

**WOLLONGONG PRIVATE HOSPITAL**

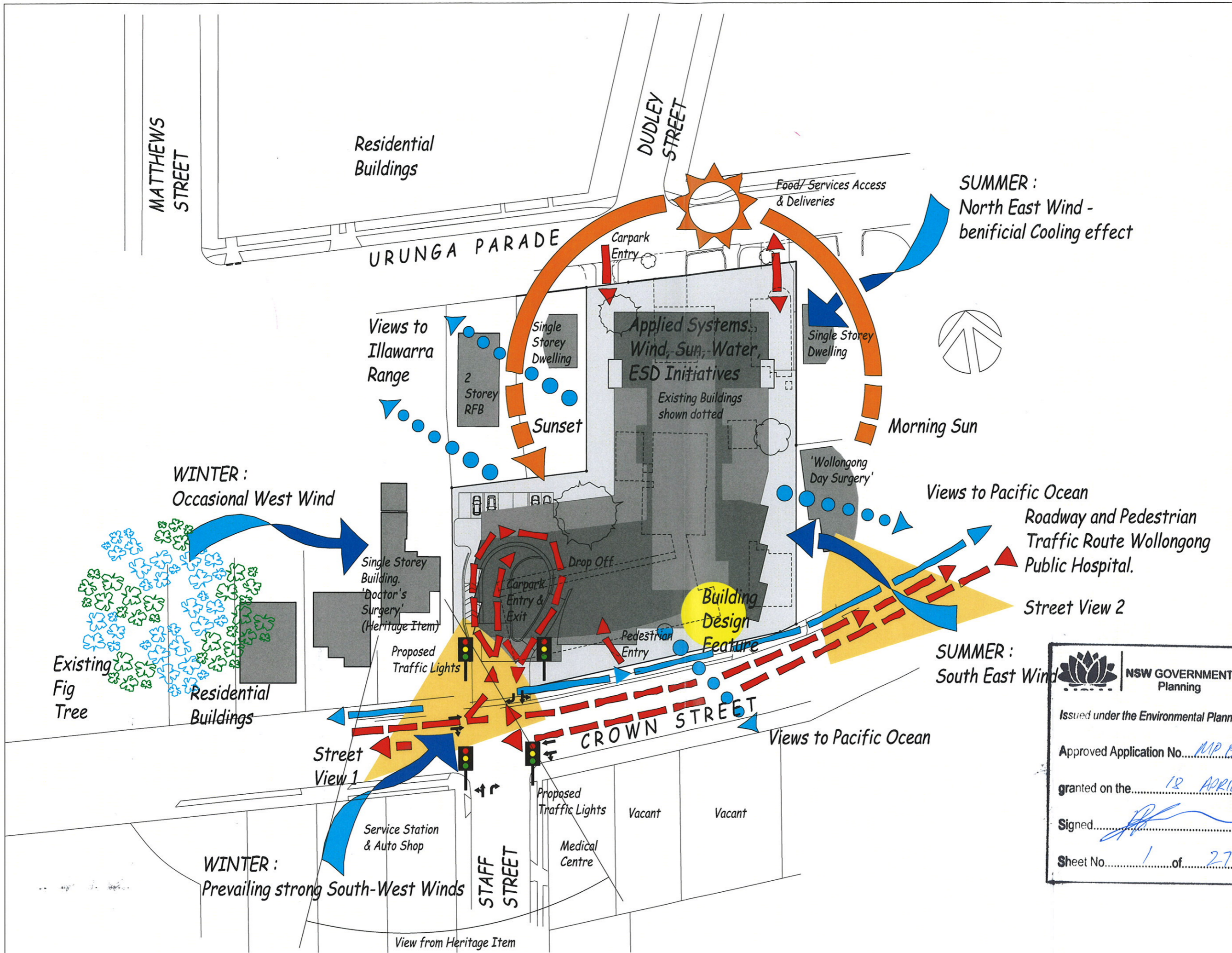
360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

Client  
AA CROWN HOLDINGS  
Pty Ltd

Architect +  
Interior Design

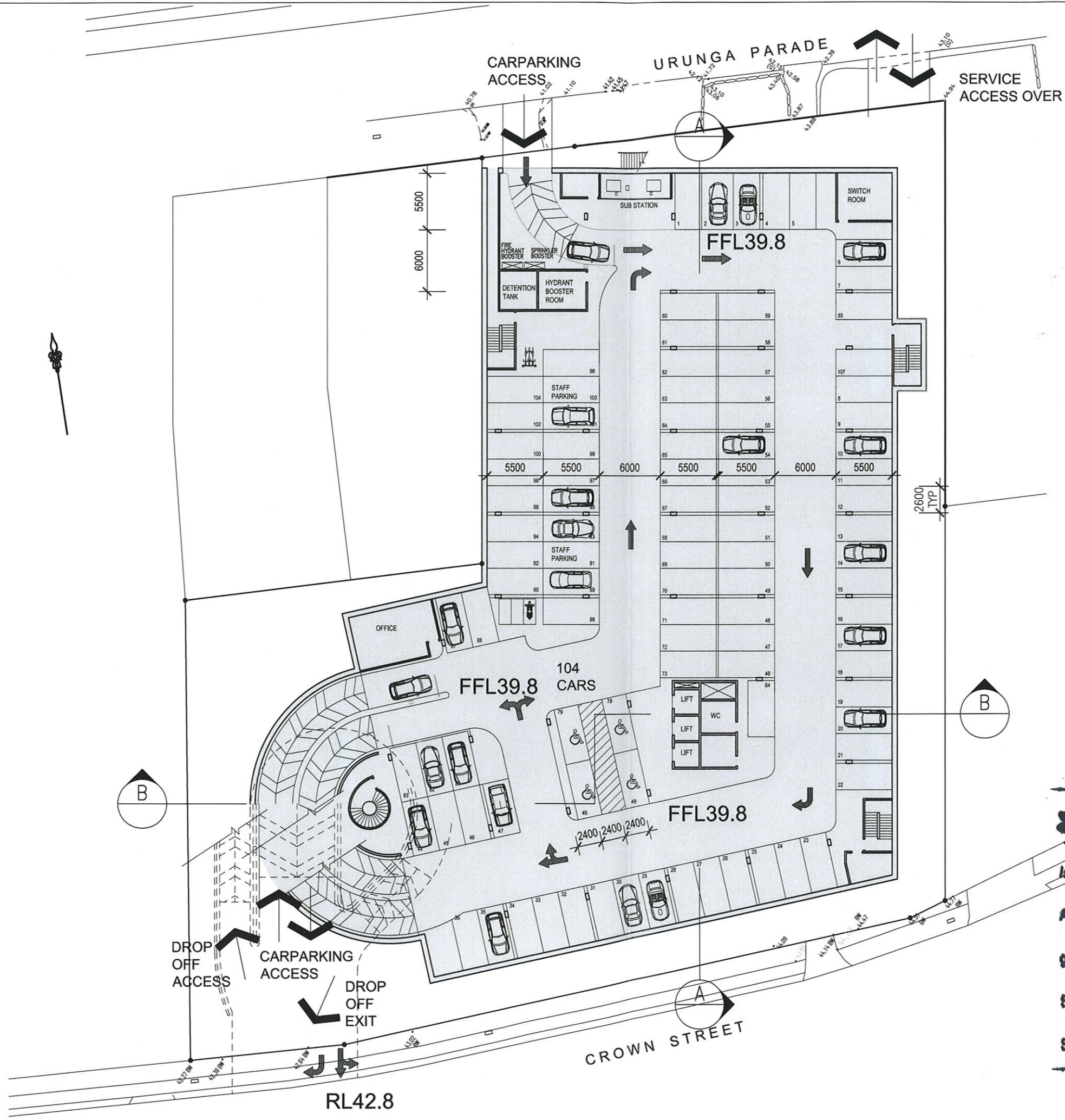
**MURPHY'S**  
Architecture Pty Limited  
ACN 090 729 276  
PO Box 669  
Lane Cove NSW 2066  
Phone +61 411 188 403  
Fax +61 2 9925 0055

**SITE ANALYSIS PLAN**



	<b>NSW GOVERNMENT Planning</b>
	Issued under the Environmental Planning and Assessment Act 1979
	Approved Application No... <i>MP 07-0070</i> .....
	granted on the... <i>12 APRIL 2011</i> .....
	Signed... <i>[Signature]</i> .....
Sheet No... <i>1</i> of... <i>27</i> .....	

**DA.03**  
REVISION B  
20 OCTOBER 2010



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**BASEMENT 1**

NSW GOVERNMENT  
Planning

under the Environmental Planning and Assessment Act 1979

Application No. *MP02-0072*

the *18 APRIL 2011*

Sig. *[Signature]*

Sheet No. *2* of *27*

**DA.04**

REVISION B  
20 OCTOBER 2010

SCALE: 1:400 @ A3  
0 1 2 3 4 5 6 7 8 9 10 metres

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WOLLONGONG

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Pty Ltd**

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Interior Design

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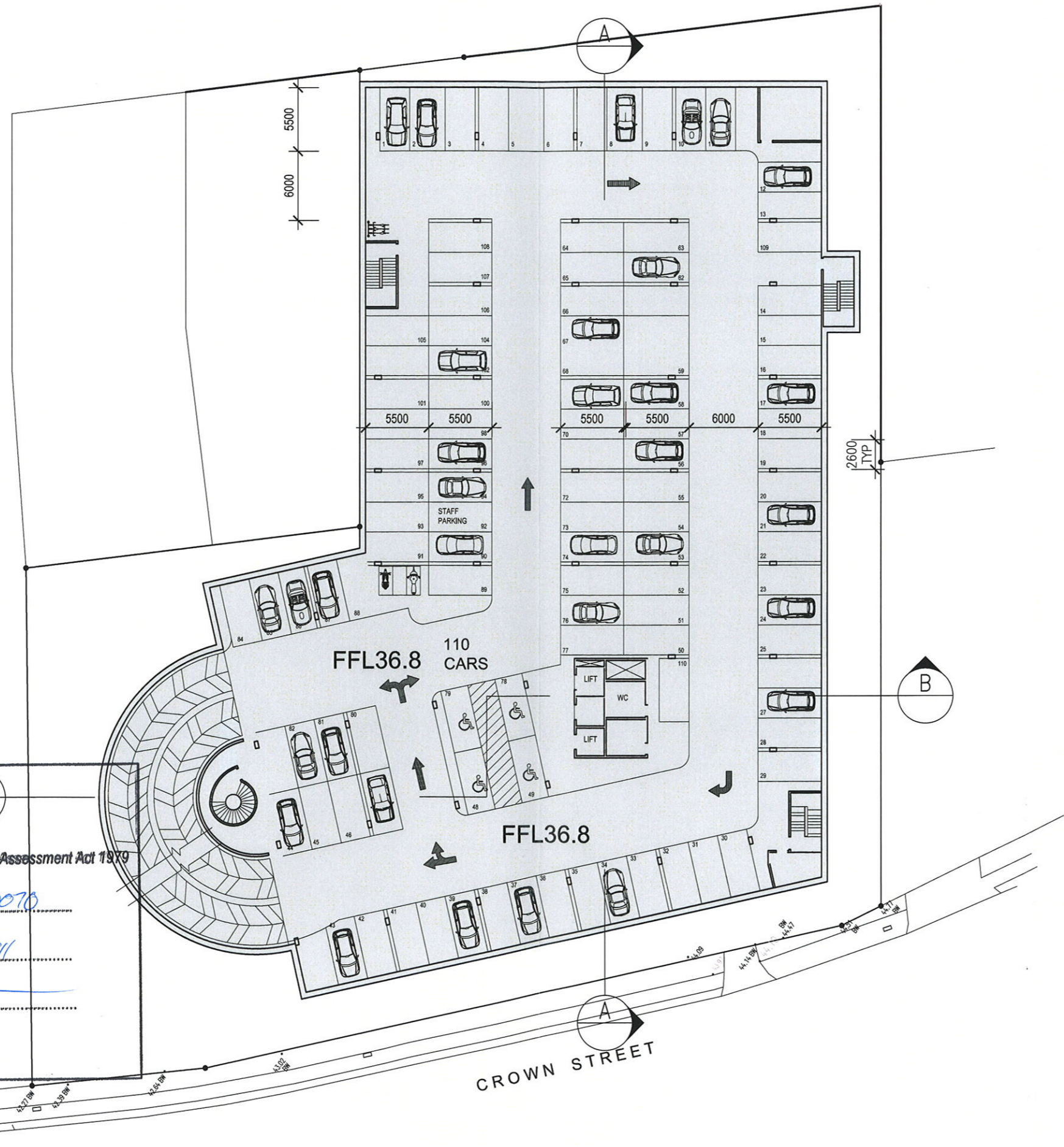
**BASEMENT 2**




SCALE: 1:400 @ A3  
0 2 4 6 8 10  
metres

**DA.05**  
REVISION B  
20 OCTOBER 2010

URUNGA PARADE



 **NSW GOVERNMENT  
Planning**

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Approved Application No. M.P07.0070

granted on the 18 APRIL 2011

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Sheet No. 3 of 27

CROWN STREET

**WOLLONGONG  
PRIVATE HOSPITAL**

360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

Client  
**AA CROWN HOLDINGS  
Pty Ltd**

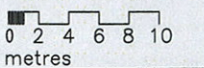
Architect +  
Interior Design

**MURPHY'S**  
Architecture Pty Limited  
ACN 090 729 276  
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Lane Cove NSW 2066  
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**BASEMENT 3**




SCALE: 1:400 @ A3



**DA.06**

REVISION B  
20 OCTOBER 2010



 **NSW GOVERNMENT  
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Approved Application No. MP07-0070

granted on the 18 APRIL 2010

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Sheet No. 4 of 27

CROWN STREET

URUNGA PARADE

URUNGA PARADE

SERVICE ACCESS



OUTLINE OF BASEMENT UNDER

12131

5500

WASTE

LINEN

RL42.6

LOADING

FFL43.8

FACILITIES MANAGEMENT

KITCHEN  
230sq.m.

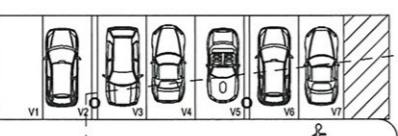
BULK STORES  
425sq.m.

6000

LETTABLE SPACE  
220sq.m.

LETTABLE SPACE  
320sq.m.

6000



FLORIST  
50sq.m.

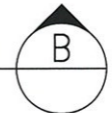
FFL43.8


FOYER

COFFEE SHOP  
90sq.m.

PHARMACY  
160sq.m.

