1. EVERY CIRCUIT SHALL BE UNIQUELY IDENTIFIED WITH ITS SPECIFIC PURPOSE AND/OR EQUIPMENT AS NECESSARY TO DISTINGUISH FROM

PHASE AMPACITY

32.1 26.8 30.0 REMAINDER 0.0 KVA x 100% = 0.0 KVA x 90%   = 0.0

NEC CALCULATED LARGEST 0.0 KVA x 125% = 0.0 KVA x 90%   = 0.0

PHASE BALANCE

A-B B-C C-A

ALL OTHER LOADS, IDENTIFICATION SHALL INCLUDE A DEGREE OF DETAIL AS APPROVED BY THE AHJ.

TOTAL (VA) 3,360.0 2,720.0 3,360.0 REMAINDER 0.0 KVA x 50% = 0.0 KVA x 100%   = 0.0

GENERAL 1,000.0 0.0 2,000.0 FIRST 10 KVA 1.4 KVA x 100% = 1.4 KVA x 100%   = 1.4

OTHER 0.0 0.0 0.0  RECEPTACLES

MOTORS 0.0 0.0 0.0  LIGHTING 5.0 KVA x 125% = 6.3 KVA x 95%   = 5.9

RECEPTACLES 360.0 720.0 360.0 CONNECTED PF=

LIGHTING 2,000.0 2,000.0 1,000.0 LOAD KVA DEMAND LOAD FACTOR      LOAD KW PANEL

NOTE DESCRIPTION LTG RECEPT MOTORS OTHER GENERAL TOTAL AMP / P CCT PH CCT AMP / P TOTAL GENERAL OTHER MOTORS RECEPT LTG DESCR IPTION NOTE

MTG. : SURFACE 10000 AMPERE  SHORT CIRCUIT RATING (FULLY RATED) 5. EXISTING LOAD REMOVED.

4 LTS-BUILDING 1,000 1000 15 / 1 11 C 12 20 / 1 360 360 R-W BOILER RM 4

4 R-CHILLER RM 360 360 20 / 1 9 B 10 20 / 1 360 360 R-BOILER RM IRR CTRL 4

4 R-MECH COURT 360 360 20 / 1 7 A 8 20 / 1 1000 1,000 BOILER #3 CTRL 4

4 LTS-CHILLER RM 1,000 1000 20 / 1 1 A 2 20 / 1 1000 1,000 LTS-BOILER RM 4

SPACE 0 - 17 C 18 - 0 SPACE

SPACE 0 - 15 B 16 - 0 SPACE

SPACE 0 - 13 A 14 - 0 SPACE

100 A M.L.O. VOLTAGE 120 / 208 V 1.  NEW LOAD ON EXISTING CIRCUIT BREAKER. 7. PROVIDE  GFCI CIRCUIT BREAKER.

24% 24% 0%  TOTAL 9.4 KVA 10.7 KVA 10.4

NEW PANEL L

Panel Notes:

6. PROVIDE 30mA GROUND FAULT CIRCUIT BREAKER.

WIRE 4 W 3. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER.

NEW

PANEL E

Panel Notes:

6. PROVIDE 30mA GROUND FAULT CIRCUIT BREAKER.

MFR : GE 4. EXISTING LOAD ON NEW CIRCUIT BREAKER. LOAD IS ESTIMATED.

4 ELEC AIR CLEANER 1,000 1000 20 / 1 13 A 14 20 / 1 360 360 R-CONTROL ROOM 4

4 HEATER GEN #1 1,076 1076 30 / 1 11 C 12 20 / 1 750 750 BATT CHARGER 4

4 GAS ALARM CHILLER 1,000 1000 20 / 1 15 B 16 20 / 1 360 360 R-CONTROL ROOM 4

4 PANEL 'EA'

SPACE 0 - 17 C 18 20 / 1 360 360 R-CONTROL ROOM 4

100 A M.L.O. VOLTAGE 120 / 208 V 1.  NEW LOAD ON EXISTING CIRCUIT BREAKER. 7. PROVIDE  GFCI CIRCUIT BREAKER.

17% 7% 10%  TOTAL 16.0 KVA 16.5 KVA 16.4

#REF! GENERAL 12.9 KVA x 100% = 12.9 KVA x 100%   = 12.9

NEW PANEL E

Panel Notes:

6. PROVIDE 30mA GROUND FAULT CIRCUIT BREAKER.

WIRE 4 W 3. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER.

