

Green Star – Office Interiors v1.1

Energy

Ene-1 Energy Efficiency (Conditional Requirement)

Points Available	Points Claimed	CIR Submitted
Conditional Requirement	Conditional Requirement met	N

Credit Criteria

It is a Conditional Requirement for obtaining a Green Star - Office Interiors Certified Rating that the tenancy fitout achieves a minimum predicted rating of Four Stars using the Australian Building Greenhouse Rating (ABGR) scheme's 'Validation Protocol for Tenancy Energy Estimation Version 2005-02'.

This credit does not require the signing of a NABERS Office 'Commitment Agreement'. Any renewable energy generated by the tenant on-site can be included in the NABERS Energy calculation.

Documents Provided

✓	An 'Energy Modelling Report' for the as-built tenancy fitout in accordance with the ABGR Validation Protocol for Tenancy Energy Estimation Version 2005-02 (that includes all other Ene-1 information); Ene-1: 1
✓	A schedule of office equipment including computers, monitors, fridges, dishwashers, hot water boilers, water coolers and drink machines, with a description of each item and either its energy star rating or calculated energy consumption (as per the ABGR Validation Protocol); Appendix B of Energy Modelling Report; Ene-1: 1
✓	Calculations of lighting energy according to the schedule required by the ABGR Validation Protocol (noting the use of switching, sensors and showing natural lighting calculations as appropriate); Included in Energy Modelling Report; Ene-1: 1
✓	Evidence of purchase for all equipment claimed as part of ABGR; Ene-1: 2 (pgs 27-47)
✓	Copies of as-built drawings showing the layout of the tenancy fitout, the location of workstations, reflected ceiling plans, and electrical schematics showing lighting zones, switching and sensors; Ene-1: 3 (starts pg 48)

Discussion

- We are claiming a 5 Star NABERS Energy rating as our Energy Modelling Report shows normalised emissions of 51kg CO₂/m²/annum. This exceeds the conditional requirement to achieve 4 Star NABERS Energy.
- As per ABGR Validation Protocol for Tenancy Energy Estimation Version 2005-02, all workstations in fitout have used the equipment loads set out in Section 5.3. According to the protocol
 - o “The above allowance covers all energy associated with computers including on-floor servers, printers, faxes, photocopiers, scanners, PC peripherals, and tea room facilities other than refrigerators, freezers, refrigerated drink dispensers and hot water/chilled water units.”

Green Star – Office Interiors v1.1

Information on the refrigerators has been provided within the Energy Modelling Report.

Evidence of purchase of most notebook and desktop computers has been provided. However, three notebook computers and four desktop computers were purchased prior to 2006 and we cannot locate dockets for their purchase. They are standard office equipment and default loads have been used as detailed below:

These loads are as follows: Desktop PCs with LCD Screens 190W, Laptops with LCD Screens 100W.

No supplementary air conditioning systems have been included in this tenancy. This is verified through provision of as-built mechanical drawing.

**Level 15, Office Fit Out
Tenancy ABGR Assessment**

**February 2009
AESY845800**

Client

GBCA

Advanced Environmental

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Authorised for Issue

RNP
Project Leader

05/02/09
Date

EXECUTIVE SUMMARY

This report has been prepared to provide a predicted potential tenancy rating under the NABERS Energy scheme for the GBCA fitout at Level 15, 179 Elizabeth Street, Sydney.

The total predicted tenancy for the GBCA fitout energy consumption is shown in the following table.

Total Annual Energy Consumption Summary (kWh)	
Tenant lighting	23,890
Office equipment (computer workstations)	37,552
Tenant supplementary fans	0
Tenant supplementary A/C – none installed	0
Tenant supplementary hot water/chilled water	0
Tenant domestic hot water	0
Kitchen Appliances	1,283
Total Annual Energy Consumption	62725
NABERS Energy Level	5 Stars

The results show that the potential tenancy CO₂ emissions calculate to a normalised greenhouse emission of 51 kgCO₂/m² or 5 Stars calculated under the ABGR Validation Protocol for Tenancy Energy Estimation as shown in the following figure.



TABLE OF CONTENTS

1	INTRODUCTION.....	1
1.1	General	1
1.2	Green Star and ABGR Rating Tools	1
1.3	Limitations	1
1.4	Source of Information	1
1.5	CO2 Emission Co-efficient	1
2	TENANCY CRITERIA	2
2.1	Occupancy	2
2.2	Lighting	2
2.3	Equipment.....	2
2.4	Profile.....	2
3	ENERGY CONSUMPTION ASSESSMENT	4
3.1	Lighting	4
3.2	Office Equipment.....	4
3.3	Tenant Miscellaneous Equipment	6
3.4	Tenant Supplementary Fans	6
3.5	Tenant Domestic Hot Water	6
3.6	Tenant Supplementary Hot Water/Chilled Water	6
3.7	Tenant Supplement Air Conditioning.....	6
3.8	Energy Consumption Summary	6
4	NABERS ENERGY RATING FOR GREEN STAR	8
	APPENDIX A – LIGHTING SCHEDULE.....	10
	APPENDIX B – EQUIPMENT SCHEDULE	14

LIST OF TABLES

Table 1: Internal Load Profiles for Weekdays	2
Table 2: Internal Load Profile for Weekends	3
Table 3: Tenant Lighting Loads	4
Table 4: Office Equipment Load	5
Table 5: Tenant Miscellaneous Equipment Loads	6
Table 6: Energy Consumption Summary	6

LIST OF FIGURES

Figure 1: Percentage Breakdown of Tenant Energy Consumption.....	7
Figure 2: NABERS Rating Output - produced from NABERS Office Rating Calculator	8

Issue/Status	Revision	Date Issued	Author	Checked	Approved	Comment
FINAL		16/02/09	JK	RP		

1 Introduction

1.1 General

This report presents the predicted potential tenancy rating under the NABERS Energy scheme, for the GBCA office fitout at Level 15, 179 Elizabeth Street, Sydney.

The purpose of this report is to identify, given the current project information, the predicted NABERS Energy tenancy energy rating for Green Star which could be achieved for the fitout.

1.2 Green Star and NABERS Energy Rating Tools

The NABERS Energy Scheme is a voluntary greenhouse star-rating tool designed to harness opportunities for greenhouse gas reduction in the commercial sector. Specifically, the NABERS Energy Building Greenhouse Rating process examines energy in terms of CO₂ emissions.

The Green Star rating tool is used to assess the environmental performance of buildings in a specific sector (office, retail, healthcare, education) at a distinct phase in the development cycle (design or construction).

To be awarded an accredited NABERS Energy rating, the building must be independently assessed during the first year of occupancy. It should be noted that this is not a requirement of the Green Star rating tool.

1.3 Limitations

This report analyses tenancy energy consumption only. Its accuracy is reliant primarily on the adherence of the tenants to the stated modelling criteria regarding equipment selection, energy efficiency and operational hours. Whilst the results predicted within this report are correct for the systems modelled, the final performance will be dependent on the actual detailing and use of the system.

1.4 Source of Information

This report uses the following sources of information:

- 1 Architectural drawings from Bligh Voller Nield Architecture. General Arrangement Floor Plan, A-D-01 Issue 03 dated 11/10/07
- 2 ABGR Validation Protocol for Tenancy Energy Estimation – Version 2005 - 02
- 3 ABGR Guidelines for Conducting an Energy Efficiency Design Review – Version 2005 – 01
- 4 Engineering Services as-built drawings for electrical, mechanical, and lighting services.
- 5 GBCA Equipment Schedule dated 26/09/08
- 6 Appliance Energy Consumption Data (www.energyrating.gov.au)

1.5 CO₂ Emission Co-efficient

In terms of the NABERS Energy analysis, a conversion factor to convert kilowatt-hours (kWh) to kilograms of CO₂ (kgCO₂) of 0.94 for NSW is applied for electricity, which is current at the date of this report.

2 Tenancy Criteria

2.1 Occupancy

The tenancy occupancy schedule is modelled as per the default schedule listed in the ABGR Validation Protocol for Tenancy Energy Estimation – Version 2005 – 02. The occupancy density is modelled as one person per workstation – 55 people.

2.2 Lighting

The tenancy lighting profile is modelled as per the default schedule listed in the ABGR Validation Protocol for Tenancy Energy Estimation – Version 2005 – 02 and outlined in section 3.3.

2.3 Equipment

The tenancy equipment profile is modelled as per the default schedule listed in the ABGR Validation Protocol for Tenancy Energy Estimation – Version 2005 – 01.

2.4 Profile

The profiles include an allowance for the loading of occupants, lighting and equipment over a 24 hour period for weekdays and weekends. The table below provides a breakdown of the internal loads profiles used.

GBCA Profile Weekday (% Usage) (as per ABGR Validation Protocol for Tenancy Energy Estimation)				
Hour	Occupancy	Lighting	Equipment	Plant
1	0%	5%	50%	Off
2	0%	5%	50%	Off
3	0%	5%	50%	Off
4	0%	5%	50%	Off
5	0%	5%	50%	Off
6	0%	5%	50%	Off
7	0%	5%	65%	Off
8	15%	30%	65%	On
9	60%	75%	80%	On
10	100%	100%	100%	On
11	100%	100%	100%	On
12	100%	100%	100%	On
13	100%	100%	100%	On
14	100%	100%	100%	On
15	100%	100%	100%	On
16	100%	100%	100%	On
17	100%	100%	80%	On
18	50%	75%	80%	On
19	15%	25%	65%	Off
20	5%	15%	55%	Off
21	5%	15%	55%	Off
22	0%	5%	50%	Off
23	0%	5%	50%	Off
24	0%	5%	50%	Off

Table 1: Internal Load Profiles for Weekdays

GBCA Profile Weekend (% Usage)					
Hour	Occupancy	Lighting (normal)	Lighting (motion sensors)	Lighting (daylight linking)	Equipment
1	0%	5%	2.5%	5%	50%
2	0%	5%	2.5%	5%	50%
3	0%	5%	2.5%	5%	50%
4	0%	5%	2.5%	5%	50%
5	0%	5%	2.5%	5%	50%
6	0%	5%	2.5%	5%	50%
7	0%	5%	2.5%	5%	50%
8	0%	5%	2.5%	5%	50%
9	5%	15%	7.5%	15%	55%
10	5%	15%	7.5%	2%	55%
11	5%	15%	7.5%	2%	55%
12	5%	15%	7.5%	2%	55%
13	5%	15%	7.5%	2%	55%
14	5%	15%	7.5%	2%	55%
15	5%	15%	7.5%	2%	55%
16	5%	15%	7.5%	2%	55%
17	5%	15%	7.5%	2%	55%
18	0%	5%	2.5%	5%	50%
19	0%	5%	2.5%	5%	50%
20	0%	5%	2.5%	5%	50%
21	0%	5%	2.5%	5%	50%
22	0%	5%	2.5%	5%	50%
23	0%	5%	2.5%	5%	50%
24	0%	5%	2.5%	5%	50%

Table 2: Internal Load Profile for Weekends

3 Energy Consumption Assessment

3.1 Lighting

The lighting tables below have been divided up to show the lights that have been calculated to use motion sensors, daylight linking or neither. These tables along with the corresponding profiles in section 2.4 have been used to calculate the total tenant lighting energy consumption of 23,890 kWh/annum. The lights using motion sensors and daylight linking have been highlighted on the Lighting Schedule in Appendix A.

Type	Number	Lamp Type	Quantity	W	W/m ²
C1	2	26	29	1508	1.88
C1D	2	26	9	468	0.58
C5	2	40	5	400	0.50
F1A	2	49	9	882	1.10
F1A	3	28	9	756	0.94
F1B	1	49	3	147	0.18
F1B	2	28	3	168	0.21
F2	2	24	4	192	0.24
F3	16	14	2	448	0.56
F4A	3	28	2	168	0.21
F4B	2	28	4	224	0.28
F5	1	40	3	120	0.15
F7	3	14	6	252	0.31
F8	4	14	2	112	0.14
F9	1	80	1	80	0.10
H1	1	35	10	350	0.44
L1	3	1	14	42	0.05
Total				6317	7.86

Table 3: Tenant Lighting Loads

3.2 Office Equipment

The updated office equipment schedule was provided by the GBCA dated 27/11/07.

Currently in the GBCA Sydney environment there are 31 laptops and 13 desktops giving a total of 44 computers. As the staff for the GBCA grows so to will the computers being comprised predominantly of laptops. The total number of work computers designed for is 55 based on 1 per workstation as per the ABGR Validation Protocol for Tenancy Energy Estimation – Version 2005 – 02.

12 standard hard drives and LCD monitors and 43 laptops have been used for the calculations given the above information. Each computer with an LCD screen has been assessed at a load of 190W. Each laptop has been assessed at a load of 100W. These equipment loads also included the energy associated with following;

- On floor server
- Printers
- Faxes
- Photocopiers
- Scanners
- PC peripherals
- Tea room facilities (excluding those assessed under miscellaneous equipment)

The office equipment total annual energy consumption is shown in Table 7 based on the above and the profile described in section 2.4.

No. Of workstations	55	
No. Of PCs with LCD screens	13	
No. Of Laptops	42	
Green Star Allowance for equipment including LCD screens	190	W
Green Star Allowance for equipment including laptops	100	W
Equipment loads including LCD screens	13012	kWh/annum
Equipment loads including laptops	24540	kWh/annum
Total	37552	kWh/annum

Table 4: Office Equipment Load

3.3 Tenant Miscellaneous Equipment

The tenant equipment not included as computer and associated equipment is shown in the following table. This information was taken from the schedule shown in Appendix B. Photos of energy ratings with annual energy consumption provided in Appendix B.

Item	Type	Power Rating W	Hours Per Day hr	Total Energy kWh/annum
1 door under the counter fridge	NEC FR-080R	2 star	24	305
1 door under counter fridge	NEC FR-080R	2 star	24	305
1 door under counter fridge	NEC FR-080R	2 star	24	305
2 door fridge	Samsung SR228NME	4 star	24	368
Total				1,283

Table 5: Tenant Miscellaneous Equipment Loads

This gives a total of energy usage of 1,283 kWh/annum.

3.4 Tenant Supplementary Fans

No tenant supplementary fans supplied to fitout.

3.5 Tenant Domestic Hot Water

No tenant domestic hot water is supplied in the fitout. Only cold water is supplied to bathroom basins, kitchen sink, and dishwashers.

3.6 Tenant Supplementary Hot Water/Chilled Water

There are no boiler/chiller water units that supply the GBCA tenancy fitout.

3.7 Tenant Supplementary Air Conditioning

There is no supplementary air conditioning installed in the GBCA tenancy fitout.

3.8 Energy Consumption Summary

A summary breakdown of energy consumption in the tenancy is shown in the following table:

Total Annual Energy Consumption Summary (kWh)	
Tenant lighting	23890
Office equipment	37552
Miscellaneous Equipment	1283
Total Annual Energy Consumption	62725
NABERS Energy Level	5 Stars

Table 6: Energy Consumption Summary

Figure 2 shows a graphical representation of the table above by showing percentage contribution of each energy consumer in the tenancy.

