

# WOLLONGONG PRIVATE HOSPITAL

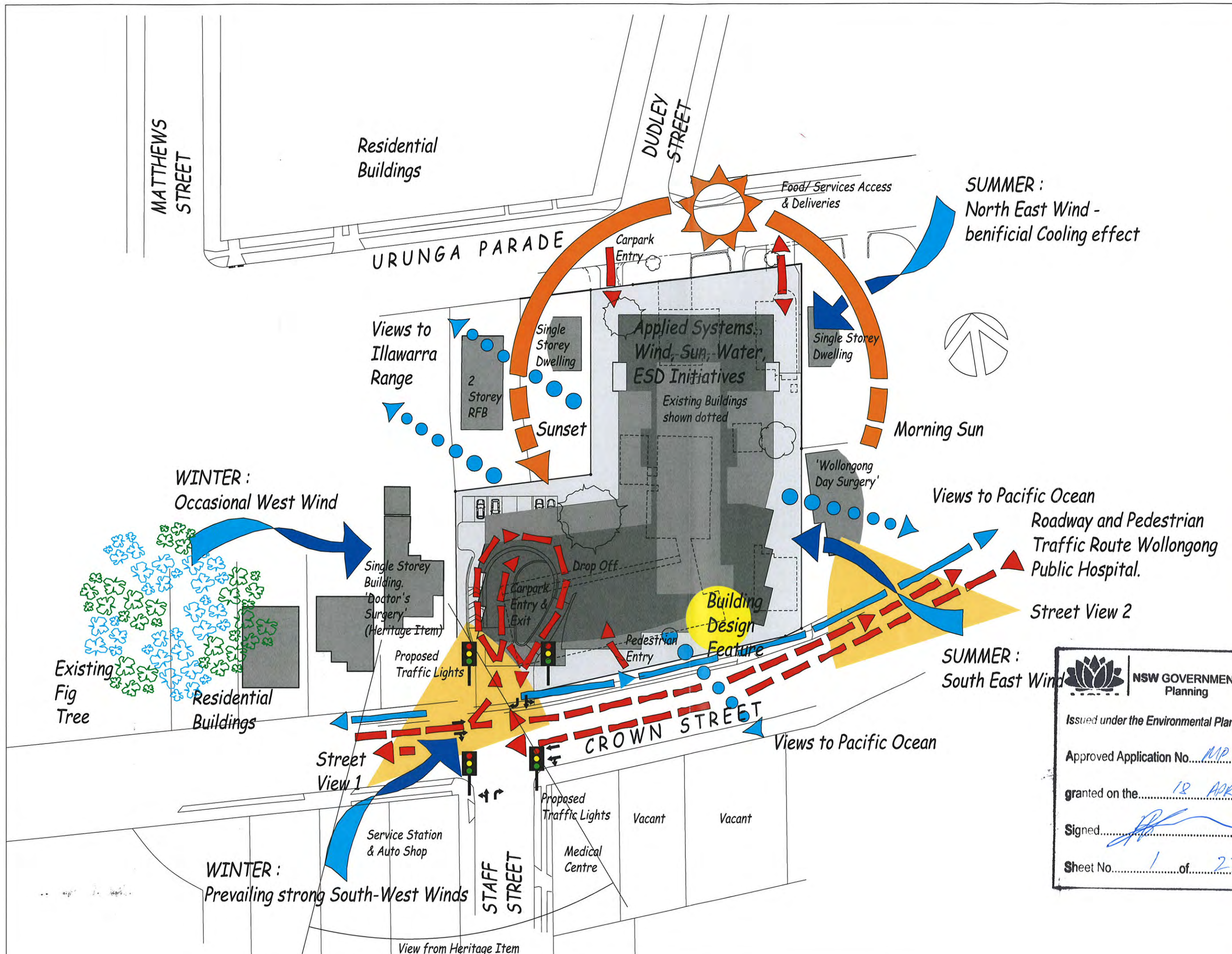
360-364 CROWN STREET  
(PRINCES HIGHWAY)  
WOLLONGONG

Client  
AA CROWN HOLDINGS  
Pty Ltd

Architect +  
Interior Design

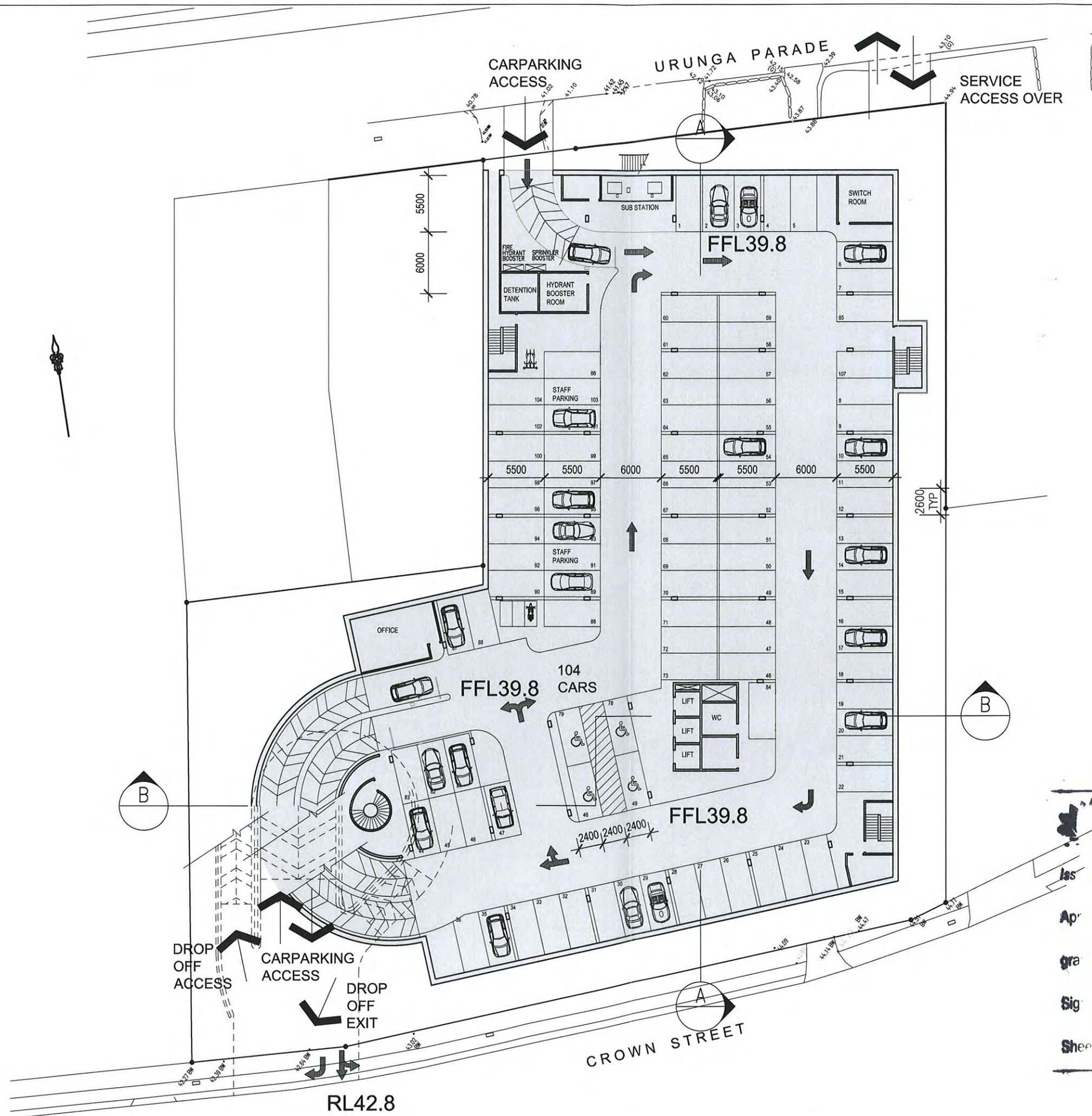
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SITE ANALYSIS  
PLAN



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

**DA.03**  
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20 OCTOBER 2010



# WOLLONGONG PRIVATE HOSPITAL

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BASEMENT 1

NSW GOVERNMENT  
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the Environmental Planning and Assessment Act 1979

SCALE: 1:400 @ A3

Application No. MP02-0072

the 18 APRIL 2011

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Sheet No 2 of 27

DA.04

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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**

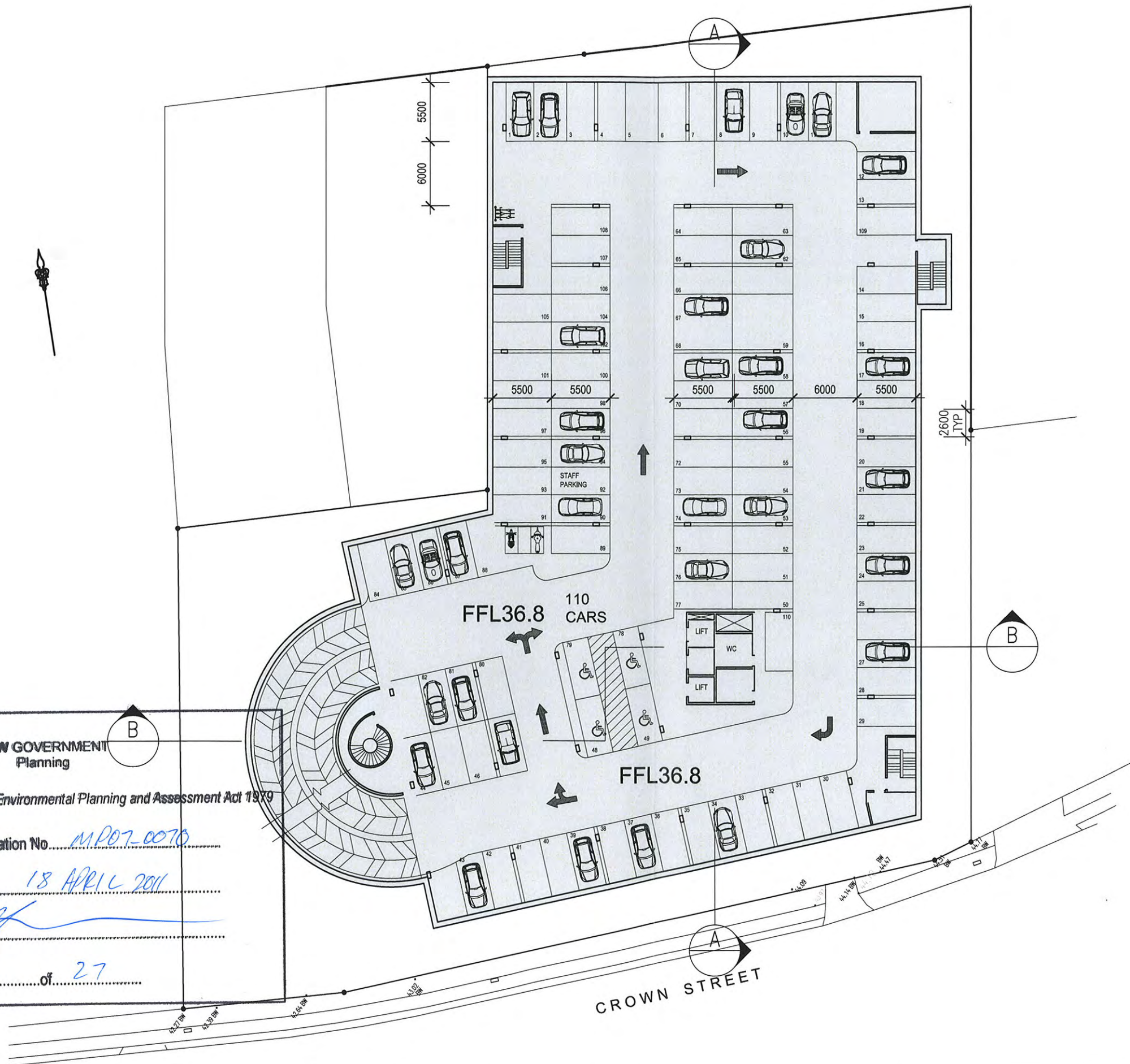
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Sheet No. 3 of 27