8000




 **NSW GOVERNMENT Planning**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No... MPO7-0070

granted on the... 18 APRIL 2010

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Sheet No... 5 of 27

DROP OFF ACCESS

CARPARKING ACCESS

DROP OFF EXIT

RL42.8

CROWN STREET



# WOLLONGONG PRIVATE HOSPITAL

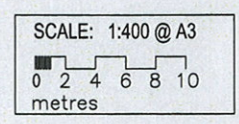
360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

Client  
**AA CROWN HOLDINGS**  
Pty Ltd

Architect +  
Interior Design

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## GROUND FLOOR PLAN



# DA.07

REVISION B  
20 OCTOBER 2010

**WOLLONGONG  
PRIVATE HOSPITAL**

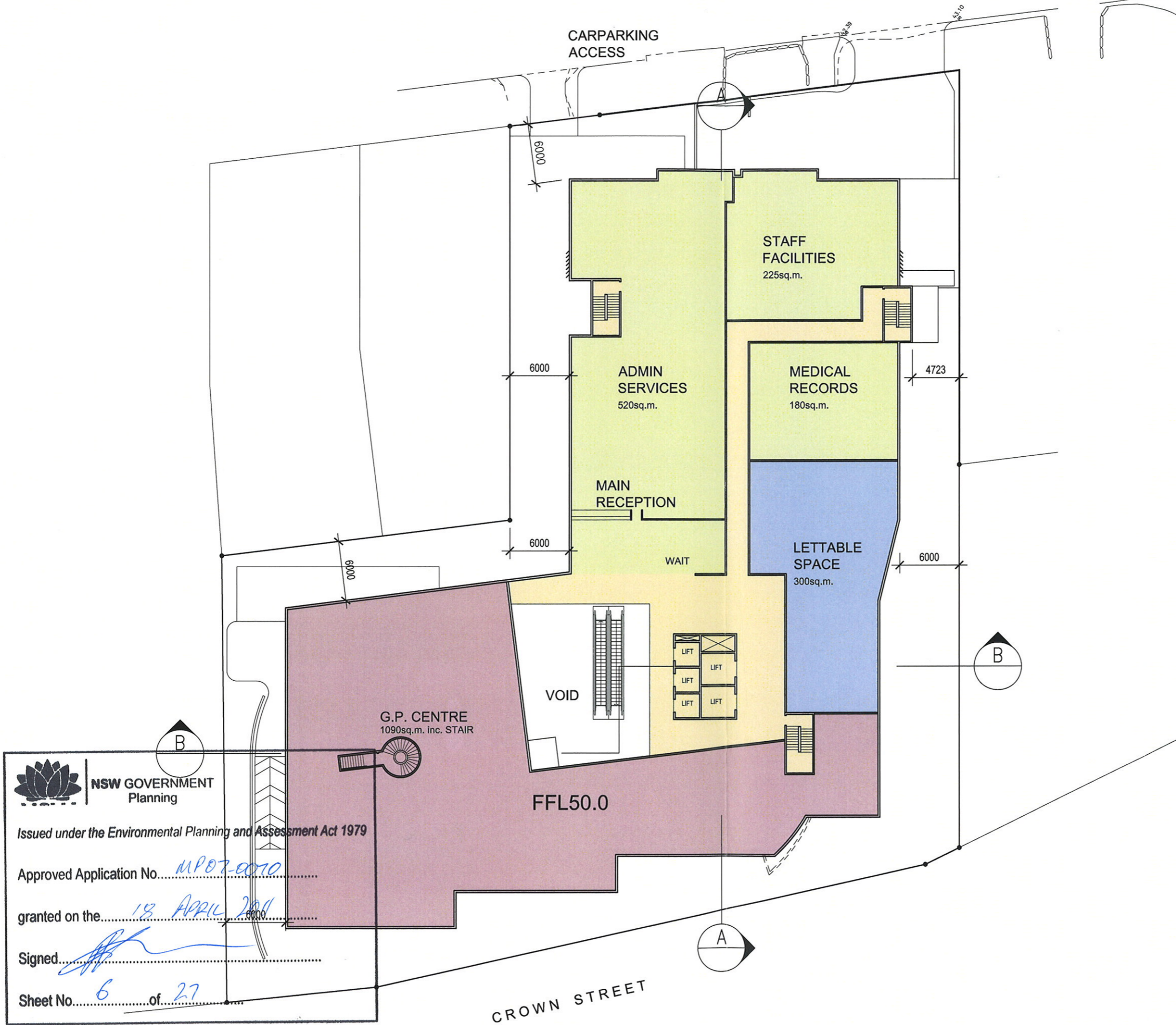
360-364 CROWN STREET  
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WOLLONGONG

Client  
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Pty Ltd**

Architect +  
Interior Design

**MURPHYs**  
Architecture Pty Limited  
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Lane Cove NSW 2066  
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**LEVEL 1 PLAN**



**NSW GOVERNMENT  
Planning**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. MPO7-0070

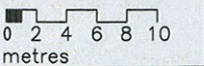
granted on the 18 APRIL 2010

Signed [Signature]

Sheet No. 6 of 27



SCALE: 1:400 @ A3



**DA.08**

REVISION B  
20 OCTOBER 2010

URUNGA PARADE



# WOLLONGONG PRIVATE HOSPITAL

360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

Client  
**AA CROWN HOLDINGS**  
Pty Ltd

Architect +  
Interior Design

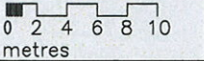
**MURPHY'S**  
Architecture Pty Limited

ACN 090 729 276  
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Lane Cove NSW 2066  
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Fax +61 2 9925 0055

LEVEL 2 PLAN



SCALE: 1:400 @ A3



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granted on the 18 APRIL 2011

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# DA.09

REVISION B  
20 OCTOBER 2010

URUNGA PARADE

**WOLLONGONG PRIVATE HOSPITAL**

360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

Client  
**AA CROWN HOLDINGS  
Pty Ltd**

Architect +  
Interior Design

**MURPHYs**  
Architecture Pty Limited  
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**LEVEL 3 PLAN**



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Sheet No. 8 of 27



SCALE: 1:400 @ A3

0 2 4 6 8 10 metres

**DA.10**  
REVISION B  
20 OCTOBER 2010

CROWN STREET

URUNGA PARADE



# WOLLONGONG PRIVATE HOSPITAL

360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

Client

AA CROWN HOLDINGS  
Pty Ltd

Architect +  
Interior Design

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## LEVEL 4 PLAN



SCALE: 1:400 @ A3  
 0 2 4 6 8 10  
 metres



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granted on the 18 APRIL 2011

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Sheet No. 1 of 27

CROWN STREET

# DA.11

REVISION B  
20 OCTOBER 2010

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**WOLLONGONG PRIVATE HOSPITAL**

360-364 CROWN STREET  
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**AA CROWN HOLDINGS  
Pty Ltd**

Architect +  
Interior Design

**MURPHY'S**  
Architecture Pty Limited

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Lane Cove NSW 2066  
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**LEVEL 5 PLAN**



SCALE: 1:400 @ A3  
 0 2 4 6 8 10  
 metres

**DA.12**

REVISION B  
20 OCTOBER 2010



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Sheet No. 10 of 27

CROWN STREET

BIRTHING FACILITIES

URUNGA PARADE

# WOLLONGONG PRIVATE HOSPITAL

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Pty Ltd

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Interior Design

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LEVEL 6 PLAN



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granted on the 18 April 2011

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Sheet No. 11 of 27

CROWN STREET



SCALE: 1:400 @ A3  
0 2 4 6 8 10  
metres

# DA.13

REVISION B  
20 OCTOBER 2010

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**WOLLONGONG PRIVATE HOSPITAL**

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(PRINCES HIGHWAY)  
WOLLONGONG

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**AA CROWN HOLDINGS  
Pty Ltd**

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Interior Design

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Architecture Pty Limited  
ACN 090 729 276  
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Lane Cove NSW 2066  
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**LEVEL 7 PLAN**



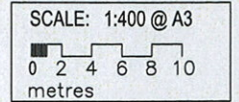
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No..... *MP07-0070*

granted on the..... *13 APRIL 2011*

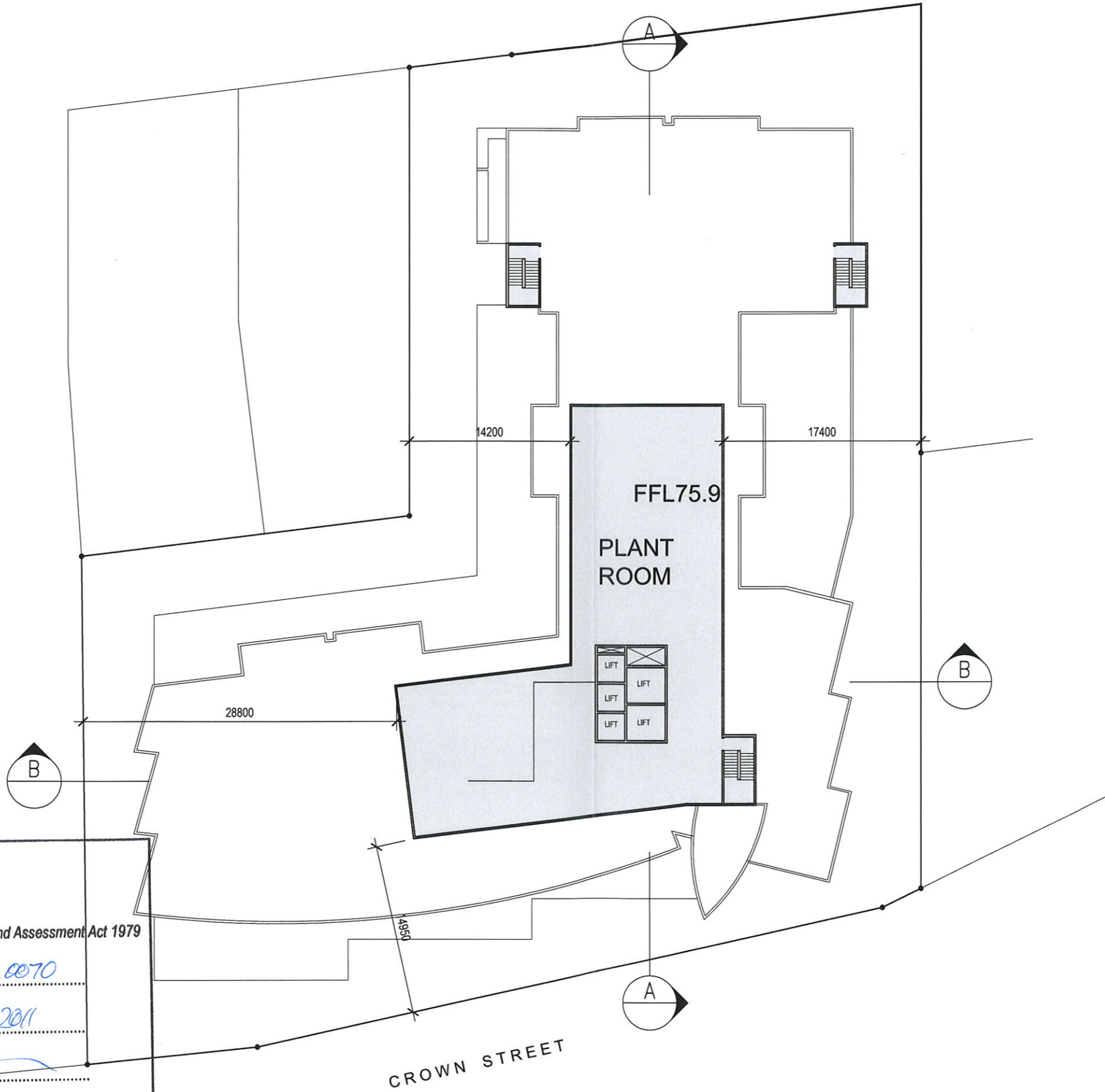
Signed..... *[Signature]*

Sheet No..... *12*..... of..... *27*.....



**DA.14**  
REVISION B  
20 OCTOBER 2010

URUNGA PARADE



### WOLLONGONG PRIVATE HOSPITAL

360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

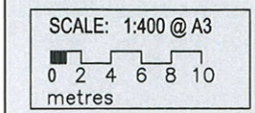
Client  
AA CROWN HOLDINGS  
Pty Ltd

Architect +  
Interior Design

### MURPHY'S Architecture Pty Limited

ACN 090 729 276  
PO Box 669  
Lane Cove NSW 2066  
Phone +61 411 188 403  
Fax +61 2 9925 0055

### PLANT ROOM PLAN



Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. MP07-0070

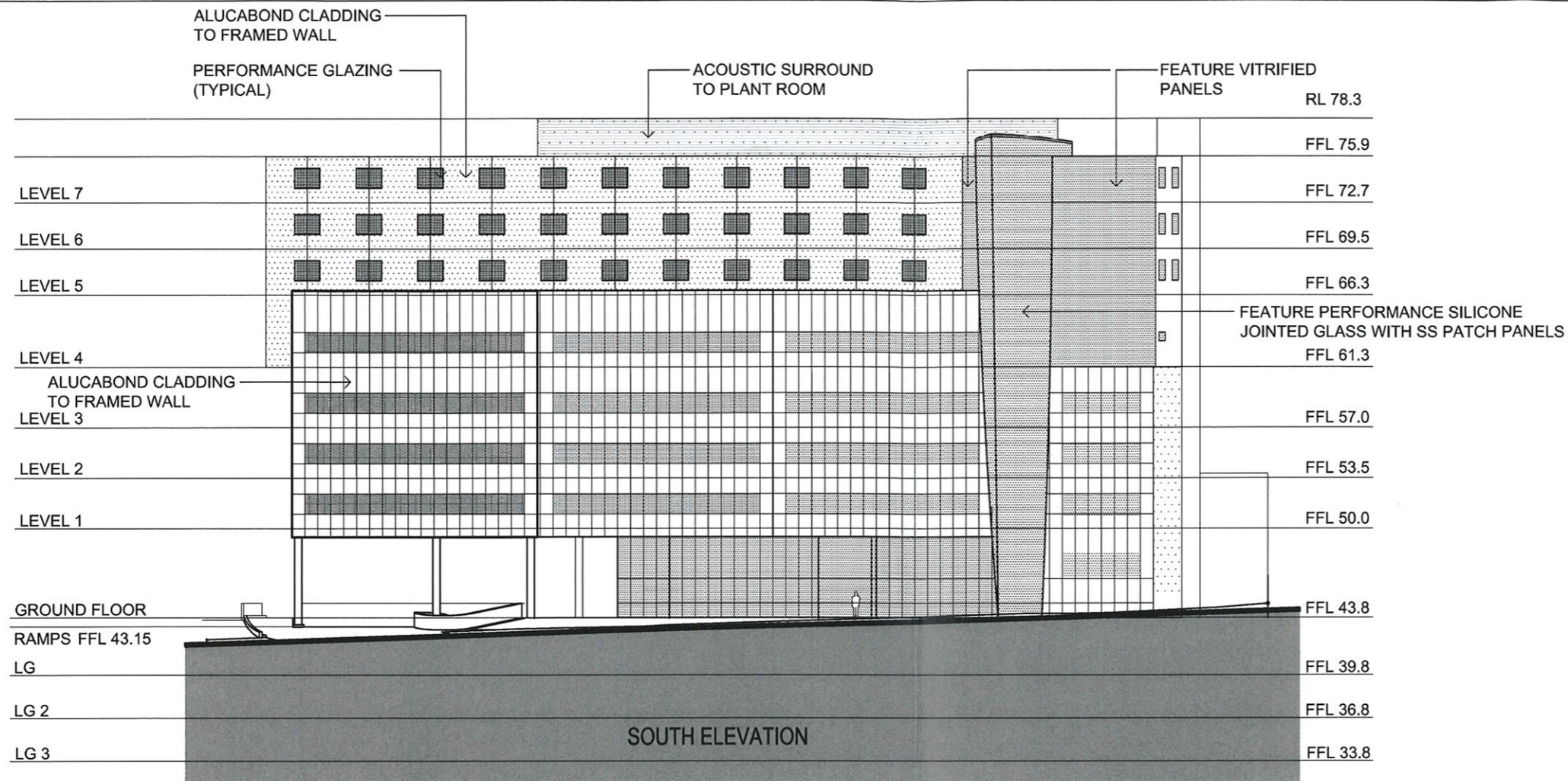
granted on the 18 APRIL 2011

Signed [Signature]