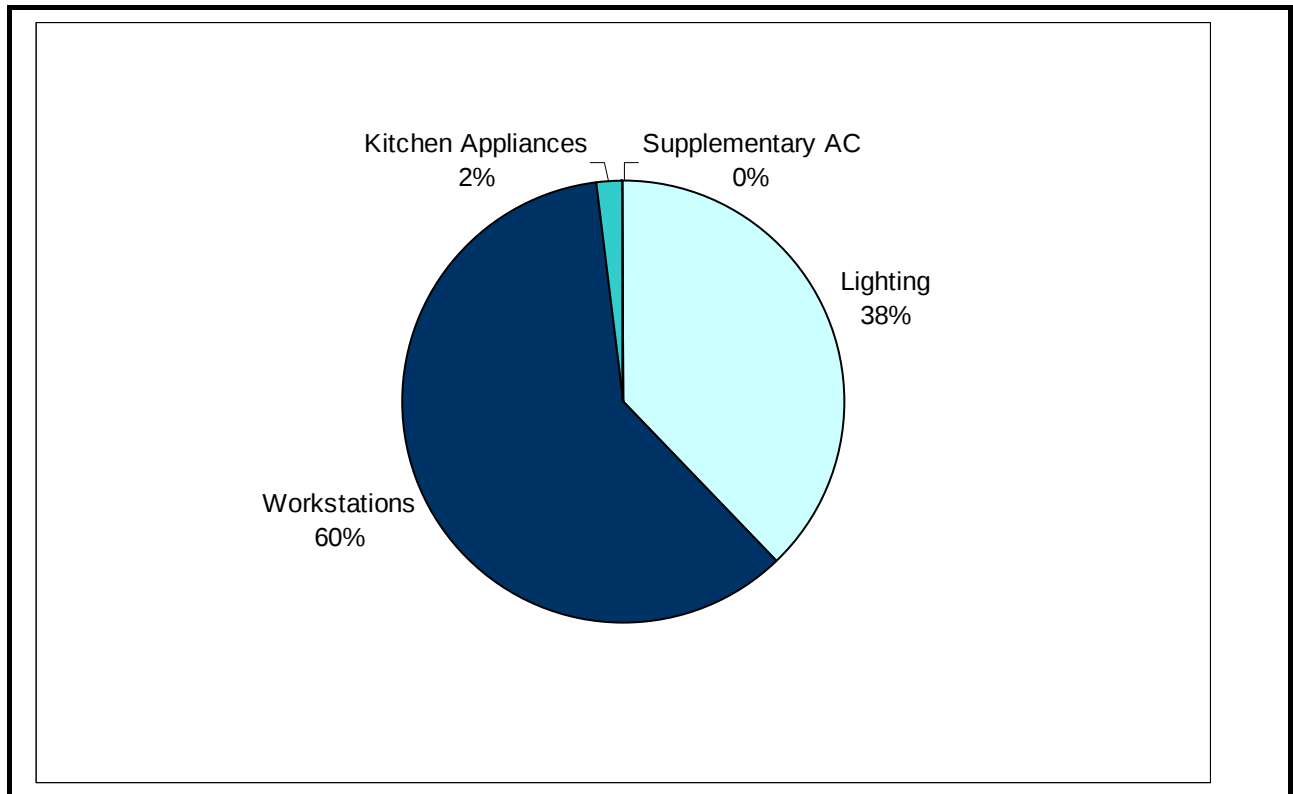


Figure 1: Percentage Breakdown of Tenant Energy Consumption

4 NABERS Energy for Green Star

The rated area of the building is based on a NLA of 804m² and contains 55 workstations complete with computers. The number of hours per week for the tenancy rating is defined at 50 hours/week. The output from the NABERS Office Rating Calculator version 6.0 is shown in the following figures:

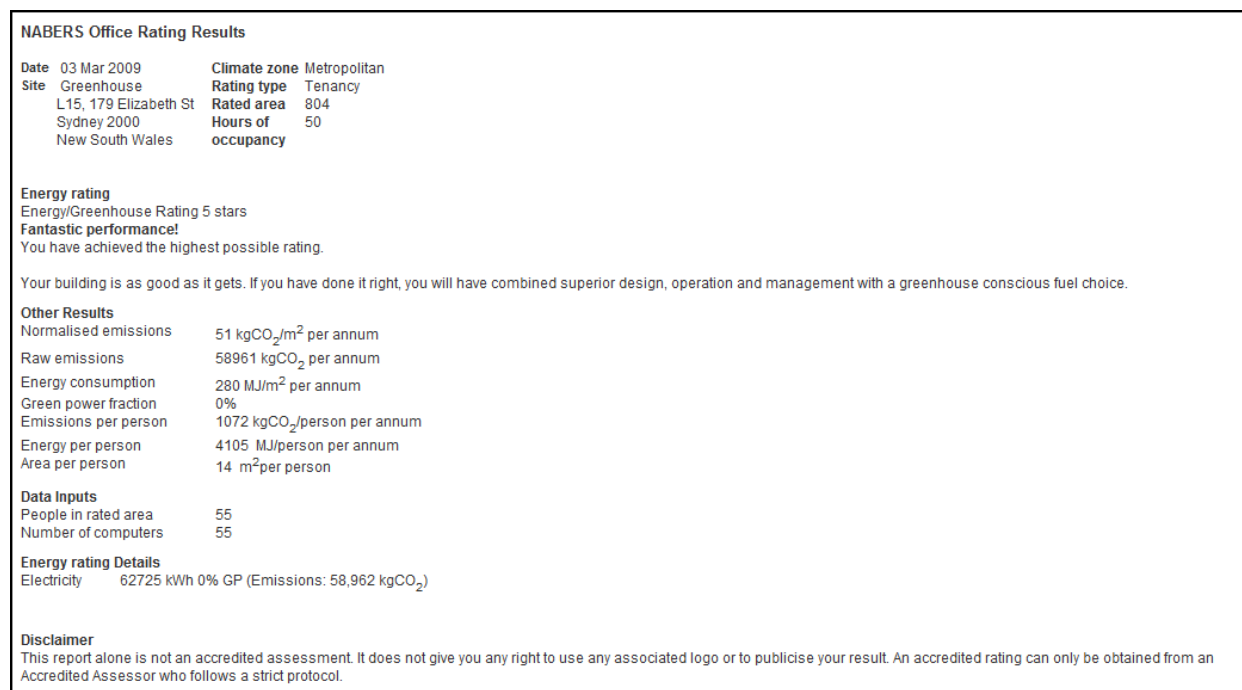


Figure 2: NABERS Rating Output - produced from NABERS Office Rating Calculator

The results show that the potential tenancy CO₂ emissions calculate to a normalised greenhouse emission of 51 kgCO₂/m² or 5 Stars calculated under the ABGR Validation Protocol for Tenancy Energy Estimation. This is based on a total predicted energy consumption of 62,725 kWh/ann.

APPENDIX A – LIGHTING SCHEDULE

Lincolne Scott

Vision Design

SYD0703900 GBCA -NEW HEAD OFFICE FITOUT

Date: 29/11/2007

Luminaire Schedule

Revision: J

TYPE	IMAGE	DESCRIPTION	MANUFACTURER	CAT NO.	LAMP(s)				DIMENSIONS (approx. only)	FINISH	IP RATING	CONTROL GEAR	MOUNTING DETAILS	QTY
					Number	Wattage per Lamp	Type	Colour Temp						
C1		2x26W PLC surface mounted downlight with matt optic reflector	Zumtobel	Panos-A HM 200 60610727	2	26W	Osram TC-DEL, G24q-2	4000K	230mm Dia. x 200mmH	Matt white	N/A	Electronic	Surface	29
C1D		2x26W PLC surface mounted downlight with matt optic reflector, DSI dimmable	Zumtobel	Panos-A HM 200 62902022 DSI	2	26W	Osram TC-DEL, G24q-2	4000K	230mm Dia. x 200mmH	Matt white	N/A	Electronic DSI dimmable	Surface	9
C5		2x40W TC-L fluorescent direct/indirect suspended diffuser luminaire with plastic seal, DSI dimmable	Zumtobel	Chiaro FTR680 42157266 DSI	2	40W	Osram	4000K	680mm Dia. x 142mmH	TBC	N/A	Electronic DSI dimmable	Suspended	5
F1A		2x1/49W + 3x2/28W T5 fluorescent suspended direct/indirect luminaire, matt divergent louvre, separately switchable, DALI dimmable, with track adapter	Zumtobel	42913075.77A	2x1/49W up 3x2/14W down	49W/14W	Osram T5 Fluorescent Tri-phosphor	4000K	98mmW x 4700mmL x 62mmH	TBC	N/A	Electronic DALI dimmable	Wire suspended at 1650mm AFFL (confirm height)	9
F1B		1/49W + 2x2/28W T5 fluorescent suspended direct/indirect luminaire, matt divergent louvre, separately switchable, DALI dimmable, with track adapter	Zumtobel	42913075.77B	1x1/49W up 2x2/14W + down	49W/14W	Osram T5 Fluorescent Tri-phosphor	4000K	98mmW x 2736mmL x 62mmH	TBC	N/A	Electronic DALI dimmable	Wire suspended at 1650mm AFFL (confirm height)	3

Lincolne Scott

Vision Design

SYD0703900 GBCA -NEW HEAD OFFICE FITOUT

Date: 29/11/2007

Luminaire Schedule

Revision: J

TYPE	IMAGE	DESCRIPTION	MANUFACTURER	CAT NO.	LAMP(s)				DIMENSIONS (approx. only)	FINISH	IP RATING	CONTROL GEAR	MOUNTING DETAILS	QTY
					Number	Wattage per Lamp	Type	Colour Temp						
F2		2x24W T5 fluorescent downlight with microprismatic optic, DSI dimmable	Zumtobel	Mellowlight IV EM 42174798	2	24W	Osram T5 Fluorescent Tri-phosphor	4000K	596mmW x 596mmL x 102mmH	TBC	N/A	Electronic DSI dimmable	Recessed	4
F3		4x4/14W T5 fluorescent downlight with micro-pyramidal structure, DSI dimmable	Zumtobel	Light Fields E 42157312	4x4/14W	14W	Osram T5 Fluorescent Tri-phosphor	4000K	1196mmW x 1196mmL x 63mmH	TBC	N/A	Electronic DSI dimmable	Recessed	2
F4A		3x1/28W T5 fluorescent recessed continuous extrusion with PMMA diffuser	Zumtobel	Slotlight 3-length 42160016	3	28W	Osram T5 Fluorescent Tri-phosphor	4000K	68mmW x 3362mmL x 100mmH	TBC	N/A	Electronic	Recessed	2
F4B		2x1/28W T5 fluorescent recessed continuous extrusion with PMMA diffuser, DSI dimmable	Zumtobel	Slotlight 2-length 42160030	2	28W	Osram T5 Fluorescent Tri-phosphor	4000K	68mmW x 2268mmL x 100mmH	TBC	N/A	Electronic DSI dimmable	Recessed	4
F5		1/40W T5 fluorescent direct/indirect suspended diffuser luminaire, DSI dimmable	Zumtobel	Chiara FTR390 42157260.DSI	1	40W	Osram T5 Fluorescent Tri-phosphor	4000K	390mm Dia. x 125mmH	TBC	N/A	Electronic DSI dimmable	Suspended	3
F7		3x14W T5 fluorescent recessed downlight, prismatic diffuser			3	14W	Osram T5 Fluorescent Tri-phosphor	4000K	590mmW x 590mmL x 95mmH	TBC	N/A	Electronic	Recessed	6

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Date of Print: 13/12/2007

Lincolne Scott

Vision Design

SYD0703900 GBCA -NEW HEAD OFFICE FITOUT

Date: 29/11/2007

Luminaire Schedule

Revision: J

TYPE	IMAGE	DESCRIPTION	MANUFACTURER	CAT NO.	LAMP(s)				DIMENSIONS (approx. only)	FINISH	IP RATING	CONTROL GEAR	MOUNTING DETAILS	QTY
					Number	Wattage per Lamp	Type	Colour Temp						
F8		4/14W T5 fluorescent suspended direct/indirect luminaire with micro-pyramidal structure	Zumtobel	Light Fields A-ID 42174314	4	14W	Osram T5 Fluorescent Tri-phosphor	4000K	623mmW x 623mmL x 61mmH	TBC	N/A	Electronic	Suspended	2
F9		1/80W T5 fluorescent direct/indirect surface mounted wall light, graphite finish	Zumtobel	Bega 4413	1	80W	Osram T5 Fluorescent Tri-phosphor	4000K	105mmW x 1515mmL x 120mmH	TBC	N/A	Electronic	Surface mounted	1
H1		35W track mounted ceramic metal halide adjustable spotlight with flood distribution, electronic control gear	Zumtobel	Vivo M	1	35W	Osram HCI-TC-CE G8.5	4000K		TBC	N/A	Electronic	Track mounted	10
L1		3/1W LED recessed adjustable downlight, 30° beam angle	Zumtobel	Panos S LED 60611837	3	1W	Osram	3000K	113mm dia. x 103mmH	TBC	N/A	Electronic	Recessed	14
T1		3-phase DALI surface mounted track, live feed, dead end	Zumtobel	3-phase DALI track 60280045	N/A	N/A	N/A	N/A	Length to suit	White	N/A	N/A	Surface	40m
T2		3-circuit surface mounted track, live feed, dead end	Zumtobel	3-circuit track 2801270	N/A	N/A	N/A	N/A	Length to suit	White	N/A	N/A	Surface	19m

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Date of Print: 13/12/2007

APPENDIX B – EQUIPMENT SCHEDULE



BlighVollerNieldArchitecture

GBCA SYDNEY HEAD OFFICE

SCH_FF&E

FITMENTS & EQUIPMENT SCHEDULE ISSUED FOR CONSTRUCTION

Prepared by:
Bligh Voller Nield
71 Flinders Lane
Melbourne VIC 3000

26 September 2008

GBCA Fitout ABGR_Tenancy_Report.doc
February 2009
Form Revision: 1 04/06

FIXTURE AND FITTING SCHEDULE				Bligh Voller Nield		
Project: SSCA, SYDNEY				Date: September 26, 2008		
Project No: M0708010				Name: S. Campton		
Location: Level 13, 179 Elizabeth Street, Sydney				Page: Page 3 of 3		
Issue: B						
ITEM NOTES	SPECIFICATION	SUPPLIER	SIZE	Qty	No.	
KITCHEN EQUIPMENT						
FR	MEC Bar refrigerator Model: FR-080R Colour: White	26mm H x 440 W x 450 D 77 Litres	3		Harvey Norman Commercial	J08
FR	By Client		1			
DW	By Client		1			J12
DW	Bosch Freestanding dishwasher Model: SGS53E72AU Colour: White	850mm H x 600 W x 600 D	2		Harvey Norman Commercial	J05
SINK	Kitchen Sink Model: Clark Advance 930mm	892mmL x 292W x 171D	1		Clark	J05
BIN	REFLEX Bin, Square 100Ltr. Black. Product ID BR-ER65LA	580mmH x405mmW x405mmD		Refer to Joinery drawings for quantities and location	REFLEX Handling & Storage. 02 9526 9644	Refer dwgs
EQUIPMENT						
RD1	Hafele Zinc Alloy Handles Cat No 109.50.604	164L x 25H x 25D		Refer to Joinery drawings for quantities and location	Hafele	Refer dwgs
RD2	Hafele Door Handle Cat No. 100.92.907			Refer to Joinery drawings for quantities and location	Hafele	Refer dwgs
CASTOR 1	Hafele swivel stop castor, 75mm wheel with lockable breaks. Cat No. 663.16.920 Or equivalent			Refer to Joinery drawings for quantities and location	Hafele	Refer dwgs
CR1	Hospital style natural anodised aluminium curtain rail with weight of rail and curtain supported adequately from slab above if required	Size as indicat ed on RCP plans		Coordinate with fabric supplier to ensure adequate hangers for curtain fabric. Tape to top of curtain to match the colour of the curtain fabric on the inside face.	Decorex PH 1300 368 399 or equivalent	Refer dwgs

G:\Project\Progress Work\SSCA\Final - 11\Appendix Documents\B.2 - B.2-5 Equipment Schedule.doc