# WOLLONGONG PRIVATE HOSPITAL

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BASEMENT 3



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

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REVISION B  
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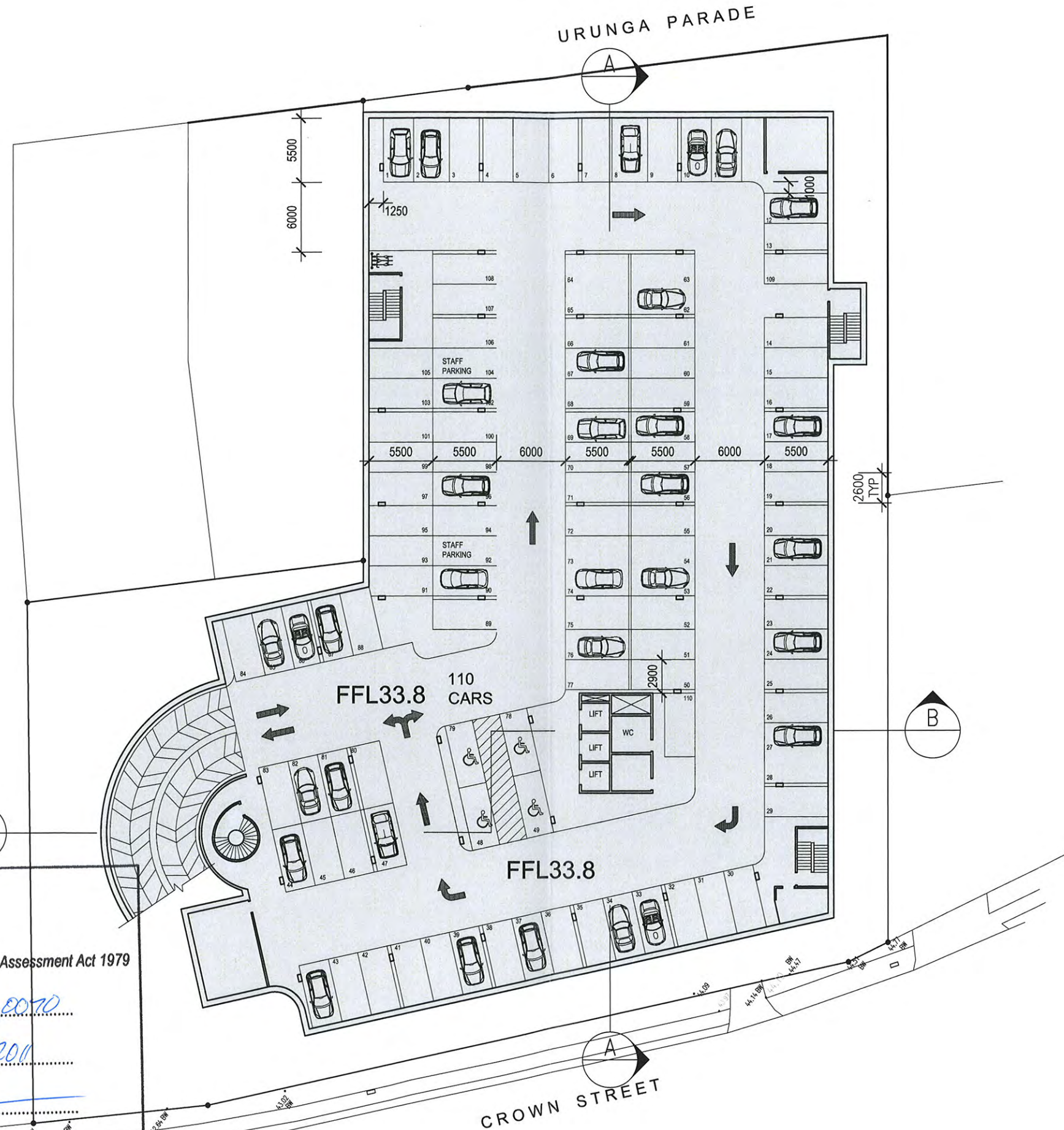
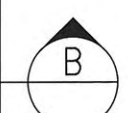
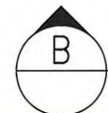
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## GROUND FLOOR PLAN



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

# DA.07

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# WOLLONGONG PRIVATE HOSPITAL

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LEVEL 1 PLAN



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

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URUNGA PARADE



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# WOLLONGONG PRIVATE HOSPITAL

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LEVEL 2 PLAN



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

## DA.09

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LEVEL 3 PLAN



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

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URUNGA PARADE

# WOLLONGONG PRIVATE HOSPITAL

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LEVEL 4 PLAN



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

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CROWN STREET

URUNGA PARADE



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LEVEL 5 PLAN



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

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## LEVEL 6 PLAN



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

**DA.13**  
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CROWN STREET

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LEVEL 7 PLAN



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



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DA.14

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## WOLLONGONG PRIVATE HOSPITAL

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## PLANT ROOM PLAN

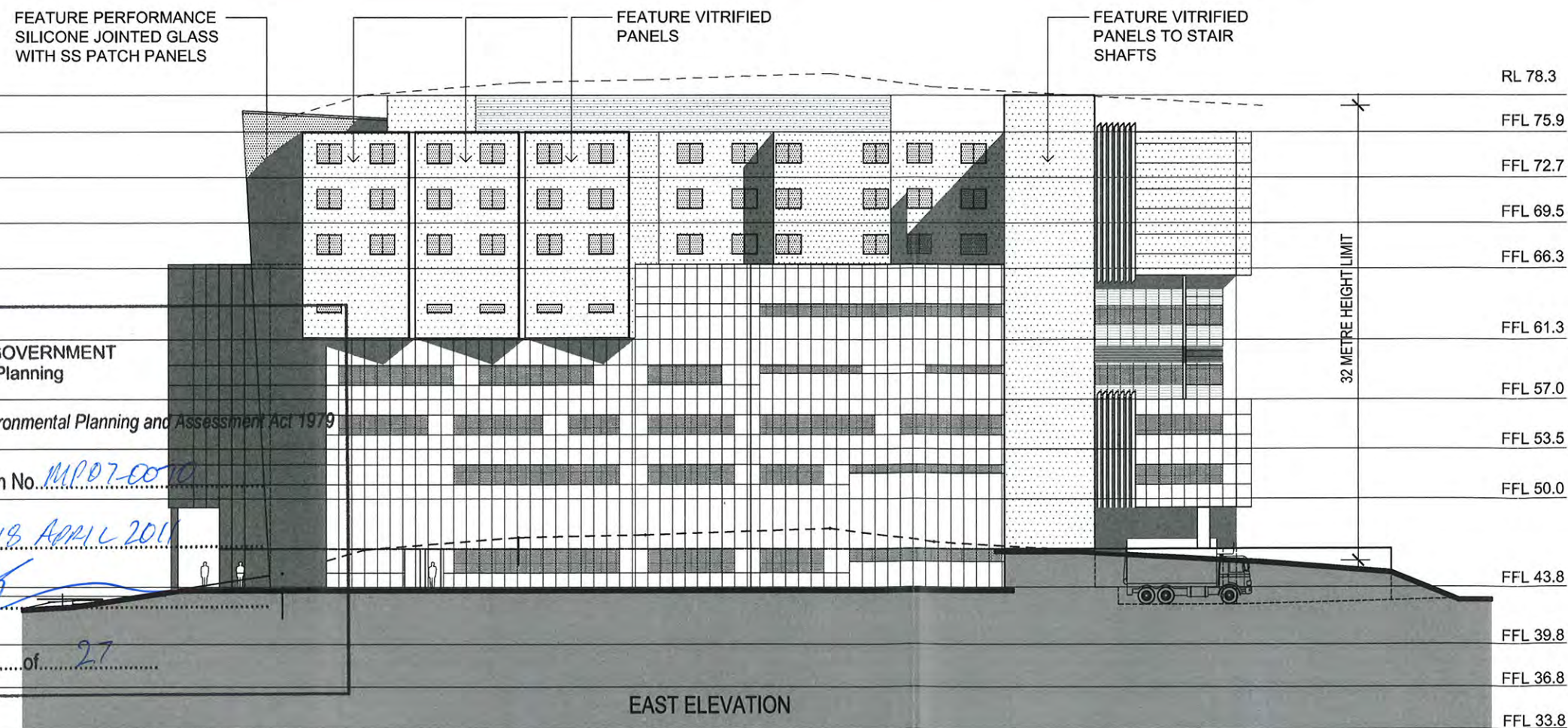
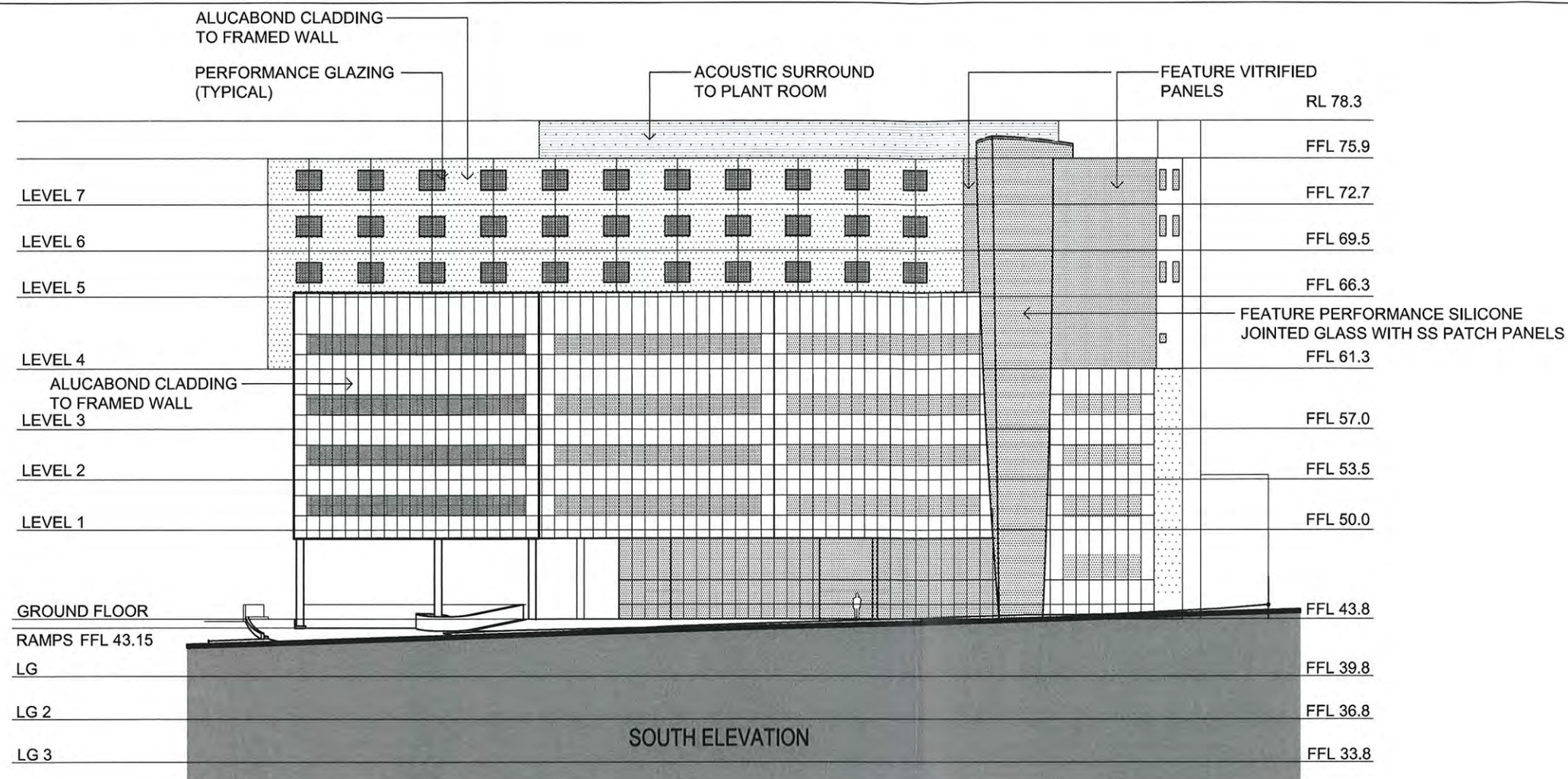


