© 2010 Moody-Nolan, Inc.

## PANEL NAME: LN3

**SUPPLY FROM:** LN1 **MAINS RATING (A):** 70 **FAULT CURRENT (A):** 7142 **PHASE:** Existing
**LOCATION:** ECR 35 **MAINS TYPE:** MAIN LUGS ONLY **SHORT CIRCUIT RATING (A):** EXISTING **SURGE SUPRESSION:**
**DISTRIBUTION SYSTEM:** 208/120V 3PH 4W **FEEDER ID:** X70 **LUGS TYPE:** **ULSE:**
**FEEDER:** EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE **ENCLOSURE TYPE:** NEMA 1 **200% NEUTRAL:**
**ISOLATED GROUND:**

| CKT | CIRCUIT DESCRIPTION | VD% | AWG | GND | TRIP | FRAME | POLE | A | | B | | C | | POLE | FRAME | TRIP | GND | AWG | VD% | CIRCUIT DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | (G) PROMO REELS | 2.671 | #12 | #12 | 20 A | 20 A | 1 | 0.50 | 0.00 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) SPARE | 2 |
| 3 | (G) PROMO REELS | 3.385 | *#10 | *#10 | 20 A | 20 A | 1 | | | 1.00 | 0.00 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) SPARE | 4 |
| 5 | (EX) SPARE | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.00 | 0.00 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 6 |
| 7 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 0.00 | 0.00 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 8 |
| 9 | (EX) SPARE | -- | -- | -- | 20 A | 20 A | 1 | | | 0.00 | 0.00 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) SPARE | 10 |
| 11 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.00 | 0.00 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 12 |
| 13 | (EX) SPARE | -- | -- | -- | 20 A | 20 A | 1 | 0.00 | 0.00 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 14 |
| 15 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 0.00 | 0.00 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) SPARE | 16 |
| 17 | (EX) SPARE | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.00 | 0.00 | 2 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 18 |
| 19 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 0.00 | 0.00 | | | | | | | | | | | | 20 |
| 21 | (G) GE41 PLUGMOLD \| RCPT LIQUOR 29 | 2.079 | #12 | #12 | 20 A | 20 A | 2 | | | 1.00 | 0.00 | | | 2 | 30 A | 30 A | -- | -- | -- | (EX) BREAKER | 22 |
| 23 | | | | | | | | | | | | 1.00 | 0.00 | | | | | | | | 24 |
| 25 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 0.00 | 0.00 | | | | | 2 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 26 |
| 27 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 0.00 | 0.00 | | | | | | | | | | 28 |
| 29 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.00 | 0.00 | 1 | 20 A | 20 A | -- | -- | -- | (EX) SPARE | 30 |

**TOTAL CONNECTED LOAD:** 0.5 kVA 2.0 kVA 1.0 kVA

| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS | |
|---|---|---|---|---|---|
| Continuous | 0 VA | 0.00% | 0 VA | EXISTING CONNECTED LOAD: | |
| Cooling | 0 VA | 0.00% | 0 VA | EXISTING LOAD DEMAND FACTOR: | |
| Elevator | 0 VA | 0.00% | 0 VA | ADDED CONNECTED LOAD: | 3500 VA |
| Heating | 0 VA | 0.00% | 0 VA | DEMAND CALCULATION NOTES: | |
| Kitchen Equipment | 0 VA | 0.00% | 0 VA | | |
| Lighting | 0 VA | 0.00% | 0 VA | TOTAL DEMAND: | 3500.0 VA |
| Motor | 0 VA | 0.00% | 0 VA | TOTAL DEMAND AMPS: | 10 A |
| Non-Continuous | 0 VA | 0.00% | 0 VA | | |
| Receptacle | 3500 VA | 100.00% | 3500 VA | | |

**NOTES:** **BREAKER QUANTITIES (NEW ONLY)**
SIEMENS P1 TYPE PANELBOARD. (2) 20A / 1P(G), (1) 20A / 2P(G)

## PANEL NAME: LN2

**SUPPLY FROM:** LN1 **MAINS RATING (A):** 400 **FAULT CURRENT (A):** 8067 **PHASE:** Existing
**LOCATION:** ECR 35 **MAINS TYPE:** MAIN LUGS ONLY **SHORT CIRCUIT RATING (A):** EXISTING **SURGE SUPRESSION:**
**DISTRIBUTION SYSTEM:** 208/120V 3PH 4W **FEEDER ID:** X400 **LUGS TYPE:** FEED-THROUGH **ULSE:**
**FEEDER:** EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE **ENCLOSURE TYPE:** NEMA 1 **200% NEUTRAL:**
**ISOLATED GROUND:**