Sheet No. 13 of 27

## DA.15

REVISION B  
20 OCTOBER 2010



**WOLLONGONG PRIVATE HOSPITAL**

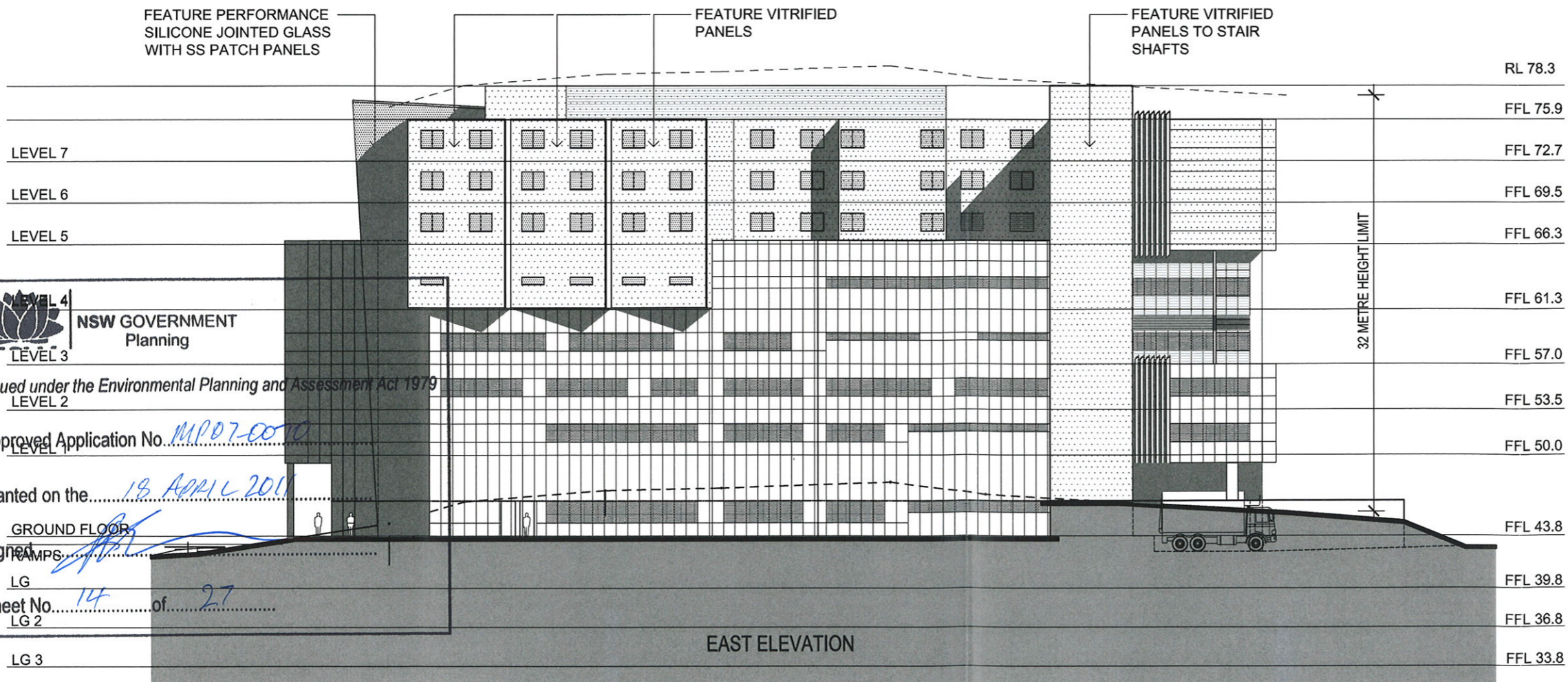
360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

Client  
**AA CROWN HOLDINGS**  
Pty Ltd

Architect +  
Interior Design

**MURPHY'S**  
Architecture Pty Limited  
ACN 090 729 276  
PO Box 669  
Lane Cove NSW 2066  
Phone +61 411 188 403  
Fax +61 2 9925 0055

**SOUTH & EAST ELEVATIONS**



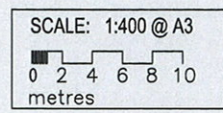
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. MP07-0070

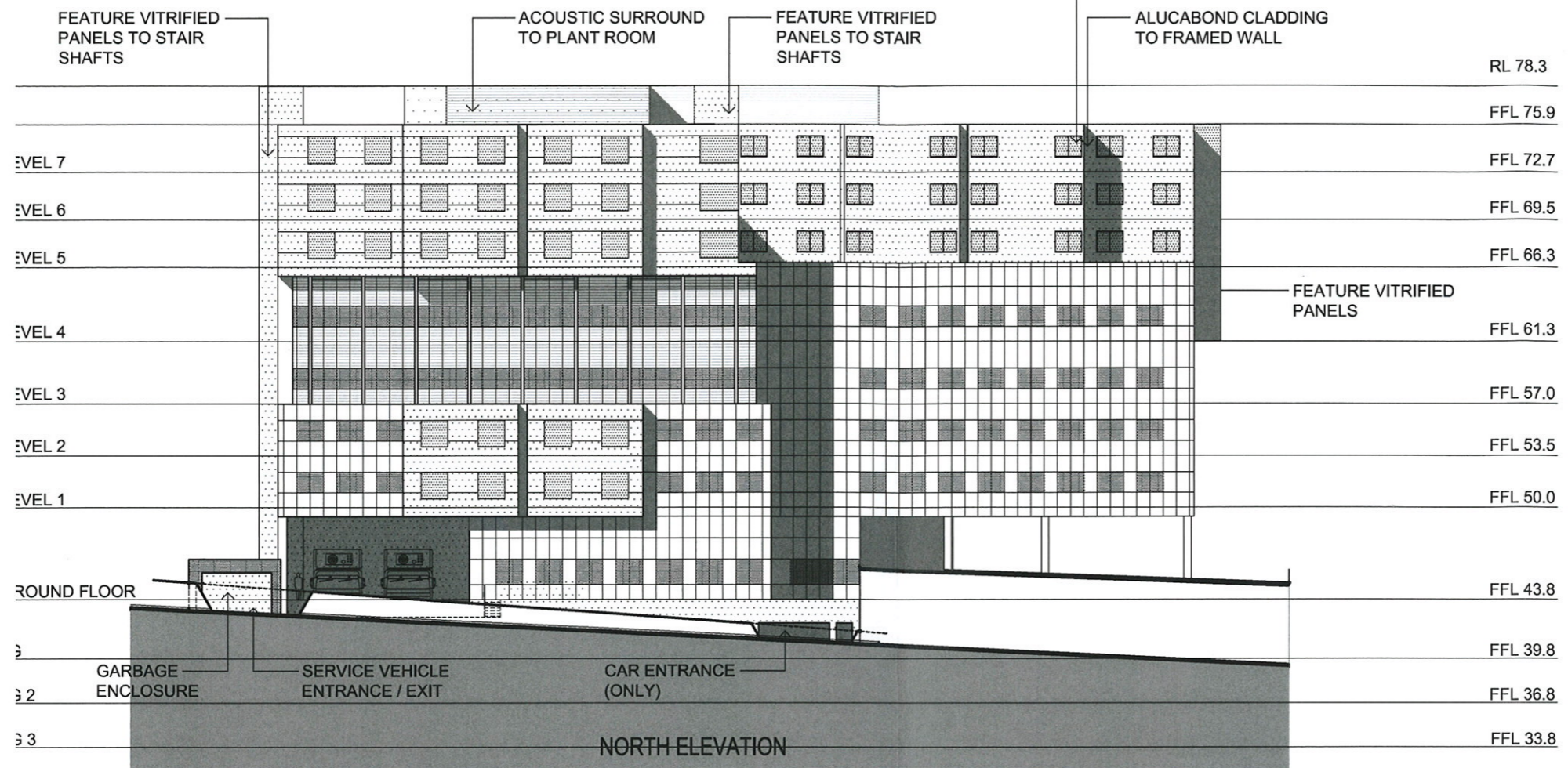
granted on the 18 April 2011

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Sheet No. 14 of 27



**DA.16**  
REVISION B  
20 OCTOBER 2010



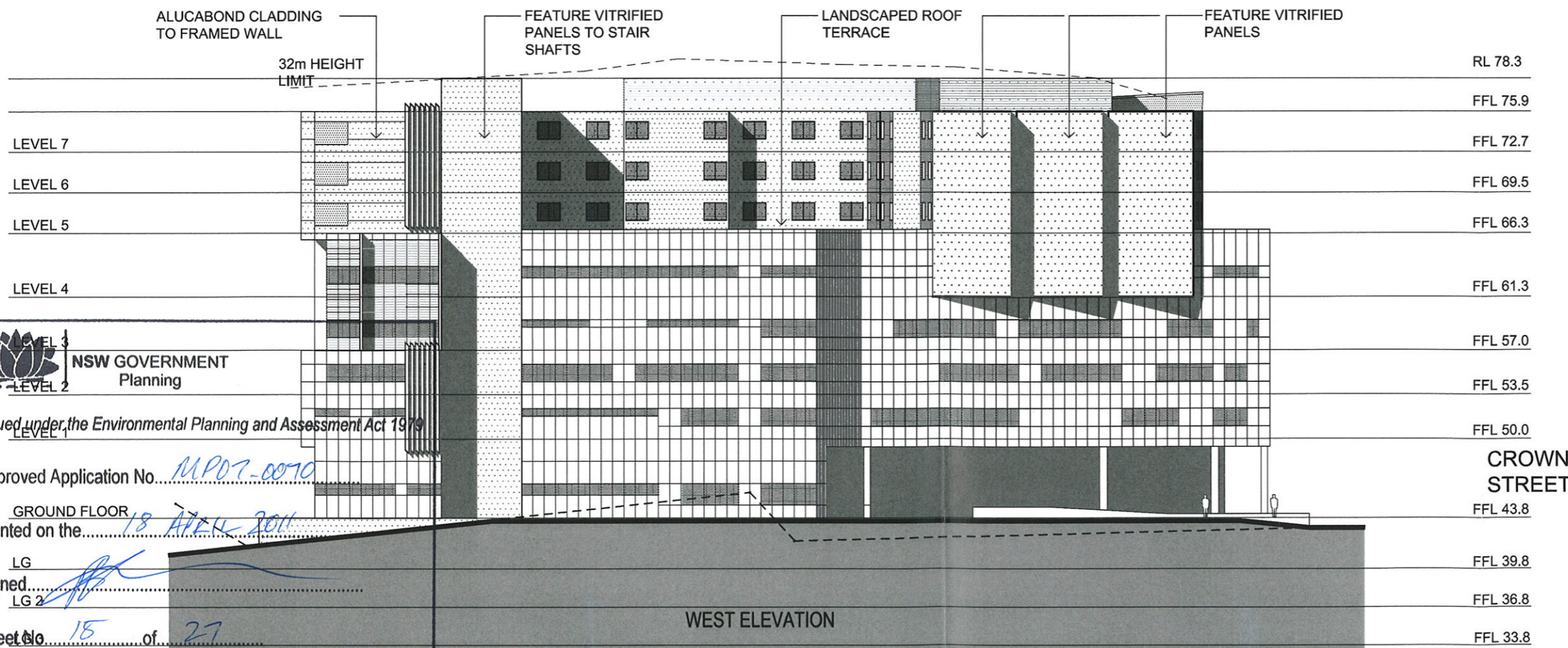
**WOLLONGONG PRIVATE HOSPITAL**

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WOLLONGONG


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Interior Design

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Lane Cove NSW 2066  
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Fax +61 2 9925 0055



**NORTH & WEST ELEVATIONS**

 **NSW GOVERNMENT**  
Planning

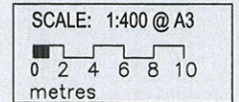
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. *MPO7-0070*