SCALE: 1:400 @ A3

0 2 4 6 8 10  
metres

# DA.15

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## WOLLONGONG PRIVATE HOSPITAL

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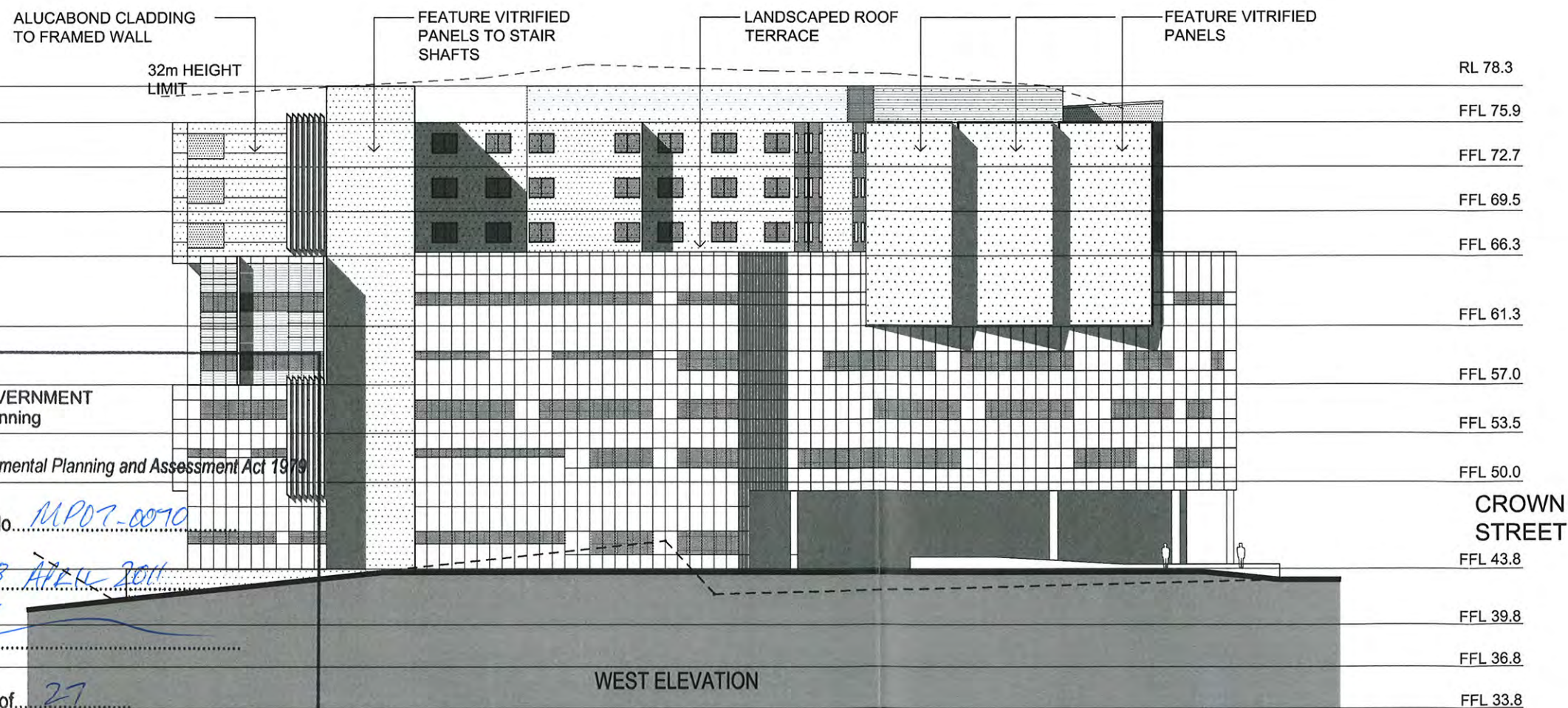
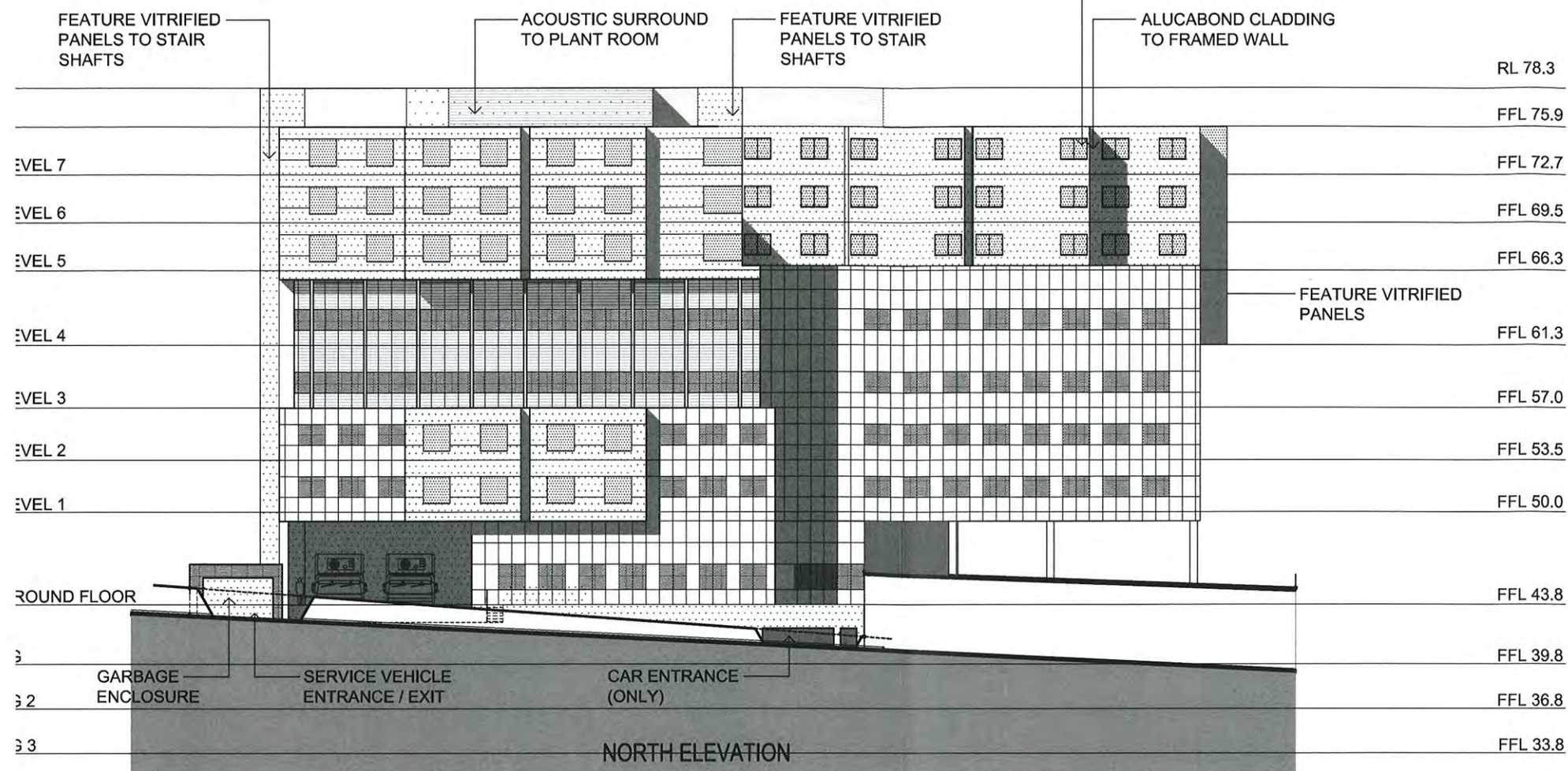
## SOUTH & EAST ELEVATIONS