GBCA Computer Schedule

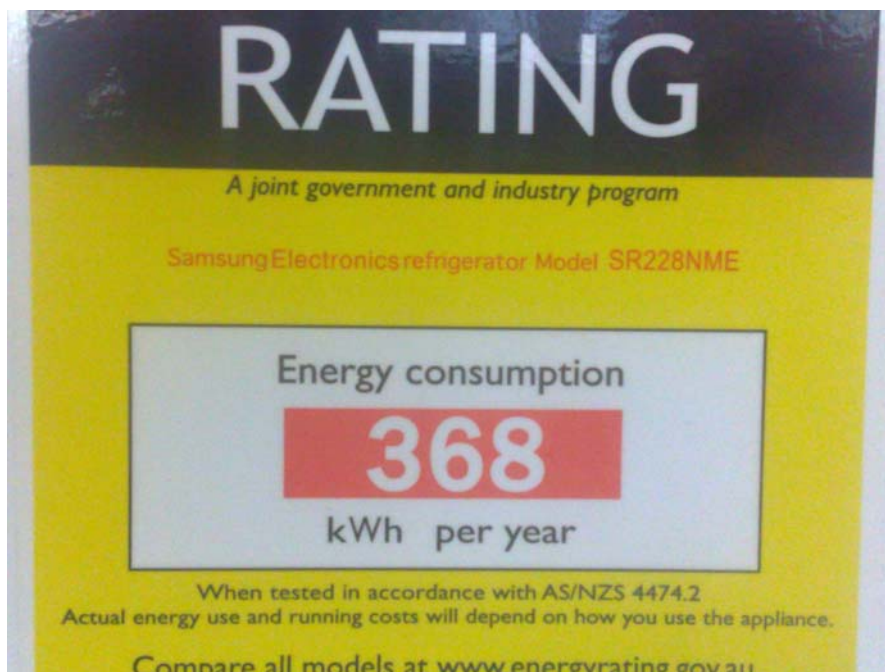
Asset Name	Make	Model	USERNAME	Purchase date
GBC-N03	TOSHIBA	TECRA S1	Spare - not used	Unknown
GBC-N04	TOSHIBA	TECRA S2	nmontet	Unknown
GBC-N05	TOSHIBA	M5	trefki	Unknown
				Inv. 1129
GBC-N09	Sony Corporation	VGN-TX47GP_W	Mhoughton	8/09/2006
				Inv. 1129
GBC-N12	Sony Corporation	VGN-TX47GP_W	Spare - not used	8/09/2006
				Inv. 1226
GBC-N13	Sony Corporation	VGN-TX47GP_W	sdealmada	11/12/2006
				Inv. 1226
GBC-N14	Sony Corporation	VGN-SZ34GP_B	Spare - not used	11/12/2006
				Inv. 1226
GBC-N15	Sony Corporation	VGN-SZ34GP_B	long	11/12/2006
				Inv. 1226
GBC-N16	Sony Corporation	VGN-TX47GP_W	kwilloughby	11/12/2006
				Inv. 1277
GBC-N17	Sony Corporation	VGN-SZ44GN	beastham	26/03/2007
				Inv. 1336
GBC-N20	Sony Corporation	VGN-SZ44GN	epiper	2/05/2007
				Inv. 1336
GBC-N21	Sony Corporation	VGN-SZ44GN	jkarten	2/05/2007
				Inv. 1342
GBC-N22	Sony Corporation	VGN-SZ44GN	hdoobins	23/05/2007
				Inv. 1336
GBC-N24	Sony Corporation	VGN-SZ453N	olundberg	2/05/2007
		HP Compaq nc6400		Inv. 1486
GBC-N25	Hewlett-Packard	(RM742PA#ABG)	Spare - not used	25/10/2007
				Inv. 1524
GBC-N26	Hewlett-Packard	6715B	ssingh	5/11/2007
				Inv. 1546
GBC-N27	Hewlett-Packard	6715B	sseghal	16/01/2008
				Inv. 1579
GBC-N29	Hewlett-Packard	HP Compaq 6710b	hditton	15/02/2008
				Inv. 1595
GBC-N30	Hewlett-Packard	HP Compaq 6710b	sbrincat	25/02/2008
				Inv. 1595
GBC-N31	Hewlett-Packard	HP Compaq 6710b	jchapa	25/02/2008
				Inv. 1596
GBC-N32	Hewlett-Packard	HP Compaq 6710b	aburega	11/03/2008
			Spare – Natasha	Inv. 1596
GBC-N33	Hewlett-Packard	HP Compaq 6710b	uses	11/03/2008
				Inv. 1596
GBC-N35	Hewlett-Packard	HP Compaq 6710b	cteuffer	11/03/2008
				Inv. 1597
GBC-N36	TOSHIBA	PORTEGE M600	clane	13/03/2008
				Inv. 1674
GBC-N41	TOSHIBA	PORTEGE M600	sthatccher	15/06/2008
				Inv. 1577
GBC-N42	TOSHIBA	PORTEGE R500	rmadew	1/05/2008
				Inv. 1674
GBC-N43	TOSHIBA	PORTEGE M600	lharman	15/06/2008
				Inv. 1596
GBC-N45	Hewlett-Packard	HP Compaq 6710b	sransom	11/03/2008
				Inv. 1644
GBC-N46	Hewlett-Packard	HP Compaq 6710b	amalamiri	21/04/2008
				Inv. 1840
GBC-N47	Hewlett-Packard	6910P	rmellon	15/10/2008
				Inv. 1260
GBC-N49	Sony Corporation	VGN-TX47GP_W	fromano	1/02/2007
GBC-W01	Hewlett-Packard	HP d240 MT(PC852PA)	brandoleys	Unknown
GBC-W02	Hewlett-Packard	HP dx2000 MT(PK010PA)	accounts	Unknown

GBC-W04	Compaq	Evo D320	reception - spare now	Unknown
GBC-W05	Compaq	Evo D320	spiper	Unknown Inv. 1399
GBC-W06	Hewlett-Packard	DC7700	ymenezes	10/07/2007 Inv. 1399
GBC-W07	Hewlett-Packard	DC7700	resquivel	10/07/2007 Inv. 1401
GBC-W08	Hewlett-Packard	DC7700	jmcfarlane	25/07/2007 Inv 1401
GBC-W09	Hewlett-Packard	DC7700	Spare - volunteers	25/07/2007 Inv 1432
GBC-W10	Hewlett-Packard	DC7700	mgame	24/08/2007 Inv. 1432
GBC-W11	Hewlett-Packard	DC7700	sreis	24/08/2007 Inv. 1432
GBC-W12	Hewlett-Packard	DC7700	judith	24/08/2007 Inv. 1857
GBC-W13	Hewlett-Packard	DC7800p	ajansz	23/10/2008

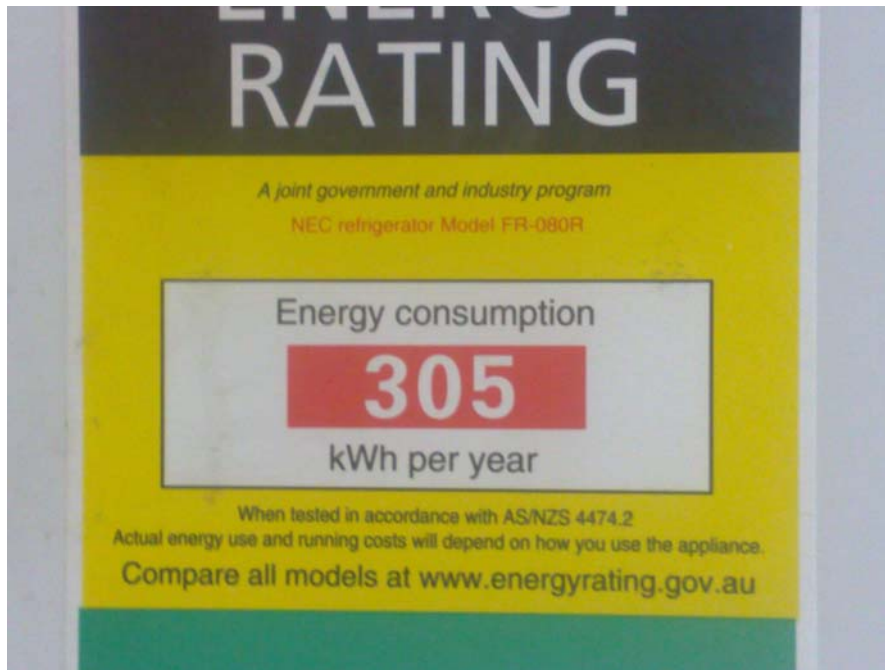
Yellow Highlighting denotes notebook computers – 31
 There are 12 desktop computers
 Invoices for each computer included in Ene-1: 2

Energy Rating for Refrigerators:

Samsung SR228NME. Quantity – 1 (brought from previous tenancy)



NEC FR-080R. Quantity – 3 (listed above in Equipment Schedule as J06)



ibtho

Unit 1, 36 Campbell Avenue

Dee Why NSW 2099

Tax Invoice

Invoice #: 00001129

A.B.N.: 71 095 139 450

Bill To:

A.C.N.: 095 132 945

Ship To:

Green Building Council

Level 15, 179 Elizabeth St

Sydney NSW 2000

Green Building Council

Level 4 249 Pitt Street

Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA		COLPPD	SHIP DATE		TERMS		DATE		PG.
									Net 30th after EOM		8/09/2006		1
QTY.	ITEM NO.		DESCRIPTION				PRICE		UNIT	DISC %	EXTENDED		CODE
2	SNV1028		Sony Intel Core Solo U1400				\$3,625.00				\$7,250.00		GST
2	SNV0063		VGPAC16V8 AC Adaptor tx Series				\$195.00				\$390.00		GST
2	SNV0070		VAIO Port Replicator TX Series				\$355.00				\$710.00		GST
2	SNV0172		VAIO TX Series Soft Carry Case				\$55.00				\$110.00		GST
2	0em6105		Microsoft Office SBE OEM				\$385.00				\$770.00		GST
COMMENT			COD	RATE	GST		SALE AMOUNT		SALE AMOUNT		\$9,230.00		
			GST	10%	\$843.09		\$8,430.91		FREIGHT		\$44.00		GST
									GST		\$843.09		
									TOTAL		\$9,274.00		
									PAID TODAY		\$9,274.00		
Customer ABN:									BALANCE DUE		\$0.00		

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001226

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		11/12/2006	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
2	SNV1041	Intel Core ,Solo,U1400 1.20Ghz			\$3,595.00			\$7,190.00	GST
2	SNV0063	VGPAC16V8 AC Adaptor tx Series			\$195.00			\$390.00	GST
2	SNV0070	VAIO Port Replicator TX Series			\$355.00			\$710.00	GST
3	SNV0172	VAIO TX Series Soft Carry Case			\$55.00			\$165.00	GST
2	SNV1034	VGNSZ34GP 13.3" lcd Dual Core			\$2,965.00			\$5,930.00	GST
2	SNV1912	VGPAC19V12 SZ & FE AC Supply			\$170.00			\$340.00	GST
2	VGPPRSZ1	VGPPRSZ1 SZ Port Replicator			\$365.00			\$730.00	GST
2	SNV0980	VGPCP8 SZ SOFT CASE			\$70.00			\$140.00	GST
5	LOG3534	V270 Bluetooth Notebook Mouse			\$70.00			\$350.00	GST
4	OEM1462	MSOEM Multimedia Keyboard			\$50.00			\$200.00	GST
4	0em6105	Microsoft Office SBE OEM			\$385.00			\$1,540.00	GST
4	SAM1950	940N 19" TFT Simple Stand			\$415.00			\$1,660.00	GST
1	NTG7338	WAG302 ProSafe Dual Band			\$595.00			\$595.00	GST
1	Link5psw	Linksys 5 port switch			\$85.00			\$85.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$20,025.00	
		GST	10%	\$1,828.45	\$18,284.55	FREIGHT		\$88.00	GST
						GST		\$1,828.45	
						TOTAL		\$20,113.00	
						PAID TODAY		\$20,113.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibtho
Unit 1, 36 Campbell Avenue
Dee Why NSW 2099

Tax Invoice

Invoice #: 00001260

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
							Net 30th after EOM		1/02/2007	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE	
1	SNV1041	Intel Core ,Solo,U1400 1.20Ghz			\$3,595.00			\$3,595.00	GST	
1	SNV1912	VGPAC19V12 SZ & FE AC Supply			\$195.00			\$195.00	GST	
1	VGPPRSZ1	VGPPRSZ1 SZ Port Replicator			\$355.00			\$355.00	GST	
1	SNV0980	VGPCP8 SZ SOFT CASE			\$55.00			\$55.00	GST	
1	0em6105	Microsoft Office SBE OEM			\$385.00			\$385.00	GST	
1	LOG3534	V270 Bluetooth Notebook Mouse			\$70.00			\$70.00	GST	
1	MST8344	MS Digital Media Pro Keyboard			\$55.00			\$55.00	GST	
1	SAM1927	940B 19" TFT THIN Bezel Black			\$415.00			\$415.00	GST	
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$5,125.00		
		GST	10%	\$467.73	\$4,677.27	FREIGHT		\$20.00	GST	
						GST		\$467.73		
						TOTAL		\$5,145.00		
						PAID TODAY		\$5,145.00		
Customer ABN:						BALANCE DUE		\$0.00		

ibtho

Unit 1, 36 Campbell Avenue
Dee Why NSW 2099

Tax Invoice

Invoice #: 00001277

A.B.N.: 71 095 139 450

Bill To:

A.C.N.: 095 132 945

Ship To:

Green Building Council

Level 15, 179 Elizabeth St

Sydney NSW 2000

Green Building Council

Level 4 249 Pitt Street

Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA		COLPPD	SHIP DATE	TERMS		DATE	PG.
								Net 30th after EOM		26/03/2007	1
QTY.	ITEM NO.	DESCRIPTION				PRICE	UNIT	DISC %	EXTENDED	CODE	
1	SNV1071	VGNSZ44GNB C2D/1.83/100				\$2,935.00			\$2,935.00	GST	
1	SNV0341	VGPPRSZ1 SZ PORT REPLICA				\$365.00			\$365.00	GST	
1	SNV1912	VG PAC19V12 SZ & FE AC Supply				\$170.00			\$170.00	GST	
1	SNV0321	VG PCKSZ1 SZ Semi Hard Case				\$110.00			\$110.00	GST	
1	SAM1927	940B 19" TFT THIN Bezel Black				\$415.00			\$415.00	GST	
1	0em6105	Microsoft Office SBE OEM				\$385.00			\$385.00	GST	
1	LOG3534	V270 Bluetooth Notebook Mouse				\$70.00			\$70.00	GST	
COMMENT		COD	RATE	GST		SALE AMOUNT	SALE AMOUNT		\$4,450.00	GST	
		GST	10%	\$407.55		\$4,075.45	FREIGHT		\$33.00		
							GST		\$407.55		
							TOTAL		\$4,483.00		
							PAID TODAY		\$4,483.00		
Customer ABN:							BALANCE DUE		\$0.00		

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001336

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		2/05/2007	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
3	SAM2195	940B 19" TFT Thin Bezel Silver			\$415.00			\$1,245.00	GST
2	SNV1072	VGNTX57GNB CS/1.33/80/1G			\$3,585.00			\$7,170.00	GST
2	SNV0170	Vaio TX Series SemiHard Case			\$85.00			\$170.00	GST
2	KNM0247	1GB DDR2-533 SODIMM			\$175.00			\$350.00	GST
2	SNV0063	VGPAC16V8 AC Adaptor tx Series			\$185.00			\$370.00	GST
2	SNV0070	VAIO Port Replicator TX Series			\$355.00			\$710.00	GST
4	SNV0151	VAIO Courier Pickup Ex Warr			\$475.00			\$1,900.00	GST
3	LOG3534	V270 Bluetooth Notebook Mouse			\$70.00			\$210.00	GST
1	OEM6141	MS Office SBE OEM 3 Pack			\$1,155.00			\$1,155.00	GST
1	OEM1462	MSOEM 3PK Black Value Pack			\$150.00			\$150.00	GST
1	SNV1074	VGNSZ48GN/C 2D/2.00/160/1G			\$3,625.00			\$3,625.00	GST
1	KNM1506	1GB DDR2-667 SODIMM			\$175.00			\$175.00	GST
1	SNV0341	VGPPRSZ1 SZ PORT REPLICA			\$365.00			\$365.00	GST
1	SNV1912	VGPAC19V12 SZ & FE AC Supply			\$170.00			\$170.00	GST
1	SNV0321	VGPKCSZ1 SZ Semi Hard Case			\$110.00			\$110.00	GST
3	KEN0170	SLIM MICROSAVER NOTEBOOK			\$80.00			\$240.00	GST
1	APC5734	APC Smart-UPS XL 2200VA RM			\$2,645.00			\$2,645.00	GST
1	APC1361	APC SMART-UPS XL 48V RM			\$1,385.00			\$1,385.00	GST
1	HPE7006	PROCURVE SWITCH 2650			\$1,475.00			\$1,475.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$23,620.00	
		GST	10%	\$2,155.27	\$21,552.73	FREIGHT		\$88.00	GST
						GST		\$2,155.27	
						TOTAL		\$23,708.00	
						PAID TODAY		\$23,708.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001342