granted on the *18 APRIL 2011*

Signed *[Signature]*

Sheet No. *15* of *27*



**DA.17**  
REVISION B  
20 OCTOBER 2010

**WOLLONGONG PRIVATE HOSPITAL**

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Pty Ltd

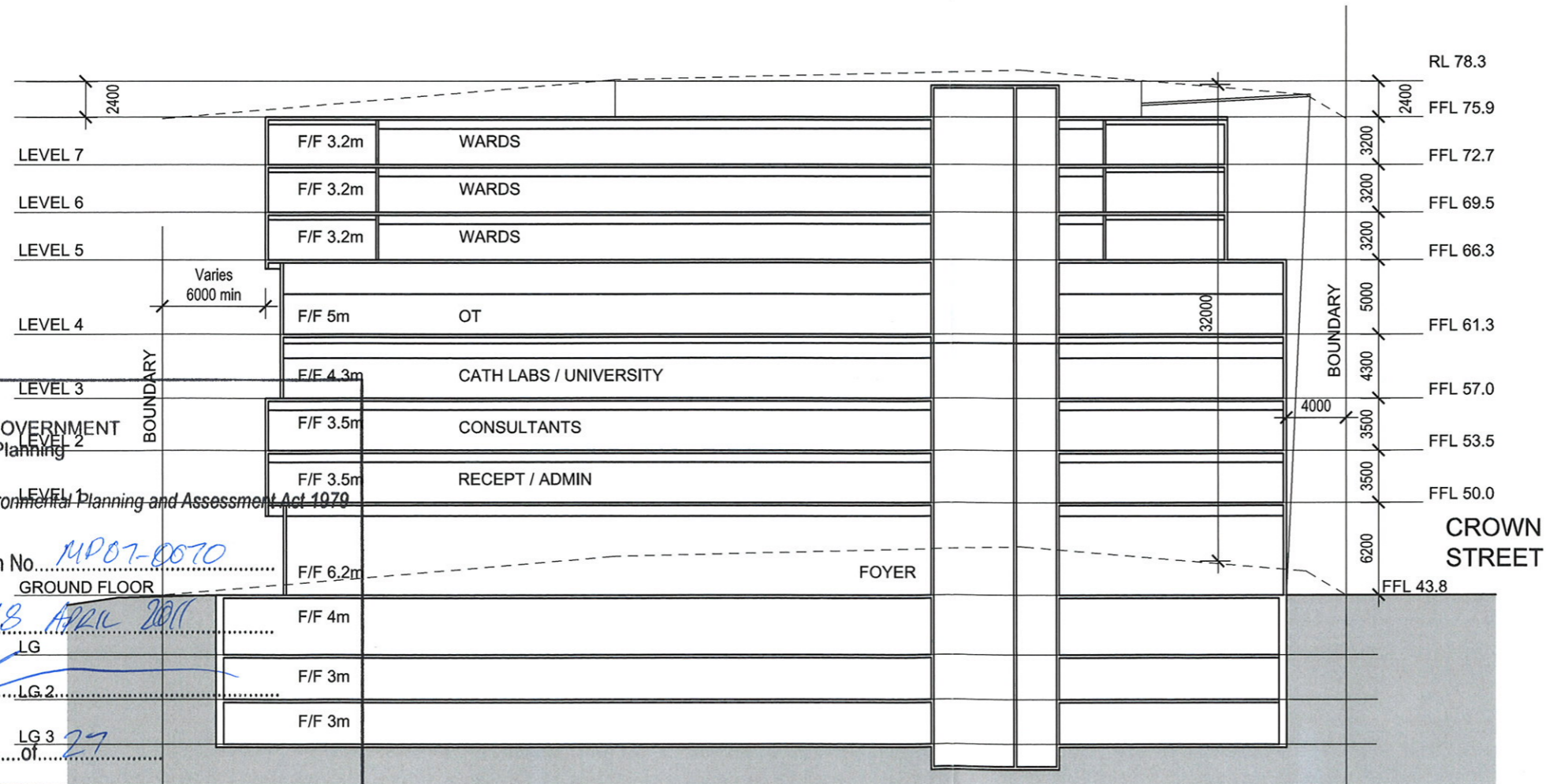
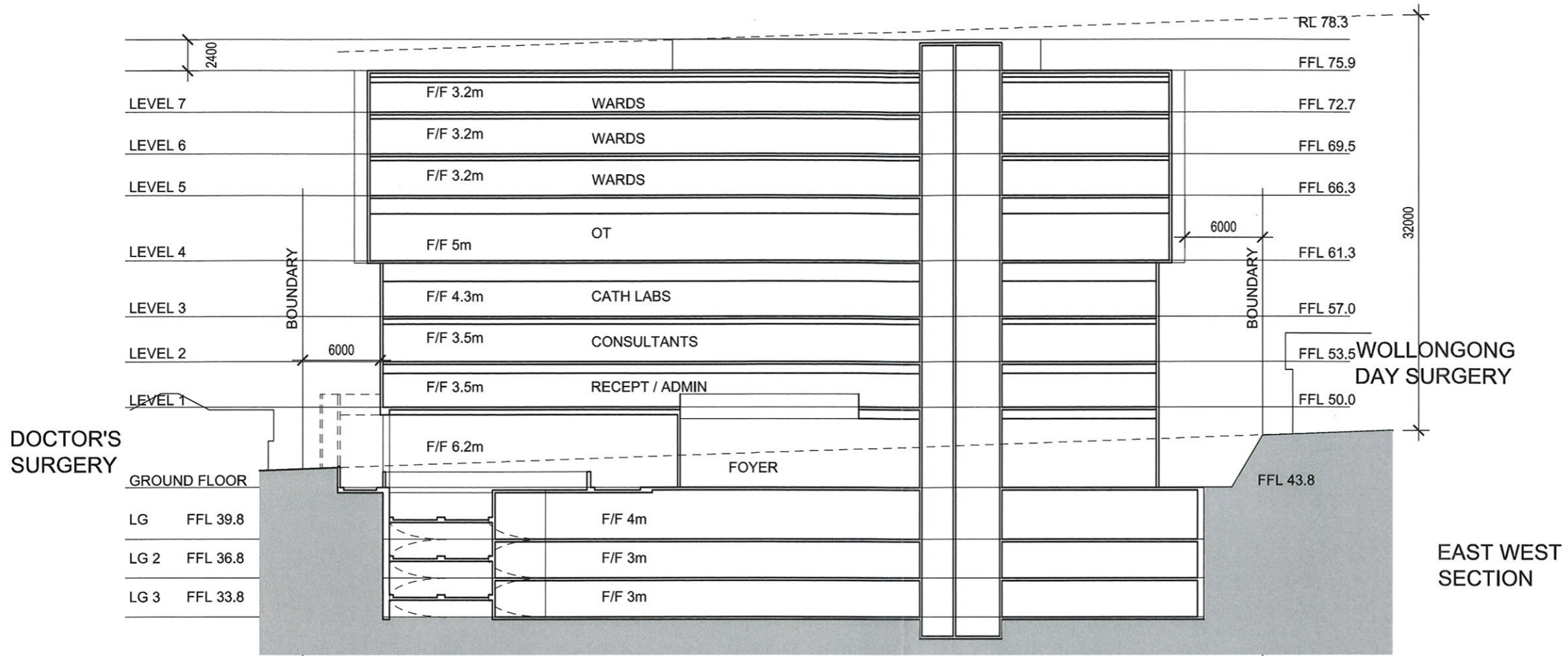
Architect +  
Interior Design

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Architecture Pty Limited  
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PO Box 669  
Lane Cove NSW 2066  
Phone +61 411 188 403  
Fax +61 2 9925 0055

**SECTIONS**

SCALE: 1:400 @ A3  
0 2 4 6 8 10  
metres

**DA.18**  
REVISION B  
20 OCTOBER 2010



NSW GOVERNMENT  
Planning

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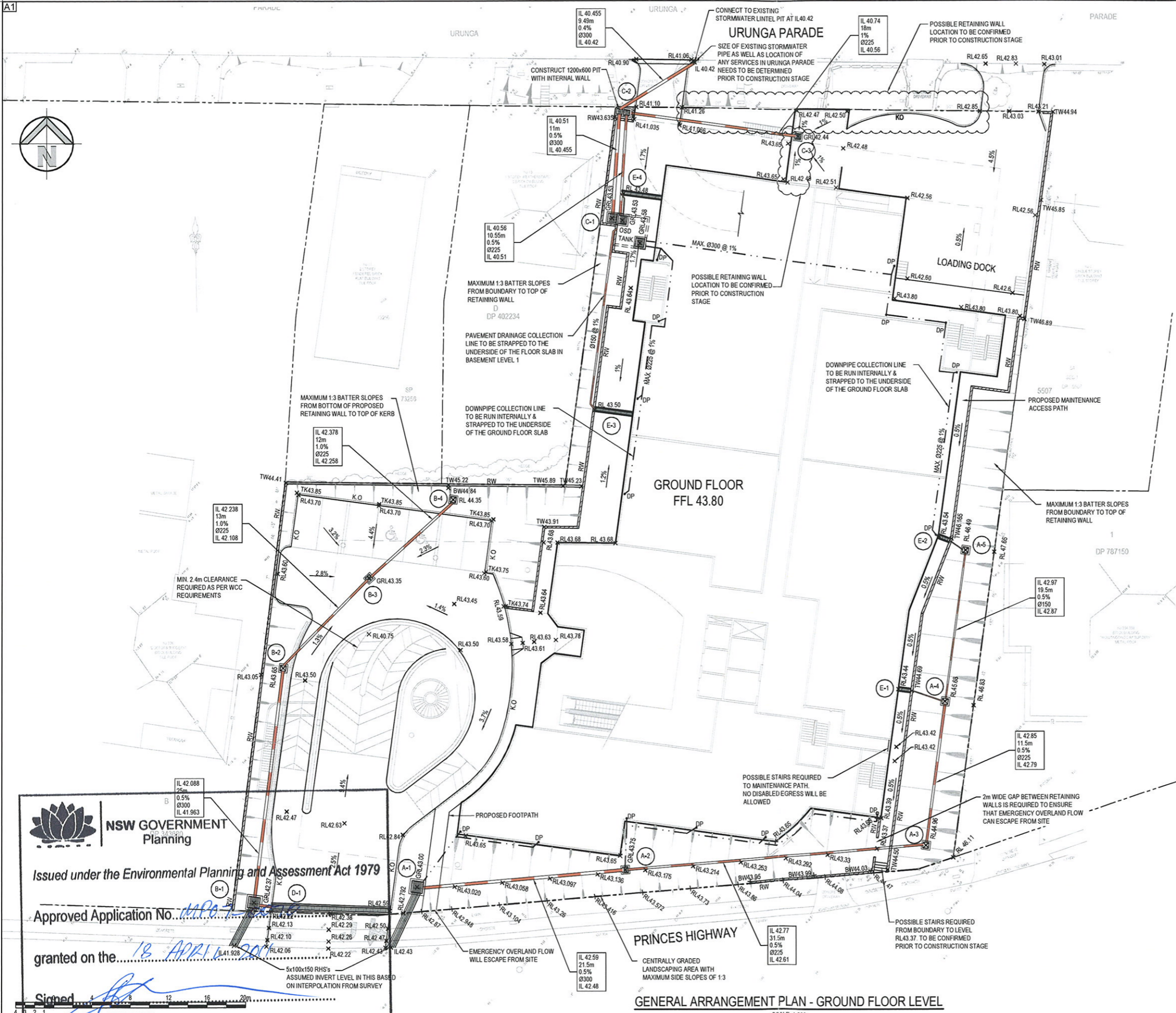
URUNGA  
PARADE  
Approved Application No. *MP07-0070*

granted on the *18 APRIL 2011*

Signed *[Signature]*

Sheet No. *16* of *27*

**CROWN STREET**



- LEGEND**
- EXISTING BOUNDARY
  - - - PROPOSED RIDGE LINE
  - - - PROPOSED VALLEY LINE
  - ⊗ PROPOSED JUNCTION PITS
  - PROPOSED SURFACE INLET PITS
  - ⊙ LINE LETTER
  - ⊙ PIT NUMBER
  - ⊙ PROPOSED PIT TAG
  - IL 42.97 19.5m 0.5% 0150 IL 42.87
  - 40 125 042RCP 20 4500 1.5% 30 818
  - PROPOSED STORMWATER UPSTREAM INVERT RL
  - PROPOSED STORMWATER PIPE DIAMETER & CLASS
  - PROPOSED STORMWATER PIPE LENGTH
  - PROPOSED STORMWATER PIPE GRADE
  - PROPOSED STORMWATER DOWNSTREAM INVERT RL
  - PROPOSED GRATED DRAIN
  - PROPOSED STORMWATER PIPE
  - PROPOSED BATTER LINE
  - RL 43.520 KO
  - PROPOSED SPOT LEVEL
  - PROPOSED KERB ONLY
  - PROPOSED RETAINING WALL
  - PROPOSED RISING MAIN
  - TW 45.20
  - BW 45.20
  - TOP OF RETAINING WALL LEVEL
  - BOTTOM OF RETAINING WALL LEVEL
  - TW 45.20
  - TOP OF KERB LEVEL

**NSW GOVERNMENT Planning**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. *MPO 7-1-2017*

granted on the *18 APRIL 2017*

Signed *[Signature]*

SCALE 1:200

Sheet No. *17* of *27*

**GENERAL ARRANGEMENT PLAN - GROUND FLOOR LEVEL**  
SCALE 1:200

**FOR DA ONLY**

Client  
**AA CROWN HOLDINGS PTY LTD**

Architect  
**MURPHY'S ARCHITECTURE PTY LTD**

**HENRY & HYMAS**  
LEVEL 5 79 VICTORIA AVENUE  
CHATSWOOD NSW 2067

Phone: 02 9417 8400  
Fax: 02 9417 8337  
Email: email@hny.com.au  
Web: www.henryandhymas.com.au

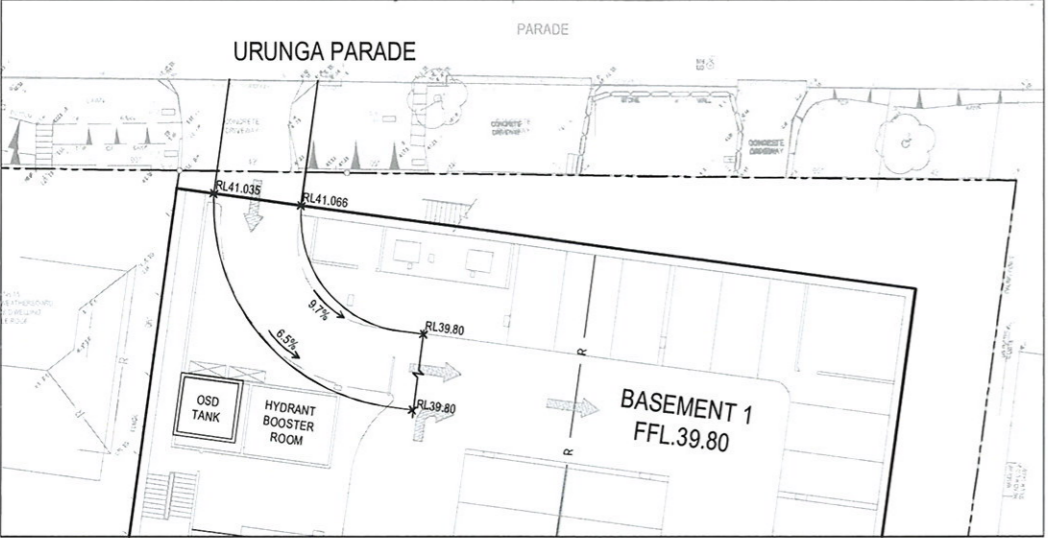
Project  
**PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONG**

Title  
**GENERAL ARRANGEMENT PLAN  
GROUND FLOOR LEVEL**

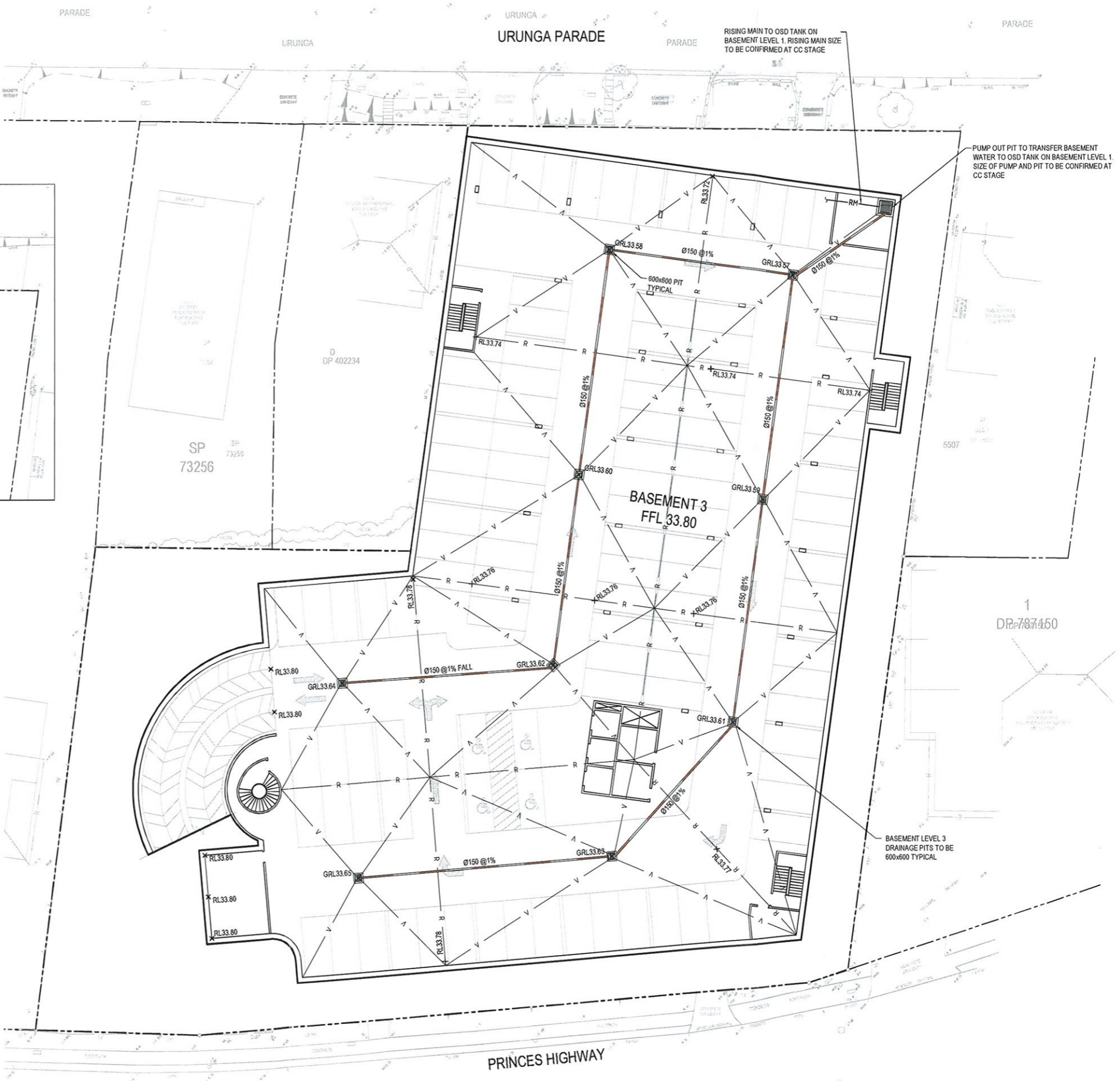
Drawn J.Liu	Designed S.Coman/T.Dempsey	Date MAR 2010
Checked T.Dempsey	Approved A.Francis	Scale 1:200 @ A1
Drawing number <b>10024_DA_C100</b>	Revision <b>01</b>	

