

| ELECTRIC LOAD SUMMARY (TRANSFORMER)   |                      |        |                      |        |   |
|---|----------------------|--------|----------------------|--------|---|
| DESCRIPTION   | N.E.C. CONNECTED KVA |        | N.E.C. DEMAND FACTOR |        | N.E.C. DEMAND KVA                       |
|   | 31,999               | [1]    | 1.25                 | 1.25   | 39,949                                  |
| LIGHTING (CONTINUOUS)   | -                    | [2]    | -                    | -      | 39,800                                  |
| TRACK LIGHT DEMAND ALLOWANCE  | -                    | [2]    | -                    | -      | 39,800                                  |
| SHOW WINDOW DEMAND ALLOWANCE  | -                    | [3]    | -                    | -      | 0.350                                   |
| KIT APPLIANCE   | 2,000                | [4]    | 1.00                 | 2.000  |   |
| RECEPTACLES   | 10,540               | [5]    | -                    | -      | 10,270                                  |
| MOTORS  | 0.000                | [6]    | -                    | -      | 0.000                                   |
| FIXED ELECTRIC SPACE HEATING  | 0.000                | [7]    | -                    | -      | 0.000                                   |
| AIR CONDITIONING SYSTEM   | 0.000                | [8][7] | -                    | -      | 0.000                                   |
| ELECTRIC WATER HEATER   | 12,500               | -      | 1.0                  | 3,000  |   |
| MISCELLANEOUS   | 59,549               | -      | 1.0                  | 12,950 |   |
| N.E.C. DEM. KVA X 1000<br>SYS. VOLTAGE X 1.732<br>107.219 X 1000<br>208 X 1.732 |                      |        |                      |        | = MINIMUM FEEDER AMPERAGE<br>297.6 AMPS |

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| RECEPTACLES   | 10,540               | [5]    | -                    | -      | 10,270                                  |
| MOTORS  | 0.000                | [6]    | -                    | -      | 0.000                                   |
| FIXED ELECTRIC SPACE HEATING  | 0.000                | [7]    | -                    | -      | 0.000                                   |
| AIR CONDITIONING SYSTEM   | 38,742               | [8][7] | -                    | -      | 40,737                                  |
| ELECTRIC WATER HEATER   | 3,000                | -      | 1.0                  | 3,000  |   |
| MISCELLANEOUS   | 19,350               | -      | 1.0                  | 19,350 |   |
| TOTAL<br>105,591  |                      |        |                      |        | TOTAL<br>155,256                        |
| N.E.C. DEM. KVA X 1000<br>SYS. VOLTAGE X 1.732<br>155.256 X 1000<br>480 X 1.732 |                      |        |                      |        | = MINIMUM FEEDER AMPERAGE<br>186.7 AMPS |

LOAD SUMMARY NOTES:  
 [1] POWER FACTOR IS ALREADY INCLUDED IN LIGHTING LOAD.  
 [2] 150VA/2FT OF LINE VOLTAGE TRACK + SUM TOTAL VOLTAGE XFMRs - CONNECTED LOAD  
 [3] 200VA/1FT - ACTUAL CONNECTED LOAD  
 [4] KIT APPLIANCE DEMAND FACTOR PER NEC 220-56  
 [5] 0.0 + 10KW = 100%, REMAINING - 50%  
 [6] 125% OF THE LARGEST MOTOR OR COMPRESSOR IN SYSTEM APPLIED ON ONE UNIT.  
 [7] USE GREATER VALUE OF THESE TWO CATEGORIES