| CKT | CIRCUIT DESCRIPTION | VD% | AWG | GND | TRIP | FRAME | POLE | A | | B | | C | | POLE | FRAME | TRIP | GND | AWG | VD% | CIRCUIT DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 0.40 | 1.60 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 44 |
| 45 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 1.60 | 1.60 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 46 |
| 47 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 1.60 | 1.60 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 48 |
| 49 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 1.60 | 1.60 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 50 |
| 51 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 1.60 | 1.60 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 52 |
| 53 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 1.60 | 1.60 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 54 |
| 55 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 1.50 | 1.60 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 56 |
| 57 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 1.60 | 1.60 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 58 |
| 59 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.20 | 1.60 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 60 |
| 61 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 1.60 | 1.60 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 62 |
| 63 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 1.60 | 1.60 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 64 |
| 65 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 2 | | | | | 1.00 | 1.60 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 66 |
| 67 | | | | | | | | 1.00 | 0.20 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 68 |
| 69 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 2 | | | 1.00 | 0.10 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 70 |
| 71 | | | | | | | | | | | | 1.00 | 1.30 | 2 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 72 |
| 73 | | | | | | | | 1.20 | 1.30 | | | | | | | | | | | | 74 |
| 75 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 2 | | | 1.20 | 1.20 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 76 |
| 77 | (EX) BREAKER | -- | -- | -- | 30 A | 30 A | 1 | | | | | 1.80 | 1.20 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 78 |
| 79 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 1.20 | 1.20 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 80 |
| 81 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 0.70 | 1.20 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 82 |
| 83 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 1.20 | 1.20 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 84 |

**TOTAL CONNECTED LOAD:** 17.6 kVA 18.2 kVA 18.5 kVA

| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS | |
|---|---|---|---|---|---|
| Continuous | 0 VA | 0.00% | 0 VA | EXISTING CONNECTED LOAD: | 54300.0 VA |
| Cooling | 0 VA | 0.00% | 0 VA | EXISTING LOAD DEMAND FACTOR: | 100.00% |
| Elevator | 0 VA | 0.00% | 0 VA | ADDED CONNECTED LOAD: | 0 VA |
| Heating | 0 VA | 0.00% | 0 VA | DEMAND CALCULATION NOTES: | ESTIMATED DEMAND 54.3 KVA, ADD 100% EXISTING DEMAND |
| Kitchen Equipment | 0 VA | 0.00% | 0 VA | | |
| Lighting | 0 VA | 0.00% | 0 VA | TOTAL DEMAND: | 54300.0 VA |
| Motor | 0 VA | 0.00% | 0 VA | | |
| Non-Continuous | 0 VA | 0.00% | 0 VA | TOTAL DEMAND AMPS: | 151 A |
| Receptacle | 0 VA | 0.00% | 0 VA | | |

**NOTES:** **BREAKER QUANTITIES (NEW ONLY)**
SIEMENS P1 TYPE PANELBOARD.

## PANEL NAME: LN1

**SUPPLY FROM:** SEP **MAINS RATING (A):** 400 **FAULT CURRENT (A):** 8110 **PHASE:** Existing
**LOCATION:** ECR 35 **MAINS TYPE:** MAIN LUGS ONLY **SHORT CIRCUIT RATING (A):** EXISTING **SURGE SUPRESSION:**
**DISTRIBUTION SYSTEM:** 208/120V 3PH 4W **FEEDER ID:** X400 **LUGS TYPE:** FEED-THROUGH **ULSE:**
**FEEDER:** EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE **ENCLOSURE TYPE:** NEMA 1 **200% NEUTRAL:**
**ISOLATED GROUND:**

