

## Green Star – Office Interiors v1.1

### Energy

#### Ene-4 Office Lighting Zoning

Points Available	Points Claimed	CIR Submitted
1	1	N
1	0	

#### Credit Criteria

One point is awarded where it is demonstrated that:

- All individual or enclosed spaces have separate switches;
- The size of individually switched lighting zones does not exceed 100sqm for 95% of tenancy; and
- Switches are clearly labelled, conveniently located and easily accessed by tenants.

An additional point is awarded where the above is achieved and where an individually addressable lighting system is provided for 95% of the NLA.

#### Documents Provided

✓	As-installed circuit drawings with lighting zones and switches clearly marked showing the area of each zone. Ene-4: 1
✓	A summary document that demonstrates that lighting zones do not exceed 100m <sup>2</sup> for 95% of the tenancy. Ene-4: 1 (page 4)

#### Discussion

- A DALI system controls the lights above the workstations. Task based lighting is controlled by each user via a computer program on each user's computer. All lighting zones are less than 100m<sup>2</sup> and are controlled within enclosed spaces, via PIR sensors, PE sensors, or through the touch screen near reception.
- As shown on the as-installed drawing from Dynalite on page 4, 100% of lighting zones are less than 100m<sup>2</sup>.

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

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Vision Design

Consultant’s Advice

To	<b>GBCA</b>	CA No	<b>VD-01</b>
Attention	<b>Joe Karten</b>	Date	<b>16 February 2009</b>
From	<b>Amara Clarke</b>	Facsimile	
Project	<b>GBCA HEAD OFFICE FITOUT</b>	Project No	<b>SYD0703900</b>
Contract		No. of pages	<b>2</b>
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		16/02/09
Project Engineer’s Name	Signature	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**

Project Engineer's Name

Signature

**16/02/09**

Date

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Notes:

- Dynalite energy management equipment should only be installed in dry ambient conditions between 0 and +40 C
- Equipment dimensions, where applicable:
- All mains access is via the top, all data cable is via the base of the units
- 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
- 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.
- HF Dimmable Circuit (1-10VDC or DSI) requires a separate twin and earth for power and a separate mains rated figure 8 for control.
- DMC805 - Circuits 1-4 are 240VAC dimmable circuits and channels 5-8 are switched or HF Dimmable Circuits.
- 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.
- This schematic has been provided on information provided by others. Please verify all details as no responsibility will be taken.
- Dimmers, supply, load and data cabling to be installed and connected by contractors for commissioning by Dynalite Agent.
- Schematics are indicative only and are meant only as a guide.

Approved

Signed:

Print Name: Daniel Walker

Date: 11/03/09

Revisions:

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



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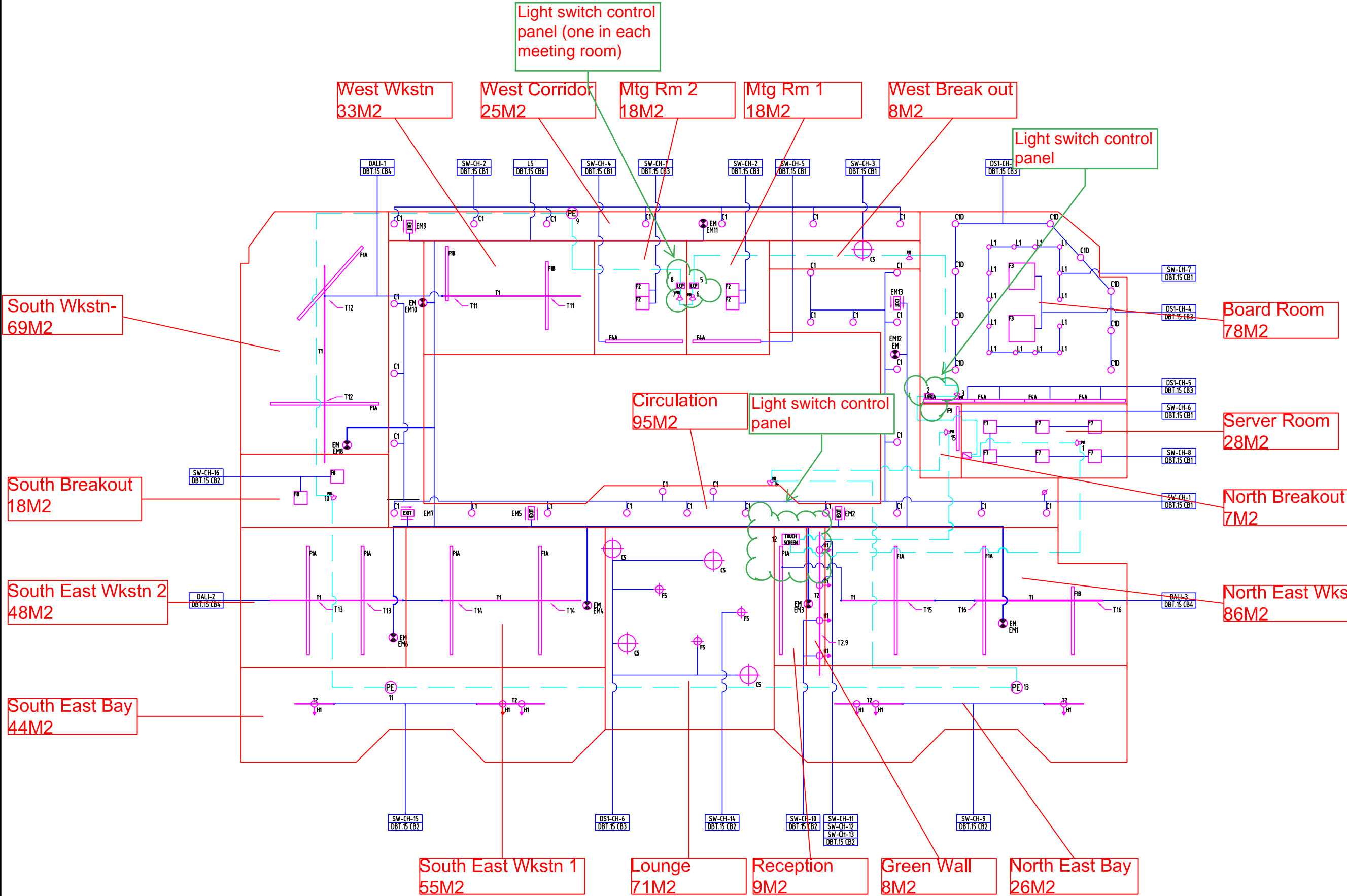