| Panel Wiring Schedule (3-Phase)                                   |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
|---|----------------------------|-------------------------|-----------|-----------------------------|--|----------------------------|--|------------|-----------------------------|------------------|------|----------|
| Panelboard<br>NEMA Type   |                            | "MD"<br>WESCO<br>1      |           | Voltage<br>OCPO<br>Mounting | 480Y/277<br>200A M.C.B.<br>SURFACE                 |                            | Phase<br>Wire<br>Buss                              | 3<br>400A  | Options/Notes<br>AIC Rating |                  |      |          |
|   |                            |                         |           |                             |  |                            |  |            | 65,000                      |                  |      |          |
| Ckt. No.  | Zone                       | Load Description        | Bkr. Size | Bkr. Opts.                  | N.E.C. KVA   | Phase                      | N.E.C. KVA   | Bkr. Opts. | Bkr. Size                   | Load Description | Zone | Ckt. No. |
| 1   |                            | WSPH-1                  | 35/3      | HACR                        | 6.457<br>6.457<br>6.457<br>0.000<br>0.000<br>0.000 | A<br>B<br>C<br>A<br>B<br>C | 6.457<br>6.457<br>6.457<br>2.000<br>2.000<br>3.300 |            |                             |                  |      |          |
| 3   |                            | SPACE                   |           |                             |  |                            |  |            |                             |                  |      |          |
| 5   |                            | 112 1/2 KVA TRANSFORMER | 175/3     |                             | 19.840<br>20.436<br>19.273                         | A<br>B<br>C                | 0.000<br>0.000<br>0.000                            |            |                             |                  |      |          |
| <b>Notes</b>  |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted. |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| All Phases to be balanced to within 10% using Actual Load Totals. |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| N.E.C. Connected Totals: Ph.A 34.754 kVA                          |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| N.E.C. Connected Totals: Ph.B 35.350 kVA                          |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| N.E.C. Connected Totals: Ph.C 35.487 kVA                          |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| Total 105.591 kVA   |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| Connected Load: 127.0 amps  |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| NEC Demand Feed Load: 166.7 amps                                  |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| E   | Existing Circuit to remain |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| IG  | Isolated Ground Circuit    |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| <b>Breaker Options:</b>   |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| AS Powerlock AS Breaker   |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| LO Handle lock-on device  |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| ST Shunt Trip Type  |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| AUX Auxiliary Contacts  |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| PA Handle Padlock Attachment                                      |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| GFCI Ground Fault Circuit Interrupter                             |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| HACR Heating, A/C & Refrigeration                                 |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| Subfeed   |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |
| AFCI Arc Fault Circuit Interrupter                                |                            |                         |           |                             |  |                            |  |            |                             |                  |      |          |

Notes:  
 \* All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.  
 \*\* All Phases to be balanced to within 10% using Actual Load Totals.  
 N.E.C. Connected Totals: Ph.A 34,754 KVA  
 N.E.C. Connected Totals: Ph.B 35,350 KVA  
 N.E.C. Connected Totals: Ph.C 35,487 KVA  
 Total 105,591 KVA  
 Connected Load: 127.0 amps  
 NEC Demand Feeder Load: 186.7 amps  
 Breaker Options:  
 AS Powerlink AS Breaker  
 LO Handle lock-on device  
 ST Shunt Trip Type  
 PA Handle Padlock Attachment  
 GFCI Ground Fault Circuit Interrupter  
 HACR Heating, A/C & Refrigeration  
 SF Subfeed  
 AFCI Arc Fault Circuit Interrupter

