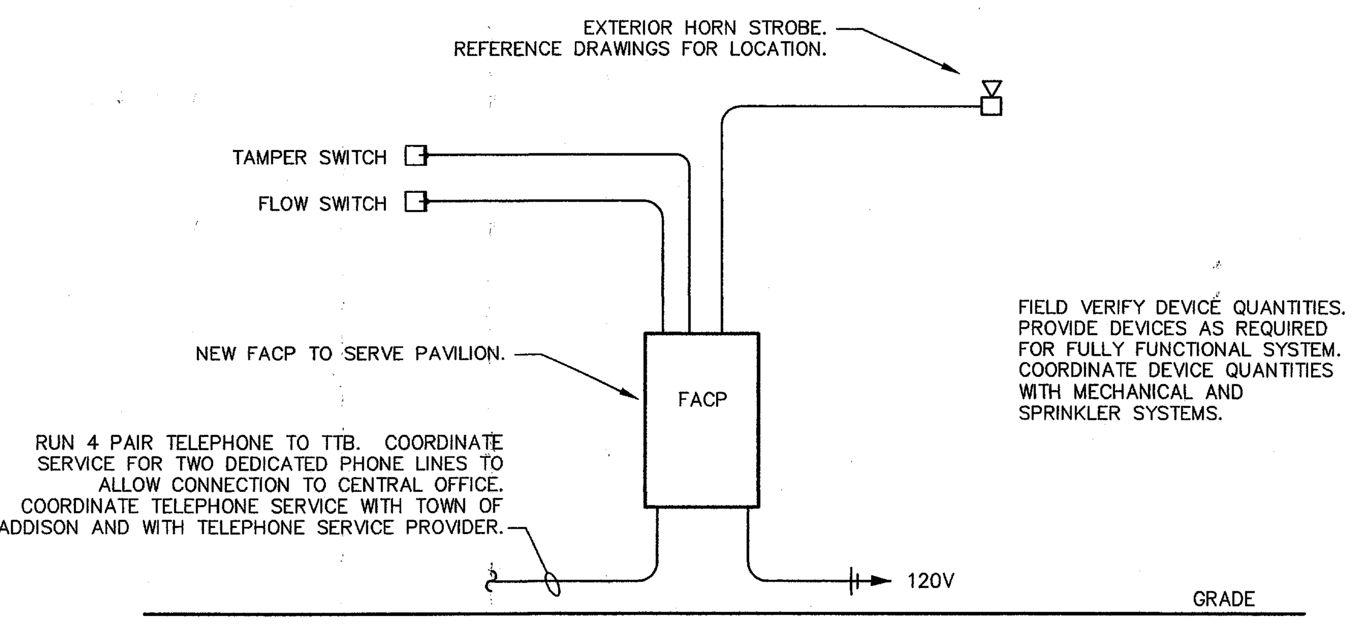

FIRE ALARM RISER DIAGRAM

ELECTRICAL POWER NOTES

P1. GENERAL: VERIFY EXACT LOCATION OF OUTLETS AND DEVICES WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE OUTLET BOXES, DEVICES, COVERPLATES, AND FLANGES AS REQUIRED.

P2. COORDINATION: MOUNT ALL OUTLETS AT 18" AFF UNLESS NOTED OTHERWISE. REFERENCE ARCHITECT'S DRAWINGS, PLANS, AND ELEVATIONS FOR ALL HEIGHTS, DIMENSIONS, AND CONFIGURATIONS OF DEVICES NOT INDICATED ON THESE DRAWINGS. REFERENCE SAME DRAWINGS FOR EQUIPMENT NOT IDENTIFIED.

P3. TELECOMM & TECHNOLOGY: FURNISH AND INSTALL MIN. 3/4" CONDUIT AND PULL STRINGS FROM EACH TELEPHONE/DATA OUTLET TO TELEPHONE BACKBOARD OR TO 6" ABOVE CEILING WHEN USING PLENUM RATED CABLE. VERIFY ALL TELEPHONE AND DATA LINE QUANTITIES, LOCATIONS, AND CABLE REQUIREMENTS WITH ARCHITECT. VERIFY EXACT REQUIREMENTS WITH TELEPHONE AND TECHNOLOGY EQUIPMENT SUPPLIERS AND INSTALLERS. FURNISH AND INSTALL MATERIALS NOT PROVIDED BY TELEPHONE OR TECHNOLOGY CONTRACTORS.