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUED FOR DA ONLY	01/04/2010			

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**GENERAL ARRANGEMENT PLAN - BASEMENT LEVEL 1**  
SCALE: 1:200



**GENERAL ARRANGEMENT PLAN - BASEMENT LEVEL 3**  
SCALE: 1:200

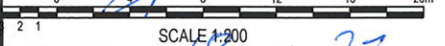


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Approved Application No. MP07-0070

granted on the 18 APRIL 2011

Signed [Signature]



Sheet No. 18 of 27

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUED FOR DA ONLY	01/09/2010			

Client  
**AA CROWN HOLDINGS PTY LTD**

Architect  
**MURPHY'S ARCHITECTURE PTY LTD**

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**HENRY & HYMAS**  
LEVEL 5 79 VICTORIA AVENUE  
CHATSWOOD NSW 2067

Phone - 02 9417 8400  
Fax - 02 9417 8337  
Email - [enr@henryandhymas.com.au](mailto:enr@henryandhymas.com.au)  
Web - [www.henryandhymas.com.au](http://www.henryandhymas.com.au)

Project  
**PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONG**

Title  
**GENERAL ARRANGEMENT PLAN  
BASEMENT LEVEL 1 & BASEMENT LEVEL 3**

Drawn J.Liu	Designed S.Coman/T.Dempsey	Date MAR 2010
Checked T.Dempsey	Approved A.Francis	Scale 1:200 @ A1
Drawing number <b>10024_DA_C101</b>	Revision <b>01</b>	

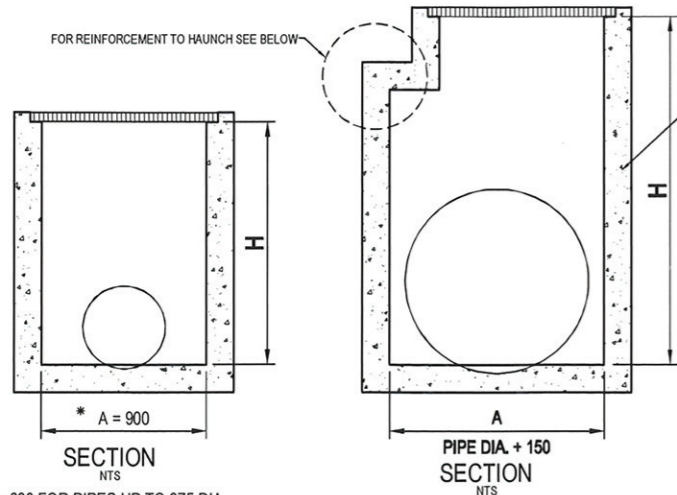
**FOR DA ONLY**

TYPICAL PIT CHAMBER SIZES

IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

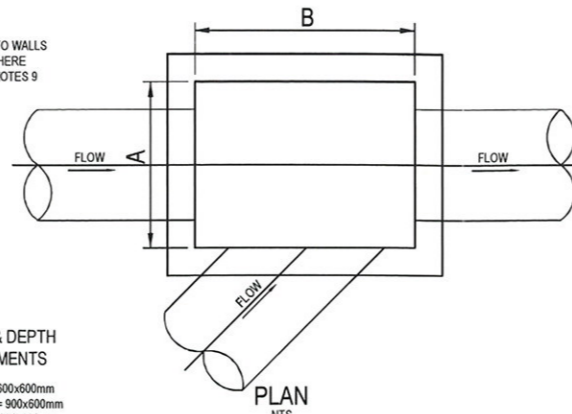
- 1 SELECT PIT CHAMBER USING THE STEPS BELOW.
- 2 SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- 3 CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
- 4 CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm  
 FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm  
 FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm  
 FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm  
 FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



\*A = 600 FOR PIPES UP TO 375 DIA.  
 1 PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

1 PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.



3 PIT CHAMBER FOR SIDE ENTRY ON SKEW

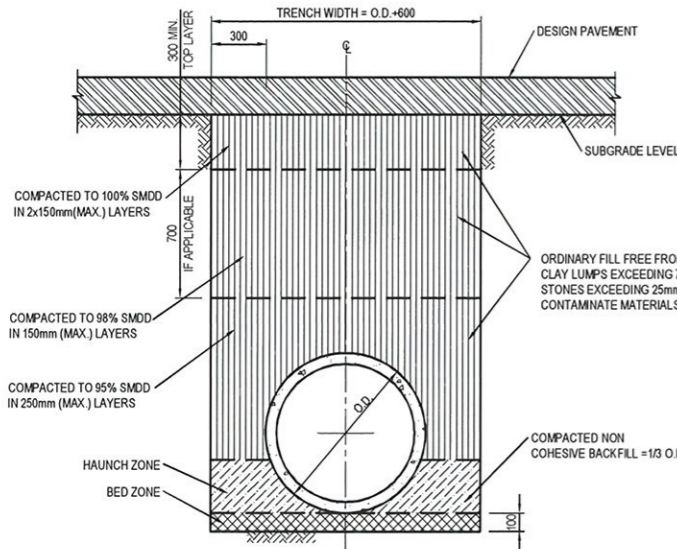
- 2 PIT SIZE & DEPTH REQUIREMENTS
- H = 0-900mm - Ax B = 600x600mm  
 H = 900-1200mm - Ax B = 900x600mm  
 H = >1200mm - Ax B = 900x900mm

PIT LID SCHEDULE

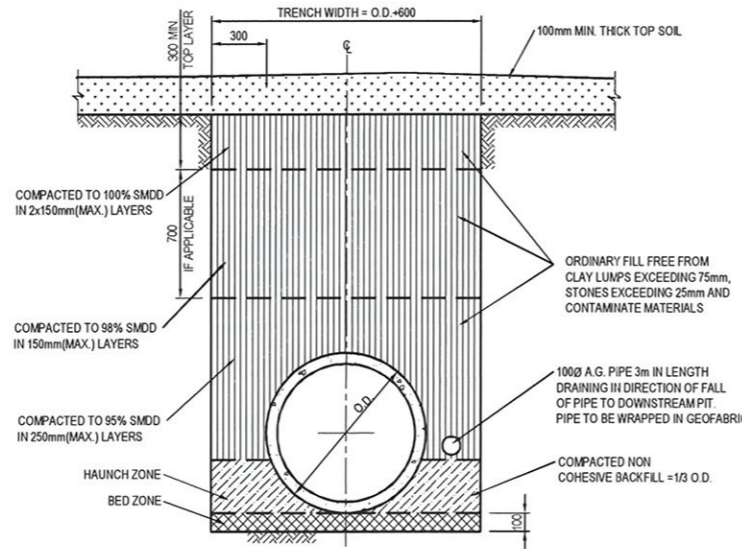
PIT/STRUCTURE NUMBER	DESCRIPTION
A-1 B-1	INLET PIT WITH 1200x1200 HINGED MEDIUM DUTY GRATED LID CLASS 'C' IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.
A-2 B-3 C-3	INLET PIT WITH 600x600 HINGED MEDIUM DUTY GRATED LID CLASS 'C' IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.
A-3 A-4 A-5 B-4	JUNCTION PIT WITH 600x600 BOLT DOWN MEDIUM DUTY CONCRETE LID
E-1 E-2 E-3 E-4	300mm WIDE LIGHT DUTY GRATED DRAIN AND LIGHT DUTY FRAME CLASS 'A'
D-1	450mm WIDE MEDIUM DUTY GRATED DRAIN AND MEDIUM DUTY FRAME CLASS 'D'
C-1	OSD DISCHARGE CONTROL PIT WITH 900x900 HINGED MEDIUM DUTY GRATED LID CLASS 'C' IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.
G-2	CONSTRUCTED INLET WITH TWO 600x600 HINGED MEDIUM DUTY GRATED LIDS CLASS 'C' IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.

STORMWATER DRAINAGE NOTES:

1. STORMWATER DESIGN CRITERIA: THE STORMWATER DESIGN SHOWN ON THESE DRAWINGS HAS BEEN CARRIED OUT IN ACCORDANCE WITH AUBURN COUNCIL'S REQUIREMENTS AND AUSTRALIAN RAINFALL AND RUNOFF (AR&R) GUIDELINES.
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS 2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINT'S U.N.O.
3. PIPES UP TO 300 DIA. SHALL BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
5. PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 (OR A DENSITY INDEX OF NOT LESS THAN 75).
6. APPROVED PRECAST CONCRETE PITS INSIDE PROPERTY BOUNDARIES MAY BE USED IN LIEU OF CAST INSITU PITS WHERE SUITABLE.
7. WHERE TRENCHES ARE IN ROCK THE PIPE SHALL BE BEDDED ON A MINIMUM OF 50 MM CONCRETE BED (OR 75 MM BED OF 12 MM BLUE METAL) UNDER THE BARREL OF THE PIPE.
8. ENLARGERS, CONNECTORS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
9. WHERE SUBSOIL DRAINS PASS UNDER THE FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED UPVC SEWER GRADE PIPE IS TO BE USED.
10. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
11. GRATES AND COVERS SHALL CONFORM TO AS3996 - 1992 AT ALL TIMES DURING CONSTRUCTION OF THE STORMWATER PITS.
12. ADEQUATE SAFETY PROCEDURES SHALL BE IMPLEMENTED TO PREVENT PERSONNEL FALLING INTO OPEN PITS.
13. EXISTING STORMWATER PIPE LOCATIONS AND INVERT LEVELS TO BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
14. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT FOR FURTHER DIRECTIONS.
15. AREAS AND ROAD PAVEMENTS



PIPE TRENCH INSTALLATION BENEATH PAVEMENT (H1 & H2 SUPPORT) SCALE 1:20



PIPE TRENCH INSTALLATION IN LANDSCAPE AREAS (H1 & H2 SUPPORT) SCALE 1:20

**NSW GOVERNMENT Planning**

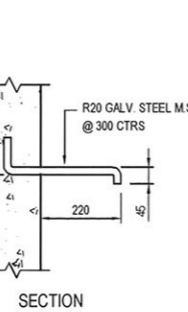
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. MPO7-0070

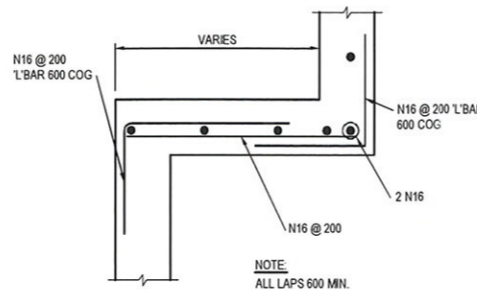
granted on the 18 APRIL 2010

Signed [Signature]

Sheet No. 19 of 27



TYPICAL STEP IRON DETAILS N.T.S.

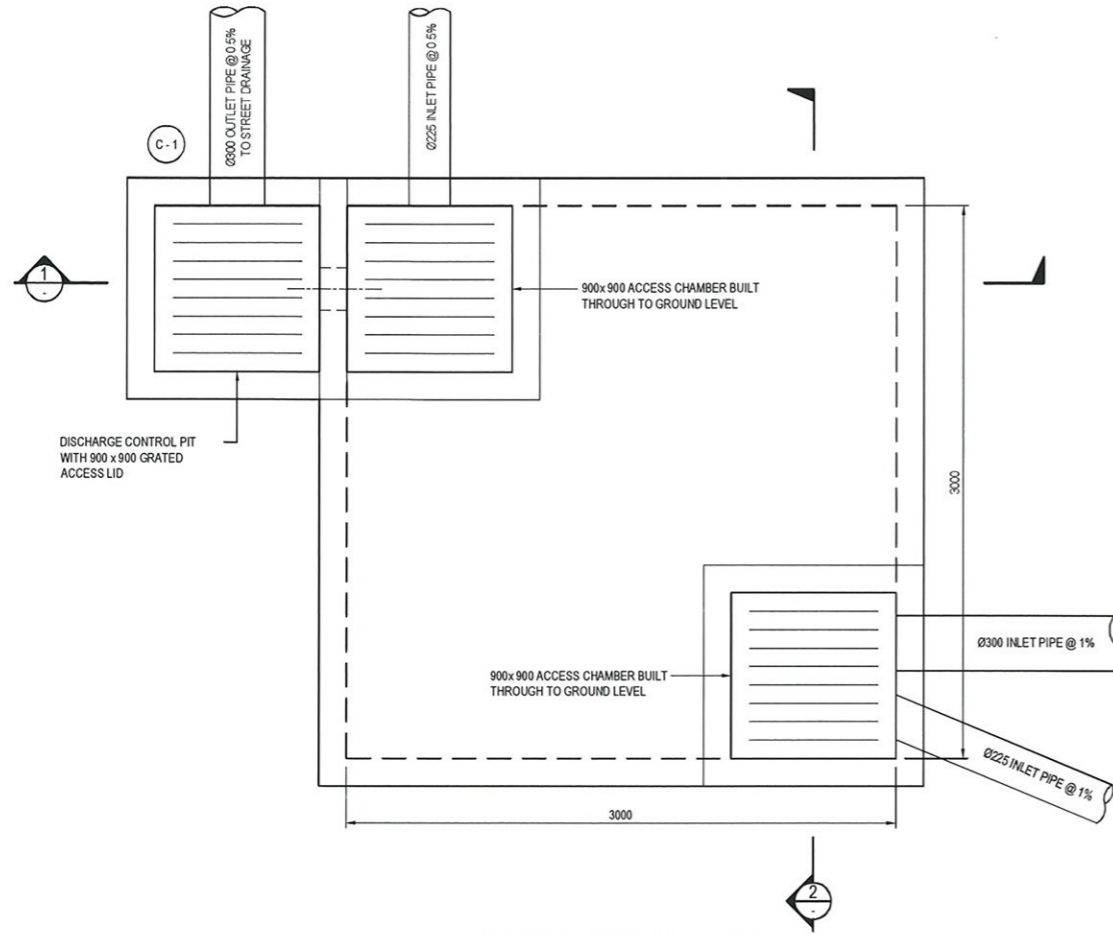


HAUNCH DETAIL - TYPICAL N.T.S.