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 4 249 Pitt Street
Sydney NSW 20001 computer sent to
Melbourne Office

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		23/05/2007	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
2	SNV1071	VGNSZ44GNB C2D/1.83/100			\$2,885.00			\$5,770.00	GST
2	KNM1506	1GB DDR2-667 SODIMM			\$175.00			\$350.00	GST
2	SNV0341	VGPPRSZ1 SZ PORT REPLICA			\$365.00			\$730.00	GST
2	SNV1912	VGPAC19V12 SZ & FE AC Supply			\$170.00			\$340.00	GST
2	SNV0321	VGPKSZ1 SZ Semi Hard Case			\$110.00			\$220.00	GST
2	SNV0151	VAIO Courier Pickup Ex Warr			\$475.00			\$950.00	GST
2	0em6105	Microsoft Office SBE OEM			\$375.00			\$750.00	GST
2	SAM2195	940B 19" TFT Thin Bezel Silver			\$415.00			\$830.00	GST
2	LOG3534	V270 Bluetooth Notebook Mouse			\$70.00			\$140.00	GST
2	KEN0170	SLIM MICROSAVER NOTEBOOK			\$80.00			\$160.00	GST
1	OEM1462	MSOEM 3PK Black Value Pack			\$150.00			\$150.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$10,390.00	
		GST	10%	\$950.55	\$9,505.45	FREIGHT		\$66.00	GST
						GST		\$950.55	
						TOTAL		\$10,456.00	
						PAID TODAY		\$10,456.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001399

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		10/07/2007	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
1	SAM2195	940B 19" TFT Thin Bezel Silver			\$375.00			\$375.00	GST
2	HCP0125	DC7700 SFF ICD 1.86/1GB/			\$1,535.00			\$3,070.00	GST
2	0em6140	Microsoft Office SBE 2003 OEM			\$375.00			\$750.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$4,195.00	
		GST	10%	\$385.36	\$3,853.64	FREIGHT		\$44.00	GST
						GST		\$385.36	
						TOTAL		\$4,239.00	
						PAID TODAY		\$4,239.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001401

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 4 249 Pitt Street
Sydney NSW 20001 computer sent to
Melbourne Office

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		25/07/2007	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
1	SAM2195	940B 19" TFT Thin Bezel Silver			\$375.00			\$375.00	GST
2	HCP0125	DC7700 SFF ICD 1.86/1GB/			\$1,535.00			\$3,070.00	GST
3	0em6140	Microsoft Office SBE 2003 OEM			\$375.00			\$1,125.00	GST
1	SNV0151	VAIO Courier Pickup Ex Warr			\$435.00			\$435.00	GST
1	SNV1023	VGNSZ453N C2D 2.0/1GB			\$2,845.00			\$2,845.00	GST
1	KNM1506	1GB DDR2-667 SODIMM			\$175.00			\$175.00	GST
1	SNV0321	VGPKSZ1 SZ Semi Hard			\$125.00			\$125.00	GST
		Case							
1	KEN0170	SLIM MICROSAVER			\$80.00			\$80.00	GST
		NOTEBOOK							
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$8,230.00	
		GST	10%	\$752.18	\$7,521.82	FREIGHT		\$44.00	GST
						GST		\$752.18	
						TOTAL		\$8,274.00	
						PAID TODAY		\$8,274.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibtho
Unit 1, 36 Campbell Avenue
Dee Why NSW 2099

Tax Invoice

Invoice #: 00001432

Bill To: A.B.N.: 71 095 139 450
 A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		24/08/2007	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
2	SAM2195	940B 19" TFT Thin Bezel Silver			\$375.00			\$750.00	GST
3	HCP0125	DC7700 SFF ICD 1.86/1GB/			\$1,535.00			\$4,605.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$5,355.00	
		GST	10%	\$492.82	\$4,928.18	FREIGHT		\$66.00	GST
						GST		\$492.82	
						TOTAL		\$5,421.00	
						PAID TODAY		\$5,421.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001486

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		25/10/2007	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
1	RM742PA	HP Compaq nc6400 T5500			\$2,145.00			\$2,145.00	GST
1	EM994AA	HP 1GB DDR2 PC2-5300			\$120.00			\$120.00	GST
1	EN488AA	HP Docking Station 1.1			\$225.00			\$225.00	GST
1	MSM2103	MS Office Prof AE License			\$135.00			\$135.00	GST
1									
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$2,625.00	
		GST	10%	\$241.64	\$2,416.36	FREIGHT		\$33.00	GST
						GST		\$241.64	
						TOTAL		\$2,658.00	
						PAID TODAY		\$2,658.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001524

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		5/11/2007	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
1	HCN0187	HP 6715B TURION 2.2GHZ			\$1,495.00			\$1,495.00	GST
1	HCN1070	HP 1Gb DDRII 667MHz			\$115.00			\$115.00	GST
1	SAM2195	940B 19" TFT Thin Bezel Silver			\$375.00			\$375.00	GST
1	LOG3661	V470 Bluetooth Mouse White			\$70.00			\$70.00	GST
1	SNV0063	VGPAC16V8 AC Adaptor tx Series			\$185.00			\$185.00	GST
2	KEN3418	Microsaver Notebook lock			\$85.00			\$170.00	GST
1	OEM1462	MSOEM 3PK Black Value Pack			\$150.00			\$150.00	GST
1	MSM2103	MS Office Prof AE License			\$135.00			\$135.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$2,695.00	
		GST	10%	\$248.00	\$2,480.00	FREIGHT		\$33.00	GST
						GST		\$248.00	
						TOTAL		\$2,728.00	
						PAID TODAY		\$2,728.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001546

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA		COLPPD	SHIP DATE		TERMS		DATE	PG.	
									Net 30th after EOM		16/01/2008	1	
QTY.	ITEM NO.		DESCRIPTION				PRICE		UNIT	DISC %	EXTENDED		CODE
1	HCN0188		HP 6715B TURION 2.2GHZ				\$1,425.00				\$1,425.00		GST
1	HCN1070		HP 1Gb DDRII 667MHz				\$115.00				\$115.00		GST
1	SAM2195		940B 19" TFT Thin Bezel Silver				\$375.00				\$375.00		GST
1	HCN1001		KENSINGTON LOCK				\$85.00				\$85.00		GST
1	OEM1462		MSOEM 3PK Black Value Pack				\$150.00				\$150.00		GST
1	MSM2103		MS Office Prof AE License				\$135.00				\$135.00		GST
1	MSM2114		Project 2007 Eng AE				\$130.00				\$130.00		GST
COMMENT			COD	RATE	GST		SALE AMOUNT		SALE AMOUNT		\$2,415.00		
			GST	10%	\$222.55		\$2,225.45		FREIGHT		\$33.00		GST
									GST		\$222.55		
									TOTAL		\$2,448.00		
									PAID TODAY		\$2,448.00		
Customer ABN:									BALANCE DUE		\$0.00		

ibtho
Unit 1, 36 Campbell Avenue
Dee Why NSW 2099

Tax Invoice

Invoice #: 00001577

Bill To: A.B.N.: 71 095 139 450
 A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA		COLPPD	SHIP DATE	TERMS		DATE	PG.
								Net 30th after EOM		1/05/2008	1
QTY.	ITEM NO.	DESCRIPTION				PRICE	UNIT	DISC %	EXTENDED	CODE	
1	TOS2960	PORTEGE R500 IC2D ULV7600				\$3,235.00	1		\$3,235.00	GST	
1	TOS3168	Tosiba Slim Port Rep R500				\$185.00	1		\$185.00	GST	
1	TOS10045	TOSHIBA DDR2-667 1GB				\$125.00	1		\$125.00	GST	
1	LOG3661	V470 Bluetooth Mouse White				\$55.00			\$55.00	GST	
1	TOS2304	KENSINGTON SLIM M/SAVER				\$75.00	1		\$75.00	GST	
1	TOS3245	TOSHIBA 3-PIN AC Adaptor				\$75.00	1		\$75.00	GST	
1	MSM2103	MS Office Prof AE License				\$135.00			\$135.00	GST	
1	MSM2114	Project 2007 Eng AE				\$130.00			\$130.00	GST	
COMMENT		COD GST	RATE 10%	GST \$369.00		SALE AMOUNT \$3,690.00	SALE AMOUNT FREIGHT GST TOTAL PAID TODAY		\$4,015.00 \$44.00 \$369.00 \$4,059.00 \$4,059.00	GST	
Customer ABN:							BALANCE DUE		\$0.00		

ibtho
Unit 1, 36 Campbell Avenue
Dee Why NSW 2099

Tax Invoice

Invoice #: 00001579

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

Green Building Council
Level 4 249 Pitt Street
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		15/02/2008	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
1	hcn0361	6710B + SYM9776 NIS08			\$1,595.00			\$1,595.00	GST
1	HCN1070	HP 1Gb DDRII 667MHz			\$115.00			\$115.00	GST
1	HCN1001	KENSINGTON LOCK			\$85.00			\$85.00	GST
1	MSM2103	MS Office Prof AE License			\$135.00			\$135.00	GST
1	LOG3661	V470 Bluetooth Mouse White			\$70.00			\$70.00	GST
1	HPW9378	HP 3y NextBusDayOnsite			\$190.00			\$190.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$2,190.00	
		GST	10%	\$202.09	\$2,020.91	FREIGHT		\$33.00	GST
						GST		\$202.09	
						TOTAL		\$2,223.00	
						PAID TODAY		\$2,223.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibtho
Unit 1, 36 Campbell Avenue
Dee Why NSW 2099

Tax Invoice

Invoice #: 00001595

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA		COLPPD	SHIP DATE	TERMS		DATE	PG.
								Net 30th after EOM		25/02/2008	1
QTY.	ITEM NO.	DESCRIPTION				PRICE	UNIT	DISC %	EXTENDED	CODE	
2	hcn0361	6710B + SYM9776 NIS08				\$1,595.00			\$3,190.00	GST	
2	HCN1070	HP 1Gb DDRII 667MHz				\$115.00			\$230.00	GST	
2	HCN1001	KENSINGTON LOCK				\$85.00			\$170.00	GST	
2	MSM2103	MS Office Prof AE License				\$135.00			\$270.00	GST	
2	SAM3943	943B 19" BLACK,ULTRA				\$345.00			\$690.00	GST	
2	LOG3661	V470 Bluetooth Mouse White				\$70.00			\$140.00	GST	
2	HPW9378	HP 3y NextBusDayOnsite				\$235.00			\$470.00	GST	
COMMENT		COD	RATE	GST		SALE AMOUNT	SALE AMOUNT		\$5,160.00	GST	
		GST	10%	\$473.09		\$4,730.91	FREIGHT		\$44.00		
							GST		\$473.09		
							TOTAL		\$5,204.00		
							PAID TODAY		\$5,204.00		
Customer ABN:							BALANCE DUE		\$0.00		

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001596

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		11/03/2008	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
4	hcn0361	6710B + SYM9776 NIS08			\$1,595.00			\$6,380.00	GST
4	HCN1070	HP 1Gb DDRII 667MHz			\$115.00			\$460.00	GST
4	HCN1001	KENSINGTON LOCK			\$85.00			\$340.00	GST
4	MSM2103	MS Office Prof AE License			\$135.00			\$540.00	GST
4	SAM3943	943B 19" BLACK,ULTRA			\$345.00			\$1,380.00	GST
4	LOG3661	V470 Bluetooth Mouse White			\$70.00			\$280.00	GST
4	HPW9378	HP 3y NextBusDayOnsite			\$235.00			\$940.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$10,320.00	
		GST	10%	\$944.18	\$9,441.82	FREIGHT		\$66.00	GST
						GST		\$944.18	
						TOTAL		\$10,386.00	
						PAID TODAY		\$10,386.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001597

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
							Net 30th after EOM		13/03/2008	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE	
1	TOS15400	Portege M600 C2D 2.4GHZ			\$2,265.00	1		\$2,265.00	GST	
1	KNM3640	Kingston 1gb RAM M600			\$75.00			\$75.00	GST	
1	TOS3475	Dynadock Port Replicator			\$245.00			\$245.00	GST	
1	TOS2304	KENSINGTON SLIM M/SAVER			\$85.00			\$85.00	GST	
1	MSM2103	MS Office Prof AE License			\$135.00			\$135.00	GST	
1	SAM3943	943B 19" BLACK,ULTRA			\$345.00			\$345.00	GST	
1	LOG3661	V470 Bluetooth Mouse White			\$70.00			\$70.00	GST	
1	TOS0012	TOSHIBA 3 YEARS OF ON-SITE			\$180.00			\$180.00	GST	
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$3,400.00	GST	
		GST	10%	\$312.09	\$3,120.91	FREIGHT		\$33.00		
						GST		\$312.09		
						TOTAL		\$3,433.00		
						PAID TODAY		\$3,433.00		
Customer ABN:						BALANCE DUE		\$0.00		

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001644

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 20001 computer sent to
Melbourne Office

SALESPERSON		YOUR NO.		SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
							Net 30th after EOM		21/04/2008	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE	
2	hcn0404	HP 6710B T8100 Bundle			\$1,295.00			\$2,590.00	GST	
2	HCN1070	HP 1Gb DDRII 667MHz			\$115.00			\$230.00	GST	
2	HCN1001	KENSINGTON LOCK			\$85.00			\$170.00	GST	
2	MSM2103	MS Office Prof AE License			\$135.00			\$270.00	GST	
2	SAM3943	943B 19" BLACK,ULTRA			\$345.00			\$690.00	GST	
2	LOG3661	V470 Bluetooth Mouse White			\$70.00			\$140.00	GST	
2	HPW9378	HP 3y NextBusDayOnsite			\$235.00			\$470.00	GST	
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$4,560.00		
		GST	10%	\$418.55	\$4,185.45	FREIGHT		\$44.00	GST	
						GST		\$418.55		
						TOTAL		\$4,604.00		
						PAID TODAY		\$4,604.00		
Customer ABN:						BALANCE DUE		\$0.00		

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001674

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

SALESPERSON		YOUR NO.	SHIP VIA	COLPPD	SHIP DATE	TERMS		DATE	PG.
						Net 30th after EOM		15/06/2008	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	CODE
2	TOS1592	Portege M600+2GB+Case			\$1,950.00	1		\$3,900.00	GST
2	TOS0012	TOSHIBA 3 YEARS OF ON-SITE			\$180.00			\$360.00	GST
2	SAM3943	943B 19" BLACK,ULTRA			\$345.00			\$690.00	GST
2	MSM2103	MS Office Prof AE License			\$135.00			\$270.00	GST
2	TOS2304	KENSINGTON SLIM M/SAVER			\$85.00			\$170.00	GST
2	LOG3661	V470 Bluetooth Mouse White			\$70.00			\$140.00	GST
COMMENT		COD	RATE	GST	SALE AMOUNT	SALE AMOUNT		\$5,530.00	
		GST	10%	\$506.73	\$5,067.27	FREIGHT		\$44.00	GST
						GST		\$506.73	
						TOTAL		\$5,574.00	
						PAID TODAY		\$5,574.00	
Customer ABN:						BALANCE DUE		\$0.00	

ibthoUnit 1, 36 Campbell Avenue
Dee Why NSW 2099**Tax Invoice**

Invoice #: 00001840

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA		COLPPD	SHIP DATE		TERMS		DATE		PG.
									Net 30th after EOM		15/10/2008		1
QTY.	ITEM NO.		DESCRIPTION				PRICE		UNIT	DISC %	EXTENDED		CODE
1	hcn0420		HP 6910p C2D T9300				\$2,425.00				\$2,425.00		GST
COMMENT			COD	RATE	GST		SALE AMOUNT		SALE AMOUNT		\$2,425.00		GST
robin			GST	10%	\$223.45		\$2,234.55		FREIGHT		\$33.00		
									GST		\$223.45		
									TOTAL		\$2,458.00		
									PAID TODAY		\$2,458.00		
Customer ABN:									BALANCE DUE		\$0.00		

ibtho
Unit 1, 36 Campbell Avenue
Dee Why NSW 2099

Tax Invoice

Invoice #: 00001857

Bill To: A.B.N.: 71 095 139 450
A.C.N.: 095 132 945

Ship To:

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

Green Building Council
Level 15, 179 Elizabeth St
Sydney NSW 2000

SALESPERSON		YOUR NO.		SHIP VIA		COLPPD	SHIP DATE		TERMS		DATE		PG.
									Net 30th after EOM		23/10/2008		1
QTY.	ITEM NO.		DESCRIPTION				PRICE		UNIT	DISC %	EXTENDED		CODE
1 1	HCP6836 SAM2243		DC7800 USDT E8300 2.8GHz 2243BW 22"W BLACK/5MS				\$1,245.00 \$325.00				\$1,245.00 \$325.00		GST GST
COMMENT			COD	RATE	GST		SALE AMOUNT		SALE AMOUNT		\$1,570.00		GST
robin			GST	10%	\$145.73		\$1,457.27		FREIGHT		\$33.00		
									GST		\$145.73		
									TOTAL		\$1,603.00		
									PAID TODAY		\$1,603.00		
Customer ABN:									BALANCE DUE		\$0.00		



BlighVollerNieldArchitecture

Telephone +61 3 9639 9199
Facsimile +61 3 9639 9188
www.bvn.com.au

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ISSUE	DATE	FOR
01	05.11.07	PRICING
A	09.11.07	FOR CONSTRUCTION
B	13.11.07	CODE CHANGED

CONSULTANT
DAVIS LANGDON
tel 02 9956 8822 fax 02 9956 8848
CONSULTANT
LINCOLNE SCOTT
tel 02 8907 0900 fax 02 9957 4127
CLIENT

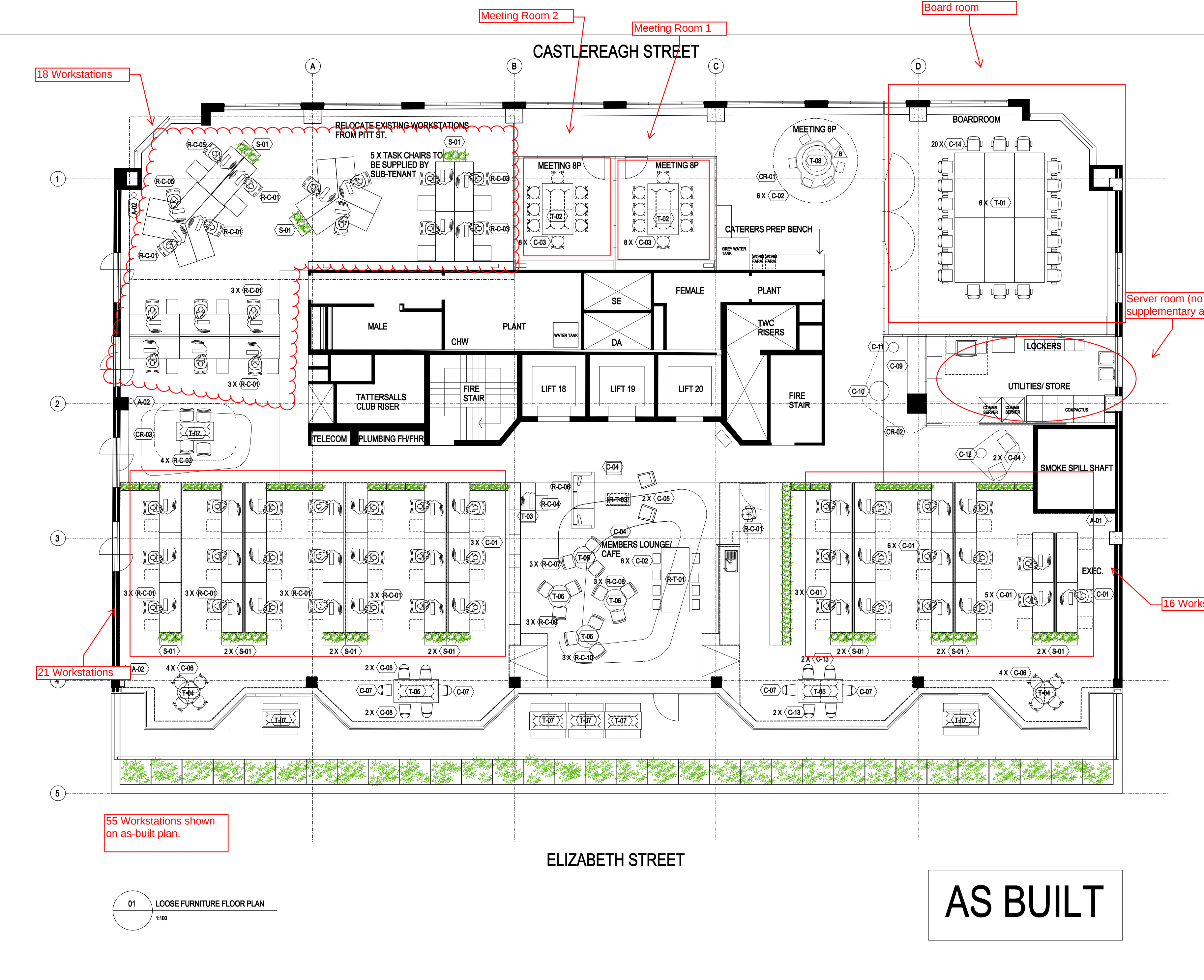
GBCA
L15, 179 ELIZABETH STREET
SYDNEY NSW 2000
CLIENT PROJECT No.

PROJECT
**GREEN BUILDING COUNCIL
OF AUSTRALIA**
BVN PROJECT NUMBER

M0709010
TRUE NORTH PROJECT NORTH
GRAPHIC SCALE
0 2000 5000
SCALE
1:100 at A2 DO NOT SCALE
STATUS

CONSTRUCTION
DRAWING

**LOOSE FURNITURE
FLOOR PLAN**
DRAWING NUMBER ISSUE
CD-S-01 B



55 Workstations shown
on as-built plan.

Server room (no
supplementary air)

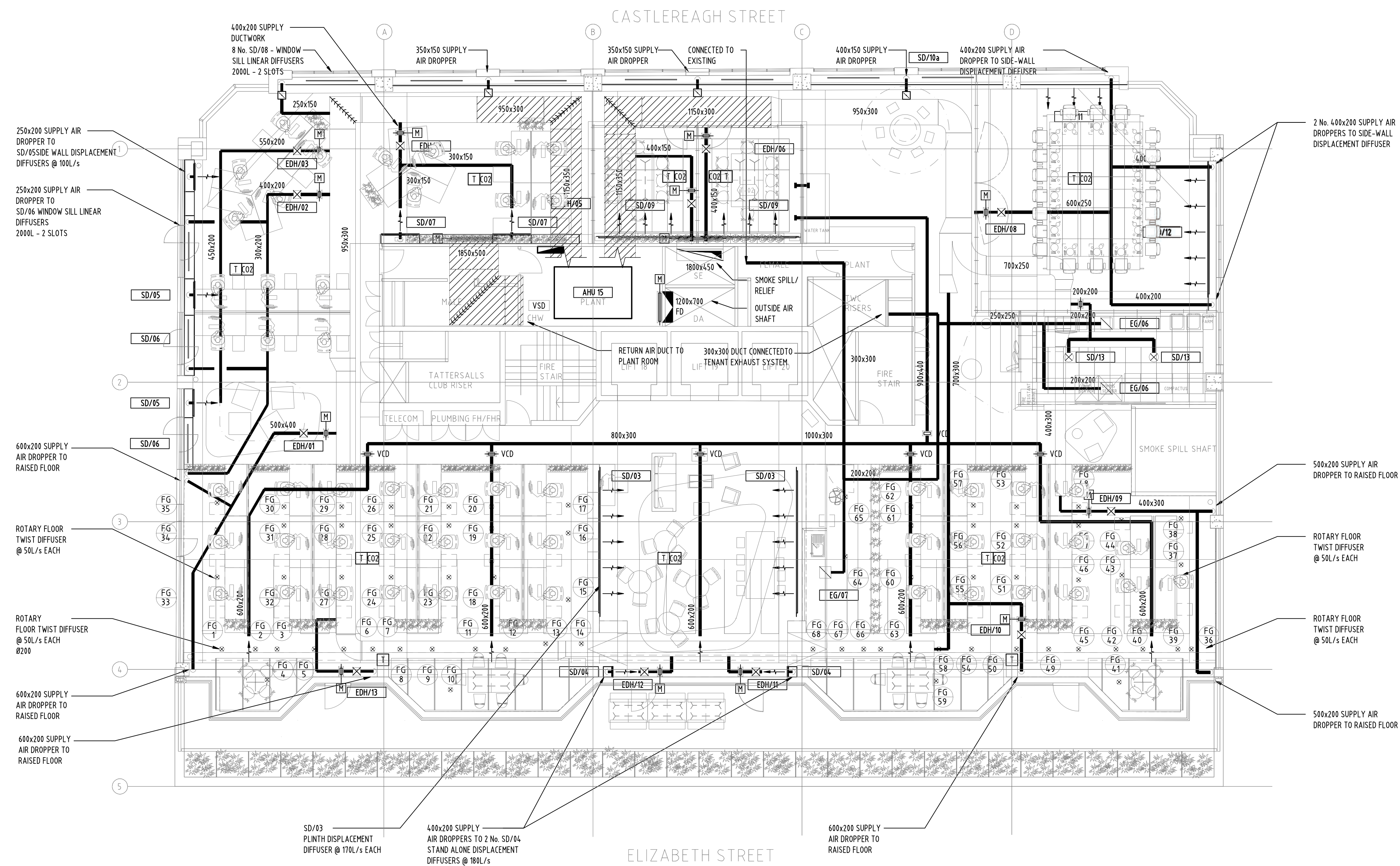
16 Workstations

18 Workstations

21 Workstations

01 LOOSE FURNITURE FLOOR PLAN
1:100

AS BUILT



LEGEND

- Ax8 RECTANGULAR DUCTWORK
- SUPPLY AIR DUCTWORK
- RETURN AIR DUCTWORK
- EXHAUST AIR DUCTWORK
- C DROPPER
- SD/xx STAND ALONE DISPLACEMENT DIFFUSER
- SD/xx SIDE WALL DISPLACEMENT DIFFUSER
- SD/xx SWIRL DIFFUSER
- EG/xx ROTARY FLOOR DIFFUSER
- EG/xx RETURN/EXHAUST AIR GRILLE
- FD FIRE DAMPER
- VCD VOLUME CONTROL DAMPER
- M MOTORISED DAMPER
- EDH/xx ELECTRICAL DUCT HEATER
- T TEMPERATURE SENSOR
- CO2 CO2 SENSOR
- DB DISTRIBUTION BOARD
- FG 48 FLOOR DIFFUSER NO.



Rev	Description	By	Date
A	AS BUILT	ENR/VEL	11.03.2009

CONSULTANT

Lincolne Scott

Consulting Engineers
Adelaide Auckland Bangkok
Brisbane Cairns Hong Kong
Melbourne Perth Shanghai
Singapore Sydney

Level 14 40 Midmore Street
PO Box 2000 North Sydney
New South Wales 1585 Australia
Telephone 61 6 955 9999
Facsimile 61 6 955 9998
enquiries@lincolnescott.com

JLW

ESTABLISHED 1875
JAMES L. WILLIAMS PTY. LTD.

ACN 004 122 650
AIR CONDITIONING & MECHANICAL CONTRACTORS

SYDNEY
UNIT 10 CENTURY ESTATE
478 GARDENERS ROAD
ALEXANDRIA NSW 2015
P.O.BOX 636
ROSEBERY NSW 1445
TELEPHONE (02) 9313 5911
FACSIMILE (02) 9313 5613

BRISBANE
MOUNT ISA
MELBOURNE
HEAD OFFICE

CLIENT

GBCA

Project

**LEVEL 15
179 ELIZABETH STREET
SYDNEY NSW 2000**

Drawing Title

**DUCTWORK LAYOUT
L15**

CAD File	Drawn	Rev
Coordinated	Scale 1:100 @A1	
Project Architect	Date 11-03-09	
Project Director		
PTW Project No.	Drawing Number	
JLW Project No.	ST 236-M01 A	A
ST 236		

AS BUILT

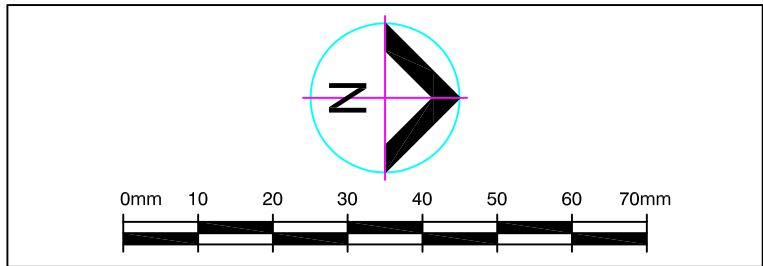
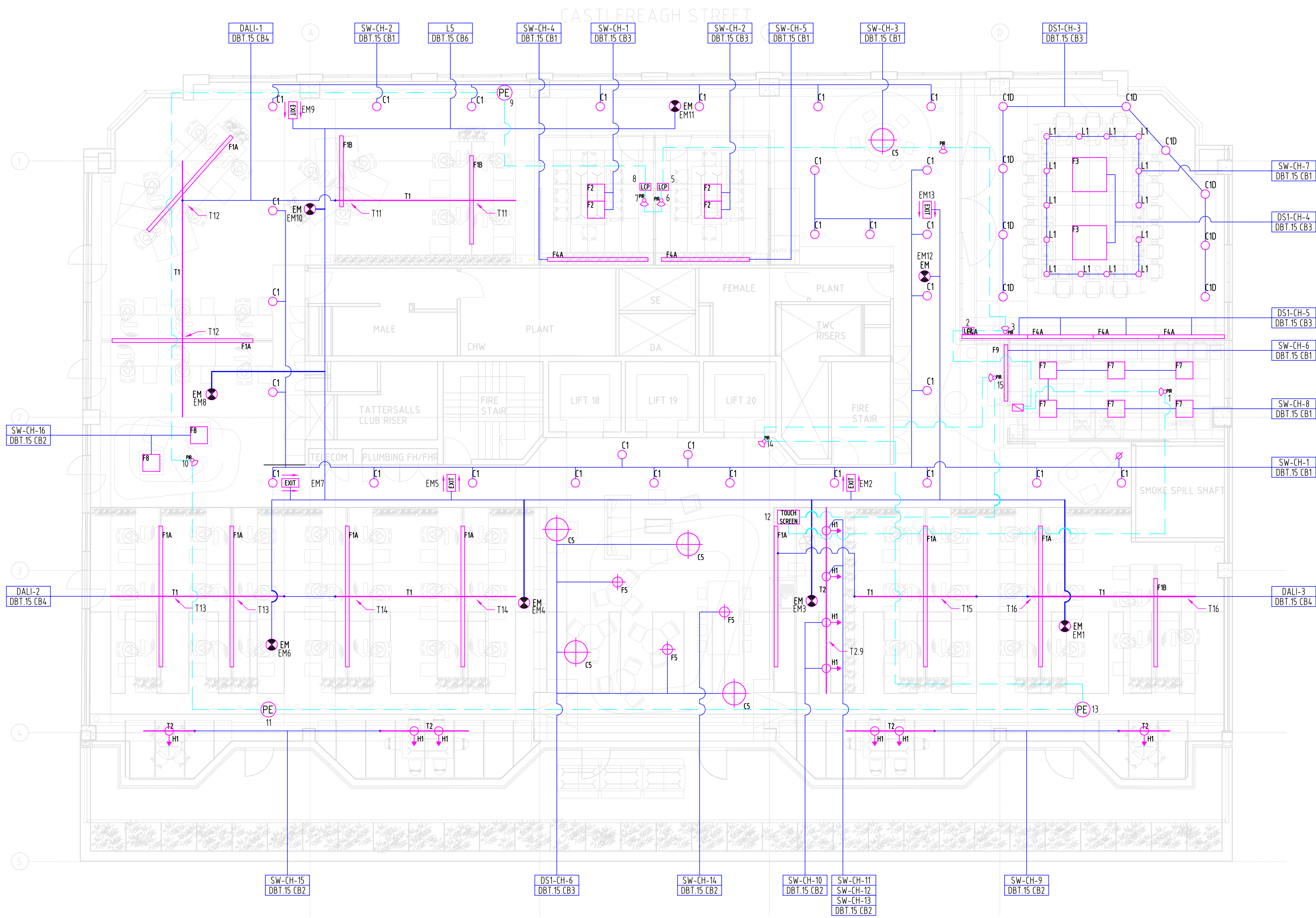
DATE	REV	AMENDMENT	BY	CHKD
19.10.07	A	TENDER	MPB	ASD
12.11.07	B	CONSTRUCTION ISSUE	MPB	ASD
27.02.08	C	AS INSTALLED ISSUE	TC	