P4. RECEPTACLES: ALL DUPLEX RECEPTACLES ARE TO BE NEMA 5-20R SPECIFICATION GRADE, LEVITON DECORA (OR APPROVED EQUAL) WITH THE FOLLOWING CHARACTERISTICS:

GENERAL PURPOSE: GREY NYLON FACE WITH STAINLESS STEEL FACEPLATE

ISOLATED GROUND: ORANGE NYLON FACE WITH STAINLESS STEEL FACEPLATE

GROUND FAULT: GREY NYLON FACE WITH RED TEST AND BLACK REST BUTTONS WITH STAINLESS STEEL FACEPLATE

DATA/TELECOMM: GREY NYLON LEVITON DECORA STATION JACKS ON SEPARATE YOKE, PORTS AS INDICATED, WITH STAINLESS STEEL FACEPLATE

COORDINATE RECEPTACLE, DATA, AND SWITCH DEVICES BY MANUFACTURER, TYPE, STYLE, AND COLOR, TO THE EXTENT POSSIBLE WITH THE INDICATED MANUFACTURER'S LINES.

VERIFY ALL DEVICE TYPES, COLORS, AND CONFIGURATIONS WITH ARCHITECT. SUBMIT SAMPLES OF FINAL SELECTION TO ARCHITECT FOR FINAL APPROVAL PRIOR TO PURCHASE AND INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY REQUIRE REMOVAL AND REPLACEMENT OF DEVICES, WHICH, IF REQUESTED BY ARCHITECT, WILL BE AT CONTRACTOR'S EXPENSE.

ALL ISOLATED GROUND DEVICES (IG), GROUND FAULT INTERRUPT (GFI) DEVICES, AND TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) DEVICES SHALL BE RATED 20 AMPERES AND SHALL HAVE AN INSULATED GREEN GROUND WIRE. THE GROUND WIRE SHALL BE RUN CONTINUOUS AND UNSPLICED BETWEEN DEVICE AND PANEL GROUND BUS.

P5. GROUNDS: RUN ALL CIRCUITS WITH A #12 AWG GREEN INSULATED COPPER GROUND WIRE UNLESS OTHER WIRE SIZE IS NOTED. USE OF CONDUIT AS A GROUND IS UNACCEPTABLE. PROVIDE BONDING JUMPER BETWEEN GROUND BUS AND NEUTRAL BUS AT SERVICE EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES PER NEC ARTICLE 250. PROVIDE GROUND TO BUILDING STEEL PER NEC. PROVIDE GROUNDING ELECTRODE CONDUCTORS FROM ALL TRANSFORMERS AND OTHER SEPARATELY DERIVED SYSTEMS. PROVIDE GROUND LUG WITH A #6 AWG COPPER GROUND WIRE TO BUILDING STEEL, OR AS DIRECTED BY TELEPHONE EQUIPMENT SUPPLIER AND TELEPHONE UTILITY COMPANY FOR ALL TELEPHONE/TECHNOLOGY EQUIPMENT BOARDS. REFERENCE DATA REQUIREMENTS AND COORDINATE ELECTRICAL, TELECOMM, AND TECHNOLOGY CONTRACTORS FOR LOCATIONS AND INSTALLATION OF EQUIPMENT AND OTHER GROUNDING REQUIREMENTS.

P6. LANDLORD REQUIREMENTS: BECOME FAMILIAR WITH ALL OF LANDLORD'S SPECIFICATIONS, DESIGN CRITERIA, BUILDING STANDARDS, AND EQUIPMENT REQUIREMENTS PRIOR TO ANY EQUIPMENT PURCHASE OR INSTALLATION. ALL OF LANDLORD'S CRITERIA AND SPECIFICATIONS ARE TO BE FOLLOWED.