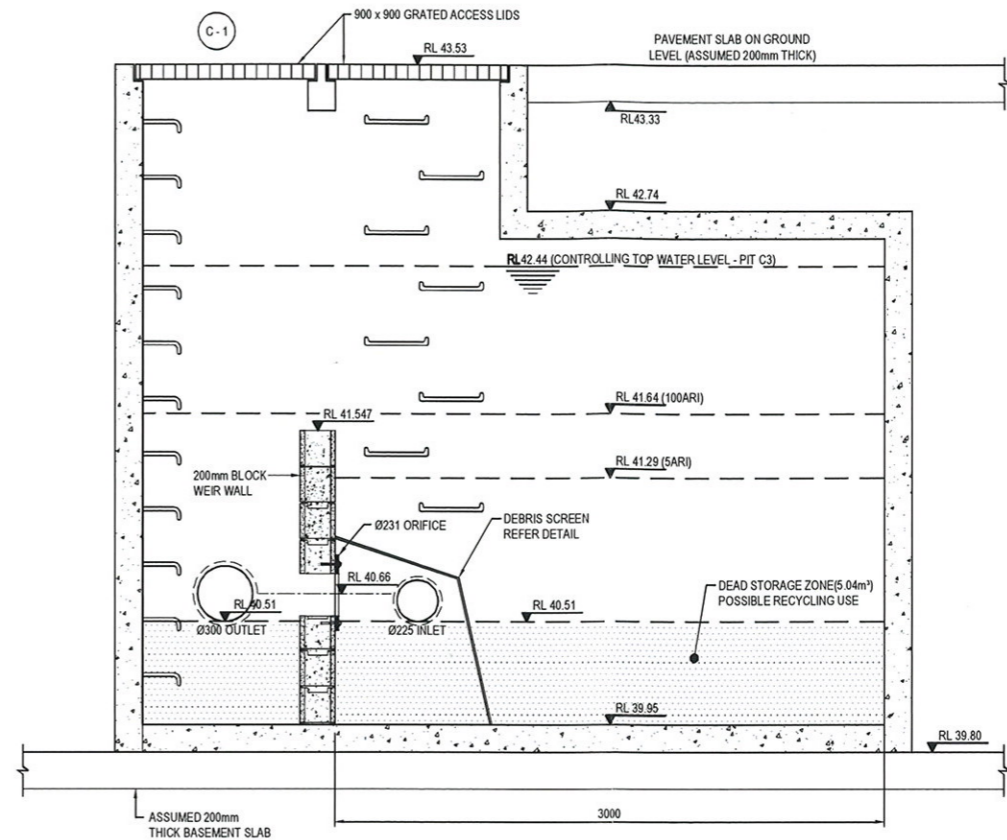


FOR DA ONLY

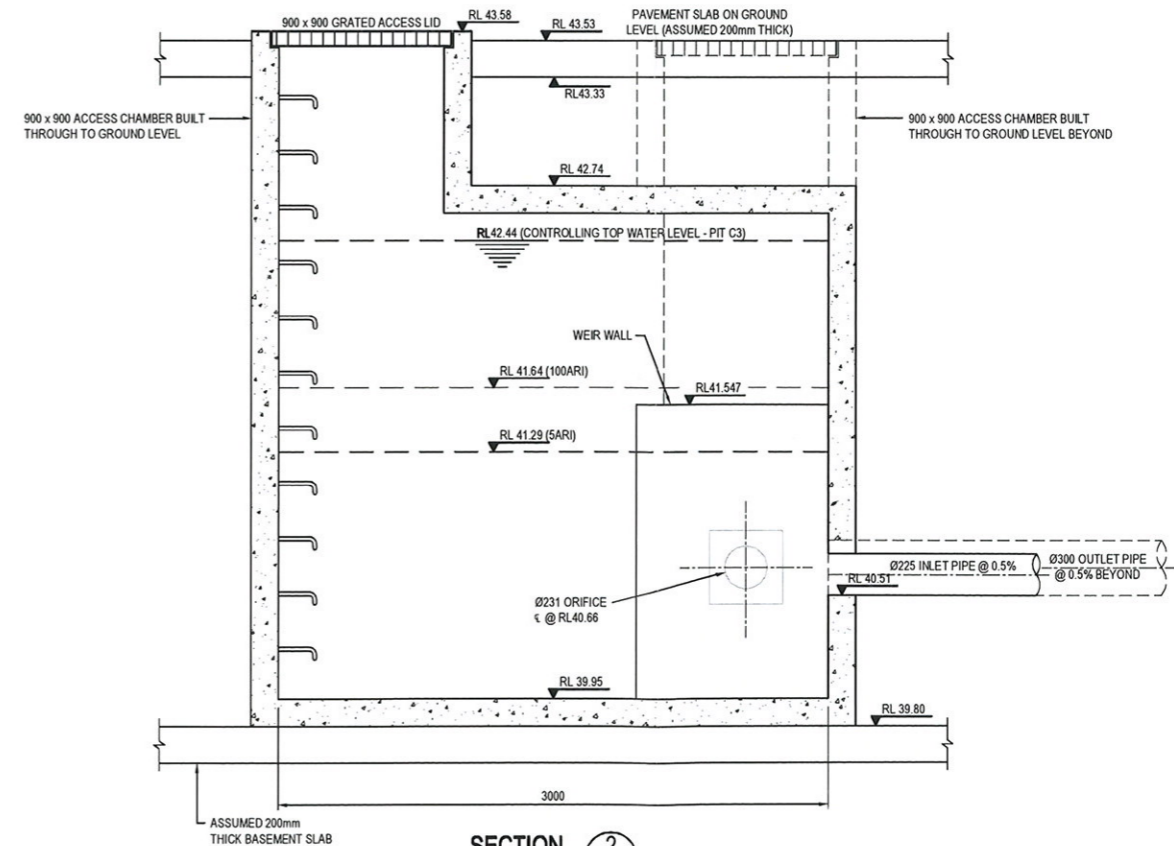
Client AA CROWN HOLDINGS PTY LTD	Project PROPOSED PRIVATE HOSPITAL 360-364 CROWN STREET WOLLONGONG	Drawn J.Liu	Designed S.Coman	Date MAR 2010
Architect MURPHY'S ARCHITECTURE PTY LTD	Checked T.Dempsey	Approved A.Francis	Scale N.T.S.	
Title STORMWATER MISCELLANEOUS DETAILS & PIT LID SCHEDULE		Drawing number 10024_DA_C200	Revision 01	
This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.		HENRY & HYMAS LEVEL 5 79 VICTORIA AVENUE CHATSWOOD NSW 2067 Phone: 02 9417 8400 Fax: 02 9417 8337 Email: email@hnycomult.com.au Web: www.henryandhymas.com.au		



PLAN LAYOUT - OSD TANK  
SCALE 1:20



SECTION 1  
SCALE: 1:20

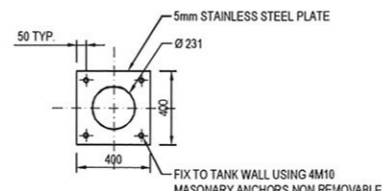
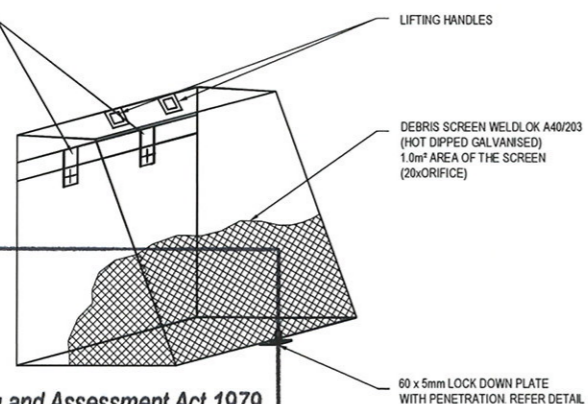


SECTION 2  
SCALE: 1:20

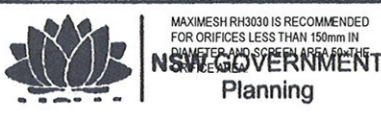
100 x 16 MOUNTING BAR WITH BRACKETS. SCREEN TO BE ATTACHED (GENERALLY ON A SLIDING MECHANISM) TO THE WALL, BUT SHOULD BE REMOVABLE (WITHOUT THE USE OF TOOLS) TO PERMIT CLEANSING AND EASY INSPECTION OF THE OUTLET CONTROL. ALL STEEL TO BE HOT DIPPED GALVANISED.

SCREEN TYPE WELDLOK A40/203 IS RECOMMENDED FOR ORIFICES LARGER THAN 150mm AND SCREEN AREA 20x THE ORIFICE AREA FOR THAT TYPE OF SCREEN - REFER UPRCT SECTION 4-13

MAXIMESH RH3030 IS RECOMMENDED FOR ORIFICES LESS THAN 150mm IN DIAMETER AND SCREEN AREA 20x THE ORIFICE AREA FOR THAT TYPE OF SCREEN - REFER UPRCT SECTION 4-13



ORIFICE PLATE DETAIL 1  
SCALE 1:20



Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. MPO2-000000

granted on the 18 APRIL 2011

Signed [Signature] SCALE 1:20

Sheet No. 20 of 27

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUED FOR DA ONLY	01/09/2010			

Client  
AA CROWN HOLDINGS PTY LTD

Architect  
MURPHY'S ARCHITECTURE PTY LTD

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**HENRY & HYMAS**  
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CHATSWOOD NSW 2067

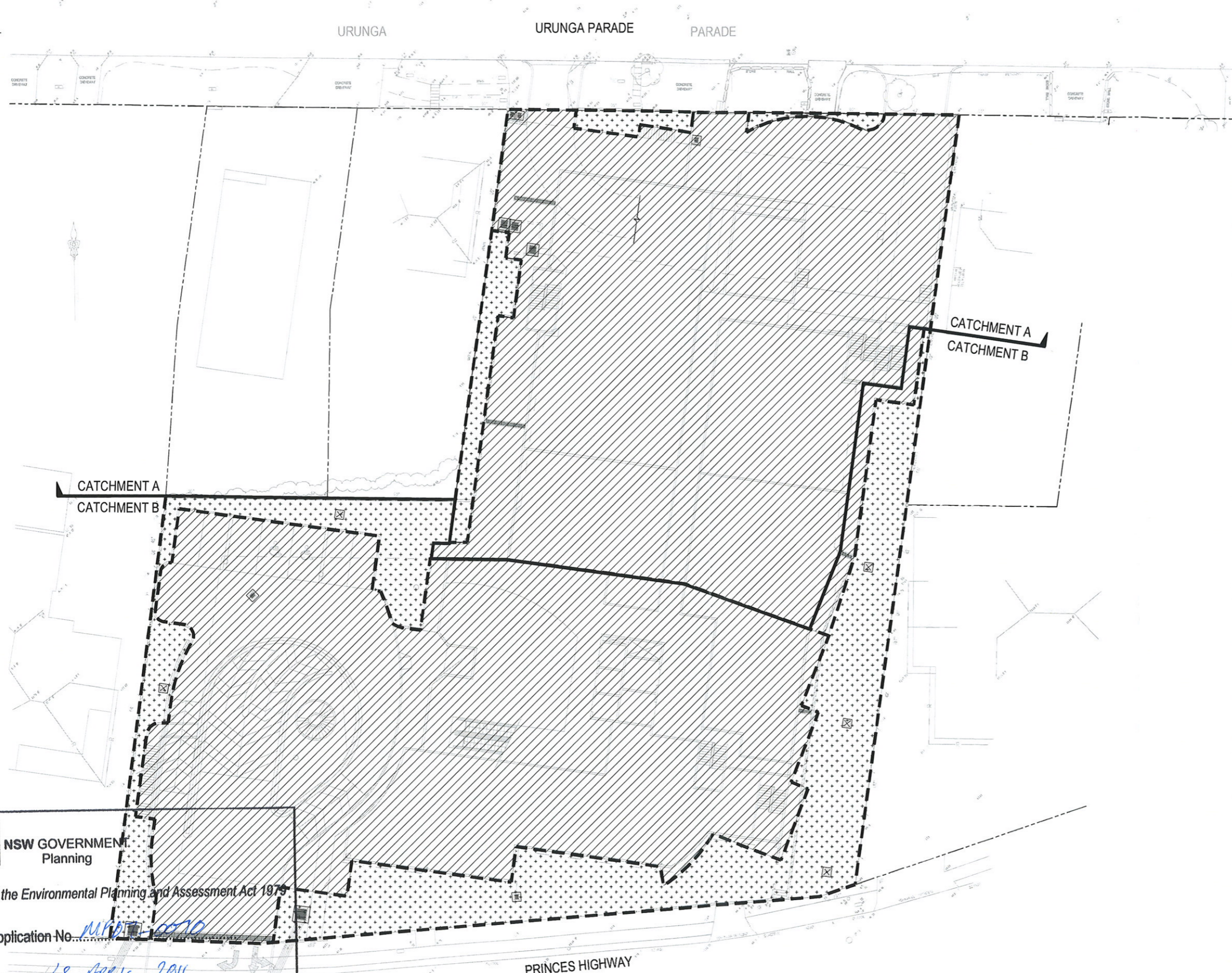
Phone: 02 9417 8400  
Fax: 02 9417 8337  
Email: [amsk@hccornwall.com.au](mailto:amsk@hccornwall.com.au)  
Web: [www.henryandhymas.com.au](http://www.henryandhymas.com.au)

Project  
PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONG

Title  
OSD TANK PLAN, SECTIONS & DETAILS

Drawn	Designed	Date
J.Liu	S.Coman	MAR 2010
Checked	Approved	Scale
T.Dempsey	A.Francis	1:20 @ A1
Drawing number	Revision	
10024_DA_C201	01	

**FOR DA ONLY**



**CATCHMENT A**  
TOTAL AREA: 2091m<sup>2</sup>

**IMPERVIOUS AREA**  
AREA: 1994m<sup>2</sup> (95%)

**PERVIOUS AREA**  
AREA: 97m<sup>2</sup> (5%)

**CATCHMENT B**  
TOTAL AREA: 2899m<sup>2</sup>

**IMPERVIOUS AREA**  
AREA: 2088m<sup>2</sup> (72%)

**PERVIOUS AREA**  
AREA: 811m<sup>2</sup> (28%)

**CATCHMENT "A" OSD CALCULATION**

PLAN DATA	
SITE AREA (m <sup>2</sup> )	2091
TRIBUTARY AREA (m <sup>2</sup> )	2091
EX. IMPERVIOUS AREA (%)	63
DEV. IMPERVIOUS AREA (%)	95

GRAPHS		
	DEV.	EX.
F15	1.195	1.000
F100	1.150	1.000
F2	1.100	1.100
F3	0.180	0.145
F4	0.680	0.680

FINAL OSD REQD			
DEV.		EX.	
PSD5 (L/s)	69.718	PSD5 (L/s)	58.340
PSD100 (L/s)	117.350	PSD100 (L/s)	102.040
SSR5 (m <sup>3</sup> )	17.460	SSR5 (m <sup>3</sup> )	11.770
SSR100 (m <sup>3</sup> )	29.380	SSR100 (m <sup>3</sup> )	20.580
SSR5*(m <sup>3</sup> )	5.690		
SSR100*(m <sup>3</sup> )	8.800		

