CALCULATED 288 AMPS PER PHASE
APROXIMATE MAXIMUM DEMAND

400AMP
Panel Isolator

NHP KWHM
BACnet IP

TO ETHERNET
SWITCH

To DDC HI-LEVEL
BACnet IP COMMS

C/B 1,3,5
10 AMP

C/B 02
10 AMP

A
N
240
240v/24v AC
500 VA
TRANSFORMER
24V
0

CONTROL
2
1
20 AMP

2
FAR
2
3
4
6
PFRC
FAR
FIRE
FAR
R
CON
CON

2
FIRE
NORMALLY ENERGIZED
IN ALRAM DE-ENERGIZED
Local Fire ADC

Fire Alarm Relay
(4POLE)

Fire Alarm

20AMP
CONTROL CONTACTOR
(2 POLE)

5
LT
LAMP TEST
MODULE

5
AHU-1
LOCAL ISOLATOR

7
7
AHU
1C
AHU-1 Contactor
(7.5kW)

AHU1SR
8
9
AHU
1A
AHU-1 AUTO RELAY
(1 POLE)

A
7
0
M
10
AHU
1M
AHU-1 MANUAL RELAY
(1 POLE)

MAGISTRATES COURT

FLN-3 CABLE TO DDC

AHU1RR
5
11
11A
G
AHU-1 RUNNING

(Shield)-4
(RS485N)-3
(RS485P)-2
(0V)-1
+(3)
-(4)
AI
AHU1 0-10V
ANALOGUE SIG
SIEMENS DDC

ORANGE
CABLES
AHU1A
14
AHU1M
13
15
5
9
8

5
4
AHU
1RR
AHU1
RUNNING RELAY
(2 POLE)
16
RUN
25
24
FLT
19
20
1.5KW VSD
Mod No G120P-1.5/35B

12
12A
R
AHU1 FAULT
LIGHT

1.5mm VSD Screened Cable
With 6mm Ecc Wire
1.5 KW

C/B 7,9,11
20 Amp
D-curve
AHU1C

SIEMENS VSD LOCATED ON
WALL ADJACENT AHU-1

AIR HANDLING UNIT 1
GJ WALKER
MODEL ASH-11

OFFICE OVER COURT

5
19
19
AHU-2
LOCAL ISOLATOR

AHU
2C
AHU-2 Contactor
(4kW)

AHU2SR
20
21
AHU
2A
AHU-2 AUTO RELAY
(1 POLE)

A
19
0
M
22
AHU
1M
AHU-2 MANUAL RELAY
(1 POLE)

AHU2RR
5
23
23A
G
AHU-2 RUNNING

(Shield)-4
(RS485N)-3
(RS485P)-2
(0V)-1
+(3)
-(4)
AI
AHU2 0-10V
ANALOGUE SIG
SIEMENS DDC

ORANGE
CABLES
AHU2A
26
AHU2M
25
27
5
9
8

5
4
AHU
2RR
AHU2
RUNNING RELAY
(2 POLE)
28
RUN
25
24
FLT
19
20
1.5KW VSD
Mod No G120P-1.5/35B

24
24A
R
AHU2 FAULT
LIGHT

1.5mm VSD Screened Cable
With 6mm Ecc Wire
1.5 KW

C/B 13,15,17
20 Amp
D-curve
AHU2C

SIEMENS VSD LOCATED ON
WALL ADJACENT AHU-2

AIR HANDLING UNIT 1
GJ WALKER
MODEL ASH-11

5
31
31
AHU-3
LOCAL ISOLATOR

AHU
3C
AHU-3 Contactor
(4kW)

AHU3SR
32
33
AHU
3A
AHU-3 AUTO RELAY
(1 POLE)

A
31
0
M
34
AHU
3M
AHU-3 MANUAL RELAY
(1 POLE)

SECURE HOLDING

AHU3RR
5
35
35A
G
AHU-3 RUNNING

AHU3FR
5
36
36A
R
AHU-3 IN FAULT

(Shield)-4
(RS485N)-3
(RS485P)-2
(0V)-1
+(3)
-(4)
AI
298
299
AHU3 0-10V
ANALOGUE SIG
SIEMENS DDC

ORANGE
CABLES
AHU3A
38
AHU3M
37
39
5
9
8

5
4
AHU
3RR
AHU3
RUNNING RELAY
(2 POLE)
40
RUN
25
24
FLT
19
20
0.55KW VSD
Mod No G120P-0.55/35B

36
36A
R
AHU3 FAULT
LIGHT

1.5mm VSD
Screened Cable
0.55 KW

C/B 19,21,23
20 Amp
D-curve
AHU3C

SIEMENS VSD LOCATED ON
WALL ADJACENT AHU-2

AIR HANDLING UNIT 3
GJ WALKER
MODEL ASH-08

No	ISSUE	BY	DATE	No	ISSUE	BY	DATE

No		BY	DATE

DATE	24th of March '14	DESIGNED	RR
SCALE	N/A	CHECKED	
DRAWN	RR	No. IN SET	1 OF 25

CONTROL & DESIGN PTY LTD

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A.C.N. 086698679

PROJECT

Department of Justice Redevelopment
Bull Street Bendigo Vic 3550

TITLE

ELECTRICAL SCHEMATICS
For Bull Street project
Mechanical Ventilation
As Built Drawings

PROJECT No.	DRAWING No.	REVISION
C-463	E1	3

CAD FILE No. Work/Drawings/Bull St/electrical schematics