P7. ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE WEATHERPROOF (NEMA 3R).

P8. TEMPORARY POWER: FURNISH TEMPORARY ELECTRICAL SERVICE AS REQUIRED. ALL TEMPORARY WIRING IS TO BE REMOVED BY CONTRACTOR WHEN PERMANENT SERVICE IS AVAILABLE. COORDINATE SERVICE WITH ELECTRICAL UTILITY COMPANY.

P9. WHEN NOT FURNISHED BY OTHER TRADES, PROVIDE APPROPRIATE STARTERS, DISCONNECTS, MANUAL MOTOR SWITCHES, AND OVERCURRENT PROTECTION DEVICES FOR ALL MOTORS AND HVAC EQUIP. COORDINATE WITH MECHANICAL CONTRACTOR DURING BIDDING PROCESS.

P10. VERIFY HVAC EQUIPMENT CIRCUITING REQUIREMENTS AND COORDINATED WITH MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL EQUIPMENT INSTALLED. INFORM ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

P11. CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AS PANELBOARDS. PROVIDE NEW BREAKERS IN EXISTING PANEL(S) AS REQUIRED.

P12. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR BALANCING FINAL CONNECTIONS OF ALL PANELBOARDS AND SWITCHBOARDS TO WITHIN 10% BETWEEN PHASES.

P13. EXTEND OR SHORTEN EXISTING ELECTRICAL AND TELEPHONE CONDUITS AS REQUIRED TO SERVE EQUIPMENT AS INDICATED ON THE PLANS OR DIRECTED BY OWNER. COORDINATE LOCATION OF EQUIPMENT WITH ASSOCIATED TRADES. PROVIDE LABOR AND MATERIALS AS REQUIRED TO PROVIDE COMPLETE AND OPERABLE SYSTEMS. VERIFY THAT ANY CONDUIT AND WIRING TO BE EXTENDED OR EXISTING TO REMAIN IS OF PROPER CODE REQUIRED SIZES. IF SIZES DO NOT COMPLY WITH NEC, REPLACE THE MATERIALS AND NOTIFY THE ENGINEER IMMEDIATELY.