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GBCA  
Lighting Zones

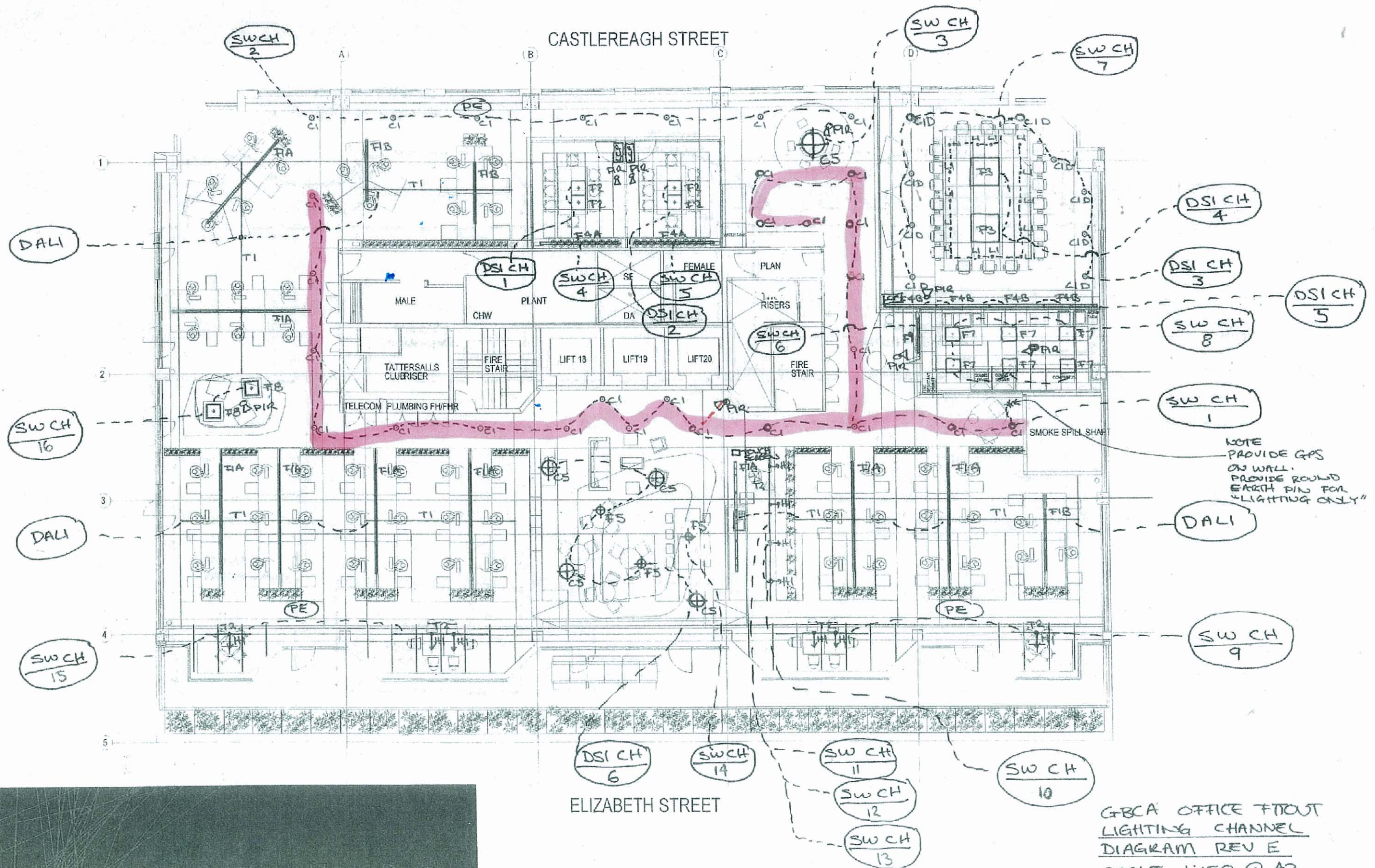
Date:	11-03-09	Not to Scale
Drawn by:	D.Walker	Checked:

Drawing Number:

As Build from final  
construction

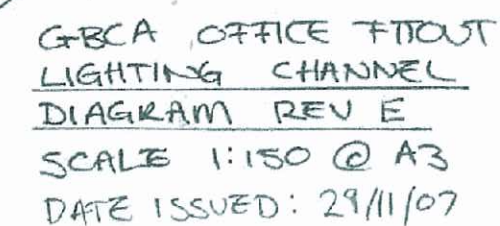






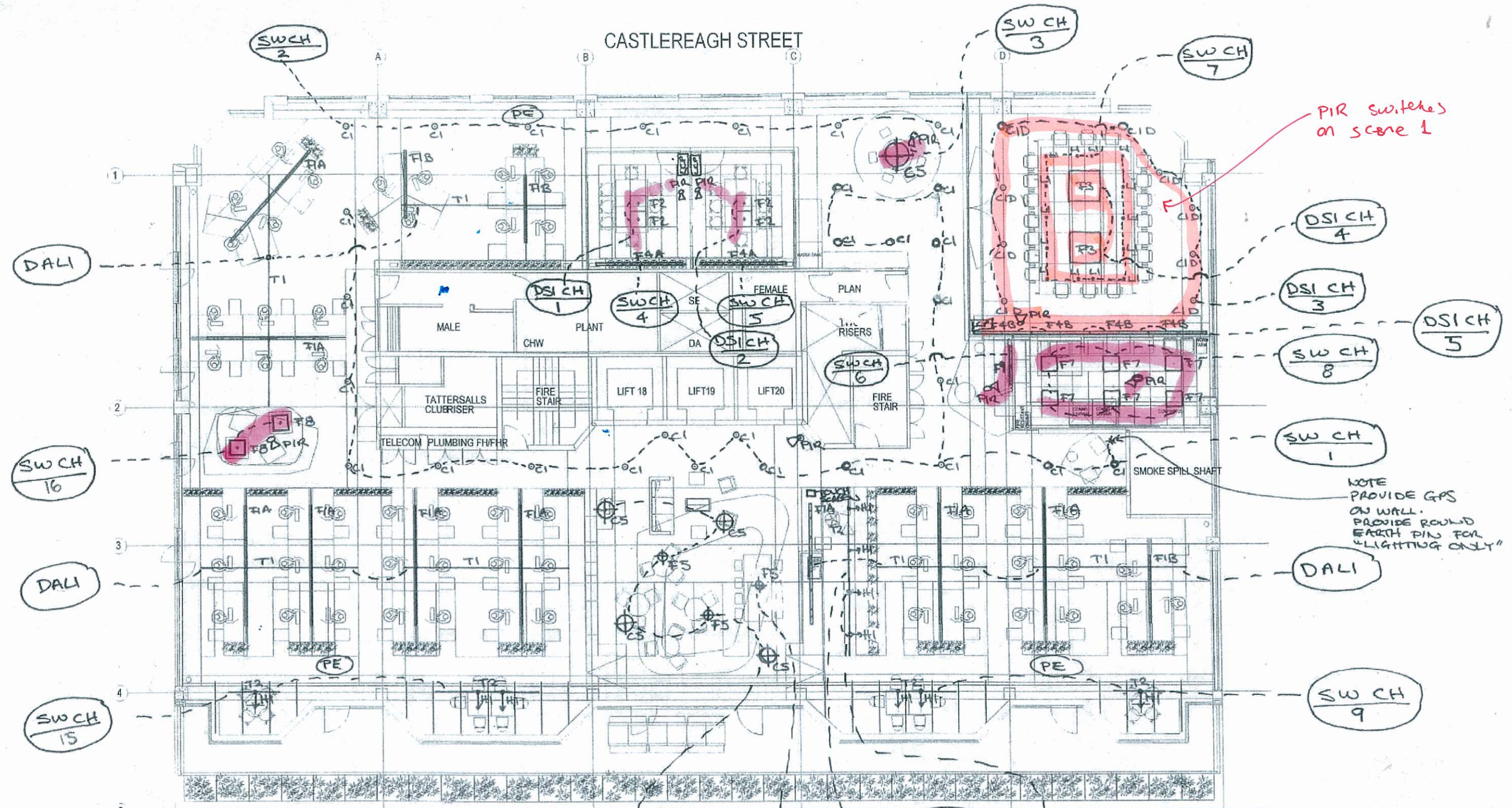
GBCA OFFICE FITOUT  
 LIGHTING CHANNEL  
 DIAGRAM REV E  
 SCALE 1:150 @ A3  
 DATE ISSUED: 29/11/07