| Panel Wiring Schedule (3-Phase)       |                   |                           |                             |                                    |               |                               |                             |            |                |                               |      |          |
|---------------------------------------|-------------------|---------------------------|-----------------------------|------------------------------------|---------------|-------------------------------|-----------------------------|------------|----------------|-------------------------------|------|----------|
| Panelboard<br>Panel Type<br>NEMA Type | "A"<br>WESCO<br>1 |                           | Voltage<br>OCPO<br>Mounting | 208Y/120<br>200A M.C.B.<br>SURFACE |               | Phase<br>Wire<br>Buss<br>225A | Options/Notes<br>AIC Rating |            | 65,000         |                               |      |          |
| Ckt. No.                              | Zone              | Load Description          | Bkr. Size<br>*              | Bkr. Opts.                         | N.E.C.<br>kVA | Phase                         | N.E.C.<br>kVA               | Bkr. Opts. | Bkr. Size<br>* | Load Description              | Zone | Ckt. No. |
| 1                                     | A                 | STOREFRONT SIGN           |                             |                                    | 1.200         | A                             | 0.118                       | LO         |                | FITTING RM NUJEMEX            |      | 2        |
| 3                                     | A                 | STOREFRONT SIGN           |                             |                                    | 1.200         | B                             | 0.960                       | LO         |                | SALES TRK - NUJEMEX (8A C.L.) |      | 4        |
| 5                                     | A                 | SHOW WIN. LTG. (10A C.L.) |                             |                                    | 1.200         | C                             | 0.385                       | LO         |                | SALES AREA NUJEMEX            |      | 6        |
| 7                                     | A                 | SHOW WINDOW REC.          |                             |                                    | 1.080         | A                             | 0.960                       | LO         |                | SALES TRK - NUJEMEX (8A C.L.) |      | 8        |
| 9                                     | A                 | SPARE                     |                             |                                    | 0.000         | B                             | 0.960                       | LO         |                | SALES TRK - NUJEMEX (8A C.L.) |      | 10       |
| 11                                    | A                 | SPARE                     |                             |                                    | 0.000         | C                             | 0.000                       |            |                | SPARE                         |      | 12       |
| 13                                    | B                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | A                             | 0.616                       |            |                | FTG. ROOM LTG.                | C    | 14       |
| 15                                    | C                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | B                             | 0.176                       |            |                | FTG. ROOM LTG.                | B    | 16       |
| 17                                    | B                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | C                             | 0.600                       |            |                | BACKWRAP SIGN                 | C    | 18       |
| 19                                    | C                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | A                             | 0.186                       |            |                | BACKWRAP LTG.                 | C    | 20       |
| 21                                    | B                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | B                             | 1.350                       |            |                | CABINET LTG.                  | C    | 22       |
| 23                                    | C                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | C                             | 1.035                       |            |                | DENIM RM. LTG.                | B    | 24       |
| 25                                    | B                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | A                             | 1.080                       |            |                | DENIM RM. LTG.                | B    | 26       |
| 27                                    | C                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | B                             | 1.080                       |            |                | DENIM RM. LTG.                | C    | 28       |
| 29                                    | B                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | C                             | 1.080                       |            |                | DENIM RM. LTG.                | C    | 30       |
| 31                                    | C                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | A                             | 0.600                       |            |                | DENIM SIGN                    | C    | 32       |
| 33                                    | B                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | B                             | 0.600                       |            |                | MENS RM SIGN                  | C    | 34       |
| 35                                    | C                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | C                             | 0.600                       |            |                | MENS RM SIGN                  | C    | 36       |
| 37                                    | B                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | A                             | 0.000                       |            |                | SPARE                         |      | 38       |
| 39                                    | C                 | SALES TRK. (8A C.L.)      |                             |                                    | 0.960         | B                             | 0.000                       |            |                | SPARE                         |      | 40       |
| 41                                    | SPARE             |                           |                             |                                    | 0.000         | C                             | 1.453                       | LO         |                | NS LTG. EMEXNL LTG.           |      | 42       |

|   |                         |                         |                                  |
|---|-------------------------|-------------------------|----------------------------------|
| <b>Notes</b>  |                         | <b>Breaker Options:</b> |                                  |
| * All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted. |                         | AS                      | Powermatic AS Breaker            |
| * All Phases to be balanced to within 10% using Actual Load Totals. |                         | LO                      | Handle lock on device            |
| N.E.C. Connected Totals: Ph A                                       |                         | ST                      | Shunt Trip Type                  |
| N.E.C. Connected Totals: Ph B                                       |                         | AUX                     | Auxiliary Contacts               |
| N.E.C. Connected Totals: Ph C                                       |                         | PA                      | Handle Padlock Attachment        |
| Total   |                         | GFCI                    | Ground Fault Circuit Interrupter |
| 103.993 kVA   |                         | HACR                    | Handing, A/C & Refrigeration     |
| E Existing Circuit to remain  | Connected Load:         | SF                      | Subfeed                          |
| IG Isolated Ground Circuit  | NEC Demand Feeder Load: | AFCI                    | Arc Fault Circuit Interrupter    |
|   | 88.7 amps               |                         |                                  |
|   | 110.9 amps              |                         |                                  |

Notes:  
 \* All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.  
 \*\* All Phases to be balanced to within 10% using Actual Load Totals.  
 N.E.C. Connected Totals: Ph.A 10.840 KVA  
 N.E.C. Connected Totals: Ph.B 11.126 KVA  
 N.E.C. Connected Totals: Ph.C 10.193 KVA  
 Total 31.959 KVA  
 Connected Load: 88.7 amps  
 NEC Demand Feeder Load: 110.9 amps  
 Breaker Options:  
 AS Powerlink AS Breaker  
 LO Handle lock-on device  
 ST Shunt Trip Type  
 AUX Auxiliary Contacts  
 PA Handle Padlock Attachment  
 GFCI Ground Fault Circuit Interrupter  
 HACR Heating, A/C & Refrigeration  
 SF Subfeed  
 AFCI Arc Fault Circuit Interrupter