**CATCHMENT "B" OSD CALCULATION**

PLAN DATA	
SITE AREA (m <sup>2</sup> )	2899
TRIBUTARY AREA (m <sup>2</sup> )	2173
EX. IMPERVIOUS AREA (m <sup>2</sup> )	2088
DEV. IMPERVIOUS AREA (m <sup>2</sup> )	

\* IMPERVIOUS AREA INCREASE LESS THAN 75m<sup>2</sup>. NO OSD REQUIRED

**FOR DA ONLY**

**NSW GOVERNMENT Planning**  
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Approved Application No. MURPH-1-0570  
granted on the 18 APRIL 2011  
Signed [Signature] SCALE 1:200  
Sheet No. 21 of 27

**CATCHMENT PLAN - POST-DEVELOPMENT**  
SCALE: 1:200

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUED FOR DA ONLY	01/04/2010			

Client: AA CROWN HOLDINGS PTY LTD  
Architect: MURPHY'S ARCHITECTURE PTY LTD  
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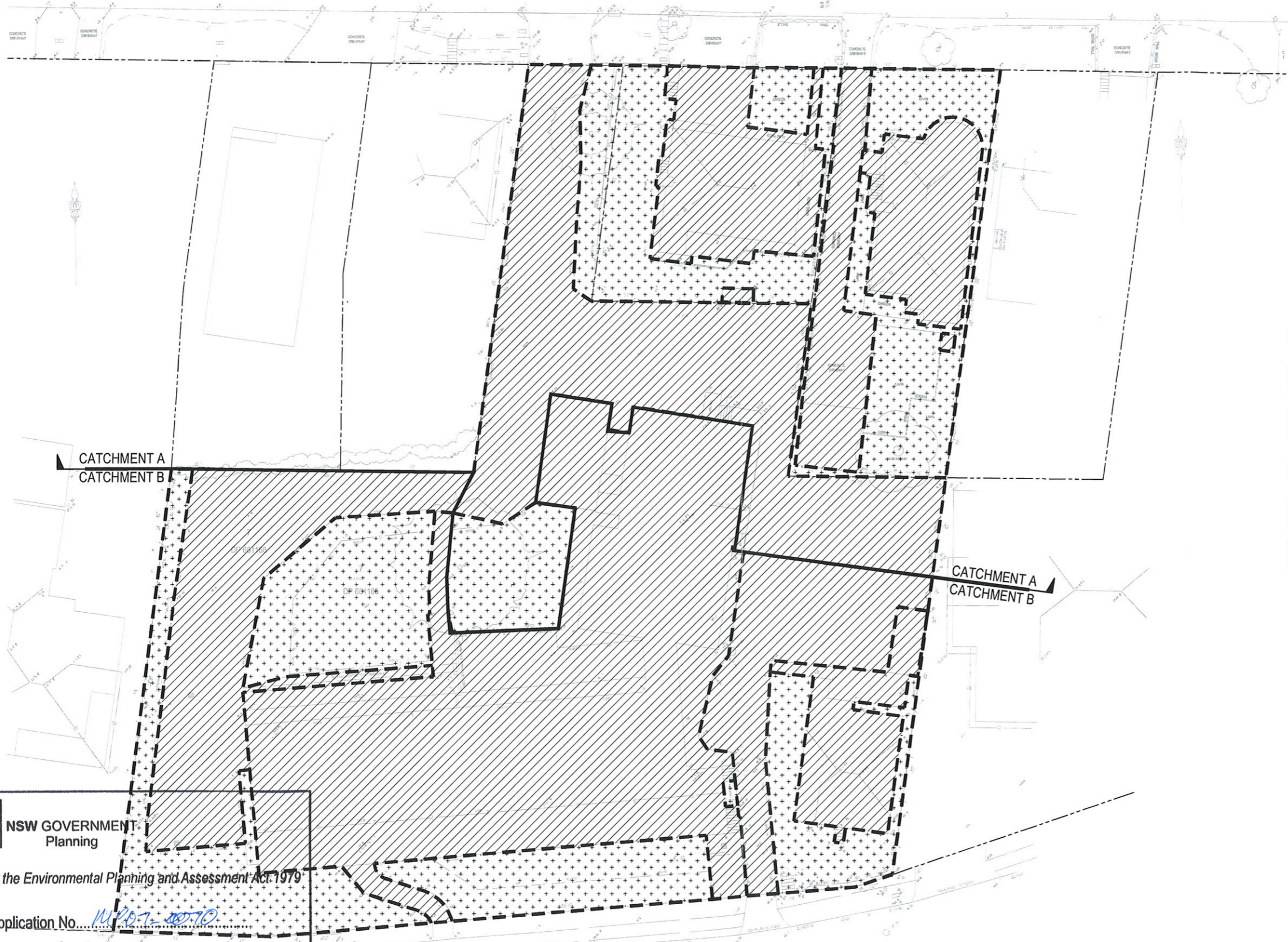
**HENRY & HYMAS**  
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Project: PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONG  
Title: STORMWATER CATCHMENT PLAN  
POST-DEVELOPMENT

Drawn	Designed	Date
J.Liu	S.Coman/T.Dampsey	MAR 2010
Checked	Approved	Scale
T.Dampsey	A.Francis	1:200 @ A1
Drawing number	Revision	
10024_DA_C250	01	



URUNGA PARADE



CATCHMENT A  
TOTAL AREA: 2002m<sup>2</sup>

- IMPERVIOUS AREA  
AREA: 739m<sup>2</sup> (37%)
- PERVIOUS AREA  
AREA: 1263m<sup>2</sup> (63%)

CATCHMENT B  
TOTAL AREA: 2983m<sup>2</sup>

- IMPERVIOUS AREA  
AREA: 2173m<sup>2</sup> (73%)
- PERVIOUS AREA  
AREA: 810m<sup>2</sup> (27%)

CATCHMENT A  
CATCHMENT B

CATCHMENT A  
CATCHMENT B

PRINCES HIGHWAY

CATCHMENT PLAN - PRE-DEVELOPMENT  
SCALE: 1:200



NSW GOVERNMENT  
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. 10027-10070

granted on the 18 APRIL 2011

Signed SCALE 1:200

Sheet No. 22 of 27

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUED FOR DA ONLY	01/02/2010			

Client  
AA CROWN HOLDINGS PTY LTD

Architect  
MURPHY'S ARCHITECTURE PTY LTD

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Project  
PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONG

Title  
STORMWATER CATCHMENT PLAN  
PRE-DEVELOPMENT

Drawn	Designed	Date
J.Liu	S.Coman/T.Dempsey	MAR 2010
Checked	Approved	Scale
T.Dempsey	A.Francis	1:200 @ A1
Drawing number	Revision	
10024_DA_C251	01	



**LEGEND**

-  PROPOSED SEDIMENTATION FENCE
-  PROPOSED VEHICLE SHAKER GRID
-  PROPOSED STABILISED SITE ACCESS
-  PROPOSED MESH & GRAVEL INLET FILTER
-  GEOTEXTILE INLET FILTER

**SEDIMENT & EROSION CONTROL NOTES**

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH RESPECTIVE COUNCIL SPECIFICATIONS AND LANCOM "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

**NSW GOVERNMENT Planning**  
 Issued under the Environmental Planning and Assessment Act 1979  
 Approved Application No. 1170  
 granted on the 18 April 2011  
 Signed [Signature] SCALE: 1:200  
 Sheet No. 23 of 27

PRINCES HIGHWAY  
 HIGHWAY  
**SEDIMENT & EROSION CONTROL PLAN**  
 SCALE: 1:200

**FOR DA ONLY**

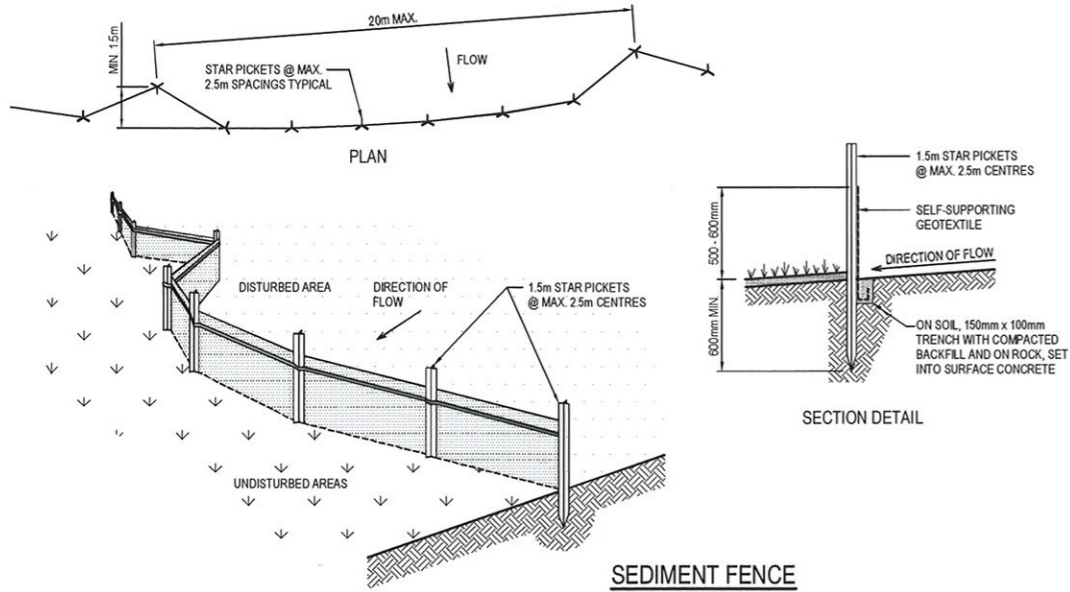
REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUED FOR DA ONLY	01/04/2010			

Client: AA CROWN HOLDINGS PTY LTD  
 Architect: MURPHY'S ARCHITECTURE PTY LTD  
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 Phone: 02 9417 8400  
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 Web: www.henryandhymas.com.au

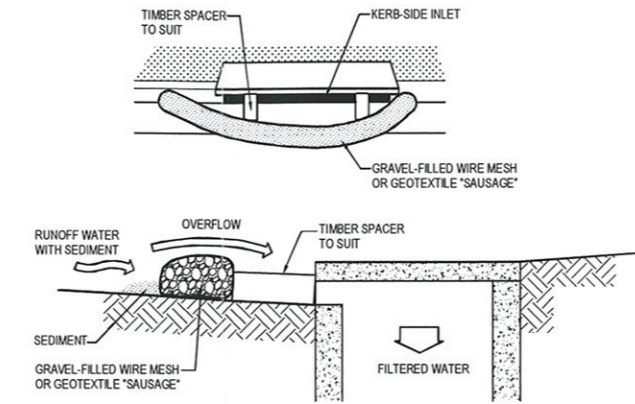
Project: PROPOSED PRIVATE HOSPITAL  
 360-364 CROWN STREET WOLLONGONG  
 Title: SEDIMENT & EROSION CONTROL PLAN

Drawn: J.Liu	Designed: S.Corman	Date: MAR 2010
Checked: T.Dempsey	Approved: A.Francis	Scale: 1:200 @ A1
Drawing number: 10024_DA_SE01		Revision: 01



**SEDIMENT FENCE CONSTRUCTION NOTES:**

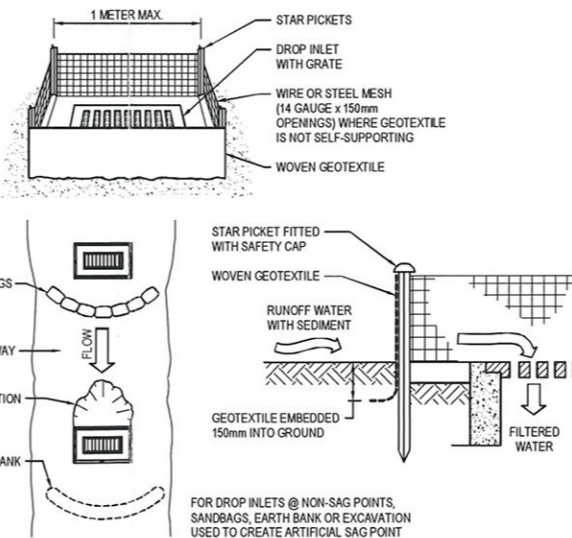
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



**MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:**

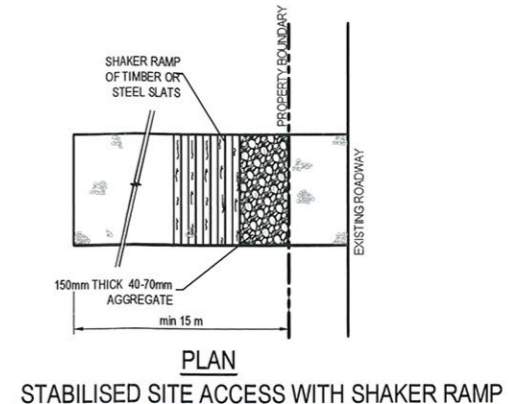
1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
4. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
5. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT / LADEN WATERS CANNOT PASS BETWEEN.

**MESH & GRAVEL INLET FILTER**  
SCALE N.T.S.

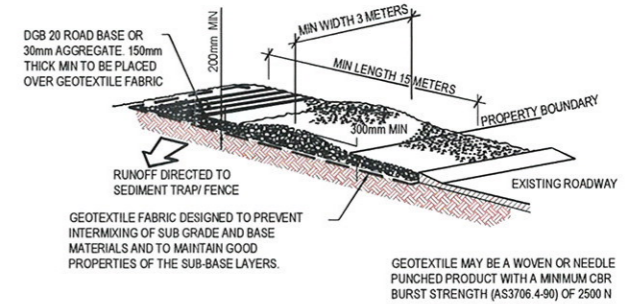


**GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:**

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.



**CONSTRUCTION SITE**



**NOTES:**

1. THIS DEVICE IS TO BE LOCATED AT ALL EXITS FROM CONSTRUCTION SITE.
2. THIS DEVICE IS TO BE REGULARLY CLEANED OF DEPOSITED MATERIAL SO AS TO MAINTAIN A 50mm DEEP SPACE BETWEEN PLANKS.
3. ANY UNSEALED ROAD BETWEEN THIS DEVICE AND NEAREST ROADWAY IS TO BE TOPPED WITH 100mm THICK 40-70mm SIZE AGGREGATE.
4. ALTERNATIVELY, THREE(3) PRECAST CONCRETE CATTLE GRIDS (AS MANUFACTURED BY \*HUMES CONCRETE MAY BE USED. 1, 2 & 3 ABOVE ALSO APPLY.