MOTORS 44.4

OTHER 0.0 KVA x 125% = 0.0 KVA x 100%   = 0.0

2,080 2080 7 A 8 20 / 1 600 600 FIRE ALARM 4

MOTOR CONTROL CENTER "MCCE" BUCKET INDEX

BUCKET TAG DESCRIPTION BUCKET TAG DESCRIPTION

04A FUTURE COOLING WATER PUMP 03G BOILER CIR. PUMP #3 06G CHILLER PRI. PUMP #4

02A BOILER RM H&V PUMP 05C COND. WATER PUMP #3 04J COND. WATER PUMP #1

01G CHILLER PRI. PUMP #2 04C CH. CIR. PUMP #1 04E COOLING TOWER #2

01A INCOMING FEEDER CABLES FROM MDS 04C CH. CIR. PUMP #1 04E COOLING TOWER #2

02C PANEL "L" MAIN DISC. 05E CHILLER CIR. PUMP #3 04E COOLING TOWER #3

01C PRI. HTG. WATER PUMP #3 04E COOLING TOWER #3 04E COOLING TOWER #4

02C PANEL "L" MAIN DISC. 05E CHILLER CIR. PUMP #3 04E COOLING TOWER #4

01C PRI. HTG. WATER PUMP #3 04E COOLING TOWER #4 04G COOLING TOWER #1

02E SPACE 05G CHILLER PRI. PUMP #5 04G COOLING TOWER #1

01E PRI. HTG. WATER PUMP #2 04G COOLING TOWER #1 04G COOLING TOWER #5

01J SPACE 04L COND. WATER PUMP #2 05L PRI. HTG. PUMP #5

02J TRANSFORMER 05L PRI. HTG. PUMP #5 04L COND. WATER PUMP #2

03J BOILER RM H&V UNIT 06J COOLING TOWER #4 04L COND. WATER PUMP #2

02J TRANSFORMER 05L PRI. HTG. PUMP #5 04L COND. WATER PUMP #2

03J BOILER RM H&V UNIT 06J COOLING TOWER #4 04L COND. WATER PUMP #2

MOTOR CONTROL CENTER "MCC" BUCKET INDEX

BUCKET TAG DESCRIPTION BUCKET TAG DESCRIPTION

03A PRI. HTG. WATER PUMP #4 02A CHILLER RM H&V PUMP 04C BOILER #2

01G TEMP. CONT. AIR COMPR. 03C PRI. HTG. PUMP  #1 03C PRI. HTG. PUMP  #1

01A INCOMING FEEDER CABLES FROM ATS 03C PRI. HTG. PUMP  #1 03C PRI. HTG. PUMP  #1

02C PANEL "E" MAIN DISC. 04E BOILER CIR. PUMP #2 04E BOILER CIR. PUMP #2

01C BOILER #1 03E CHILLER PRI. PUMP #1 03E CHILLER PRI. PUMP #1

02E SPACE 04G EXHAUST FAN 03E CHILLER PRI. PUMP #1 03E CHILLER PRI. PUMP #1

01E BOILER CIR. PUMP #1 03G TUNNEL SUMP PUMPS 03G TUNNEL SUMP PUMPS

01J CHILLER RM H&V UNIT 03L SPACE 03L SPACE

01L SPACE 04A SPACE 03L SPACE 04A SPACE

01L SPACE 04A SPACE 03L SPACE 04A SPACE

01L SPACE 04A SPACE 03L SPACE 04A SPACE

100 A BUS PHASE 3 PH 2. PROVIDE CIRCUIT BREAKER IN SPACE TO MATCH EXIS TING. 8. PROVIDE SHUNT-TRIP CIRCUIT BREAKER.

17% 7% 10%  TOTAL 16.0 KVA 16.5 KVA 16.4