LIGHTING CONTROL LEGEND:  
 A - SHOW WINDOW LIGHTS, RECEPTACLES, EXTERIOR SIGNAGE  
 B - STOCKING LEVEL, SALES AREA LIGHTING, GENERAL SALES FLOOR RECEPTACLES, STOCKING FITTING ROOM LIGHTING  
 C - SALES LEVEL, SALES AREA LIGHTING, INTERIOR DISPLAY LIGHTING, DISPLAY CABINET LIGHTING, RECEPTACLES, SALES LEVEL, FITTING ROOM LIGHTING

| Panel Wiring Schedule (3-Phase)       |                   |                      |                             |                                    |            |                               |             |            |                             |                  |        |          |
|---------------------------------------|-------------------|----------------------|-----------------------------|------------------------------------|------------|-------------------------------|-------------|------------|-----------------------------|------------------|--------|----------|
| Panelboard<br>Panel Type<br>NEMA Type | "B"<br>WESCO<br>1 |                      | Voltage<br>OCPO<br>Mounting | 208V/120<br>200A M.C.B.<br>SURFACE |            | Phase<br>Wire<br>Buss<br>225A | 3<br>4<br>5 |            | Options/Notes<br>AIC Rating |                  | 65,000 |          |
| Ckt. No.                              | Zone              | Load Description     | Bkr. Size                   | Bkr. Opts.                         | N.E.C. kVA | Phase                         | N.E.C. kVA  | Bkr. Opts. | Bkr. Size                   | Load Description | Zone   | Ckt. No. |
| 1                                     |                   | L.V. RACK (IFS)      |                             | LO                                 | 0.360      | A                             | 1.440       |            |                             | UTILITY REC.     |        | 2        |
| 3                                     |                   | TEMP/LTG CTRLS (IFS) |                             |                                    | 0.360      | B                             | 0.550       |            |                             | CASH REGISTERS   |        | 4        |
| 5                                     |                   | TELEPHONE BOARD      |                             |                                    | 0.180      | C                             | 0.550       |            |                             | CASH REGISTERS   |        | 6        |
| 7                                     |                   | SOUND SYSTEM         |                             |                                    | 0.360      | A                             | 0.720       |            |                             | BACKWRAP REC.    |        | 8        |
| 9                                     |                   | WATER HEATER         | 20/2                        |                                    | 1.500      | B                             | 0.000       |            |                             | SPARE            |        | 10       |
| 11                                    |                   |                      |                             |                                    | 1.500      | C                             | 0.360       |            |                             | SALES REC.       |        | 12       |
| 13                                    |                   |                      |                             |                                    | 3.000      | A                             | 0.720       |            |                             | SALES REC.       |        | 14       |
| 15                                    |                   | DREAMSTEAMER         | 30/3                        |                                    | 3.000      | B                             | 0.900       |            |                             | SALES/FTG. REC.  |        | 16       |
| 17                                    |                   |                      |                             |                                    | 3.000      | C                             | 0.500       | LO         |                             | FACTP            |        | 18       |
| 19                                    |                   | WATER COOLER         |                             |                                    | 0.500      | A                             | 0.500       | LO         |                             | BURGULAR ALARM   |        | 20       |
| 21                                    |                   | MICROWAVE            |                             |                                    | 1.200      | B                             | 0.000       |            |                             | SPARE            |        | 22       |
| 23                                    |                   | REFRIGERATOR         |                             |                                    | 0.800      | C                             | 0.720       |            |                             | SALES REC.       |        | 24       |
| 25                                    |                   | TELEVISION           |                             |                                    | 0.600      | A                             | 0.000       |            |                             | SPARE            |        | 26       |
| 27                                    |                   | WALKIE TALKIE REC.   |                             |                                    | 0.720      | B                             | 0.000       |            |                             | SPARE            |        | 28       |
| 29                                    |                   | BUZZER SYSTEM        |                             |                                    | 0.250      | C                             | 0.000       |            |                             | SPARE            |        | 30       |
| 31                                    |                   | SECURITY SYSTEM      |                             |                                    | 0.600      | A                             | 0.000       |            |                             | SPARE            |        | 32       |
| 33                                    |                   | MANAGER REC.         |                             |                                    | 0.540      | B                             | 0.000       |            |                             | SPARE            |        | 34       |
| 35                                    |                   | MANAGER COMPUTER     |                             |                                    | 0.500      | C                             | 0.000       |            |                             | SPARE            |        | 36       |
| 37                                    |                   | CHECKPOINT           |                             |                                    | 0.400      | A                             | 0.000       |            |                             | SPARE            |        | 38       |
| 39                                    |                   | NON-SALES REC.       |                             |                                    | 0.540      | B                             | 0.000       |            |                             | SPARE            |        | 40       |
| 41                                    |                   | NON-SALES REC.       |                             |                                    | 0.720      | C                             | 0.000       |            |                             | SPARE            |        | 42       |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Notes  |  |  |  |  |  |  |  |  |  |  |  |  |
| ** All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted. |  |  |  |  |  |  |  |  |  |  |  |  |
| ** All Phases to be balanced to within 10% using Actual Load Totals. |  |  |  |  |  |  |  |  |  |  |  |  |
| N.E.C. Connected Totals: Ph.A 9.200 kVA                              |  |  |  |  |  |  |  |  |  |  |  |  |
| N.E.C. Connected Totals: Ph.B 9.310 kVA                              |  |  |  |  |  |  |  |  |  |  |  |  |
| N.E.C. Connected Totals: Ph.C 9.080 kVA                              |  |  |  |  |  |  |  |  |  |  |  |  |
| Total 27.590 kVA   |  |  |  |  |  |  |  |  |  |  |  |  |
| Connected Load: 76.8 amps  |  |  |  |  |  |  |  |  |  |  |  |  |
| NEC Demand Feeder Load: 76.8 amps                                    |  |  |  |  |  |  |  |  |  |  |  |  |
| E Existing Circuit to remain   |  |  |  |  |  |  |  |  |  |  |  |  |
| IG Isolated Ground Circuit   |  |  |  |  |  |  |  |  |  |  |  |  |