SCALE: 1:400 @ A3

0 2 4 6 8 10  
metres

# DA.16

REVISION B  
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LG 2

Sheet No *15* of *27*

## WOLLONGONG PRIVATE HOSPITAL

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## NORTH & WEST ELEVATIONS

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

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

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Pty Ltd

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Interior Design

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Architecture Pty Limited

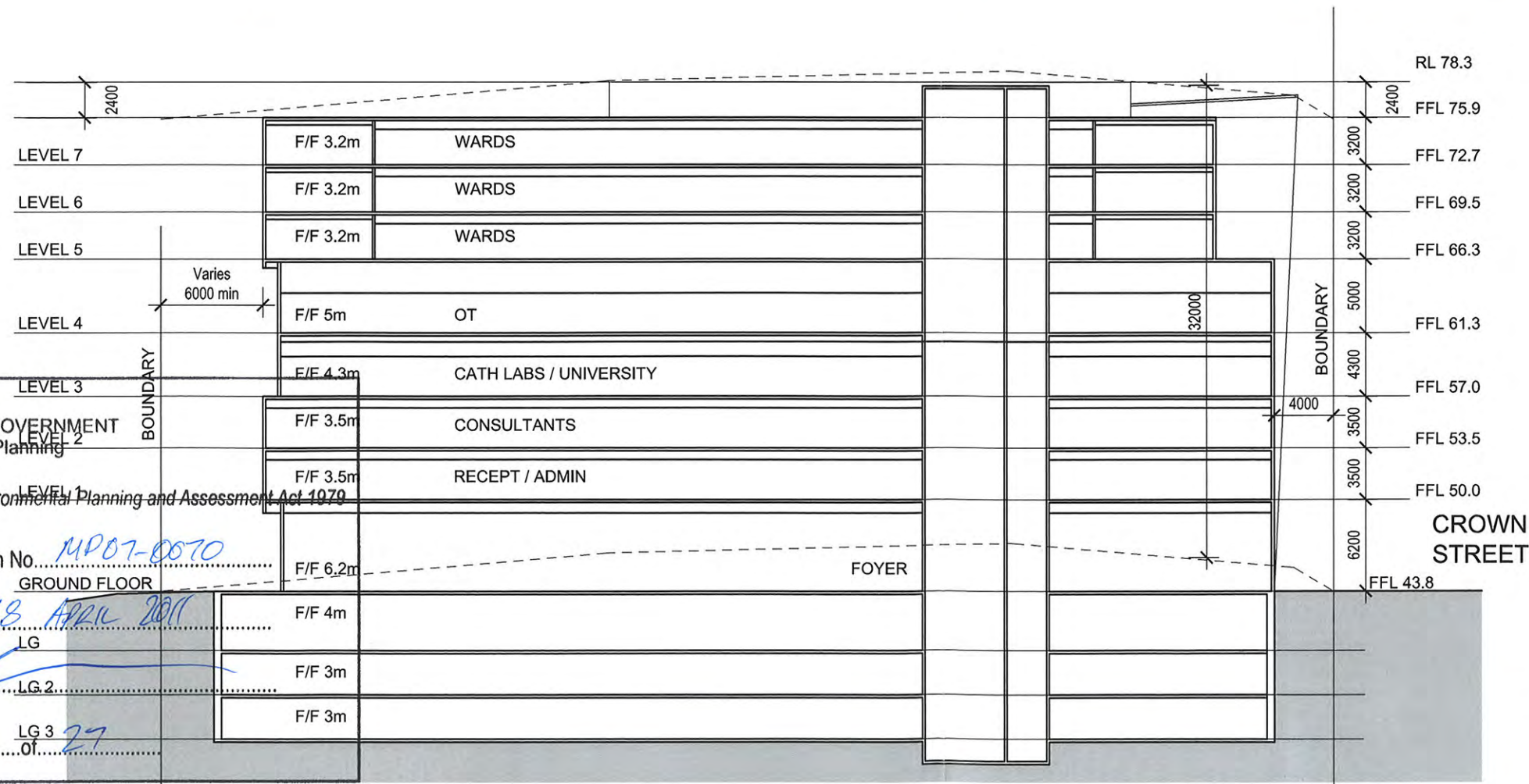
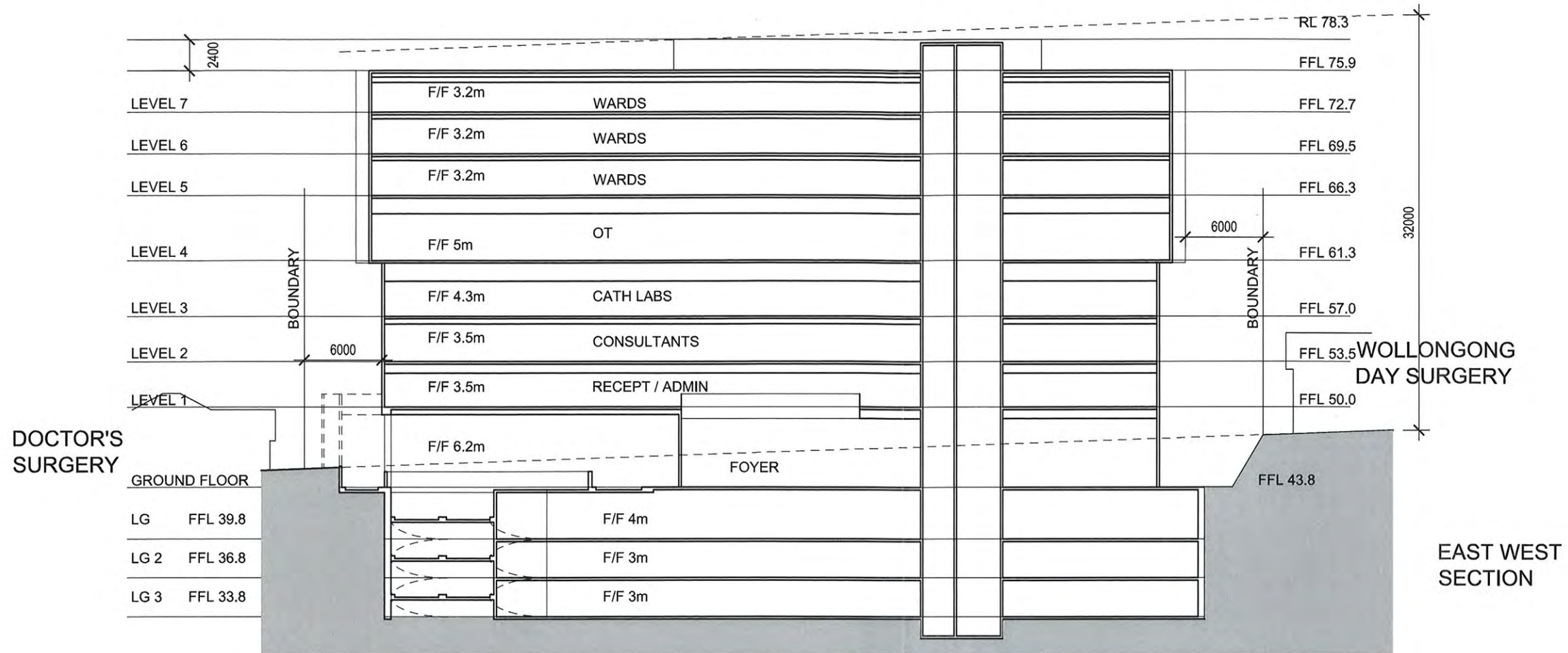
ACN 090 729 276  
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## SECTIONS

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

DA.18

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URUNGA  
PARADE  
Approved Application No. 1407-0070

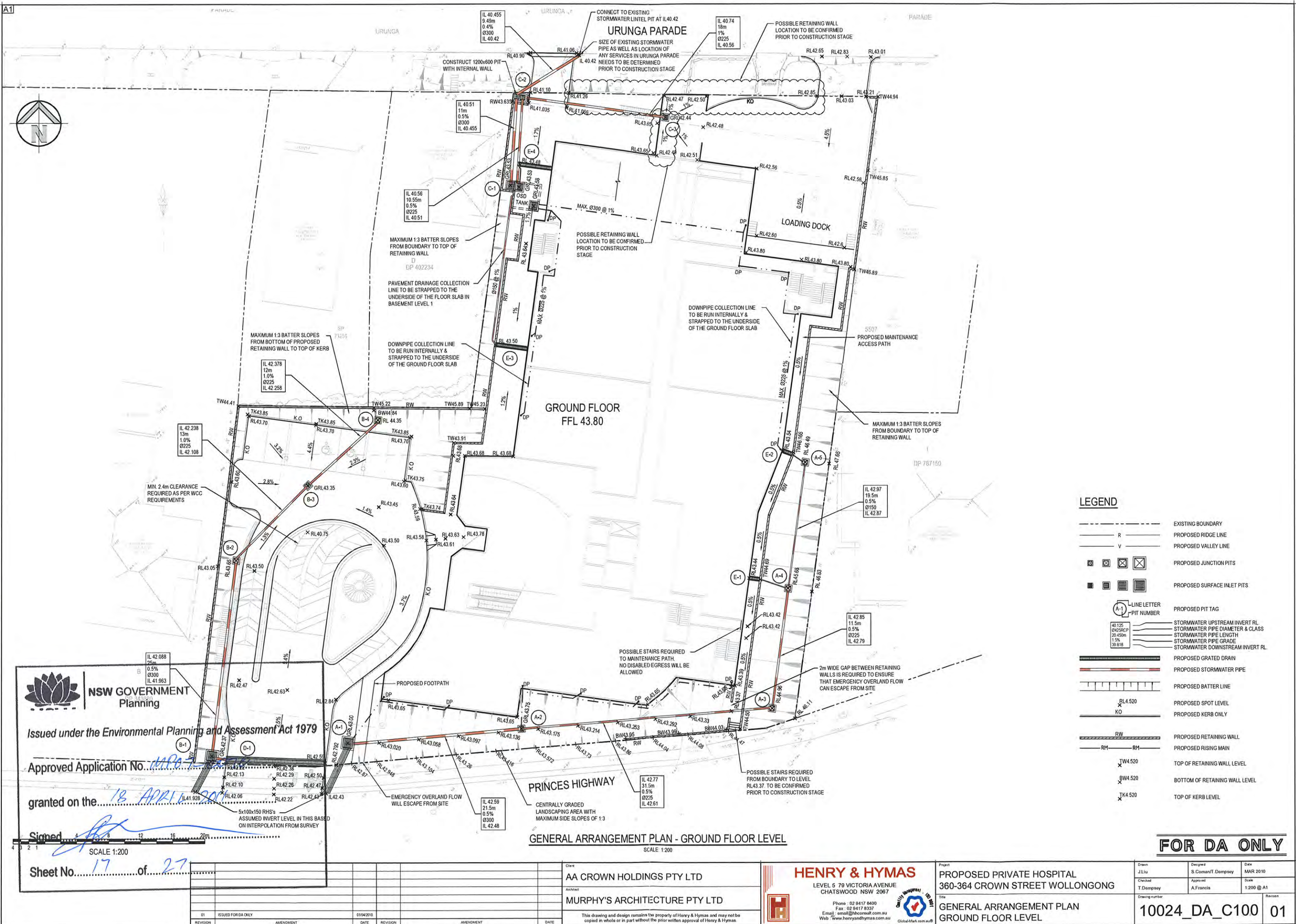
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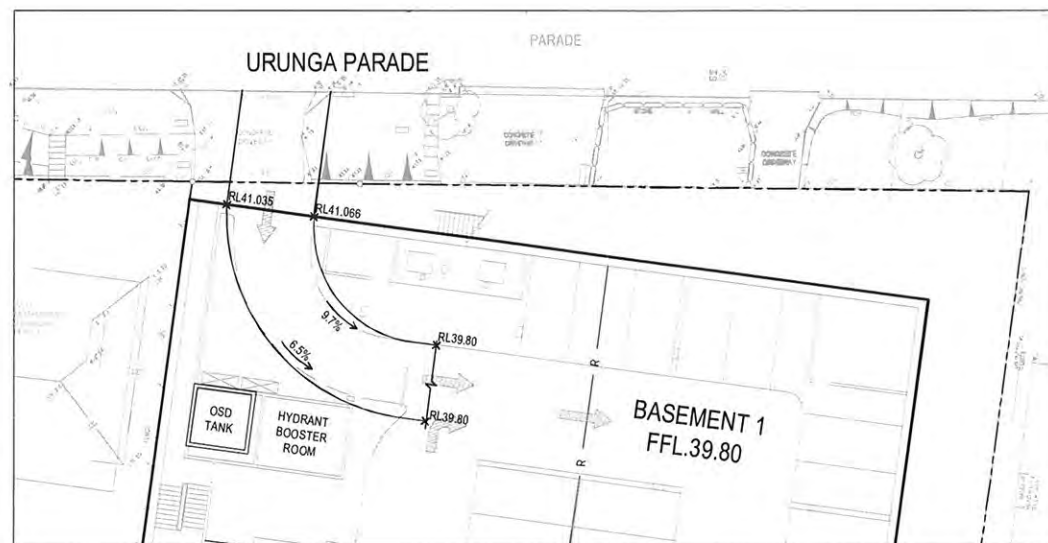
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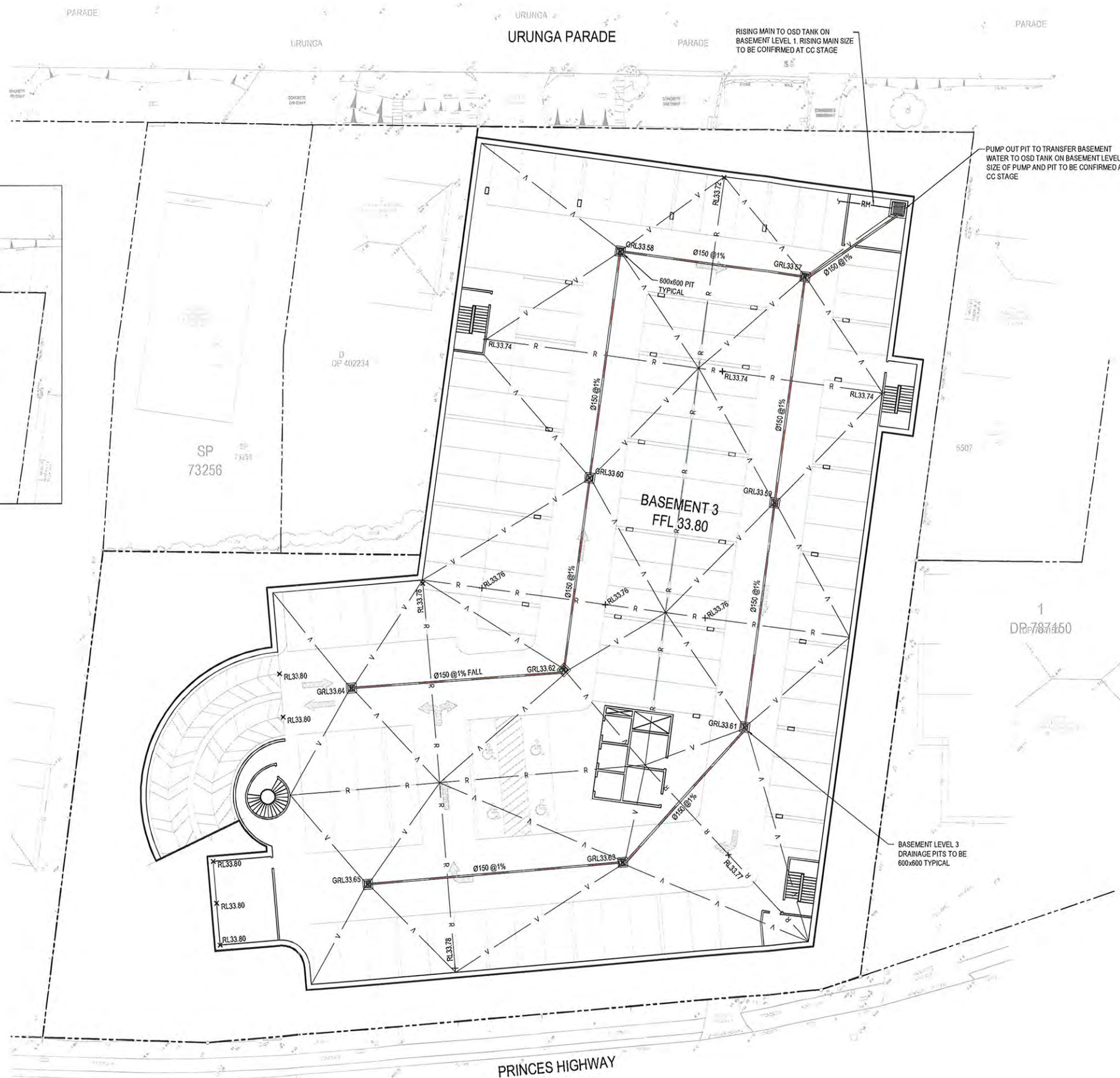
LG 2