| CKT | CIRCUIT DESCRIPTION | VD% | AWG | GND | TRIP | FRAME | POLE | A | | B | | C | | POLE | FRAME | TRIP | GND | AWG | VD% | CIRCUIT DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 0.90 | 1.20 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 2 |
| 3 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 0.90 | 1.20 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 4 |
| 5 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.90 | 1.80 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 6 |
| 7 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 0.90 | 0.90 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 8 |
| 9 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 0.90 | 1.00 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 10 |
| 11 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.90 | 0.70 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 12 |
| 13 | (EX) BREAKER | -- | -- | -- | 25 A | 25 A | 1 | 0.90 | 1.40 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 14 |
| 15 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 1.00 | 0.60 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 16 |
| 17 | (EX) SPACE | -- | -- | -- | -- | -- | 1 | | | | | -- | 0.70 | 1 | 30 A | 30 A | -- | -- | -- | (EX) BREAKER | 18 |
| 19 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 0.60 | 0.70 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 20 |
| 21 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 0.50 | 0.50 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 22 |
| 23 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.20 | 0.60 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 24 |
| 25 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 1.60 | 0.30 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 26 |
| 27 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 1.20 | 1.60 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 28 |
| 29 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.10 | 1.60 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 30 |
| 31 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | 1.60 | 1.20 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 32 |
| 33 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | 1.80 | 1.10 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 34 |
| 35 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 1 | | | | | 0.20 | 1.30 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 36 |
| 37 | | | | | | | | 0.50 | 1.60 | | | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 38 |
| 39 | (EX) LN3 | SL | SL | SL | 70 A | 70 A | 3 | | | 2.00 | 1.60 | | | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 40 |
| 41 | | | | | | | | | | | | 1.00 | 1.60 | 1 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 42 |

**TOTAL CONNECTED LOAD:** 31.9 kVA 34.1 kVA 30.1 kVA

| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS | |
|---|---|---|---|---|---|
| Continuous | 0 VA | 0.00% | 0 VA | EXISTING CONNECTED LOAD: | 92600.0 VA |
| Cooling | 0 VA | 0.00% | 0 VA | EXISTING LOAD DEMAND FACTOR: | 100.00% |
| Elevator | 0 VA | 0.00% | 0 VA | ADDED CONNECTED LOAD: | 3500 VA |
| Heating | 0 VA | 0.00% | 0 VA | DEMAND CALCULATION NOTES: | ESTIMATED DEMAND 96.1 kVA, ADD 100% EXISTING DEMAND |
| Kitchen Equipment | 0 VA | 0.00% | 0 VA | | |
| Lighting | 0 VA | 0.00% | 0 VA | TOTAL DEMAND: | 96100.0 VA |
| Motor | 0 VA | 0.00% | 0 VA | | |
| Non-Continuous | 0 VA | 0.00% | 0 VA | TOTAL DEMAND AMPS: | 267 A |
| Receptacle | 3500 VA | 100.00% | 3500 VA | | |

**NOTES:** **BREAKER QUANTITIES (NEW ONLY)**
SIEMENS P1 TYPE PANELBOARD.

## PANEL NAME: LE

**SUPPLY FROM:** SEP **MAINS RATING (A):** 200 **FAULT CURRENT (A):** 24733 **PHASE:** Existing
**LOCATION:** ELECTRIC ROOM 22 **MAINS TYPE:** MAIN LUGS ONLY **SHORT CIRCUIT RATING (A):** EXISTING **SURGE SUPRESSION:**
**DISTRIBUTION SYSTEM:** 208/120V 3PH 4W **FEEDER ID:** X200 **LUGS TYPE:** **ULSE:**
**FEEDER:** EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE **ENCLOSURE TYPE:** NEMA 1 **200% NEUTRAL:**
**ISOLATED GROUND:**