# PIR Switching

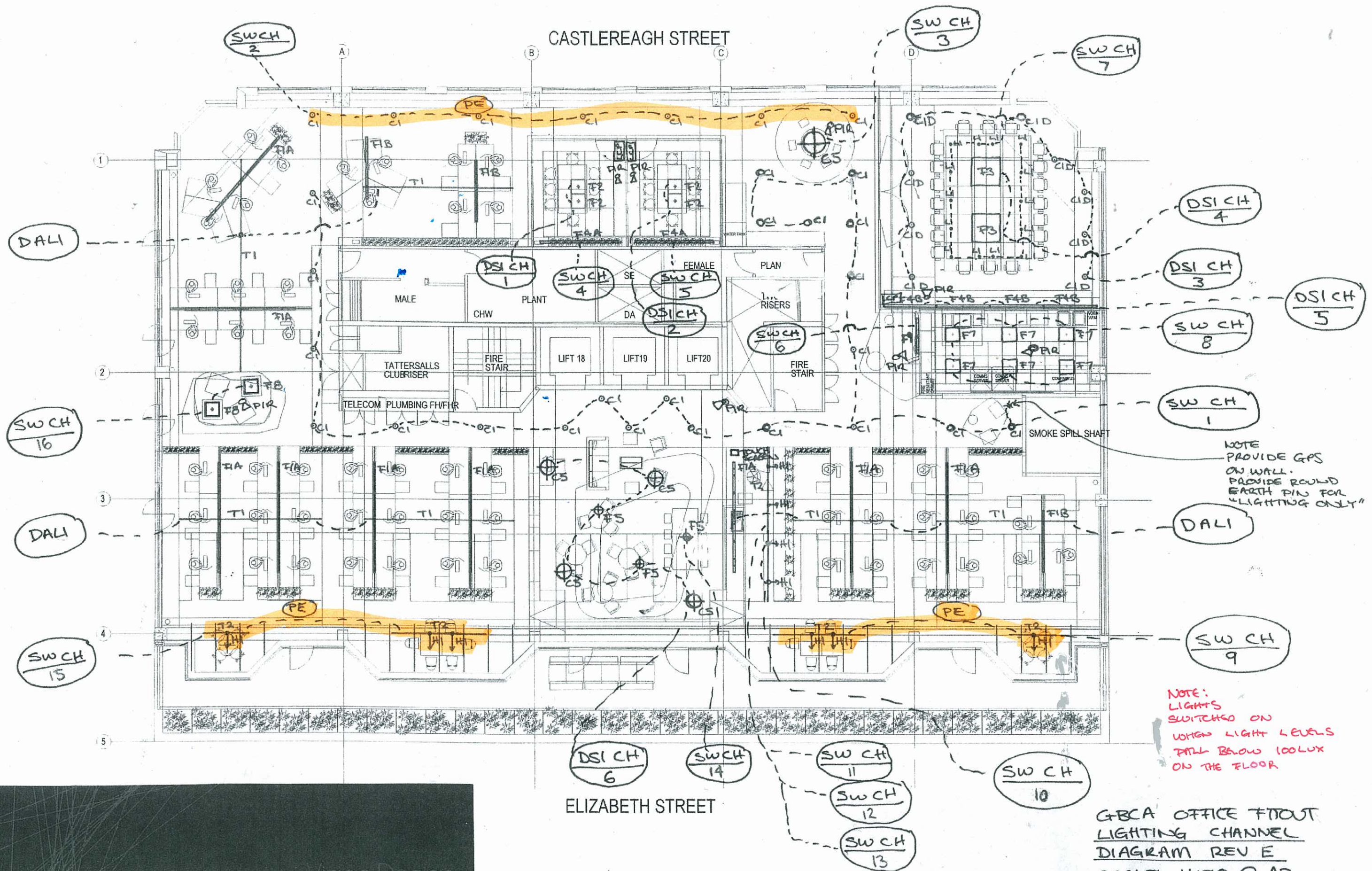


GRCA OFFICE FITOUT  
LIGHTING CHANNEL  
DIAGRAM REV E  
SCALE 1:150 @ A3  
DATE ISSUED: 29/11/07





