

- Hargis Engineers, Inc.**  
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- ENGINEERS | MECHANICAL - ELECTRICAL - TELECOMMUNICATIONS**

## 993336

## E10.01

PANEL SCHEDULE : 01/10/2013

CLASSIFICATION: NORMAL

FED FROM: (E) MAIN SWITCHBOARD

MOUNTING: SURFACE

VOLTAGE: 208Y/120V 3Ø, 4-WIRE

MAINS: 200A DOUBLE LUGS

NEUTRAL: 100% RATED

(E) PANEL 'A'

SECTION: 1 OF 1

PROJECT: KSD - Building 103

| NOTE | ITEM DESCRIPTION | CKT NO | BREAKER AMPS POLE | LOAD (VA) | Ø | LOAD (VA) | BREAKER AMPS POLE | CKT NO | ITEM DESCRIPTION                 | NOTE |
|------|------------------|--------|-------------------|-----------|---|-----------|-------------------|--------|----------------------------------|------|
|      | COMPUTERS        | 1      | 20 1              | 720 A     | A | 1274      | 20 1              | 2      | LIGHTING                         | 1    |
|      | COMPUTERS        | 3      | 20 1              | 720 B     | B | 1334      | 20 1              | 4      | LIGHTING                         | 1    |
|      | COMPUTERS        | 5      | 20 1              | 720 C     | C | 1160      | 20 1              | 6      | LIGHTING                         | 1    |
|      | COMPUTERS        | 7      | 20 1              | 720 A     | A | 1508      | 20 1              | 8      | LIGHTING                         | 1    |
|      | COMPUTERS        | 9      | 20 1              | 720 B     | B | 1508      | 20 1              | 10     | LIGHTING                         | 1    |
|      | COMPUTERS        | 11     | 20 1              | 720 C     | C | 1024      | 20 1              | 12     | LIGHTING                         | 1    |
|      | COMPUTERS        | 13     | 20 1              | 720 A     | A | 1095      | 20 1              | 14     | LIGHTING                         | 1    |
|      | COMPUTERS        | 15     | 20 1              | 720 B     | B | 1053      | 20 1              | 16     | LIGHTING                         | 1    |
|      | COMPUTERS        | 17     | 20 1              | 720 C     | C | 1187      | 20 1              | 18     | LIGHTING                         | 1    |
|      | COMPUTERS        | 19     | 20 1              | 720 A     | A | 1310      | 20 1              | 20     | LIGHTING                         | 1    |
|      | COMPUTERS        | 21     | 20 1              | 720 B     | B | 1308      | 20 1              | 22     | LIGHTING                         | 1    |
|      | COMPUTERS        | 23     | 20 1              | 960 C     | C | 1526      | 20 1              | 24     | LIGHTING                         | 1    |
|      | COMPUTERS        | 25     | 20 1              | 720 A     | A | 857       | 20 1              | 26     | LIGHTING                         | 1    |
|      | COMPUTERS        | 27     | 20 1              | 720 B     | B | 266       | 20 1              | 28     | LIGHTING - SIGNS                 | 1    |
|      | COMPUTERS        | 29     | 20 1              | 720 C     | C | 440       | 20 1              | 30     | LIGHTING - EXTERIOR EAST & SOUTH | 1    |
|      | COMPUTERS        | 31     | 20 1              | 720 A     | A | 20        | 1                 | 32     | SPARE                            |      |
|      | SPARE            | 33     | 20 1              | B         | B | 20        | 1                 | 34     | SPARE                            |      |
|      | SPARE            | 35     | 20 1              | C         | C | 20        | 1                 | 36     | SPARE                            |      |
|      | SPARE            | 37     | 20 1              | A         | A | 20        | 1                 | 38     | SPARE                            |      |
|      | SPARE            | 39     | 20 1              | B         | B | 20        | 1                 | 40     | SPARE                            |      |
|      | SPARE            | 41     | 20 1              | C         | C | 20        | 1                 | 42     | SPARE                            |      |

| LOAD CALCULATIONS         |  |            |               |            |  |
|---------------------------|--|------------|---------------|------------|--|
| LOAD DESCRIPTION          |  | CONN. (VA) | DEMAND FACTOR | CALC. (VA) |  |
| MISCELLANEOUS CONTINUOUS  |  | -          | 125%          | -          |  |
| EQUIPMENT & MISCELLANEOUS |  | -          | 100%          | -          |  |
| LIGHTING                  |  | 16847      | 125%          | 21059      |  |
| LARGEST MOTOR             |  | -          | 125%          | -          |  |
| MOTORS                    |  | -          | 100%          | -          |  |
| RECEPTACLE                |  | -          | 100%          | -          |  |
| RECEPTACLES OVER 10KVA    |  | -          | 50%           | -          |  |
| APPLIANCE                 |  | 8000       | 100%          | 8000       |  |
| COMPUTER                  |  | 11700      | 100%          | 11700      |  |
| TOTALS:                   |  | 36,547     |               | 40,759     |  |