| CKT | CIRCUIT DESCRIPTION | VD% | AWG | GND | TRIP | FRAME | POLE | A | | B | | C | | POLE | FRAME | TRIP | GND | AWG | VD% | CIRCUIT DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | 1.60 | 1.60 | | | | | | | | | | | | 2 |
| 3 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 3 | | | 1.60 | 1.60 | | | 3 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 4 |
| 5 | | | | | | | | | | | | 1.60 | 1.60 | | | | | | | | 6 |
| 7 | | | | | | | | 1.60 | 1.60 | | | | | | | | | | | | 8 |
| 9 | (EX) BREAKER | -- | -- | -- | 20 A | 20 A | 3 | | | 1.60 | 1.60 | | | 3 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 10 |
| 11 | | | | | | | | | | | | 1.60 | 1.60 | | | | | | | | 12 |
| 13 | | | | | | | | 2.10 | 1.60 | | | | | | | | | | | | 14 |
| 15 | (EX) BREAKER | -- | -- | -- | 25 A | 25 A | 3 | | | 2.10 | 1.60 | | | 3 | 20 A | 20 A | -- | -- | -- | (EX) BREAKER | 16 |
| 17 | | | | | | | | | | | | 2.10 | 1.60 | | | | | | | | 18 |
| 19 | | | | | | | | 2.10 | 1.03 | | | | | 1 | 20 A | 20 A | *#10 | *#10 | 3.991 | M1DSC4HP MEAT CASE \| KITCHEN EQUIPMENT... | 20 |
| 21 | (EX) BREAKER | -- | -- | -- | 25 A | 25 A | 3 | | | 2.10 | 1.03 | | | 1 | 20 A | 20 A | *#10 | *#10 | 3.938 | M1DSC4HP MEAT CASE \| KITCHEN EQUIPMENT... | 22 |
| 23 | | | | | | | | | | | | 2.10 | 1.03 | 1 | 20 A | 20 A | *#10 | *#10 | 4.000 | M1DSC4HP MEAT CASE \| KITCHEN EQUIPMENT... | 24 |
| 25 | (G) TMP-391 ORDER SCREEN \| NON-CONT. ROOM 10 | 4.383 | *#8 | *#8 | 20 A | 20 A | 1 | 1.80 | 1.03 | | | | | 1 | 20 A | 20 A | *#10 | *#10 | 3.92 | M1DSC4HP MEAT CASE \| KITCHEN EQUIPMENT... | 26 |
| 27 | (G) B4MTT SCALE E42-17 LCD MONITOR TMP-392... | 1.404 | #12 | #12 | 20 A | 20 A | 1 | | | 0.16 | 0.80 | | | 2 | 20 A | 20 A | #12 | #12 | 4.509 | (G) D41 PLUGMOLD \| RCPT MURRAY'S CHEESE 12 | 28 |
| 29 | B155-I_LM DONUT DISPLAY CHIMOI-12 CHEESE \|... | 3.599 | #12 | #12 | 20 A | 20 A | 1 | | | | | 0.45 | 0.80 | | | | | | | | 30 |

**TOTAL CONNECTED LOAD:** 16.1 kVA 14.2 kVA 14.5 kVA

| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS | |
|---|---|---|---|---|---|
| Continuous | 0 VA | 0.00% | 0 VA | EXISTING CONNECTED LOAD: | 36600.0 VA |
| Cooling | 0 VA | 0.00% | 0 VA | EXISTING LOAD DEMAND FACTOR: | 100.00% |
| Elevator | 0 VA | 0.00% | 0 VA | ADDED CONNECTED LOAD: | 8129 VA |
| Heating | 0 VA | 0.00% | 0 VA | DEMAND CALCULATION NOTES: | ESTIMATED DEMAND 43.56 kVA, ADD 100% EXISTING DEMAND |
| Kitchen Equipment | 4214 VA | 70.00% | 2950 VA | | |
| Lighting | 360 VA | 125.00% | 450 VA | TOTAL DEMAND: | 43555.1 VA |
| Motor | 0 VA | 0.00% | 0 VA | | |
| Non-Continuous | 1865 VA | 100.00% | 1865 VA | TOTAL DEMAND AMPS: | 121 A |
| Receptacle | 1690 VA | 100.00% | 1690 VA | | |

**NOTES:** **BREAKER QUANTITIES (NEW ONLY)**
SIEMENS P1 TYPE PANELBOARD. EXISTING 10K RATED BREAKERS. (5) 20A / 1P, (2) 20A / 1P(G), (1) 20A / 2P(G)