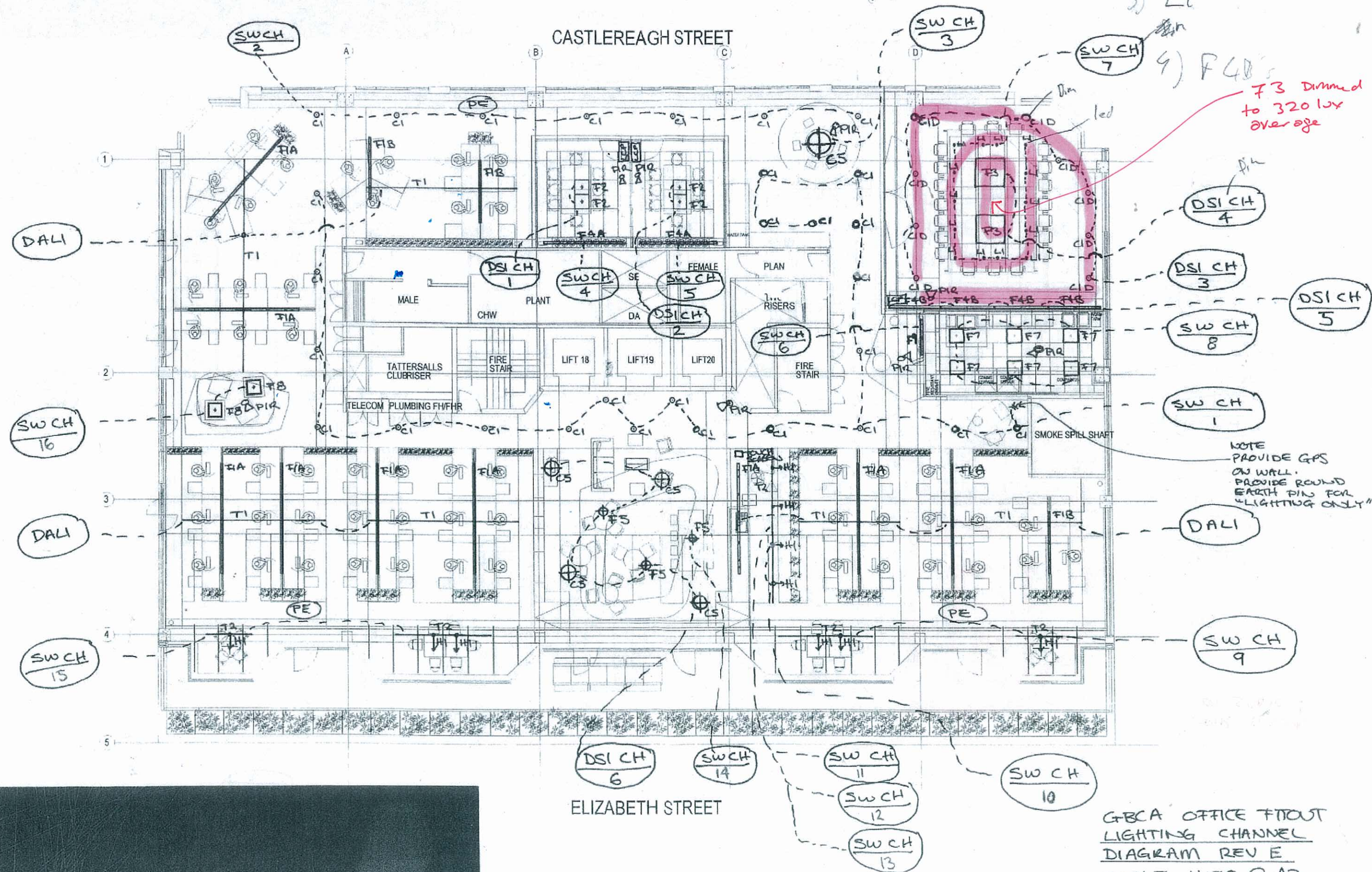
PE switching





# Meeting Rm Scene ①

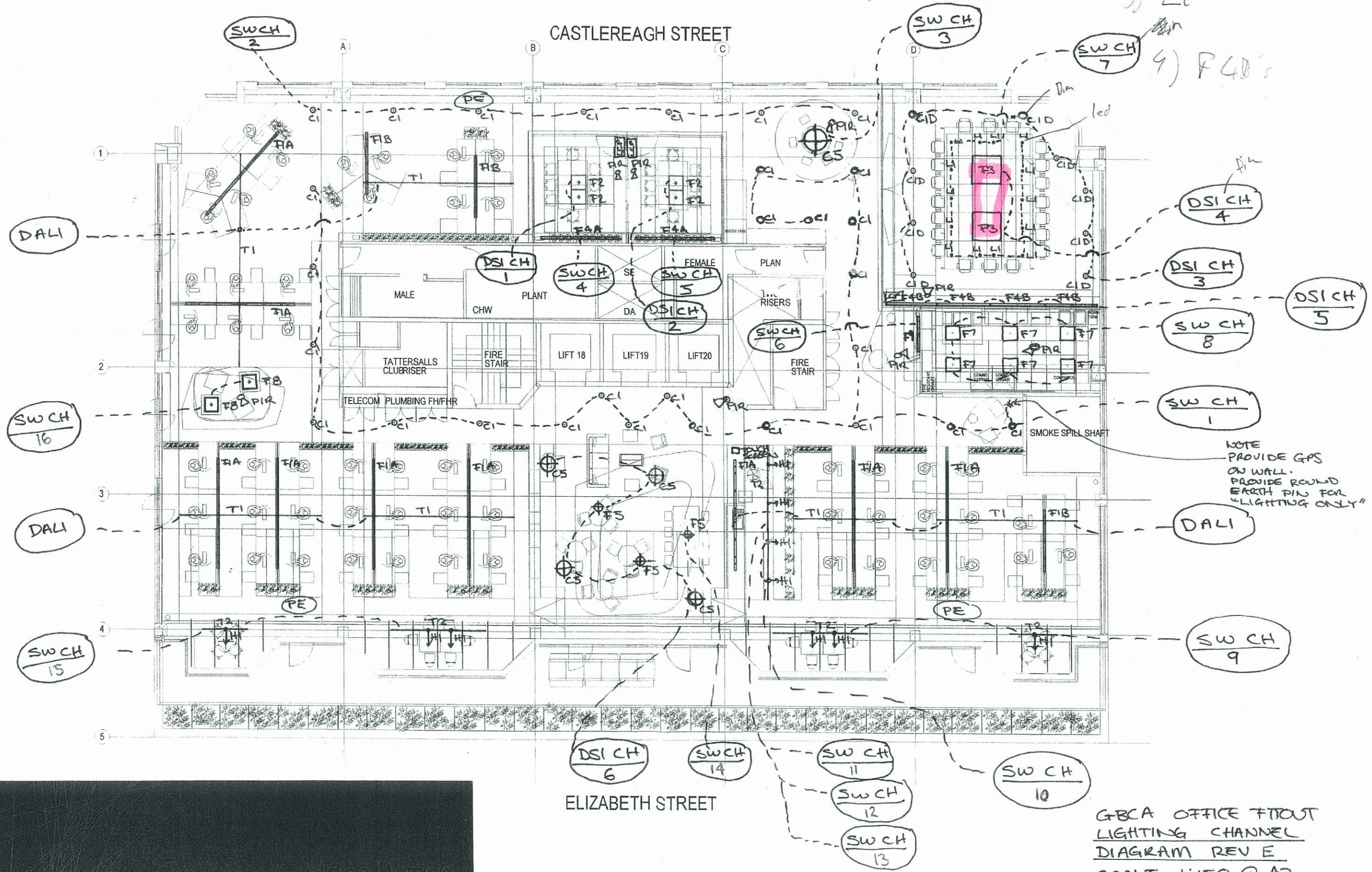
- 1) all on
- 2) F3
- 3) L1





# Meeting Rm Scene 2