|                                      |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Breaker Options:                     |  |  |  |  |  |  |  |  |  |  |  |  |
| AS Powerlink AS Breaker              |  |  |  |  |  |  |  |  |  |  |  |  |
| LO Handle lock-on device             |  |  |  |  |  |  |  |  |  |  |  |  |
| ST Shunt Trip Type                   |  |  |  |  |  |  |  |  |  |  |  |  |
| AUX Auxiliary Contacts               |  |  |  |  |  |  |  |  |  |  |  |  |
| PA Handle Padlock Attachment         |  |  |  |  |  |  |  |  |  |  |  |  |
| GFI Ground Fault Circuit Interrupter |  |  |  |  |  |  |  |  |  |  |  |  |
| HACR Heating, A/C & Refrigeration    |  |  |  |  |  |  |  |  |  |  |  |  |
| SF Subfeed                           |  |  |  |  |  |  |  |  |  |  |  |  |
| AFC Arc Fault Circuit Interrupter    |  |  |  |  |  |  |  |  |  |  |  |  |

Notes:  
 \* All circuit breakers to be 20-Amp, 1-Pole unless otherwise noted.  
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 N.E.C. Connected Totals: Ph.A 9.200 KVA  
 N.E.C. Connected Totals: Ph.B 9.310 KVA  
 N.E.C. Connected Totals: Ph.C 9.080 KVA  
 Total 27.590 KVA  
 Connected Load: 76.6 amps  
 NEC Demand Feeder Load: 75.8 amps  
 Breaker Options:  
 AS Powerlink AS Breaker  
 LO Handle lock-on device  
 ST Shunt Trip Type  
 AUX Auxiliary Contacts  
 PA Handle Padlock Attachment  
 GFCI Ground Fault Circuit Interrupter  
 HACR Heating, A/C & Refrigeration  
 SF Subfeed  
 AFCI Arc Fault Circuit Interrupter