NOTES

1. ——— DYNALITE CONTROL 'LOOP' CCT

COMPONENT	SERIAL NO.
1	430746
2	426490
3	424664
4	430678
5	426489
6	424663
7	419157
8	426488
9	428148
10	430745
11	430745
12	
13	428147
14	430679
15	424665

CIRCUIT	...	...	CHANNEL	...
DBT.15 CB1	L1	8.8A	SW-CH-1	4.76A
			SW-CH-2	15A
			SW-CH-3	0.3A
			SW-CH-4	0.35A
			SW-CH-5	0.35A
			SW-CH-6	0.3A
			SW-CH-7	0.175A
			SW-CH-8	1.05A
DBT.15 CB2	L2	2.08A	SW-CH-9	0.43A
			SW-CH-10	0.3A
			SW-CH-11	0.10A
			SW-CH-12	0.10A
			SW-CH-13	0.10A
			SW-CH-14	0.16A
			SW-CH-15	0.43A
			SW-CH-16	0.46A
DBT.15 CB3	L3	9.8A	DS1-CH-1	1A
			DS1-CH-2	1A
			DS1-CH-3	3A
			DS1-CH-4	2A
			DS1-CH-5	1A
DBT.15 CB4	L4	12A	DS1-CH-6	1.6A
			DALI-1	4A
			DALI-2	4A
DBT.15 CB6	L5		DALI-3	4A





ELECTRICAL DATA COMMUNICATIONS

Unit 1, 9-11 Chaplin Drive
Lane Cove NSW 2086

Phone: + 61 2 9422 4444
Fax: + 61 2 9422 4400



Consulting Engineers

Auckland Auckland Bangkok
Brisbane Cairns Honolulu
Melbourne Perth Shanghai
Singapore Sydney

Level 1 41 McLaren Street
PO Box 6245 North Sydney
New South Wales 2060 Australia
Telephone 61 2 8907 0900
Facsimile 61 2 8907 4127
sydney@lincolnescott.com

PROJECT
LEVEL 15
179 ELIZABETH STREET
SYDNEY NSW 2000

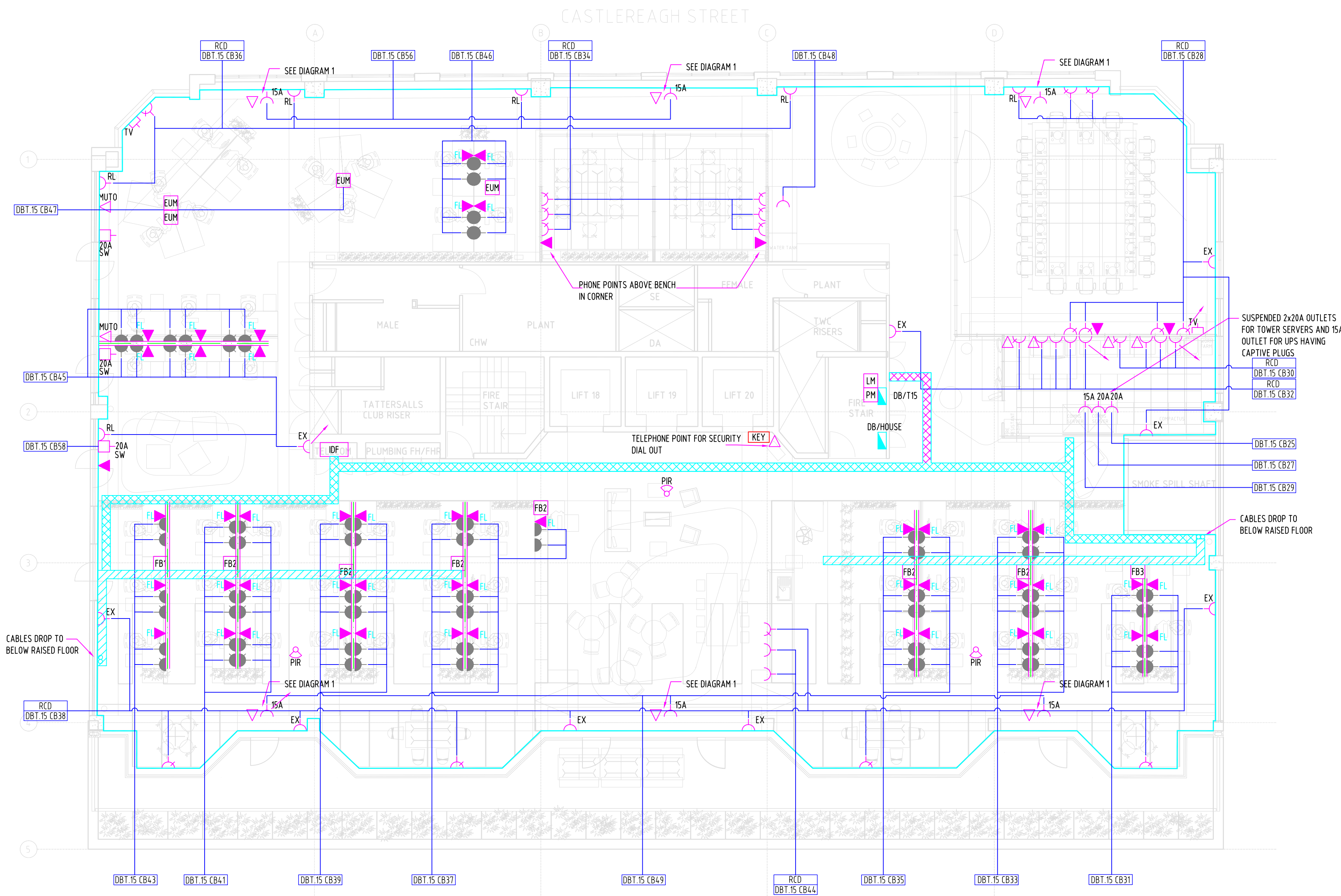
CLIENT
GBCA

DATE	04.10.07	DRAWN	EWM
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SHEET SIZE	A1	APPROVED	
CAD FILE			

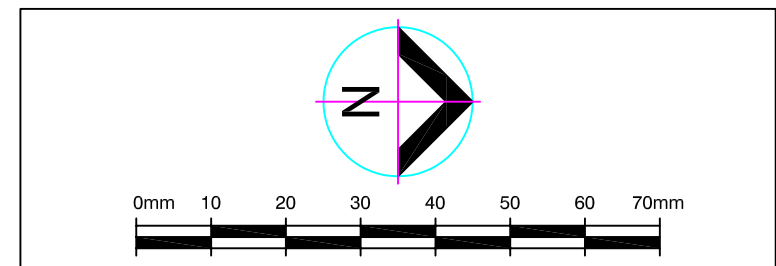
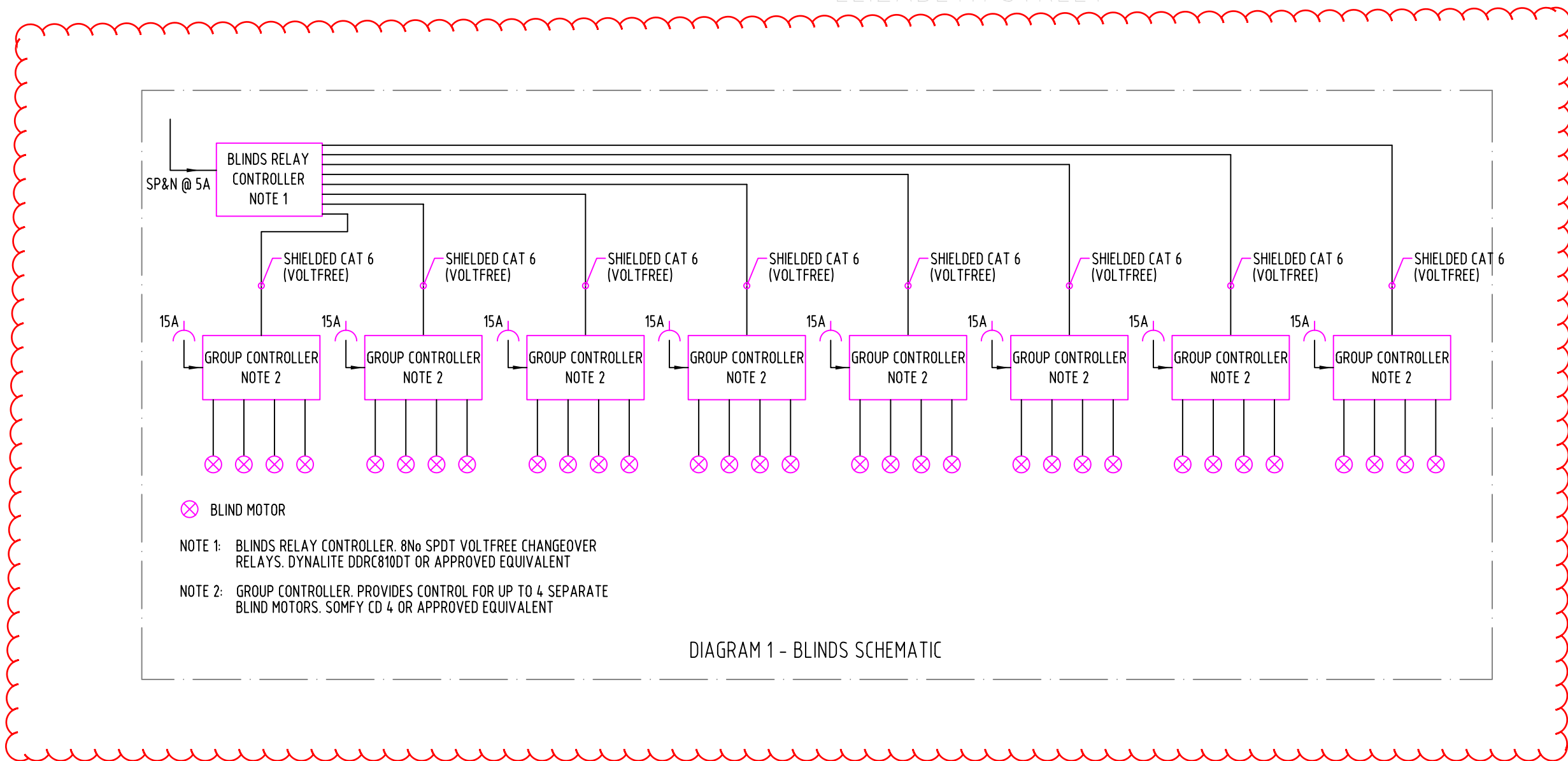
TITLE
ELECTRICAL SERVICES
LIGHTING LAYOUT

PROJECT NO.	DRAWING NO.	REVISION
SYD 0703900	E001	C

DATE	REV	AMENDMENT	BY	CHKD
19.10.07	A	TENDER	MPB	ASD
12.11.07	B	CONSTRUCTION ISSUE	MPB	ASD
21.11.07	C	REVISED CONSTRUCTION ISSUE	MPB	ASD
28.11.07	D	REVISED CONSTRUCTION ISSUE	MPB	ASD
27.02.08	E	AS INSTALLED	TC	



- FB1 FLOOR BOX CONTAINS - 1 X 20A
3 X DOUBLE RJ45
- FB2 FLOOR BOX CONTAINS - 1 X 20A
6 X DOUBLE RJ45
- FB3 FLOOR BOX CONTAINS - 1 X 20A
4 X DOUBLE RJ45
- EUM UMBILICAL - OUTLETS MOUNTED AT HL WITH DROPPERS TO FLOOR LEVEL
1 X 20A
6 X DOUBLE RJ45
- 10A DGPO
EX - EXISTING TO BE RETAINED
RL - EXISTING TO BE RELOCATED TO FRONT OF PLENUM WHERE NEEDED
- SOFT WIRED 10A DGPO
- STARTER SOCKET
- SINGLE RJ45
FL - DENOTES FLY LEAD
- DOUBLE RJ45
FL - DENOTES FLY LEAD
- MUTO MULTI USER COMMUNICATIONS OUTLET
12No RJ45 OUTLETS
- CABLE TRAY AT HIGH LEVEL 300mm
POWER AND 300mm COMMS
- CABLE TRAY BELOW RAISED FLOOR
300mm POWER AND 300mm COMMS
- CABLE DROPPERS
- 2 X 50mm BASKET STACKED 1 FOR
SOFT WIRE POWER AND 1 FOR COMMS
FLY LEADS
- PIR PIR INTRUDER DETECTOR
- KEY INTRUDER ALARM KEY PAD
- LM 100amp Three Phase meter for Lighting Circuits
Located in DB/T15
- PM 100amp Three Phase meter for power circuits
Located in DB/T15



KLM GROUP
ELECTRICAL DATA COMMUNICATIONS

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PROJECT
LEVEL 15
179 ELIZABETH STREET
SYDNEY NSW 2000

CLIENT
GBCA

DATE	15.10.07	DRAWN	MPB
SCALE	1:100	CHECKED	ASD
SHEET SIZE	A1	APPROVED	ASD
CAD FILE			

TITLE
ELECTRICAL SERVICES
POWER LAYOUT

PROJECT NO. **SYD 0703900** DRAWING NO. **E002** REVISION **E**

AS INSTALLED

Specialist Architectural Lighting
 Adelaide Auckland Bangkok
 Brisbane Cairns Canberra
 Honolulu Melbourne Perth
 San Diego Singapore Sydney

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Vision Design

Consultant's Advice

To	GBCA	CA No	VD-01
Attention	Joe Karten	Date	16 February 2009
From	Amara Clarke	Facsimile	
Project	GBCA HEAD OFFICE FITOUT	Project No	SYD0703900
Contract		No. of pages	2
Copies			

This consultant's advice does not constitute or imply a variation.

Joe,

The GBCA open plan office lighting controls must meet the ABGR tenancy protocol for good-control of lighting use. All lighting should have occupancy sensor control of lights as noted below.

The open plan office setup will include the following:

First Person Entry

- PIR near lifts turns on the Type C1 for circulation lighting (refer to 1st Person Entry markup attached)
- Then user goes to touch screen to turn on open plan task lighting (Type T1, F1A & F1B) in their zone (refer to Standard Office Setup Zones markup attached). The design intention was that the touch screen would turn on only the uplight component of the F1A and F1B and then the user would turn on the direct downlight component via their PC.

After Hours Process

- Last person out goes to touch screen which turns off all lights, apart from Type C1 circulation lighting which is on PIR timed switch.

Office Zones

- Zones less than 100m²; as referred to in the Standard Office Setup Zones markup attached.

PIR Switching

- Refer to PIR Switching markup attached.

Amara Clarke

Project Engineer's Name

Signature

16/02/09

Date

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PE Switching

- Refer to PE Switching markup attached. It was intended that the West Corridor C1 circulation lighting and East Light Shelf T2 & H1 lighting would be switched on via PE when the light levels fall below 100lux on the floor. There should also be an override on/off on the main touch screen for these areas (refer to Standard Office Setup Zones markup).

Boardroom Scenes

Scene 1: Standard Meeting Mode – all lights on, with Type F3 dimmed to 320lux average (refer to Boardroom Scene 1 markup). This will be the default setting and activated by the PIR.

Scene 2: Video-conferencing Mode – all lights on, with Type F3 at 100%.