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



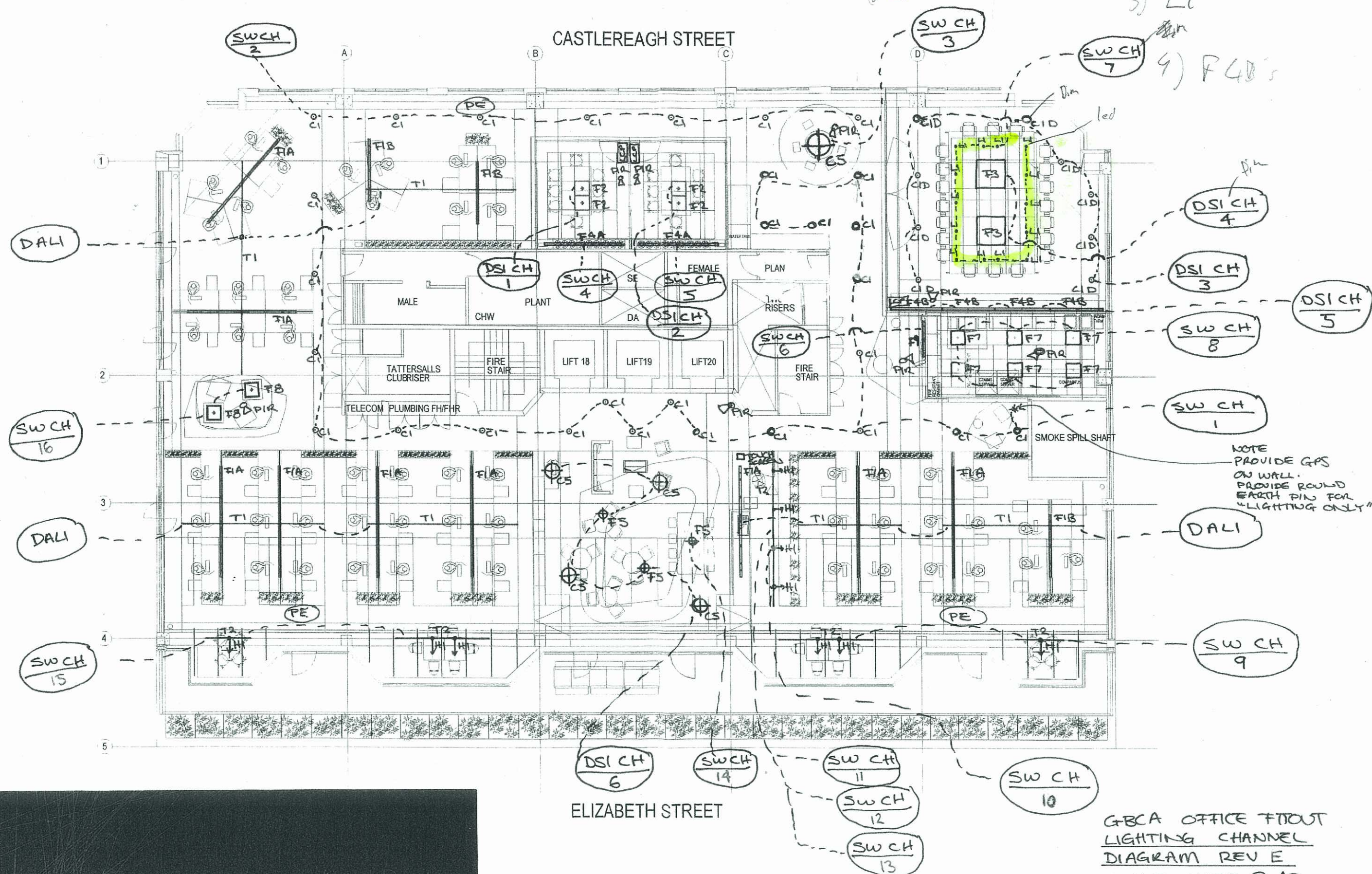
GBCA OFFICE FITOUT  
LIGHTING CHANNEL  
DIAGRAM REV E  
SCALE 1:150 @ A3  
DATE ISSUED: 29/11/07