| LOAD SUMMARY                     |       |  |
|----------------------------------|-------|--|
| TOTAL CONNECTED LOAD             | AMPS  |  |
| PHASE A: 14,361 VA               | 120 A |  |
| PHASE B: 13,069 VA               | 109 A |  |
| PHASE C: 9,117 VA                | 78 A  |  |
| TOTAL CALCULATED LOAD: 40,759 VA |       |  |
| TOTAL CALCULATED AMPS: 113 A     |       |  |

NOTES:

1. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL LOP-R.

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HARGIS ENGINEERS, INC.

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PANEL SCHEDULE : 01/10/2013

CLASSIFICATION: NORMAL

FED FROM: (E) PANEL 'A'

MOUNTING: FLUSH

VOLTAGE: 208Y1/20V 3Ø, 4-WIRE

MAINS: 100A MAIN CIRCUIT BREAKER

NEUTRAL: 100% RATED

(E) PANEL 'A1'

SECTION: 1 OF 1

PROJECT: KSD - Building 1000

| NOTE | ITEM DESCRIPTION | CKT NO. | BREAKER AMPS | LOAD POLE (VA) | Ø | LOAD (VA) | BREAKER AMPS | CKT NO. | ITEM DESCRIPTION | NOTE |
|------|------------------|---------|--------------|----------------|---|-----------|--------------|---------|------------------|------|
|      | MAIN             | 1       | 100          | 3              | A | 4000      | 50           | 2       | RANGE            | 1    |
|      |                  | 3       | -            | -              | B | 4000      | -            | 4       |                  |      |
|      |                  | 5       | -            | -              | C | -         | -            | 1       | SPACE            |      |
|      | SPARE            | 7       | 60           | 2              | A | 30        | 2            | 6       | SPACE            |      |
|      |                  | 8       | -            | -              | B | -         | -            | 10      |                  |      |
|      | SPARE            | 11      | 30           | 2              | C | 30        | 2            | 12      | SPACE            |      |
|      |                  | 13      | -            | -              | A | -         | -            | 14      |                  |      |
|      | SPARE            | 15      | 20           | 1              | B | 30        | 2            | 16      | SPACE            |      |
|      | SPARE            | 17      | 20           | 1              | C | -         | -            | 18      |                  |      |
|      | SPACE            | 19      | -            | 1              | A | -         | 1            | 20      | SPACE            |      |
|      | SPACE            | 21      | -            | 1              | B | -         | 1            | 22      | SPACE            |      |
|      | SPACE            | 23      | -            | 1              | C | -         | 1            | 24      | SPACE            |      |

| LOAD CALCULATIONS         |            |               |            |  |  |
|---------------------------|------------|---------------|------------|--|--|
| LOAD DESCRIPTION          | CONN. (VA) | DEMAND FACTOR | CALC. (VA) |  |  |
| MISCELLANEOUS CONTINUOUS  | -          | 125%          | -          |  |  |
| EQUIPMENT & MISCELLANEOUS | -          | 100%          | -          |  |  |
| LIGHTING                  | -          | 125%          | -          |  |  |
| LARGEST MOTOR             | -          | 125%          | -          |  |  |
| MOTORS                    | -          | 100%          | -          |  |  |
| RECEPTACLE                | -          | 100%          | -          |  |  |
| RECEPTACLES OVER 10W/A    | -          | 50%           | -          |  |  |
| APPLIANCE                 | 8000       | 100%          | 8000       |  |  |
| TOTALS:                   | 8,000      |               | 8,000      |  |  |

| LOAD SUMMARY           |          |  |
|------------------------|----------|--|
| TOTAL CONNECTED LOAD   | AMPS     |  |
| PHASE A: 4,000 VA      | 33 A     |  |
| PHASE B: 4,000 VA      | 33 A     |  |
| PHASE C:               |          |  |
| TOTAL CALCULATED LOAD: | 8,000 VA |  |
| TOTAL CALCULATED AMPS: | 22 A     |  |

NOTES:

1. PROVIDE NEW BREAKER IN AVAILABLE SPACE AS INDICATED.

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