LG 3





GENERAL ARRANGEMENT PLAN - BASEMENT LEVEL 1  
SCALE 1:200



GENERAL ARRANGEMENT PLAN - BASEMENT LEVEL 3  
SCALE 1:200



NSW GOVERNMENT  
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SCALE 1:200

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| 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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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  
Checked  
T.Dempsey  
Designed  
S.Coman/T.Dempsey  
Approved  
A.Francis  
Date  
MAR 2010  
Scale  
1:200 @ A1  
Revision  
10024\_DA\_C101 01

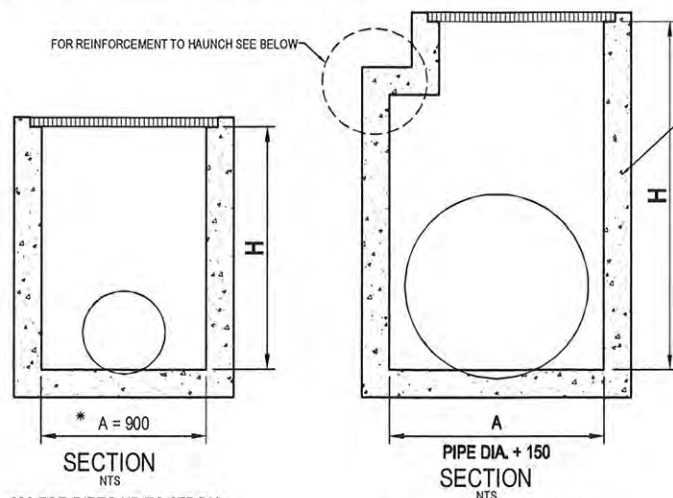
**FOR DA ONLY**

## 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.

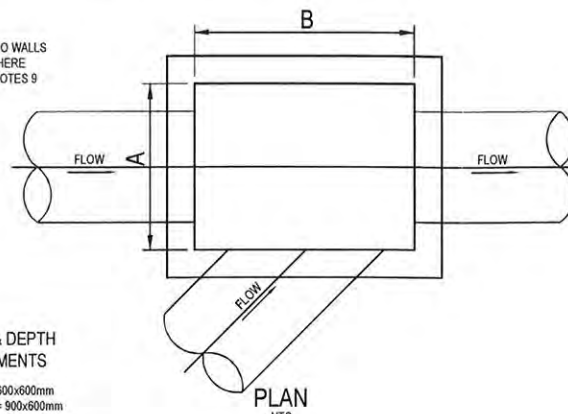
- 1 SELECT PIT CHAMBER USING THE STEPS BELOW.
- 2 SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- 3 CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
- 4 CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

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.

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



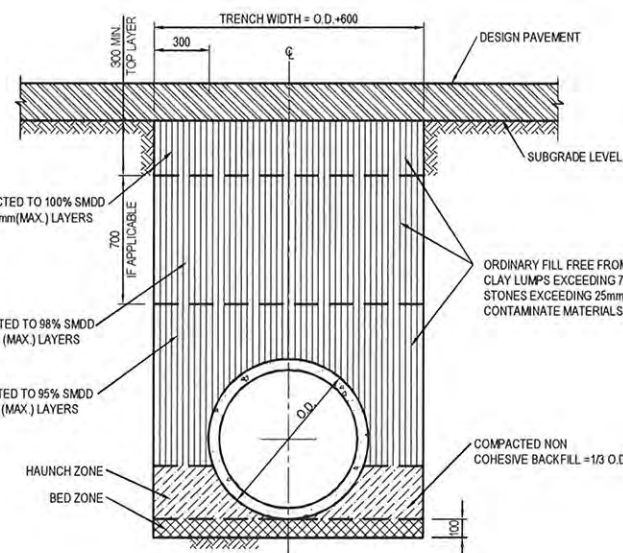
3 PIT CHAMBER FOR SIDE ENTRY ON SKEW

## PIT LID SCHEDULE

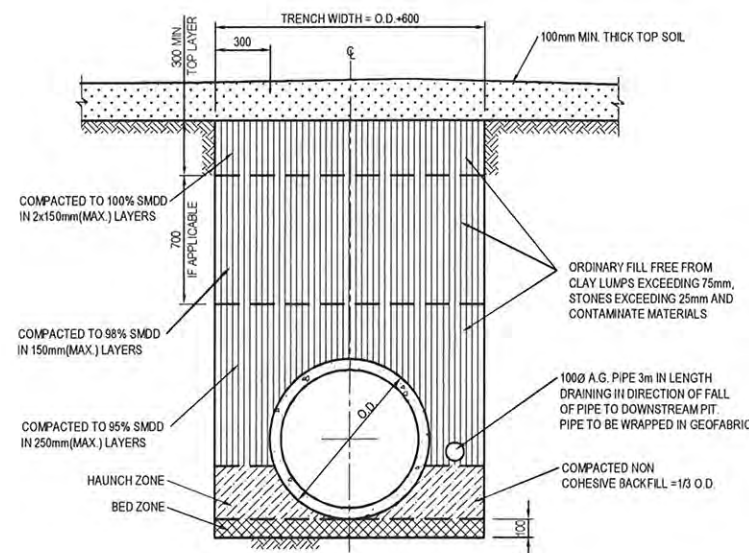
| PIT/STRUCTURE NUMBER | DESCRIPTION                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| C-2                  | CONSTRUCTED INLET WITH TWO 600x600 HINGED MEDIUM DUTY GRATED LIDS CLASS "C" IN ACCORDANCE WITH WOLLONGONG CITY COUNCIL REQUIREMENTS.    |

## STORMWATER DRAINAGE NOTES:

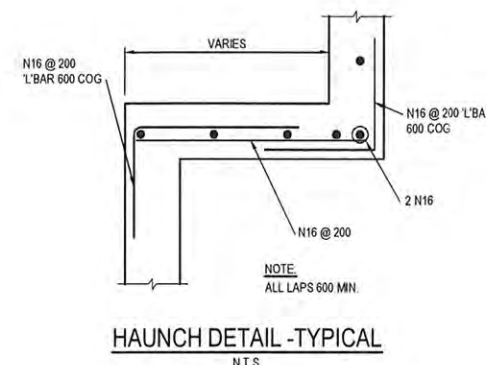
1. STORMWATER DESIGN CRITERIA: THE STORMWATER DESIGN SHOWN ON THESE DRAWINGS HAS BEEN CARRIED OUT IN ACCORDANCE WITH AUBURN COUNCIL'S REQUIREMENTS AND AUSTRALIAN RAINFALL AND RUNOFF (AR&R) GUIDELINES.
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS 2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS 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 150 MM 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



HAUNCH DETAIL - TYPICAL  
 N.T.S.