6

PANELBOARD 'A' SCHEDULE

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|   BRANCH CIRCUIT     |POLES/ | VOLT  L VOLT   L VOLT   L| PHASE | VOLT   L VOLT   L VOLT  L|POLES/ |  BRANCH CIRCUIT      |
|    DESCRIPTION       |  /AMPS| AMPS  D AMPS   D AMPS   D|CIRCUIT| AMPS   D AMPS   D AMPS  D|  /AMPS|   DESCRIPTION        |
1 | WARMER             |1 / 20 | 1920 K_______. _______. |1  A  2|_______. _______.  1272 K|1 / 20 | WALK IN REFER        | 2
3 | WARMER             |1 / 20 | 1920 K_______. _______. |3  B  4|_______. _______.   960 K|1 / 20 | ROLL IN REFER        | 4
5 | WARMER             |1 / 20 | 1920 K_______. _______. |5  C  6|_______. _______.  3016 K|2 /    | COFFEE               | 6
7 | WARMER             |1 / 20 | 1920 K_______. _______. |7  A  8|_______. _______.  3016 K|  / 40 |                      | 8
9 | KITCHEN CO         |1 / 20 | 1000 K_______. _______. |9  B 10|_______. _______.  1144 K|2 /    | ICE MAKER            |10
11| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |11 C 12|_______. _______.  1144 K|  / 20 |                      |12
13| STEAMER            |2 /    | 1498 K_______. _______. |13 A 14|_______. _______.  1000 K|1 / 20 | KITCHEN DUPLEX       |14
15|                    |  / 20 | 1498 K_______. _______. |15 B 16|_______. _______. _______.|1 / 20 |______________________|16
17| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |17 C 18|_______. _______. _______.|1 / 20 |______________________|18
19| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |19 A 20|_______. _______. _______.|1 / 20 |______________________|20
21| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |21 B 22|_______. _______. _______.|1 / 20 |______________________|22
23| KITCHEN CO         |1 / 20 |  900 K_______. _______. |23 C 24|_______. _______. _______.|1 / 20 |______________________|24
25| KITCHEN CO         |1 / 20 |  600 K_______. _______. |25 A 26|_______. _______. _______.|1 / 20 |______________________|26
27| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |27 B 28|_______. _______.   200 O|1 / 20 | MOTORIZED DAMPERS    |28
29| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |29 C 30|_______. _______.  1200 O|1 / 20 | AUTOMATIC VALVES     |30
31| KITCHEN CO         |1 / 20 |  600 K_______. _______. |31 A 32|_______. _______.  1200 O|1 / 20 | AUTOMATIC VALVES     |32
33| KITCHEN CO         |1 / 20 |  900 K_______. _______. |33 B 34|_______. _______.  1200 O|1 / 20 | AUTOMATIC VALVES     |34
35| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |35 C 36|_______. _______.  1900 O|1 / 20 | HAND DRYER           |36
37| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |37 A 38|_______. _______.  1900 O|1 / 20 | HAND DRYER           |38
39| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |39 B 40|_______. _______.  1900 O|1 / 20 | HAND DRYER           |40
41| KITCHEN CO         |1 / 20 | 1000 K_______. _______. |41 C 42|_______. _______.  1900 O|1 / 20 | HAND DRYER           |42
43| CO IG TTB          |1 / 20 |_______.  400 R_______.  |43 A 44|_______.  200 R_______. |1 / 20 + EXTERIOR CO           |44
45| CO IG ATM          |1 / 20 +_______.  400 R_______.  |45 B 46|_______.  200 R_______. |1 / 20 + EXTERIOR CO           |46
47| CO IG ATM          |1 / 20 +_______.  400 R_______.  |47 C 48|_______.  200 R_______. |1 / 20 + EXTERIOR CO           |48
49| CO TOILET GFI      |1 / 20 |_______.  400 R_______.  |49 A 50|_______.  200 R_______. |1 / 20 + EXTERIOR CO           |50
51| CO TOILET GFI      |1 / 20 |_______.  400 R_______.  |51 B 52|_______.  200 R_______. |1 / 20 + EXTERIOR CO           |52
53| SEC. CO IG         |1 / 20 |_______. _______.  400 O|53 C 54|_______.  200 R_______. |1 / 20 + EXTERIOR CO           |54
55|____________________|1 / 20 |_______. _______. _______.|55 A 56|_______.  200 R_______.|1 / 20 + EXTERIOR CO           |56
57|____________________|1 / 20 |_______. _______. _______.|57 B 58|_______.  200 R_______.|1 / 20 + EXTERIOR CO           |58
59|____________________|1 / 20 |_______. _______. _______.|59 C 60|_______.  200 R_______.|1 / 20 + EXTERIOR CO           |60
61|____________________|1 / 20 |_______. _______. _______.|61 A 62|_______. 1000 R_______.|1 / 20 + EXTERIOR CO           |62
63|____________________|1 / 20 |_______. _______. _______.|63 B 64|_______.  400 R_______.|1 / 20 + EXTERIOR CO           |64
65|____________________|1 / 20 |_______. _______. _______.|65 C 66|_______. _______. _______.|__-____|______________________|66
67| EXH FAN            |1 / 20 |_______. _______.  1587 M|67 A 68|_______. _______. _______.|__-____|______________________|68
69|____________________|1 / 20 |_______. _______. _______.|69 B 70|_______. _______. _______.|__-____|______________________|70
71|____________________|1 / 20 |_______. _______. _______.|71 C 72|_______. _______. _______.|__-____|______________________|72
73| 18A                |1 / 20 |  990 E_______. _______.|73 A 74|_______. _______. _______.|__-____|______________________|74
75| 5C1 5C 10L1        |1 / 20 |_______. 1430 L_______.  |75 B 76|_______. _______. _______.|__-____|______________________|76
77| 8L1 6K             |1 / 20 |_______.  800 L_______.  |77 C 78|_______. _______. _______.|__-____|______________________|78
79| 8L1 6K             |1 / 20 |_______.  800 L_______.  |79 A 80|_______. _______. _______.|__-____|______________________|80
81| 1A-1 8L 4L1        |1 / 20 | 1006 E  260 L_______.   |81 B 82|_______. _______. _______.|__-____|______________________|82
83| 20L                |1 / 20 | 2000 E_______. _______. |83 C 84|_______. _______. _______.|__-____|______________________|84
|(X)  SUBFEED LOADS          |_______. _______._______.  _______. _______. _______. |                               |
|(X)  SUBFEED LOADS          |_______. _______._______.  _______. _______. _______. |                               |

