIOR LIGHTING LOAD | MISCELLANEOUS LOADS | TOTAL CONNECTED LOAD |
|---|---|---|---|---|---|---|---|
| PANEL "MDP" | 0.00 | 0.00 | 108.18 | 0.00 | 0.00 | 0.00 | 108.18 |
| PANEL "A" | 3.38 | 53.72 | 0.00 | 0.00 | 0.00 | 5.40 | 62.50 |
| PANEL "B" | 2.00 | 41.08 | 2.27 | 0.00 | 0.00 | 25.20 | 70.54 |
| PANEL "C" | 5.40 | 0.00 | 0.00 | 2.64 | 11.38 | 6.60 | 26.02 |
| PANEL "D" | 1.40 | 94.97 | 1.22 | 0.00 | 0.00 | 36.86 | 134.45 |
| TOTAL CONNECTED LOAD BY EQUIPMENT TYPE | 12.1[illegible] | 189.76 | 111.67 | 2.64 | 11.38 | 74.06 | 401.69 |

| SERVICE CALCULATION PER NEC 220.88 | ALL ELECTRIC |
|---|---|
| TOTAL CONNECTED KVA | 401.69 |
| A: TOTAL CONNECTED KVA OVER 325KVA = | 76.69 KVA |
| B: 50% OF THE AMOUNT OVER 325KVA = | 38.34 KVA |
| DEMAND KVA: | 210.84 KVA |
| TOTAL DEMAND AMPERES: | 585.25 Amps |

| | |
|---|---|
| TOTAL CONNECTED KVA | 401.69 |
| TOTAL CONNECTED AMPS | 1115.01 |

E.C. SHALL VERIFY WITH LAHJ AND LOCAL UTILITY CONSTRUCTION GUIDELINES TO ENSURE FULL COMPLIANCE WITH ELECTRICAL SERVICE REQUIREMENTS E.C. SHALL COORDINATE WITH LAHJ AND LOCAL UTILITY AND SHALL BE ASSURED OF LOCAL APPROVAL OF SERVICE DESIGN PRIOR TO PURCHASE OR INSTALLATION OF ANY SERVICE EQUIPMENT. CONTACT THE ENGINEER IMMEDIATELY WITH ANY PROBLEMS OR CHANGES. ANY COSTS ARISING FROM FAILURE TO FULLY COORDINATE SERVICE INSTALLATION AND COMPLY WITH LAHJ AND LOCAL UTILITY SHALL BE BORNE BY THE E.C.

NOTE: SEE SHEETS CPI-1.0 THRU CPI-2.3 FOR CPI INFORMATION RELATED TO WIRING OF CONTROLS & ENERGY MANAGEMENT.




GROUNDING DETAIL
NTS

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