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Signed [Signature] TYPICAL STEEL IRON DETAILS

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

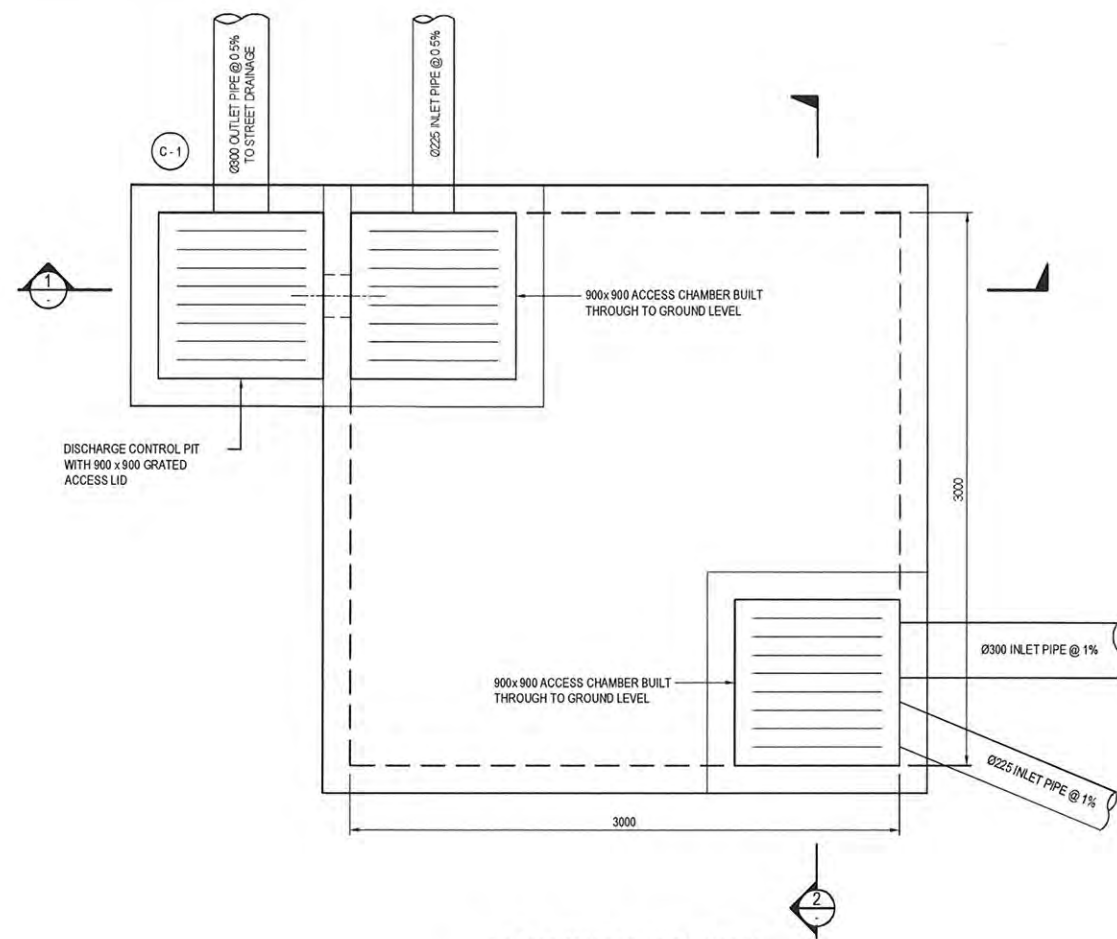
|                                                                                                                                                              |                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Client                                                                                                                                                       | AA CROWN HOLDINGS PTY LTD     |
| Architect                                                                                                                                                    | MURPHY'S ARCHITECTURE PTY LTD |
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0 400 800 1200 1600 2000mm  
 SCALE 1:20

**HENRY & HYMAS**  
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|                |                                                              |
|----------------|--------------------------------------------------------------|
| Project        | PROPOSED PRIVATE HOSPITAL<br>360-364 CROWN STREET WOLLONGONG |
| Drawn          | J.Liu                                                        |
| Designed       | S.Coman                                                      |
| Checked        | T.Dempsey                                                    |
| Approved       | A.Francis                                                    |
| Scale          | N.T.S.                                                       |
| Drawing number | 10024_DA_C200                                                |
| Revision       | 01                                                           |

FOR DA ONLY

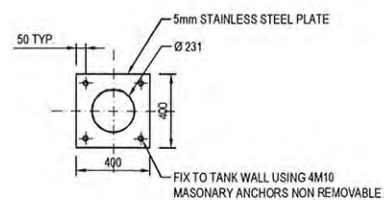
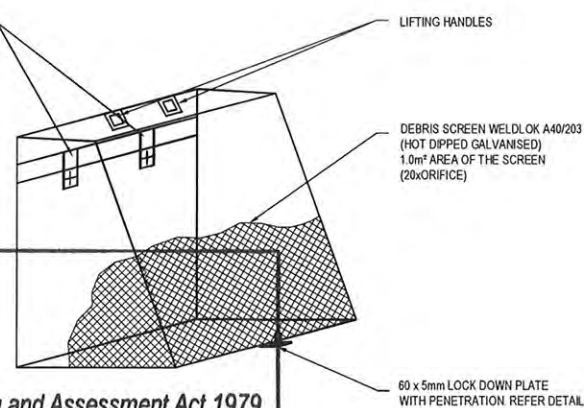


PLAN LAYOUT - OSD TANK  
SCALE 1:20

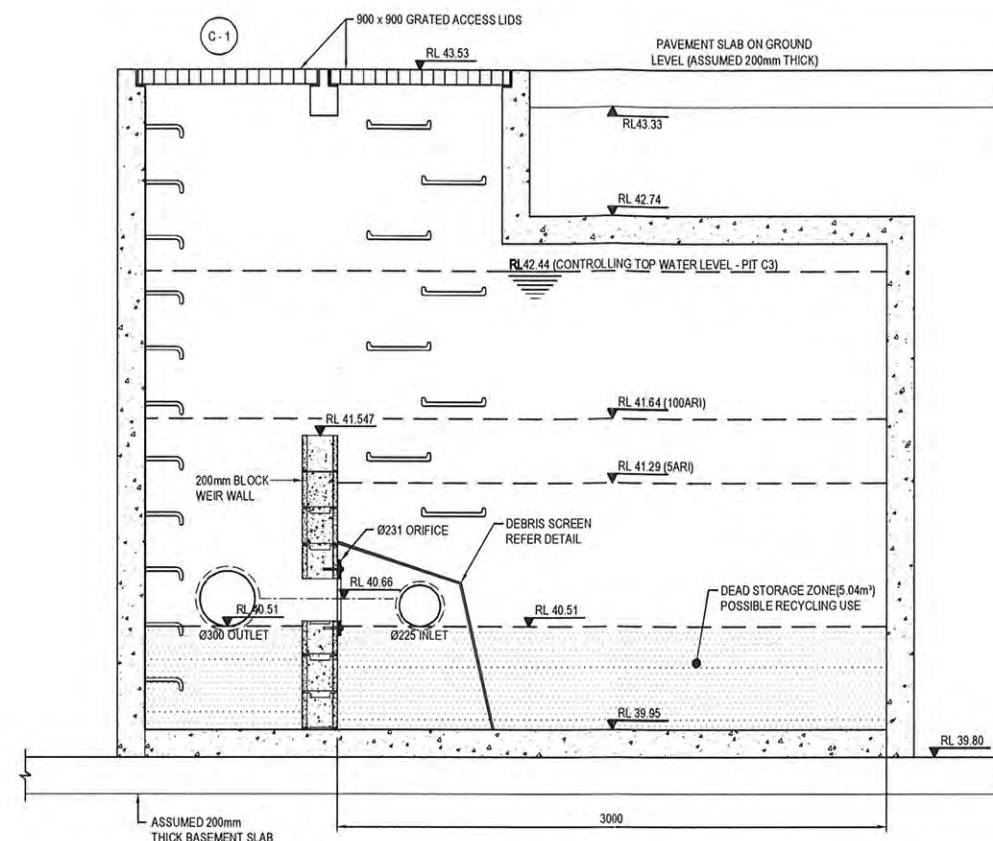
100 x 16 MOUNTING BAR WITH BRACKETS, SCREEN TO BE ATTACHED (GENERALLY ON A SLIDING MECHANISM) TO THE WALL, BUT SHOULD BE REMOVABLE (WITHOUT THE USE OF TOOLS) TO PERMIT CLEANSING AND EASY INSPECTION OF THE OUTLET CONTROL. ALL STEEL TO BE HOT DIPPED GALVANISED.

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

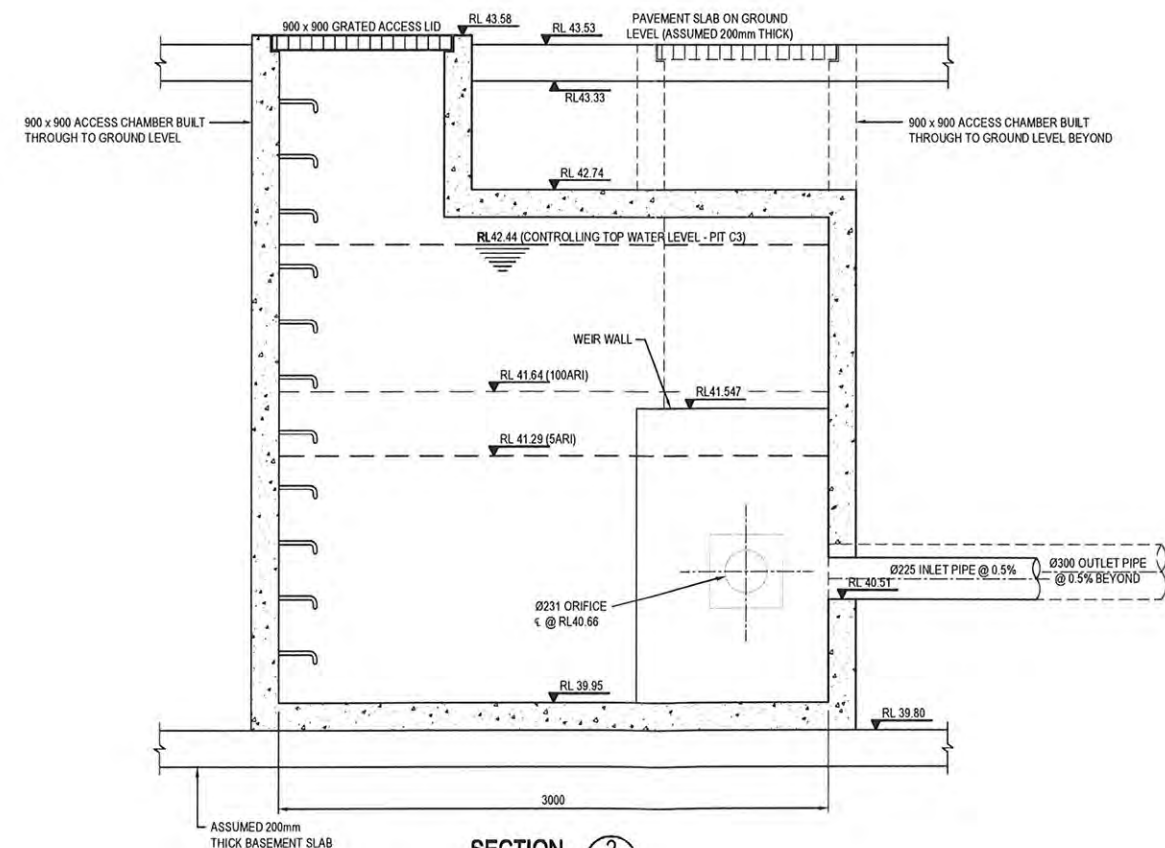
MAXIMESH RH3030 IS RECOMMENDED FOR ORIFICES LESS THAN 150mm IN DIAMETER AND SCREEN AREA 20 x THE ORIFICE AREA FOR THAT TYPE OF SCREEN - REFER UPRCT SECTION 4-13



ORIFICE PLATE DETAIL 1  
SCALE 1:20



SECTION 1  
SCALE: 1:20



SECTION 2  
SCALE: 1:20



NSW GOVERNMENT  
Planning

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Approved Application No. **MPO2-00000000**

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 | 01/04/2010 |          |           |      |

|                                                                                                                                                              |                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Client                                                                                                                                                       | AA CROWN HOLDINGS PTY LTD     |
| Architect                                                                                                                                                    | MURPHY'S ARCHITECTURE PTY LTD |
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|                                                               |                                                                             |
|---------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>HENRY &amp; HYMAS</b>                                      |                                                                             |
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|         |                                                              |
|---------|--------------------------------------------------------------|
| Project | PROPOSED PRIVATE HOSPITAL<br>360-364 CROWN STREET WOLLONGONG |
| Title   | OSD TANK PLAN, SECTIONS & DETAILS                            |