|LD  LOAD SUMMARY            |NON-|CON_KVA|CON_AMP|C_WPSF ||DIV_FAC|DES_KVA|DES_AMP|D_WPSF | PANEL 'A' FILE INFORMATION    |
|                            |SIM.|
|(L) LIGHTING                |LOAD|   3.3 |   9.1 |   1.3 ||  1.25 |   5.0 |  13.9 |   2.0 |JOB NUMBER: 2098               |
|(T) TASK LIGHTING           |====|   0.0 |   0.0 |   0.0 ||  1.25 |   0.0 |   0.0 |   0.0 |  JOB NAME: PAVILION           |
|(E) EXTERIOR LTG & SIGNS    |    |   4.0 |  11.1 |   1.6 ||  1.25 |   5.0 |  13.9 |   2.0 |  LOCATION: ADDISON            |
|(R) RECEPTACLES             |    |   5.2 |  14.4 |   2.1 ||  1.00 |   5.2 |  14.4 |   2.1 | SQUARE FT: 2500               |
|(G) Grouped Motors          |    |   0.0 |   0.0 |   0.0 ||  1.00 |   0.0 |   0.0 |   0.0 |LIGHT W/SF: 2 (PER NEC 220)    |
|(M) MOTORS: 1.6 kVA         |1.0 |   1.6 |   4.4 |   0.6 ||  1.00 |   1.6 |   4.4 |   0.6 | DESIGN BY: WMS                |
|(M) 25% LARGEST MOTOR       |    |:::::::|:::::::|:::::::||:::::::|   1.2 |   3.3 |   0.5 |  INPUT BY: WMS                |
|(K) KITCHEN EQUIPMENT       |    |  36.2 | 100.6 |  14.5 ||  0.65 |  23.5 |  65.4 |   9.4 |   FILE NO: 2098PA             |
|(H) HEAT: 0.0 kVA           |1.0 |   0.0 |   0.0 |   0.0 ||  1.00 |   0.0 |   0.0 |   0.0 |                               |
|(A) A/C EQUIP: 0.0 kVA      |1.0 |   0.0 |   0.0 |   0.0 ||  1.00 |   0.0 |   0.0 |   0.0 |        PRINT HISTORY          |
|(C) COMPUTER EQUIPMENT      |    |   0.0 |   0.0 |   0.0 ||  1.00 |   0.0 |   0.0 |   0.0 | DATE:           28-Jan-2003   |
|(W) WATER HEATERS           |    |   0.0 |   0.0 |   0.0 ||  1.00 |   0.0 |   0.0 |   0.0 | TIME:          03:37:05 PM    |
|(O) OTHER                   |    |  11.8 |  32.8 |   4.7 ||  1.00 |  11.8 |  32.8 |   4.7 |                               |
|(S) SPARE: 14 kVA           |    |*******|:::::::|:::::::||  0.65 |   9.4 |  26.1 |   3.8 |  FORM NUMBER: 2000pa08        |
|(P) SPACE: 10 kVA           |    |*******|:::::::|:::::::||  0.50 |   5.2 |  14.4 |   2.1 | LAST REVISION: 29-Jun-91      |
|                            |    |=======|=======|=======||-------|=======|=======|=======| ORIGINAL FORM: 27-Jun-87      |
|      TOTAL:                |    |  62.1 | 172.4 |  24.8 ||:::::::|  67.9 | 188.5 |  27.2 |                               |