Scene 3: Presentation/Low Light Level Mode- Only Type L1 on

Scene 4: All off

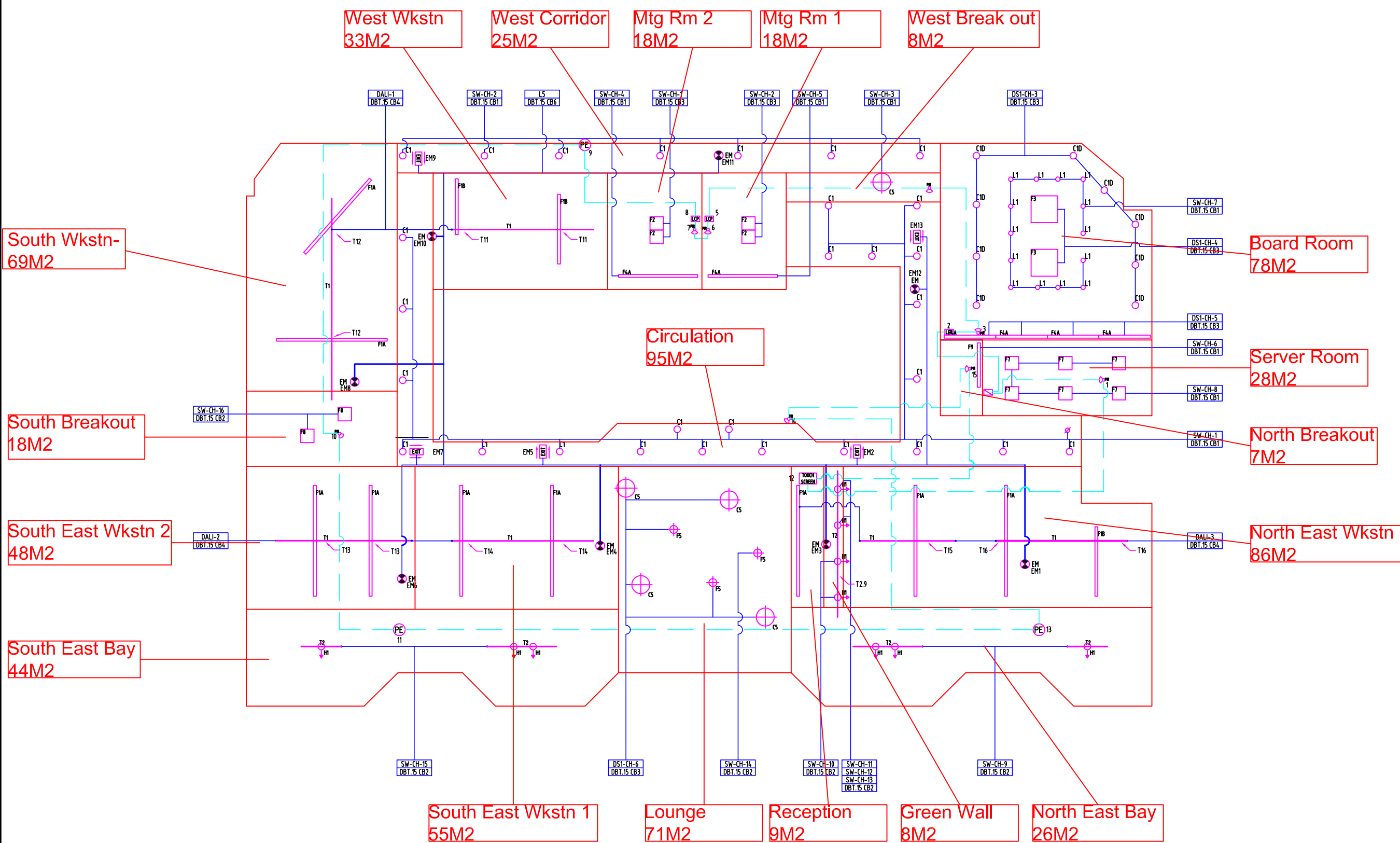
Regards

Amara Clarke
Lighting Designer

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amara.clarke@lincolnescott.com

Amara Clarke		16/02/09
Project Engineer's Name	Signature	Date

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- Notes:**
1. Dynalite energy management equipment should only be installed in dry ambient conditions between 0 and +40 C
 2. Equipment dimensions, where applicable:
 3. All mains access is via the top, all data cable is via the base of the units
 4. A minimum of 200mm top and bottom should be left for heat dissipation. 50mm to the right hand side and 200mm to the left hand side for service access
 5. If dimmable low voltage fittings are being installed, transformers suitable for leading edge phase control must be used. This may not apply if the control unit specified is a DTE310. Please contact Dynalite for clarification.
 6. HF Dimmable Circuit (1-10VDC or DSI) requires a separate twin and earth for power and a separate mains rated figure 8 for control.
 7. DMC805 - Circuits 1-4 are 240VAC dimmable circuits and channels 5-8 are switched or HF Dimmable Circuits.
 8. Recommended cable - 4 pair shielded Cat 5. Orange pair for +12, Blue Pair for Data (Blue D+, Blue/White D-), Green pair for GND, Brown pair is spare. Daisy Chain the data cable to panels and dimmers in any order except where Bridge's (DTK932/X) are involved.
 9. This schematic has been provided on information provided by others. Please verify all details as no responsibility will be taken.
 10. Dimmers, supply, load and data cabling to be installed and connected by contractors for commissioning by Dynalite Agent.
 11. Schematics are indicative only and are meant only as a guide.

Approved

Signed: _____

Print Name: Daniel Walker

Date: 11/03/09

Revisions:

Rev	Description	Date	Chk'd
A	As Build from construction	11/03/09	DW

dynalite

WMGD Pty Ltd via Dynalite
Unit6 / 691 Gardeners Road
Marrickville, NSW, 2020
Tel: 02 8338 9977 Fax: 02 8338 9333 Email: info@dynalite-online.com

Drawing Title:

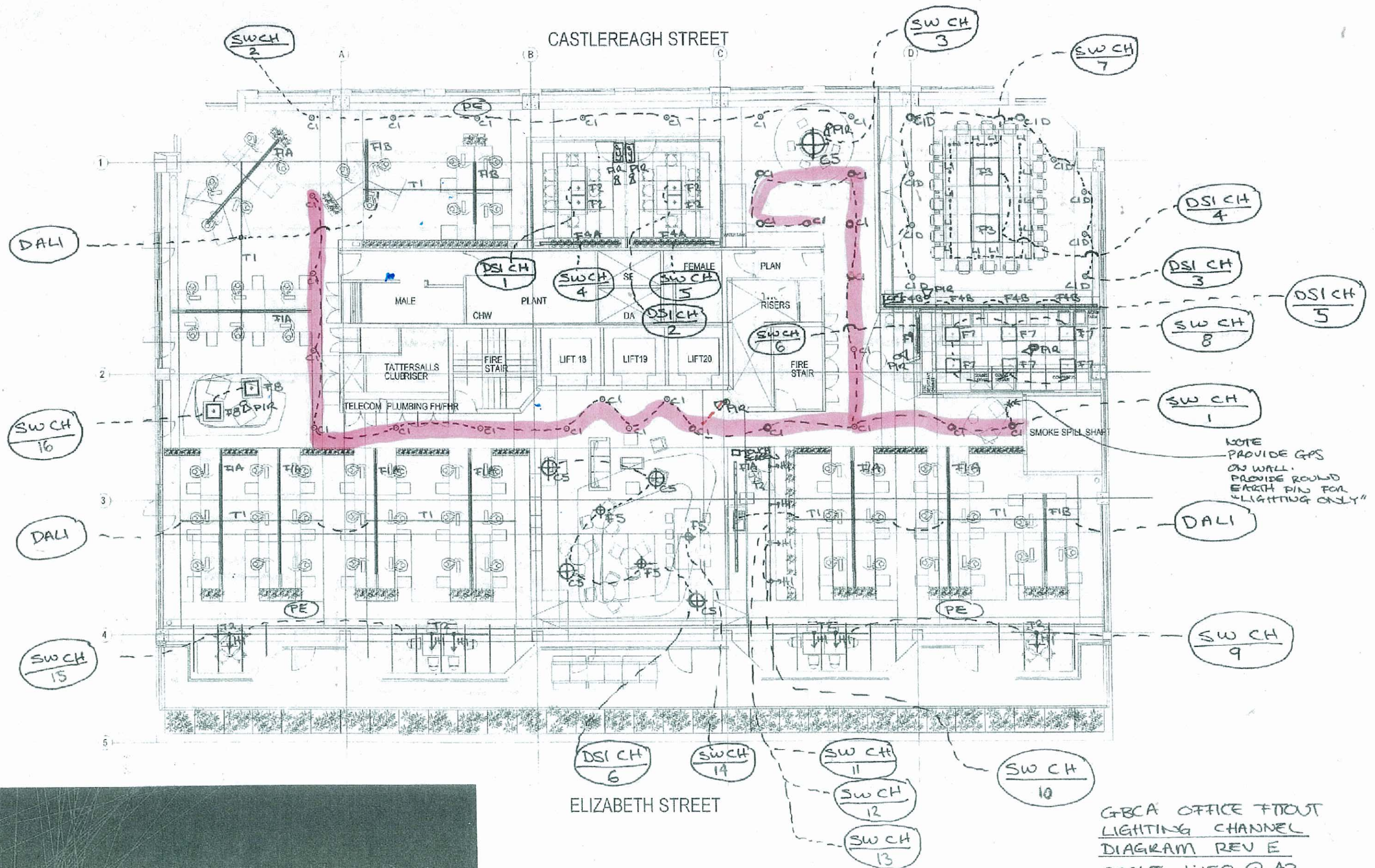
**GBCA
Lighting Zones**

Date: 11-03-09 Not to Scale

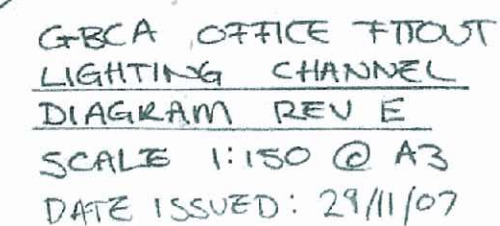
Drawn by: D.Walker Checked: _____

Drawing Number:

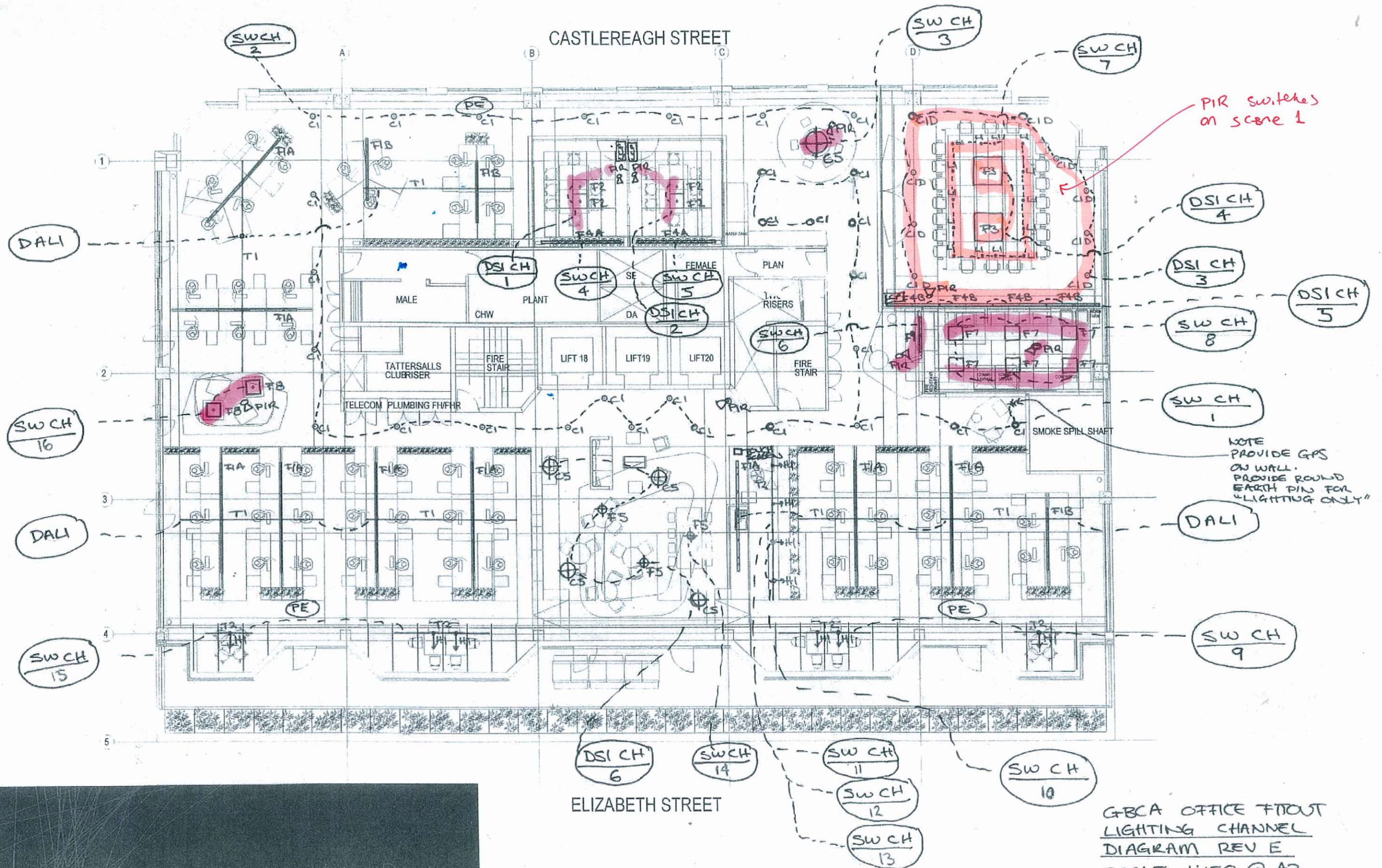
**As Build from final
construction**



GBCA OFFICE FITOUT
 LIGHTING CHANNEL
 DIAGRAM REV E
 SCALE 1:150 @ A3
 DATE ISSUED: 29/11/07



PIR Switching



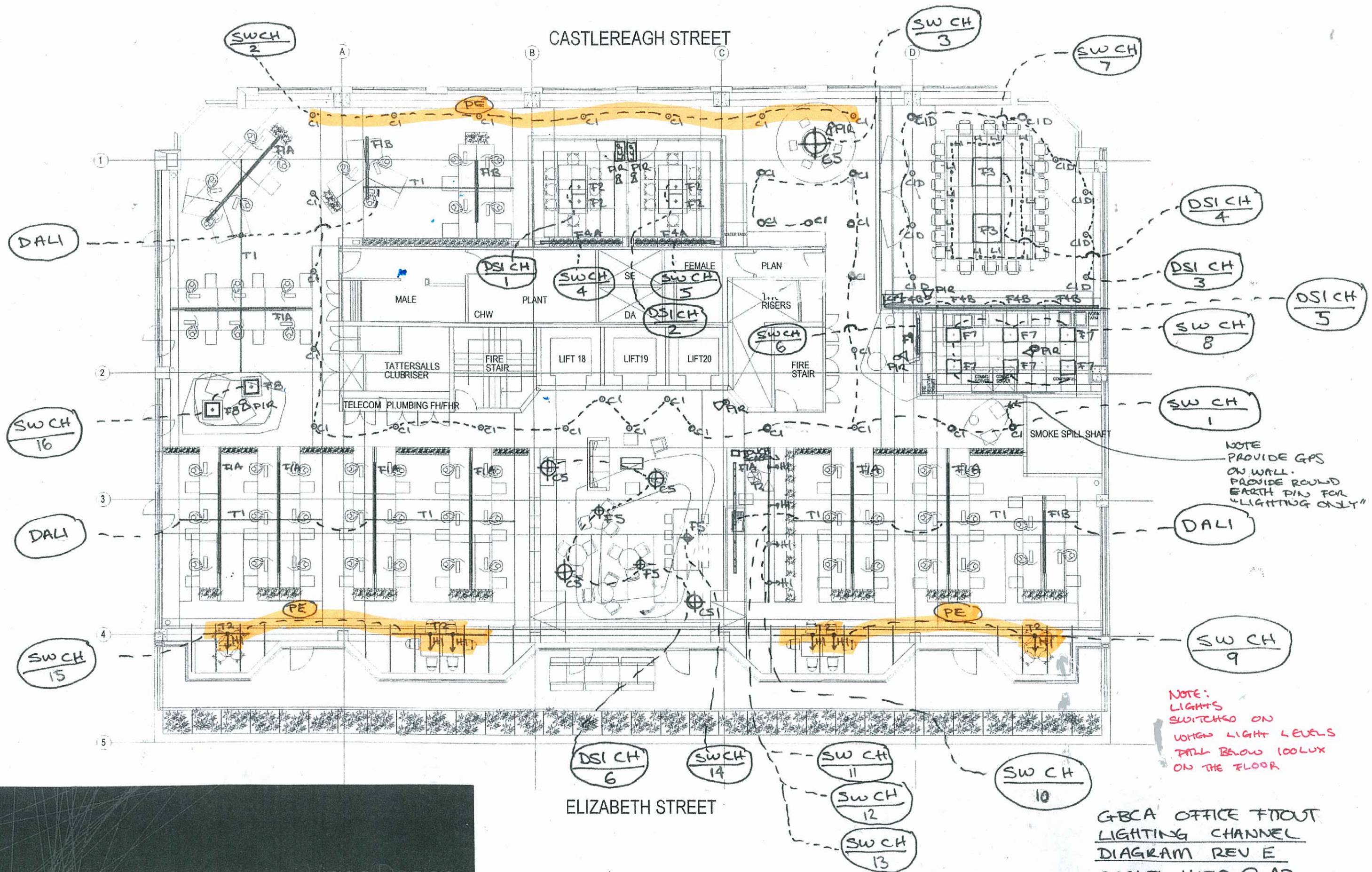
PIR switches on scene 1

NOTE
PROVIDE GPS
ON WALL.
PROVIDE ROUND
EARTH PIN FOR
"LIGHTING ONLY"