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

FOR DA ONLY



URUNGA

URUNGA PARADE

PARADE

**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     | 0.880 | 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 (%)          | 2088 |
| DEV. IMPERVIOUS AREA (%)         |      |

\* 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. MP10/10570granted on the 18 APRIL 2011Signed [Signature] SCALE 1:200Sheet No. 21 of 27PRINCES HIGHWAY  
HIGHWAY

CATCHMENT PLAN - POST-DEVELOPMENT

SCALE 1:200

Client  
AA CROWN HOLDINGS PTY LTDArchitect  
MURPHY'S ARCHITECTURE PTY LTD

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Email: [enquiries@hhy.com.au](mailto:enquiries@hhy.com.au)  
Web: [www.henryandhymas.com.au](http://www.henryandhymas.com.au)Project  
PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONGTitle  
STORMWATER CATCHMENT PLAN  
POST-DEVELOPMENT

|                                        |                               |                       |
|----------------------------------------|-------------------------------|-----------------------|
| Drawn<br>J.Liu                         | Designed<br>S.Coman/T.Dempsey | Date<br>MAR 2010      |
| Checked<br>T.Dempsey                   | Approved<br>A.Francis         | Scale<br>1:200 @ A1   |
| Drawing number<br><b>10024_DA_C250</b> |                               | Revision<br><b>01</b> |



URUNGA PARADE

CATCHMENT A  
CATCHMENT BCATCHMENT A  
CATCHMENT B

PRINCES HIGHWAY

CATCHMENT PLAN - PRE-DEVELOPMENT

SCALE: 1:200

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%)
NSW GOVERNMENT  
Planning

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Approved Application No. 10024-DA-C251

granted on the 18 April 2010

Signed

SCALE 1:200

Sheet No. 22 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 &amp; HYMAS

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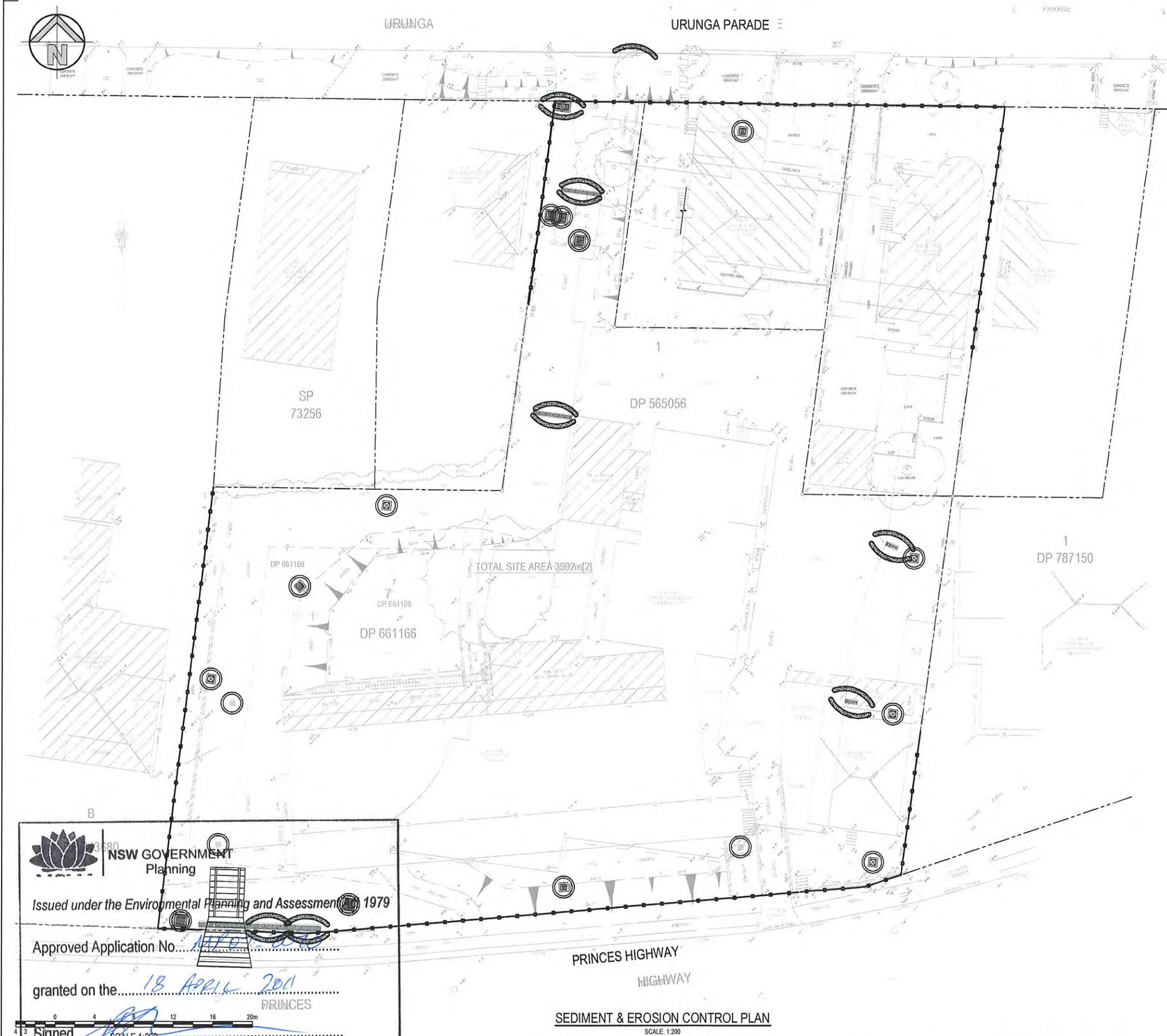
Project  
PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONG

Title  
STORMWATER CATCHMENT PLAN  
PRE-DEVELOPMENT

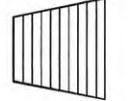
|                      |                               |                     |
|----------------------|-------------------------------|---------------------|
| Drawn<br>J.Liu       | Designed<br>S.Coman/T.Dempsey | Date<br>MAR 2010    |
| Checked<br>T.Dempsey | Approved<br>A.Francis         | Scale<br>1:200 @ A1 |

|                                 |                |
|---------------------------------|----------------|
| Drawing number<br>10024_DA_C251 | Revision<br>01 |
|---------------------------------|----------------|

FOR DA ONLY



# 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 LANDCOM '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**

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Approved Application No. 1170-2011

granted on the 18 April 2011

Signed [Signature] SCALE: 1:200

Sheet No. 23 of 27

PRINCES HIGHWAY

## SEDIMENT & EROSION CONTROL PLAN

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

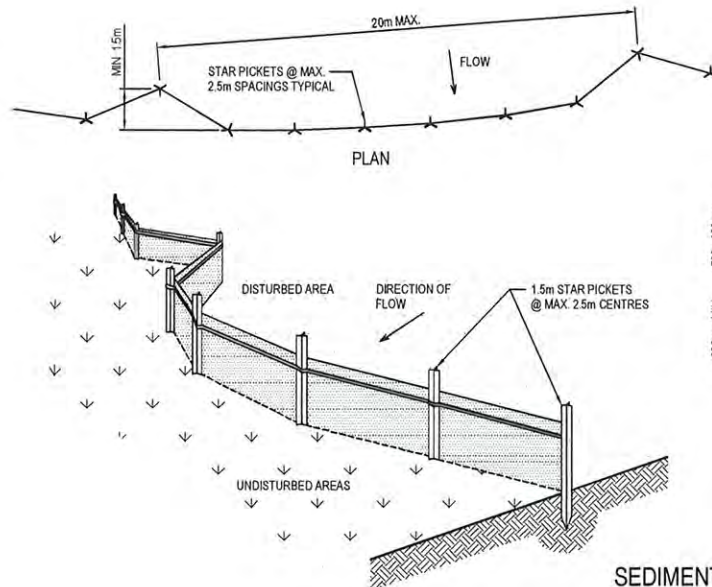
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Web: [www.henryandhymas.com.au](http://www.henryandhymas.com.au)

Project  
PROPOSED PRIVATE HOSPITAL  
360-364 CROWN STREET WOLLONGONG

Title  
SEDIMENT & EROSION CONTROL PLAN

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

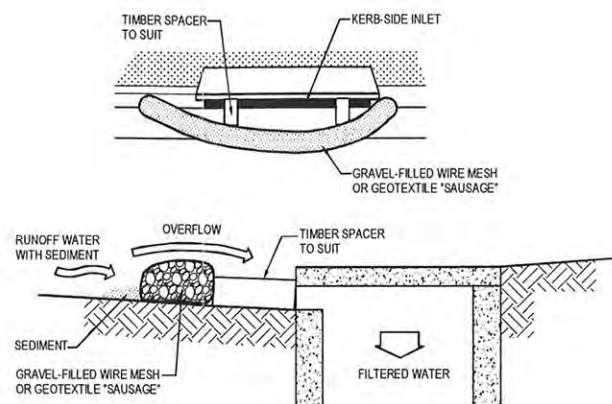
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**SEDIMENT FENCE**  
SCALE N.T.S.

**SEDIMENT FENCE CONSTRUCTION NOTES:**

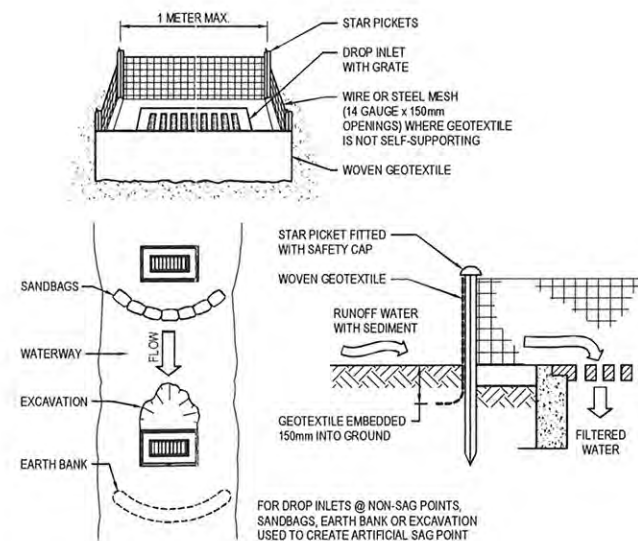
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND 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.

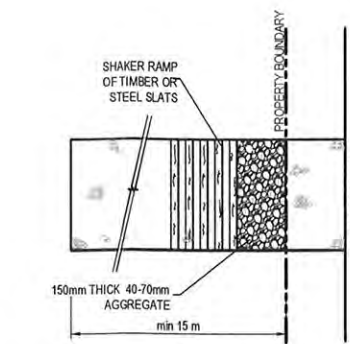
**MESH & GRAVEL INLET FILTER**  
SCALE N.T.S.



**GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:**

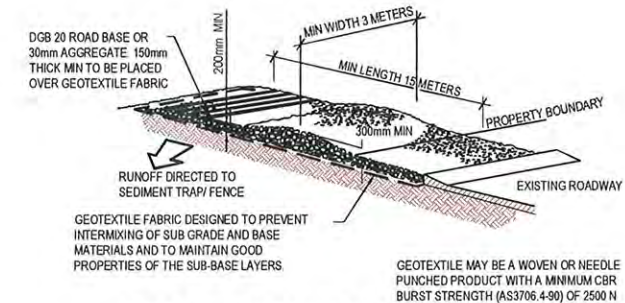
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE.
2. PICKET SPACING TO BE MAXIMUM 1.0m.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS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

**GEOTEXTILE INLET FILTER**  
SCALE N.T.S.



**STABILISED SITE ACCESS WITH SHAKER RAMP**  
N.T.S.

**CONSTRUCTION SITE**



**STABILISED SITE ACCESS WITH SHAKER RAMP**  
N.T.S.

**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

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Approved Application No. MP07-0070

granted on the 18 APRIL 2011

Signed [Signature]

Sheet No. 24 of 27

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

|                                                                                                                                                              |                               |
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| Client                                                                                                                                                       | AA CROWN HOLDINGS PTY LTD     |
| Architect                                                                                                                                                    | MURPHY'S ARCHITECTURE PTY LTD |
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|                                                                         |                                                                             |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>HENRY &amp; HYMAS</b>                                                |                                                                             |
| LEVEL 5 79 VICTORIA AVENUE<br>CHATSWOOD NSW 2067                        |                                                                             |
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| Email: <a href="mailto:email@hncorrel.com.au">email@hncorrel.com.au</a> | Web: <a href="http://www.henryandhymas.com.au">www.henryandhymas.com.au</a> |

|                |                                                              |
|----------------|--------------------------------------------------------------|
| Project        | PROPOSED PRIVATE HOSPITAL<br>360-364 CROWN STREET WOLLONGONG |
| Design         | J.Liu                                                        |
| Designed       | S.Coman                                                      |
| Checked        | T.Dempsey                                                    |
| Approved       | A.Francis                                                    |
| Drawing number | 10024_DA_SE02                                                |
| Revision       | 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

### TREES

#### STREET TREES

Crown Street  
*Cupressus anacardioides* Tuckeroo

#### Urunga Parade

*Syzygium luehmannii* Weeping Lilly Pilly  
*Eleocarpus reticulatus* Blueberry Ash

#### Feature Trees

*Acmena smithii* Lilly Pilly  
*Allocasuarina littoralis* Black Sheoak  
*Angophora floribunda* Rough Barked Apple  
*Banksia integrifolia* Coastal Banksia  
*Banksia serrata* Old Man Banksia  
*Eleocarpus reticulatus* Blueberry Ash  
*Eucalyptus paniculata* Grey Ironbark  
*Glochidion ferdinandi* Cheese Tree  
*Melaleuca linariifolia* Snow in Summer  
*Tibouchina x 'Alstonville'* Lasiantra

#### FERNS

*Asplenium australasicum* Bird's Nest Fern  
*Cyathea australis* Rough Tree Fern  
*Dicksonia antarctica* Soft Tree Fern  
*Platycentum bifurcatum* Stag Horn  
*Platycentum superbum* Elk Horn

#### SHRUBS

*Acalypha wilkesiana* Fijian Fire Plant  
*Callistemon citrinus 'Endeavour'* Crimson Bottlebrush  
*Callistemon viminalis* Weeping Bottlebrush  
*Camellia japonica* Japanese Camellia  
*Colocasia pulchrum* Oxalis  
*Cordyline fruticosa* Cordyline  
*Cordyline stricta* Narrow Leaved Palm Lily  
*Doryanthes excelsa* Gymea Lily  
*Escallonia macrantha* Common Escallonia  
*Gardenia jasminoides* Gardenia  
*Grevillea banksii* Banks Grevillea  
*Leptospermum laevigatum* Coastal Tea Tree  
*Leptospermum polygalifolium* Common Tea Tree  
*Pimelea ligustrina* Tail Rice-flower  
*Pittosporum tobira* Tobira  
*Plumbago auriculata* Plumbago  
*Syzygium australe* Small Leaved Lilly Pilly  
*Syzygium luehmannii* Small Leaf Lilly Pilly  
*Viburnum x burkwoodii* Coastal Rosemary  
*Westringia fruticosa* Westringia

#### GROUNDCOVERS

*Agapanthus orientalis* African Lily  
*Dianella caerulea s. lat* Blue Flax Lily  
*Dianella revoluta* Mauve Flax Lily  
*Echloa gigantea* False Hedgehog Grass  
*Hardenbergia violacea* False Sandpailia  
*Liriodendron chinensis* Giant Lily Turf  
*Phlox paniculata* Bronze Baby Flax  
*Viola hederacea* Native Daisy Flax

#### CLIMBERS

*Pandorea pandorana* Wanga Wanga Vine  
*Rosa banksia* Banksia Rose  
*Trachelospermum jasminoides* Star Jasmine

#### NSW GOVERNMENT

Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. 1007-0070

granted on the 18 APRIL 2011

Sheet No. 27 of 27

NOT FOR CONSTRUCTION

Feature shrub planting at entrance

Feature trees to frame entrance

Feature planting to highlight entry

Feature shrub planting at entrance

Feature trees to frame entrance

Feature planting to highlight entry

Feature shrub planting at entrance

Feature trees to frame entrance

Feature planting to highlight entry

Feature shrub planting at entrance

Feature trees to frame entrance

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| 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     |



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]

| NOTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ISSUE | AMENDMENT                                         | APPROVED | DATE     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|----------|----------|
| 1. VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS. DIMENSIONS MADE TO 1:1000 SCALE AND THOSE SHOWN IN PARTIAL VIEWS OF THE DRAWING SHALL TAKE PRECEDENCE OVER DIMENSIONS MADE TO SMALLER SCALES AND THOSE FOR GENERAL PURPOSES. DIMENSIONS TO RELIEF ARE NOT TO BE USED FOR CONSTRUCTION. DIMENSIONS TO RELIEF ARE NOT TO BE USED FOR CONSTRUCTION. DIMENSIONS TO RELIEF ARE NOT TO BE USED FOR CONSTRUCTION. | A     | FINAL LAYOUT FOR PART 2A ENVIRONMENTAL ASSESSMENT | PG       | 16/01/10 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | B     | PART 2A ENVIRONMENTAL ASSESSMENT                  | PG       | 15/02/10 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | C     | PART 2A ENVIRONMENTAL ASSESSMENT                  | PG       | 15/04/10 |

NOT FOR CONSTRUCTION



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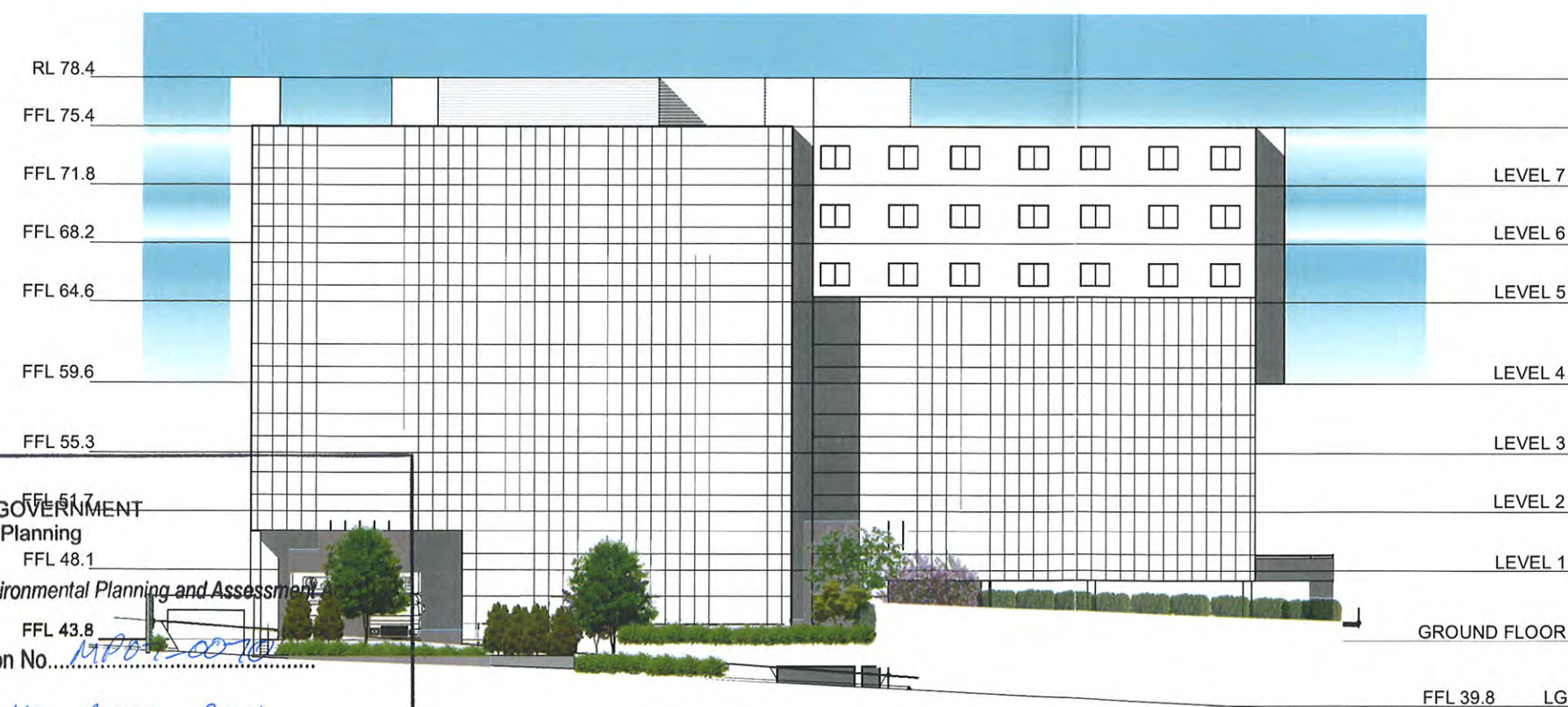
CLIENT  
AA CROWN HOLDINGS PTY LTD  
PROJECT  
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DRAWING TITLE  
LANDSCAPE CONCEPT PLAN  
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| DRAWN          | CHECKED        | DATE CREATED  | SCALE      |
|----------------|----------------|---------------|------------|
| MV             | UB             | 10 MARCH 2010 | 1:200 @ A1 |
| PROJECT NUMBER | DRAWING NUMBER | ISSUE         |            |
| 10504          | L1001          | C             |            |



CROWN STREET ELEVATION



NSW GOVERNMENT  
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. 1001-00010

granted on the 18 APRIL 2011  
URUNGA PARADE ELEVATION

NOT FOR CONSTRUCTION

ISSUE AMENDMENT

| ISSUE | AMENDMENT                                        | APPROVED | DATE    |
|-------|--------------------------------------------------|----------|---------|
| 1     | FINAL DRAFT FOR PART 3A ENVIRONMENTAL ASSESSMENT | PG       | 16/5/10 |
| 2     | PART 3A ENVIRONMENTAL ASSESSMENT                 | PG       | 31/5/10 |
| 3     | PART 3A ENVIRONMENTAL ASSESSMENT                 | PG       | 15/6/10 |

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PROJECT  
WOLLONGONG PRIVATE HOSPITAL

DRAWING TITLE  
LANDSCAPE CONCEPT PLAN  
ELEVATIONS

| DRAWN | CHECKED | DATE CREATED  | SCALE      |
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| MV    | UB      | 19 MARCH 2010 | 1:200 @ A1 |

| PROJECT NUMBER | DRAWING NUMBER | ISSUE |
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| 10504          | L2000          | C     |