|REMARKS:                    |BREAKER SUMMARY     TOTAL POLES:   84 |PER PHASE TOTALS|   PANEL 'A' SUMMARY           |
| 1. PROVIDE BREAKERS RATED  |ACTIVE |SPARE  | SPACE || POLES | AMPS |% DIFFERENCE    |  3PH. 4W. W/ GROUND BUS       |
|    FOR SWITCHING DUTY.     |   -   |   -   |   10  ||    1  |   -  |AB: 21.9 %      |                               |
|                            |   54  |   14  |_______||    1  |  20  |BC: 15.0 %      |     VOLTAGE: 208Y/120         |
| 2. PROVIDE BOLT-IN REAKERS |    2  |_______|_______||    2  |  20  |CA: 6.9 %       |     BRACING: 50 K AIC         |
|                            |    1  |_______|_______||    2  |  40  |                |       MAINS: MLO _            |
| 3. PROVIDE FULL GROUND BUS |_______|_______|_______||_______|______|KILO VOLT-AMPERE|        AMPS: 225              |
|                            |_______|_______|_______||_______|______|A: 22.7 kVA     |     # POLES: 84               |
| 4. PROVIDE DBL. NEUTRAL BUS|_______|_______|_______||_______|______|B: 18.2 kVA     |      STATUS: NEW              |
|                            |_______|_______|_______||_______|______|C: 21.2 kVA     |        TYPE: NQOD             |
| 5. + NEXT TO BREAKER AMP   |_______|_______|_______||_______|______|                |     MOUNTED: SURFACE          |
|    INDICATES GFI UNIT      |_______|_______|_______||_______|______|AMPERES         |     LOCATED: STORGAE          |
|                            |_______|_______|_______||_______|______|A: 189.1 A      | SERVED FROM: MSB              |
|                            |_______|_______|_______||_______|______|B: 151.7 A      |UPST. DEVICE: SWITCH           |
|                            |_______|_______|_______||_______|______|C: 176.4 A      |  DOWNSTREAM: -                |
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PANELBOARD 'M' SCHEDULE

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|   BRANCH CIRCUIT     |POLES/ | VOLT  L VOLT   L VOLT   L| PHASE | VOLT   L VOLT   L VOLT  L|POLES/ |  BRANCH CIRCUIT      |
|    DESCRIPTION       |  /AMPS| AMPS  D AMPS   D AMPS   D|CIRCUIT| AMPS   D AMPS   D AMPS  D|  /AMPS|   DESCRIPTION        |
1 | AHU-1              |3 /    |_______.   264 M  4333 H|1  A  2|_______.   228 M  1920 M|3 /    | CU-1                 | 2
3 |____________________|  /    |_______.   264 M  4333 H|3  B  4|_______.   228 M  1920 M|  /    |______________________| 4
5 |____________________|  / 50 |_______.   264 M  4333 H|5  C  6|_______.   228 M  1920 M|  / 35 |______________________| 6
7 | AHU-2              |3 /    |_______.   264 M  2900 H|7  A  8|_______.   192 M  1320 M|3 /    | CU-2                 | 8
9 |____________________|  /    |_______.   264 M  2900 H|9  B 10|_______.   192 M  1320 M|  /    |______________________|10
11|____________________|  / 35 |_______.   264 M  2900 H|11 C 12|_______.   192 M  1320 M|  / 25 |______________________|12
13| AHU-3              |3 /    |_______.   264 M  2900 H|13 A 14|_______.   192 M  1320 M|3 /    | CU-3                 |14
15|____________________|  /    |_______.   264 M  2900 H|15 B 16|_______.   192 M  1320 M|  /    |______________________|16
17|____________________|  / 35 |_______.   264 M  2900 H|17 C 18|_______.   192 M  1320 M|  / 25 |______________________|18
19| AHU-4              |3 /    |_______.   372 M  6233 H|19 A 20|_______.   228 M  2280 M|3 /    | CU-4                 |20
21|____________________|  /    |_______.   372 M  6233 H|21 B 22|_______.   228 M  2280 M|  /    |______________________|22
23|____________________|  / 70 |_______.   372 M  6233 H|23 C 24|_______.   228 M  2280 M|  / 40 |______________________|24
25| WH                 |3 /    | 6000 W_______. _______.|25 A 26|_______. _______. _______.|__-____|______________________|26
27|____________________|  /    | 6000 W_______. _______.|27 B 28|_______. _______. _______.|__-____|______________________|28
29|____________________|  / 70 | 6000 W_______. _______.|29 C 30|_______. _______. _______.|__-____|______________________|30
31|____________________|__-____|_______. _______. _______.|31 A 32|_______. _______. _______.|__-____|______________________|32
33|____________________|__-____|_______. _______. _______.|33 B 34|_______. _______. _______.|__-____|______________________|34
35|____________________|__-____|_______. _______. _______.|35 C 36|_______. _______. _______.|__-____|______________________|36
37|____________________|__-____|_______. _______. _______.|37 A 38|_______. _______. 22400 X|3 /    | PANEL A              |38
39|____________________|__-____|_______. _______. _______.|39 B 40|_______. _______. 19600 X|  /    | SUBFEED BREAKER      |40
41|____________________|__-____|_______. _______. _______.|41 C 42|_______. _______. 21200 X|  / 225|______________________|42
|(X)  SUBFEED LOADS          | 3300 L  7600 E  2000 R   1600 M 24400 K 11200 O_______. |                               |
|(X)  SUBFEED LOADS          |15000 S  2600 P_______. _______. _______. _______.       |                               |