GRCA OFFICE FITOUT
LIGHTING CHANNEL
DIAGRAM REV E
SCALE 1:150 @ A3
DATE ISSUED: 29/11/07

Vision Design

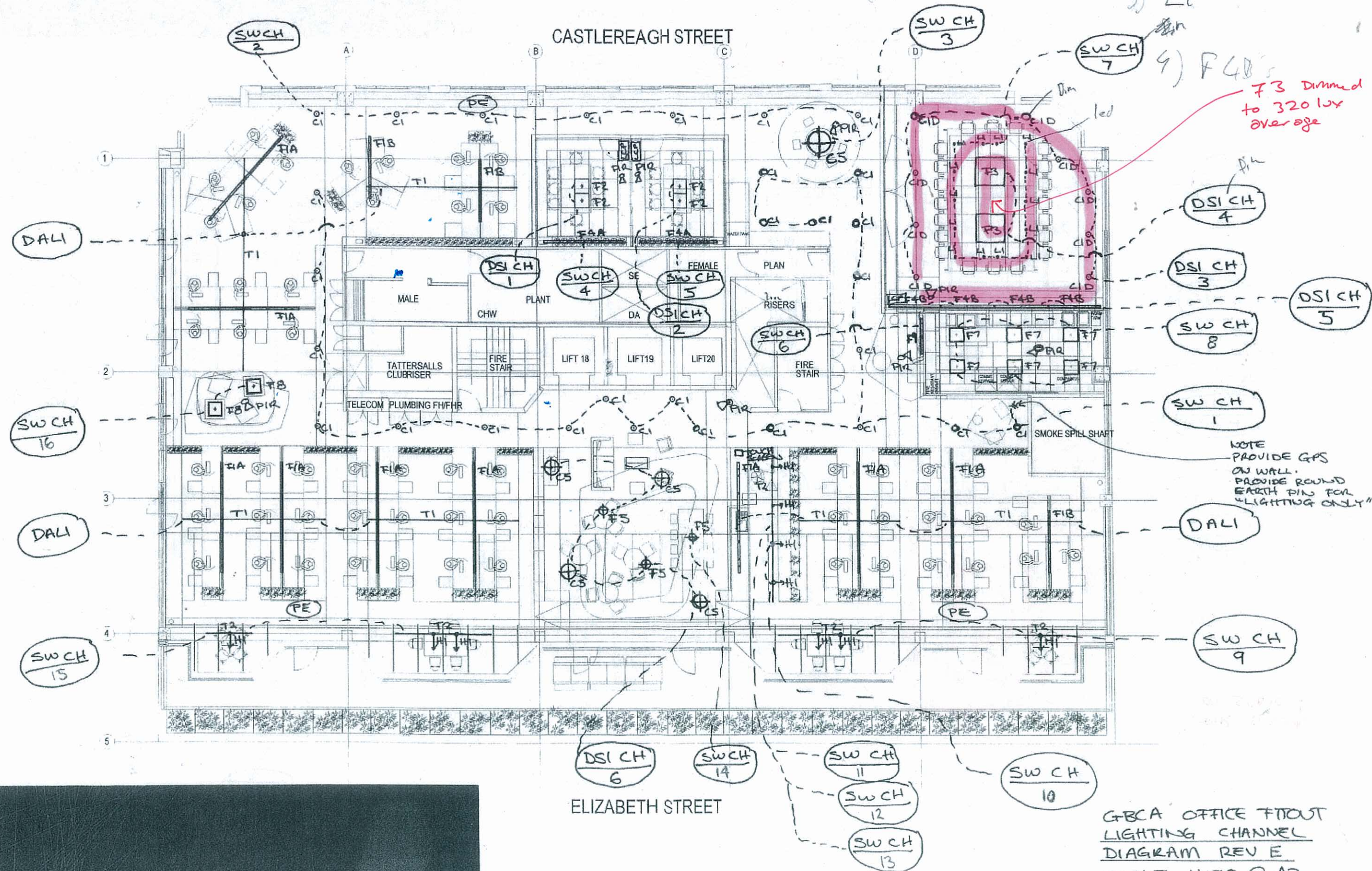
PE switching



GBCA OFFICE FITOUT
 LIGHTING CHANNEL
 DIAGRAM REV E
 SCALE 1:150 @ A3
 DATE ISSUED: 29/11/07

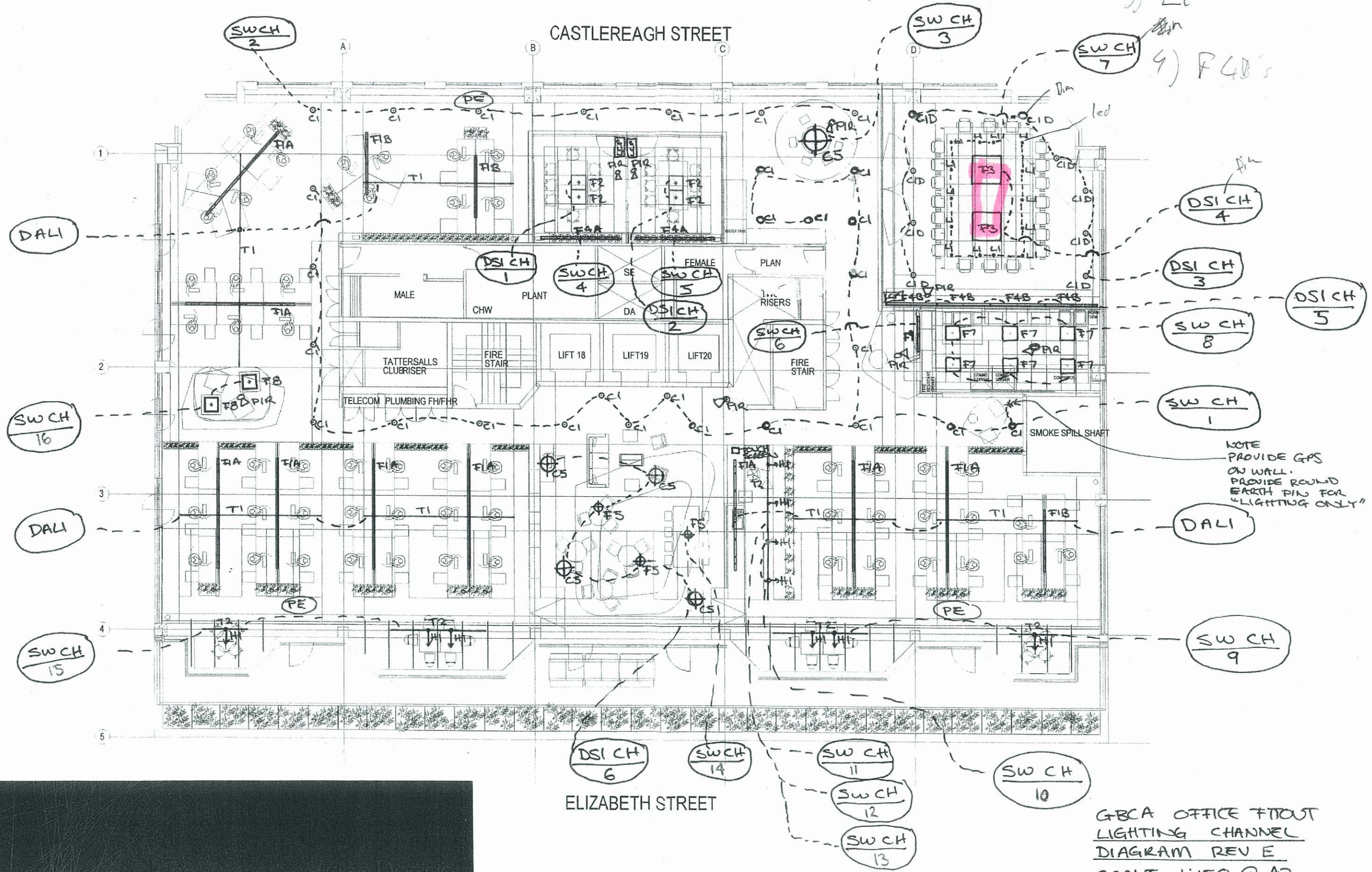
Meeting Rm Scene ①

- 1) all on
- 2) F3
- 3) L1



Meeting Rm Scene 2

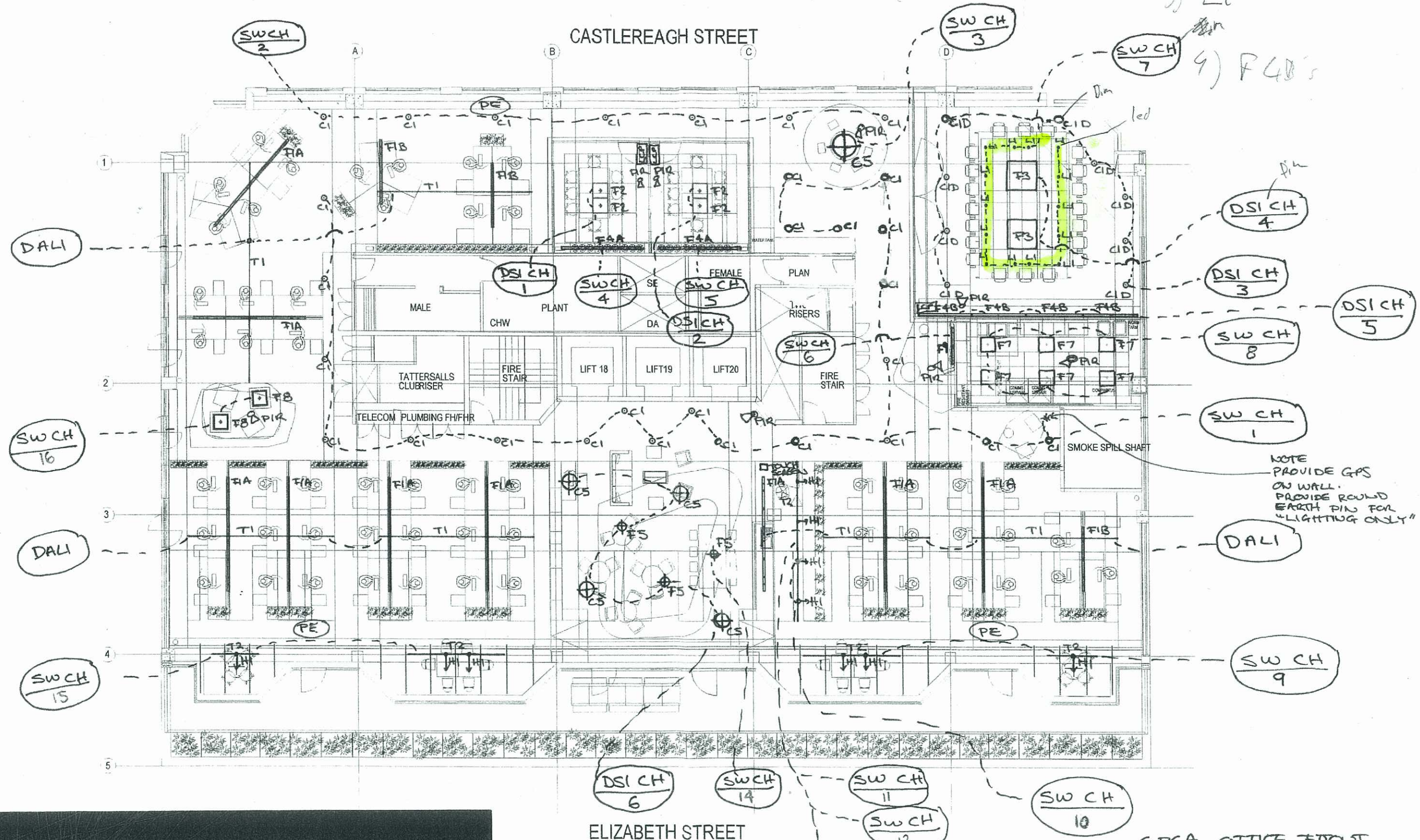
- 1) all on
- 2) F3
- 3) L1
- 4) F40's



GBCA OFFICE FITOUT
LIGHTING CHANNEL
DIAGRAM REV E
SCALE 1:150 @ A3
DATE ISSUED: 29/11/07

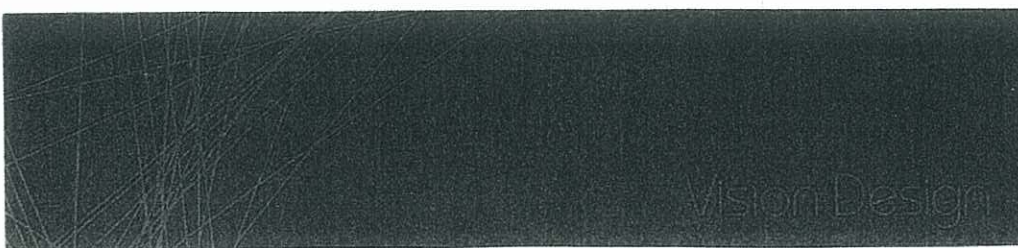
Meeting Rn
Scene ②

- 1) all on
- 2) F3
- 3) L1
- 4) F40's



NOTE
PROVIDE GPS
ON WALL.
PROVIDE ROUND
EARTH PIN FOR
"LIGHTING ONLY"

GBCA OFFICE FITOUT
LIGHTING CHANNEL
DIAGRAM REV E
SCALE 1:150 @ A3
DATE ISSUED: 29/11/07



-
- CASTLEREAGH STREET
- ELIZABETH STREET
- SW CH 1
- SW CH 2
- SW CH 3
- SW CH 4
- SW CH 5
- SW CH 6
- SW CH 7
- SW CH 8
- SW CH 9
- SW CH 10
- SW CH 11
- SW CH 12
- SW CH 13
- SW CH 14
- SW CH 15
- SW CH 16
- DSI CH 1
- DSI CH 2
- DSI CH 3
- DSI CH 4
- DSI CH 5
- DSI CH 6
- DALI
- NOTE: PROVIDE GAS ON WALL. PROVIDE ROUND EARTH PIN FOR LIGHTING ONLY
- GBCA OFFICE FITOUT LIGHTING CHANNEL DIAGRAM REV E

GBCA OFFICE FITOUT
LIGHTING CHANNEL
DIAGRAM REV E
SCALE 1:150 @ A3
DATE ISSUED: 29/11/07