**NSW GOVERNMENT Planning**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. MP07-0070

granted on the 18 APRIL 2011

Signed [Signature]

Sheet No. 24 of 27

REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUED FOR DA ONLY	01/04/2010			

Client: AA CROWN HOLDINGS PTY LTD

Architect: MURPHY'S ARCHITECTURE PTY LTD

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**HENRY & HYMAS**

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Email: email@hhy.com.au  
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Project: PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONG

Title: SEDIMENT & EROSION CONTROL TYPICAL SECTIONS & DETAILS

Drawn	Designed	Doc
J.Liu	S.Coman	MAR 2010
Checked	Approved	Scale
T.Dempsey	A.Francis	N.T.S.
Drawing number	Revision	
10024_DA_SE02	01	

**FOR DA ONLY**

- LEGEND**
- SITE BOUNDARY
  - TREES TO BE REMOVED
  - PROPOSED FEATURE TREES
  - PROPOSED TREES
  - PROPOSED SHRUBS AND GROUNDCOVERS
  - FEATURE PAVING
  - RETAINING WALL
  - TURF
  - EXISTING LEVELS
  - PROPOSED LEVELS

**PLANTING PALLET - Ground Floor**

Botanic Name	Common Name
<b>TREES</b>	
<b>STREET TREES</b>	
<i>Cupressus anacardioides</i>	Tuckeroo
<b>Urunga Parade</b>	
<i>Syzygium luehmannii</i>	Weeping Lilly Pilly
<i>Elaeocarpus reticulatus</i>	Blueberry Ash
<b>Feature Trees</b>	
<i>Acmena smithii</i>	Lilly Pilly
<i>Allocasuarina littoralis</i>	Black Sheoak
<i>Angophora floribunda</i>	Rough Barked Apple
<i>Banksia integrifolia</i>	Coastal Banksia
<i>Banksia serrata</i>	Old Man Banksia
<i>Elaeocarpus reticulatus</i>	Blueberry Ash
<i>Eucalyptus paniculata</i>	Grey Ironbark
<i>Glochidion ferdinandi</i>	Cheese Tree
<i>Melaleuca linariifolia</i>	Snow in Summer
<i>Tibouchina x 'Astonville'</i>	Lasiandra
<b>FERNS</b>	
<i>Asplenium australasicum</i>	Bird's Nest Fern
<i>Cyathea australis</i>	Rough Tree Fern
<i>Dicksonia antarctica</i>	Soft Treefern
<i>Platycerium bifurcatum</i>	Stag Horn
<i>Platycerium superbum</i>	Elk Horn
<b>SHRUBS</b>	
<i>Acalypha wilkesiana</i>	Fijian Fire Plant
<i>Callistemon citrinus 'Endeavour'</i>	Crimson Bottlebrush
<i>Callistemon viminalis</i>	Weeping Bottle brush
<i>Cannella japonica</i>	Japanese Camellia
<i>Colocasia pulchrum</i>	Oxalis
<i>Cordyline fruticosa</i>	Cordyline
<i>Cordyline stricta</i>	Narrow Leaved Palm Lily
<i>Doraydites excelsa</i>	Gymea Lily
<i>Escallonia macrantha</i>	Common Escallonia
<i>Gardenia jasminoides</i>	Gardenia
<i>Grevillea banksii</i>	Banks Grevillea
<i>Leptospermum laevigatum</i>	Coastal Tea Tree
<i>Leptospermum polygalifolium</i>	Common Tea Tree
<i>Pimelea ligustrina</i>	Tall Rice-flower
<i>Pittosporum tobira</i>	Tobira
<i>Plumbago auriculata</i>	Plumbago
<i>Syzygium australe</i>	Small Leaved Lilly Pilly
<i>Syzygium luehmannii</i>	Small Leaf Lilly Pilly
<i>Viburnum x burkwoodii</i>	Coastal Rosemary
<i>Westringia fruticosa</i>	Coastal Rosemary
<b>GROUNDCOVERS</b>	
<i>Agapanthus orientalis</i>	African Lily
<i>Dianella caerulea s. lat</i>	Blue Flax Lily
<i>Dianella revoluta</i>	Maure Flax Lily
<i>Echinopogon caespitosus</i>	Forked Hedgehog Grass
<i>Hardenbergia violacea</i>	False Sandpapilla
<i>Liriodendron chinensis</i>	Giant Lily Turf
<i>Phlox subulata</i>	Stonize Baby Flax
<i>Viola hederacea</i>	Native Flax Lily
<b>CLIMBERS</b>	
<i>Taraxacum officinale</i>	Wonga Wonga Vine
<i>Rosa banksia</i>	Banksia Rose
<i>Trachelospermum jasminoides</i>	Star Jasmine



Tibouchina x 'Astonville'



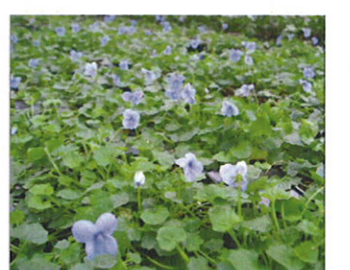
Callistemon viminalis



Westringia fruticosa



Cordyline fruticosa



Viola hederacea



Trachelospermum jasminoides

NSW GOVERNMENT  
 Planning  
 Issued under the Environmental Planning and Assessment Act 1979  
 Approved Application No. 111/07-0070  
 granted on the 18 APRIL 2011

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NO.	REVISION	APPROVED	DATE
A	DRAFT CLIENT REVIEW	PG	10/03/10
B	FINAL CLIENT REVIEW	PG	10/03/10
C	FINAL 3A ENVIRONMENTAL ASSESSMENT	PG	10/03/10

Sheet No. 25 of 27



LANDSCAPE ARCHITECT  
 52-58 Wilson Street, East Sydney NSW 2011  
 PO Box A966 Sydney South NSW 1235  
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 E. context@context.net.au  
 www.context.net.au ACN 055 972 248

CLIENT  
 AA CROWN HOLDINGS PTY LTD  
 PROJECT  
 WOLLONGONG PRIVATE HOSPITAL

DRAWING TITLE  
 LANDSCAPE CONCEPT PLAN  
 GROUND FLOOR

DRAWN	CHECKED	DATE CREATED	SCALE
MV	UB	10 MARCH 2010	1:200 @ A1

PROJECT NUMBER	DRAWING NUMBER	ISSUE
10504	L1000	C

PLANTING PALLET - Roof Garden	
Botanic Name	Common Name
<b>GROUND COVER</b>	
<i>Aptenia cordifolia</i>	Heartleaf Ice Plant
<i>Brachyscome multifida</i>	Rock Daisy
<i>Carpobrotus glaucescens</i>	Pig Face
<i>Cerastium tomentosum</i>	Snow in Summer
<i>Graptopetalum paraguayense</i>	Mother of Pearl Plant
<i>Sedum rubrotinctum</i>	Jelly Bean Plant
<i>Sempervivum tectorum</i>	Houseleek
<i>Senecio serpens</i>	Blue Chalk Sticks



PAVED OUTDOOR TERRACES

LOW DECORATIVE PLANTING  
CONSISTING OF SUCCULENTS  
AND GROUND COVER



NSW GOVERNMENT  
Planning

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Approved Application No. MP 07-0010

granted on the 18 APRIL 2011

Signed [Signature]

NOTE: VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. COLOURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SHADY DIMENSIONS MADE TO 1:4000 SCALE AND THOSE SHOWN SPECIFICALLY ON THIS DRAWING. TAKE PRECEDENCE OVER DIMENSIONS MADE TO SIMILAR SCALE AND THOSE FOR GENERAL PURPOSES AS TO RELATIONSHIP WITH OTHER PLANS. STRUCTURAL DIMENSIONS AND REGULATIONS TO THIS DRAWING AND DESIGN IS SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT IN WRITING.

ISSUE	AMENDMENT	APPROVED	DATE
A	DRAFT CURRENT STUDY	DO	18/03/10
B	FINAL LIAISON WITH ENVIRONMENTAL ASSURANCE	PG	23/02/10
C	PARTIAL ENVIRONMENTAL AGREEMENT	PG	18/04/11

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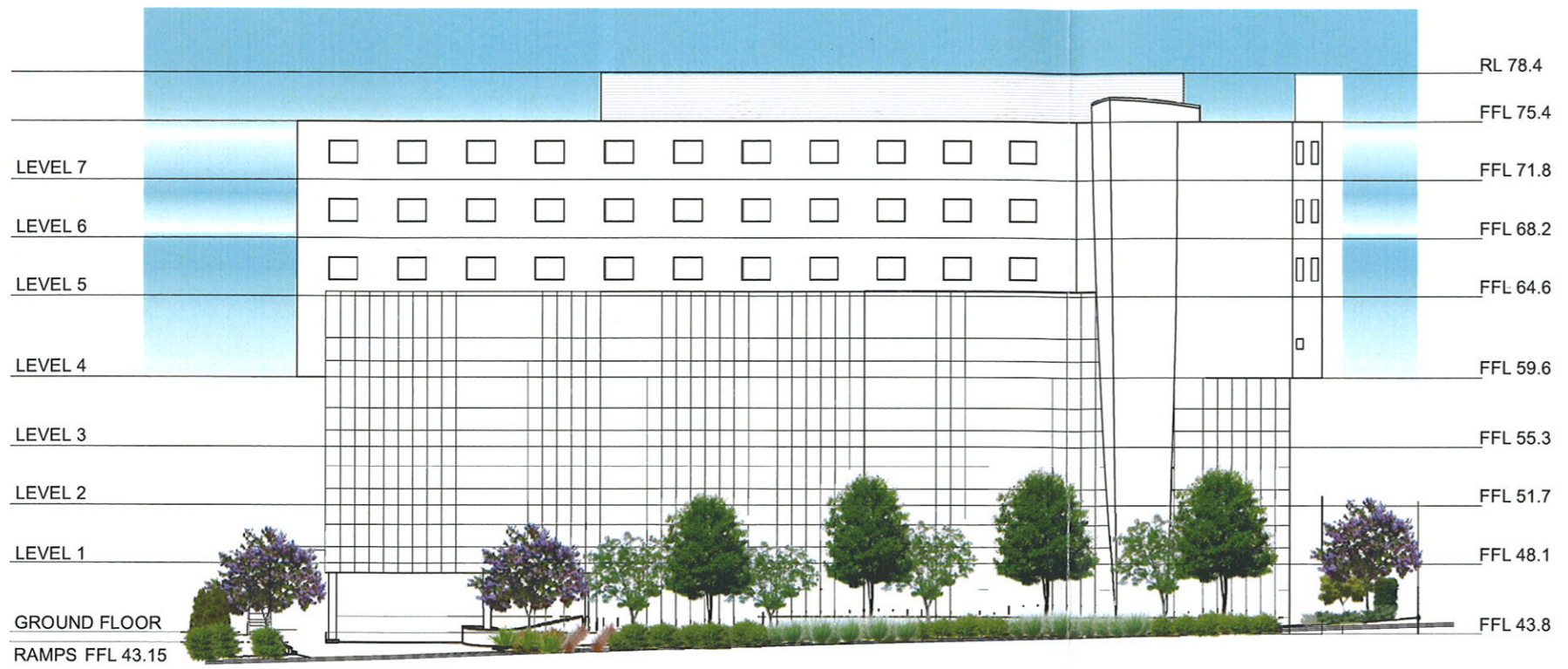
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E: context@context.net.au  
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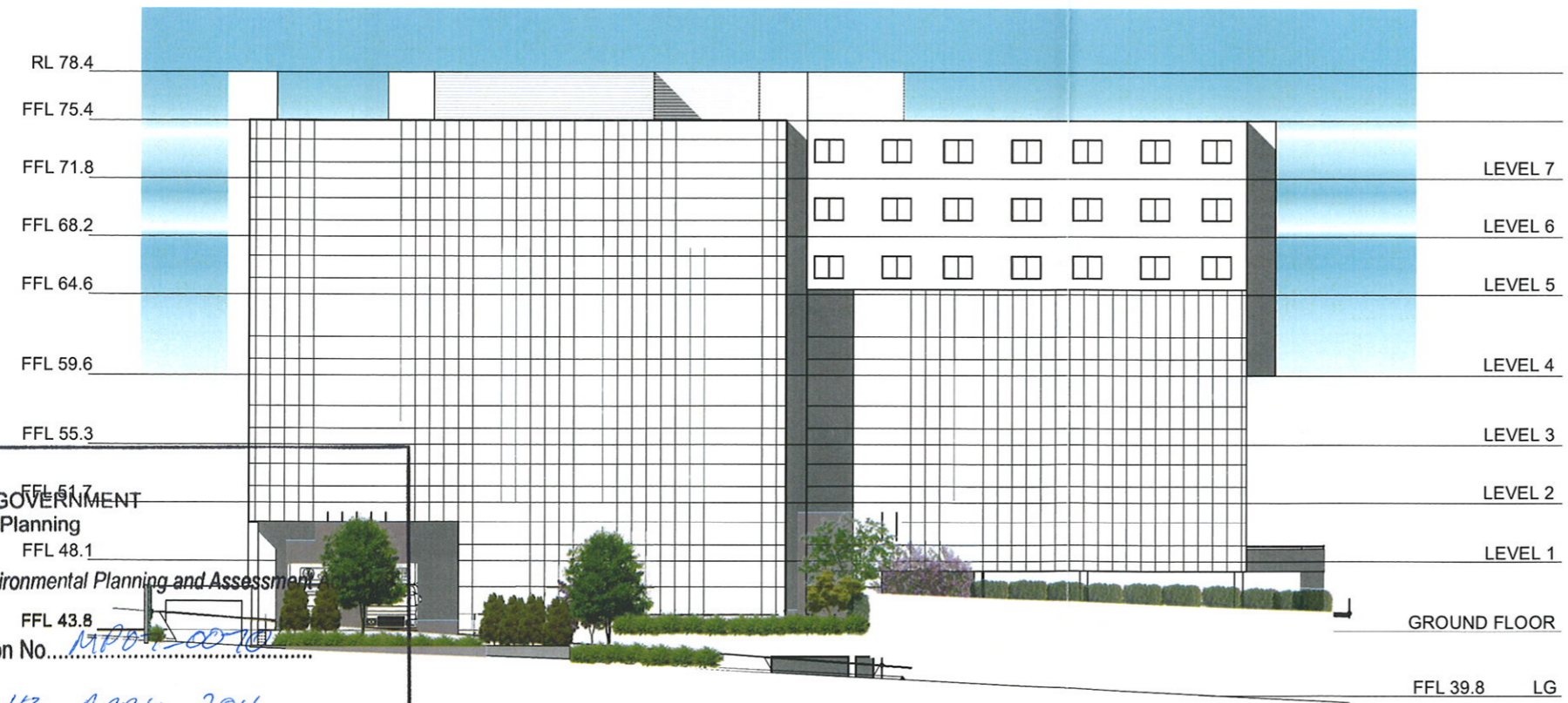
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PROJECT  
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DRAWING TITLE  
LANDSCAPE CONCEPT PLAN  
FIFTH FLOOR

DRAWN	CHECKED	DATE CREATED	SCALE
MV	UB	10 MARCH 2010	1:200 @ A1
PROJECT NUMBER	DRAWING NUMBER	ISSUE	
10504	L1001	C	



CROWN STREET ELEVATION



URUNGA PARADE ELEVATION

**NSW GOVERNMENT Planning**  
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 Approved Application No. 100/2010  
 granted on the 18 APRIL 2011

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Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_

ISSUE	AMENDMENT	APPROVED	DATE
1	INITIAL DRAFT FOR PART 3A ENVIRONMENTAL ASSESSMENT	PG	18/5/10
2	PART 3A ENVIRONMENTAL ASSESSMENT	PG	31/5/10
3	PART 3A ENVIRONMENTAL ASSESSMENT	PG	15/6/10



LANDSCAPE ARCHITECT  
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PROJECT  
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DRAWING TITLE  
 LANDSCAPE CONCEPT PLAN ELEVATIONS

DRAWN	CHECKED	DATE CREATED	SCALE
MV	UB	19 MARCH 2010	1:200 @ A1
PROJECT NUMBER	DRAWING NUMBER	ISSUE	
10504	L2000	C	