|LD  LOAD SUMMARY            |NON-|CON_KVA|CON_AMP|C_WPSF ||DIV_FAC|DES_KVA|DES_AMP|D_WPSF | PANEL 'M' FILE INFORMATION    |
|                            |SIM.|
|(L) LIGHTING                |LOAD|   3.3 |   9.2 |   1.3 ||  1.25 |   4.1 |  11.5 |   1.7 |JOB NUMBER: 02098              |
|(T) TASK LIGHTING           |====|   0.0 |   0.0 |   0.0 ||  1.25 |   0.0 |   0.0 |   0.0 |  JOB NAME: PAVILION           |
|(E) EXTERIOR LTG & SIGNS    |    |   7.6 |  21.1 |   3.0 ||  1.25 |   9.5 |  26.4 |   3.8 |  LOCATION: ADDISON            |
|(R) RECEPTACLES             |    |   2.0 |   5.6 |   0.8 ||  1.00 |   2.0 |   5.6 |   0.8 | SQUARE FT: 2500               |
|(G) Grouped Motors          |    |   0.0 |   0.0 |   0.0 ||  1.00 |   0.0 |   0.0 |   0.0 |LIGHT W/SF: 1 (PER NEC 220)    |
|(M) MOTORS: 28.1 kVA        |1.0 |  28.1 |  78.1 |  11.3 ||  1.00 |  28.1 |  78.1 |  11.3 | DESIGN BY: WMS                |
|(M) 25% LARGEST MOTOR       |    |:::::::|:::::::|:::::::||:::::::|   1.9 |   5.2 |   0.8 |  INPUT BY: WMS                |
|(K) KITCHEN EQUIPMENT       |    |  24.4 |  67.7 |   9.8 ||  1.00 |  24.4 |  67.7 |   9.8 |   FILE NO: 2098PM             |
|(H) HEAT: 49.1 kVA          |1.0 |  49.1 | 136.3 |  19.6 ||  1.00 |  49.1 | 136.3 |  19.6 |                               |
|(A) A/C EQUIP: 0.0 kVA      |1.0 |   0.0 |   0.0 |   0.0 ||  1.00 |   0.0 |   0.0 |   0.0 |        PRINT HISTORY          |
|(C) COMPUTER EQUIPMENT      |    |   0.0 |   0.0 |   0.0 ||  1.00 |   0.0 |   0.0 |   0.0 | DATE:           23-Dec-2002   |
|(W) WATER HEATERS           |    |  18.0 |  50.0 |   7.2 ||  1.00 |  18.0 |  50.0 |   7.2 | TIME:          02:14:19 AM    |
|(O) OTHER                   |    |  11.2 |  31.1 |   4.5 ||  1.00 |  11.2 |  31.1 |   4.5 |                               |
|(S) SPARE: 15 kVA           |    |*******|:::::::|:::::::||  0.65 |   9.8 |  27.1 |   3.9 |  FORM NUMBER: 2000pa08        |
|(P) SPACE: 60 kVA           |    |*******|:::::::|:::::::||  0.50 |  30.0 |  83.4 |  12.0 | LAST REVISION: 29-Jun-91      |
|                            |    |=======|=======|=======||-------|=======|=======|=======| ORIGINAL FORM: 27-Jun-87      |
|      TOTAL:                |    | 143.7 | 399.0 |  57.5 ||:::::::| 188.1 | 522.2 |  75.3 |                               |