| ELECTRICAL EQUIPMENT DATA |               |               |     |     |        |                  |      |                     |                |             |             |                     |
|---------------------------|---------------|---------------|-----|-----|--------|------------------|------|---------------------|----------------|-------------|-------------|---------------------|
| SYM                       | ITEM          | VOLTAGE       | HP  | KW  | M.C.A. | FEEDERS          |      | TYPE OF CONN        | BRANCH BREAKER | DISC SWITCH | BUSES/FUSES | REMARKS             |
|                           |               |               |     |     |        | WIRE             | COND |                     |                |             |             |                     |
| ①                         | WATER HEATER  | 208V, 1PH     | --- | 3.0 | ---    | 2#12 THHN 1#12 G | 1/2" | 'AC' TOGGLE SWITCH  | 20A-2P         | ---         | ---         | SEE NOTE NO.1 BELOW |
| ②                         | DREAM STEAMER | 208V, 3PH     | --- | 9.0 | ---    | 3#10 THHN 1#10 G | 3/4" | THRU RECEPTACLE     | 30A-3P         | ---         | ---         | ---                 |
| ③                         | WSPH-1 # 2    | 480V, 3PH     | --- | --- | 25.7   | 3#8 THHN 1#10 G  | 3/4" | THRU UNIT DISC. SW. | 35A-3P         | ---         | ---         | SEE NOTE NO.3 BELOW |
| ④                         | VAV-1         | 277/480V, 3PH | --- | 6.0 | ---    | 4#12 THHN 1#12 G | 3/4" | THRU UNIT DISC. SW. | 20A-3P         | ---         | ---         | SEE NOTE NO.2 BELOW |

NOTE:

- 'AC' TOGGLE SWITCH TO BE FURNISHED BY ESMC AND INSTALLED BY ELECTRICAL CONTRACTOR.
- DISCONNECT TO BE FACTORY INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
- DISCONNECT SWITCH TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

NOTE:  
 1. 'AC' TOGGLE SWITCH TO BE FURNISHED BY ESD&C AND INSTALLED BY ELECTRICAL CONTRACTOR.  
 2. DISCONNECT TO BE FACTORY INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.  
 3. DISCONNECT SWITCH TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

#### ELECTRICAL POWER GENERAL NOTES:

- HVAC CIRCUIT BREAKERS SHALL BE "HACR" TYPE WHEN REQUIRED BY EQUIPMENT NAMEPLATE PER N.E.C.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT KVA, I.C. RATING (BUILDING SERVICE AVAILABLE FAULT CURRENT) OF LINE/CIRCUIT DISTRIBUTION EQUIPMENT PRIOR TO BID AND WORK COMMENCEMENT. IF FOUND TO BE HIGHER THAN PANEL RATING, NOTIFY YOUR ESD&C PROJECT MANAGER IMMEDIATELY.
- ELECTRICAL CONTRACTOR SHALL BALANCE ALL PANELS AND ELECTRICAL EQUIPMENT TO 7% (+/-) BETWEEN PHASES: A/B, B/C, A/C, REGARDLESS OF CIRCUITING INDICATED.
- PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER N.E.C. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN ELECTRICAL ROOM/AREA PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.
- ALL PANEL BRANCH CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.
- ALL PANEL BUS BARS SHALL BE COPPER.
- MOUNT A TYPEWRITTEN DIRECTORY BEHIND GLASS OR PLASTIC ON THE INSIDE OF EACH PANEL DOOR AND, ON THE DIRECTORY, SHOW THE CIRCUIT NUMBER AND COMPLETE DESCRIPTION OF ALL OUTLETS ON EACH CIRCUIT.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE AND OPERABLE ELECTRICAL DISTRIBUTION SYSTEM.
- ALL PANELBOARDS, SWITCHBOARDS AND LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL MAKE SURE ENTIRE INSTALLATION CONFORMS TO N.E.C. 110.3 - EXAMINATION, IDENTIFICATION, INSTALLATION, AND USE OF EQUIPMENT.
- SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, AND CONTACTORS ARE TO BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.
- IFB ENCLOSURE LIGHTING CONTROLS: SOLENOID OPERATED BADR BREAKERS ARE PROVIDED WITH IFB PANELS FOR STORE LIGHTING CONTROLS AND STOREFRONT SIGNS. SEE PANEL SCHEDULES FOR LIGHTING ZONE DESIGNATIONS (ie: ZONE A, B, C).
- IFB ENCLOSURE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR IS HEREIN DESCRIBED:

- UNIT WILL BE SHIPPED TO PROJECT IN MULTIPLE SECTIONS AND THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR OFF-LOADING OF EQUIPMENT, INSPECTION OF EQUIPMENT FOR DAMAGE, VERIFICATION OF EQUIPMENT RECEIVED FOR PROPER STORAGE, SETTING AND MOVING OF EQUIPMENT INTO SPACE AS WELL AS REASSEMBLING OF SECTIONS INTO ONE COMPLETE UNIT PER MANUFACTURER'S DOCUMENTATION.
- ELECTRICAL CONTRACTOR SHALL CONNECT ALL PROVIDED INTERCONNECTING CABLES BETWEEN SECTIONS AND TORQUE CONNECTIONS PER MANUFACTURER'S REQUIREMENTS.
- ALL CONNECTIONS WITHIN THE TELEPHONE/DATA SECTION AND HVAC CONTROL SECTION OF THE IFB ENCLOSURE WILL BE DONE BY OTHERS. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION OF LOW VOLTAGE CONDUIT SYSTEM (IF REQUIRED BY CODE OR LANDLORD) INTO THESE SECTIONS ONLY.
- SWITCHBOARD WILL BE SHIPPED ON AN ENCLOSED SEMI-TRAILER. ELECTRICAL CONTRACTOR MUST ARRANGE FOR A FORKLIFT TO OFF-LOAD AT JOB SITE. ELECTRICAL CONTRACTOR WILL RECEIVE 24 HOUR NOTICE PRIOR TO DELIVERY.

- ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS TO FURNISH AND INSTALL ALL LOW VOLTAGE WIRING IN CONDUIT, AS PART OF BASE BID.
- DEMARC DEMOLITION NOTES:  
 1. THE G.C. SHALL NOT CUT THE MAIN TELEPHONE WIRES LEADING TO THE TERMINATION STRIP (DEMARC BLOCK) OR PHONE SYSTEM.  
 2. IF THE DEMARC IS TO BE RELOCATED, IT SHALL BE COORDINATED WITH EXPRESS TECHNICAL SERVICES (ETS). THE PRIMARY CONTACT IS BRENDEN SPIVEY AT 614-415-4077, AND THE SECONDARY CONTACT IS ZELDA WARD AT 614-415-2560.  
 3. THE G.C. SHALL ALLOW ADEQUATE TIME FOR RELOCATION IN THE CONSTRUCTION SCHEDULE.  
 4. IF THE WALL WITH THE TELEPHONE BLOCK IS SCHEDULED FOR DEMOLITION, THE ENTIRE BACKING PANEL SHALL BE REMOVED FROM THE WALL (WITHOUT DISCONNECTING THE WIRING) AND IT SHALL BE SAFELY SECURED IN THE CEILING UNTIL IT CAN BE RELOCATED TO THE NEW AREA OR REINSTALLED ON WALL.

- SERIES RATED NOTES:
- MAIN CIRCUIT BREAKER IN "PANEL IFB" SHALL BE FULLY RATED TO PROVIDE AN INTERRUPTING RATING OF 65,000 AMPS RMS.
  - MAIN CIRCUIT BREAKER SHALL BE "SERIES" RATED WITH ALL OTHER FEEDER BREAKERS IN "PANEL IFB" TO PROVIDE AN INTERRUPTING RATING OF 65,000 AMPS RMS.
  - PANELBOARDS OR OTHER EQUIPMENT THAT IS PROTECTED BY "SERIES" RATED OVERCURRENT PROTECTED DEVICES UPSTREAM SHALL BE MARKED WITH A PERMANENT LABEL THAT INDICATES THE SHORT-CIRCUIT RATING OF THE SERIES COMBINATION AND CALLS OUT THE SPECIFIC REPLACEMENT OVERCURRENT DEVICE(S) THAT CAN BE UTILIZED.

#### LANDLORD NOTES:

- COORDINATE WITH LANDLORD CONTRACTOR FOR FINAL CONNECTIONS AT ELECTRICAL DISTRIBUTION PANEL.
- FIRE ALARM SYSTEM TENANT DEVICES (INCLUDING BUT NOT LIMITED TO - DUCT DETECTOR, AV DEVICES, SPRINKLER TAMPER AND FLOW, ETC.,) ARE TO BE PART OF THE MALL FIRE ALARM SYSTEM.
- FIRE ALARM CONNECTION POINTS ARE PROVIDED IN THE SERVICE CORRIDOR NEAR THE REAR OF THE TENANT SPACE. COORDINATE WITH THE MALL DESIGNATED FIRE ALARM CONTRACTOR FOR FINAL CONNECTIONS.