Meeting Rn  
Scene ②

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

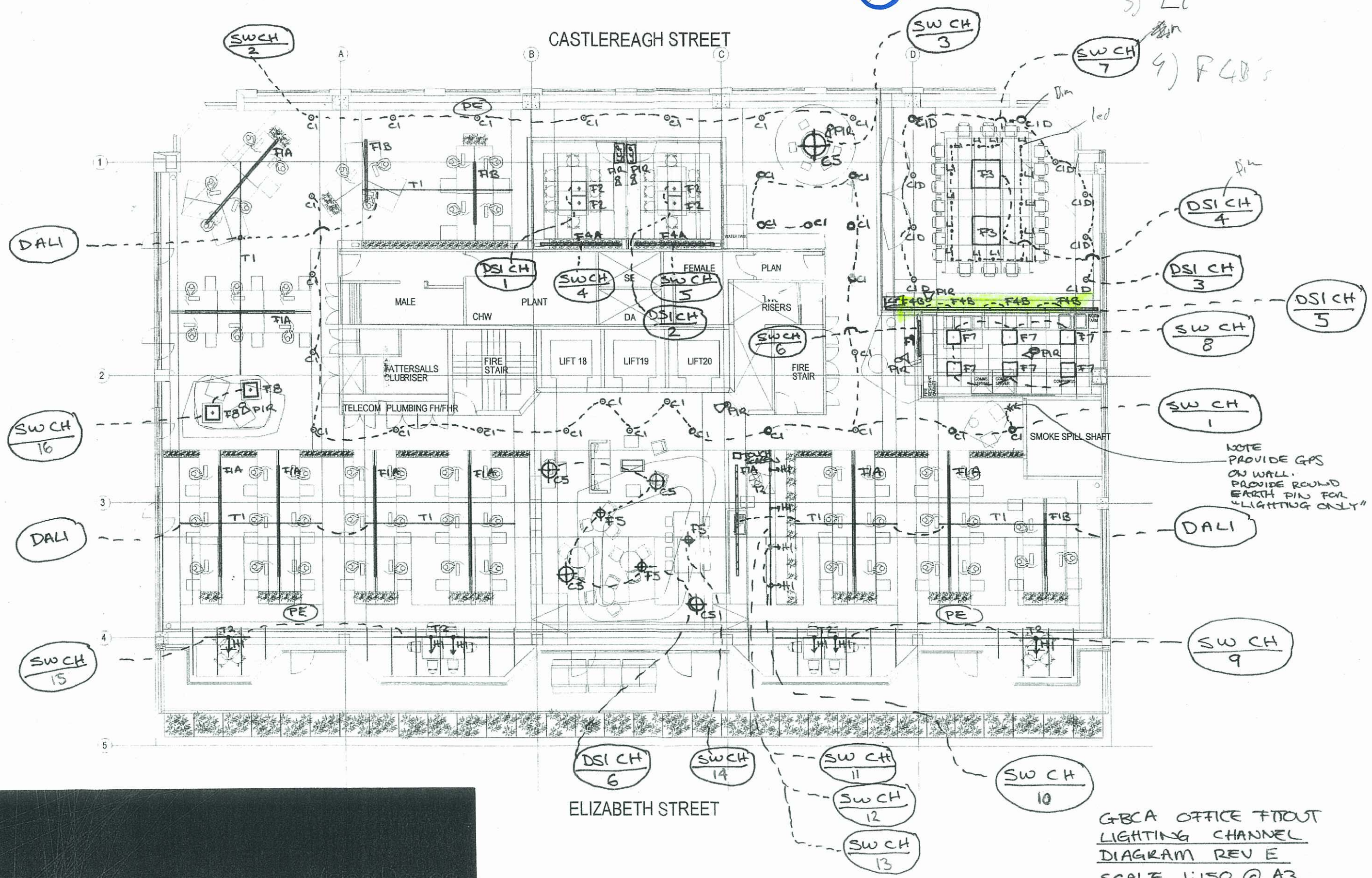


GBCA OFFICE FITOUT  
LIGHTING CHANNEL  
DIAGRAM REV E  
SCALE 1:150 @ A3  
DATE ISSUED: 29/11/07



Mating Rm  
Scene ④

- 1) all on
- 2) F3
- 3) L1
- 4) F4B's



GBCA OFFICE FITOUT  
LIGHTING CHANNEL  
DIAGRAM REV E  
SCALE 1:150 @ A3  
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