|REMARKS:                    |BREAKER SUMMARY     TOTAL POLES:   42 |PER PHASE TOTALS|   PANEL 'M' SUMMARY           |
| 1. PROVIDE BREAKERS RATED  |ACTIVE |SPARE  | SPACE || POLES | AMPS |% DIFFERENCE    |  3PH. 4W. W/ GROUND BUS       |
|    FOR SWITCHING DUTY.     |   -   |   -   |   12  ||    1  |   -  |AB: 5.4 %       |                               |
|                            |    2  |_______|_______||    3  |  25  |BC: 3.1 %       |     VOLTAGE: 208Y/120         |
| 2. PROVIDE BOLT-IN REAKERS |    3  |_______|_______||    3  |  35  |CA: 2.3 %       |     BRACING: 50 K AIC         |
|                            |    1  |_______|_______||    3  |  40  |                |       MAINS: MLO _            |
| 3. PROVIDE FULL GROUND BUS |    1  |_______|_______||    3  |  50  |KILO VOLT-AMPERE|        AMPS: 600              |
|                            |    2  |_______|_______||    3  |  70  |A: 53.6 kVA     |     # POLES: 42               |
| 4. PROVIDE DBL. NEUTRAL BUS|    1  |_______|_______||    3  | 225  |B: 50.8 kVA     |      STATUS: NEW              |
|                            |_______|_______|_______||_______|______|C: 52.4 kVA     |        TYPE: QMR              |
| 5. + NEXT TO BREAKER AMP   |_______|_______|_______||_______|______|                |     MOUNTED: SURFACE          |
|    INDICATES GFI UNIT      |_______|_______|_______||_______|______|AMPERES         |     LOCATED: STORAG           |
|                            |_______|_______|_______||_______|______|A: 446.4 A      | SERVED FROM: MSB              |
|                            |_______|_______|_______||_______|______|B: 423.1 A      |UPST. DEVICE: SWITCH           |
|                            |_______|_______|_______||_______|______|C: 436.4 A      |  DOWNSTREAM: -                |
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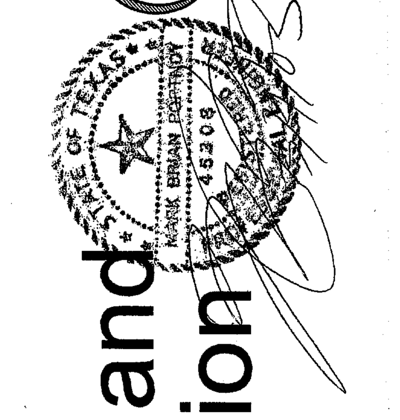
cunningham architects
918 Dragon Street
Dallas, Texas 75207
v 214.915.0900
f 214.915.0901

MYRDIN CONSULTING SERVICES
918 Dragon Street, Dallas, Texas 75207 mep@myrdin.com
MTS 214.915.0905 fax 214.915.0901 MEP 214.915.0929
M E P
MEP SYSTEMS DESIGN AND ENGINEERING, INC.



Addison Arts and Events Pavilion
Addison, Texas

issue	date
DD	08/26/02
50% CD	10/31/02
95% CD	01/23/03
ADDENDUM 1	01/31/03

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E3.1
NOTES
SCHEDULES