## PANEL SCHEDULE LEGEND

| | | |
|---|---|---|
| * | = | WIRE SIZED TO COMPENSATE FOR VOLTAGE DROP |
| ** | = | REFER TO DRAWINGS FOR SPECIFICATIONS |
| (#) | = | NEW CIRCUIT TO EXISTING CIRCUIT BREAKER |
| (->) | = | CONNECT BRANCH CIRCUIT, WHICH WAS DISCONNECTED FROM ANOTHER SOURCE AS PART OF SELECTIVE DEMOLITION, TO POLE SPACE(S) INDICATED. DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING COLOR-CODING OF THE BRANCH CIRCUIT CONDUCTOR INSULATION. PROVIDE NEW BREAKER IF REQUIRED. |
| (A) | = | PROVIDE ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER |
| (AG) | = | PROVIDE COMBINATION ARC FAULT (AFCI) / GROUND FAULT (GFCI) CIRCUIT INTERRUPTER CIRCUIT BREAKER |
| (AT) | = | EXISTING FUSIBLE SWITCH/CIRCUIT BREAKER WITH NEW FUSES/TRIP RATING |
| (ERM) | = | PROVIDE ENERGY REDUCTION MAINTENANCE (REDUCED ENERGY) CIRCUIT BREAKER |
| (EX) | = | EXISTING CIRCUIT TO REMAIN |
| (F) | = | CIRCUIT FOR FURTURE USE. PROVIDE BREAKER INDICATED. LOAD SHOWN FOR REFERENCE ONLY. |
| (G) | = | PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER |
| (GE) | = | PROVIDE GROUND-FAULT EQUIPMENT PROTECTION (GFEP) CIRCUIT BREAKER |
| (H) | = | PROVIDE HANDLE TIE |
| (L) | = | PROVIDE LOCK-ON DEVICE |
| (LI) | = | PROVIDE ELECTRONIC LONG AND INSTANTANEOUS ADJUSTABILITY |
| (LSI) | = | PROVIDE ELECTRONIC LONG, SHORT, AND INSTANTANEOUS ADJUSTABILITY |
| (LSIA) | = | PROVIDE ELECTRONIC LONG, SHORT, INSTANTANEOUS, AND GROUND-FAULT ALARM ADJUSTABILITY |
| (LSIG) | = | PROVIDE ELECTRONIC LONG, SHORT, INSTANTANEOUS, AND GROUND-FAULT ADJUSTABILITY |
| (LT) | = | PROVIDE LOCK-OUT/TAG-OUT DEVICE |
| SL | = | SEE THE SINGLE LINE DIAGRAM / SCHEDULE FOR WIRE SIZE AND VOLTAGE DROP |
| (ST) | = | PROVIDE SHUNT TRIP CIRCUIT BREAKER |

## PANEL SCHEDULE GENERAL NOTES

A. PROVIDE HACR RATED BREAKERS ON ALL MOTOR LOADS.
B. ALL CONDUCTORS SHOWN ARE COPPER
C. ALL VOLTAGE DROP CALCULATIONS AND COMPENSATED WIRE SIZES ARE BASED ON RIGHT ANGLE CIRCUIT LENGTHS. ACTUAL VOLTAGE DROP MAY VARY BASED ON INSTALLED WIRE LENGTH.
D. VOLTAGE DROP CALCULATIONS AND WIRE SIZES SHOWN IN THE PANEL SCHEDULES ARE FOR HOMERUN CONDUCTORS ONLY. FOR CIRCUITS WITH MORE THAN 1 DEVICE, THESE SIZES ASSUME THE CONDUCTORS DOWNSTREAM OF THE HOMERUN DEVICE ARE THE MINIMUM SIZE REQUIRED BY THE NEC BASED ON THE RATING OF THE CIRCUIT. WHERE THIS IS NOT THE CASE, IT HAS BEEN INDICATED ON THE DRAWINGS. VOLTAGE DROP TO THE FARTHEST DEVICE HAS BEEN CALCULATED TO NEVER EXCEED 5%.
E. RECEPTACLE LOADS CALCULATED AT 100% OF FIRST 10kVA, 50% OF REMAINDER. MOTOR LOADS CALCULATED AT 125% OF THE LARGEST MOTOR, 100% OF ALL OTHER MOTORS.

**PANEL KEY**

| | | |
|---|---|---|
| -- | -- | -- |
| -- | -- | LN3 |
| LN2 | LN1 | LE |

2" REFERENCE LINE

OWNERSHIP OF INSTRUMENTS OF SERVICE
All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright thereto.

KLH ENGINEERS
KOHRS LONNEMANN HEIL ENGINEERS, INC.
MECHANICAL/ELECTRICAL ENGINEERS
WWW.KLHENGRS.COM
1538 ALEXANDRIA PIKE, SUITE 11
FT. THOMAS, KENTUCKY 41075
800-354-9783
859-442-8050
859-442-8058 FAX
LEXINGTON, KENTUCKY
LOUISVILLE, KENTUCKY
COLUMBUS, OHIO

**OWNERSHIP OF INSTRUMENTS OF SERVICE**
*All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright thereto.*

| # | Date | Change Description |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

KROGER N641
2028 E HARBOR RD
PORT CLINTON, OH 43452
for
THE KROGER COMPANY

MOODY•NOLAN
300 Spruce Street Phone: (614) 461-4664
Suite 300 Fax: (614) 280-8881
Columbus, Ohio 43215 www.moodynolan.com

Dwg. Coord.: CJC Tech. Coord.: JAT Proj #: 25835.00

**PANEL SCHEDULES** **E6.3**

BID/PERMIT 12/13/2023