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S	25.01.2018	FOR INFORMATION
T	30.01.2018	FOR INFORMATION
U	02.02.2018	FOR INFORMATION

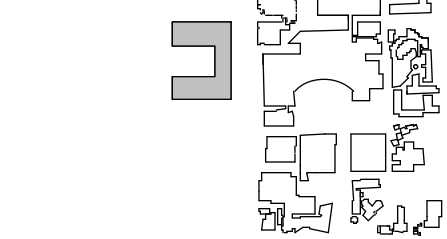
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CIVIL AND STRUCTURAL ENGINEERING	ENSTRUCT GROUP
MECHANICAL ENGINEERING	LEHR CONSULTANTS INTERNATIONAL
ELECTRICAL ENGINEERING	ACCUM AUSTRALIA
HYDRAULIC ENGINEERING	ACOR CONSULTANTS
CONSULTANT	PROJECT MANAGER
CLIENT	



HEALTH INFRASTRUCTURE
CLIENT NUMBER
130487
PROJECT
POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA
BVM PROJECT NUMBER

s1606008

DRAWING KEY



TRUE NORTH PROJECT NORTH

GRAPHIC SCALE

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SCALE

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DO NOT SCALE

STATUS

FOR SIGN-OFF

DRAWING

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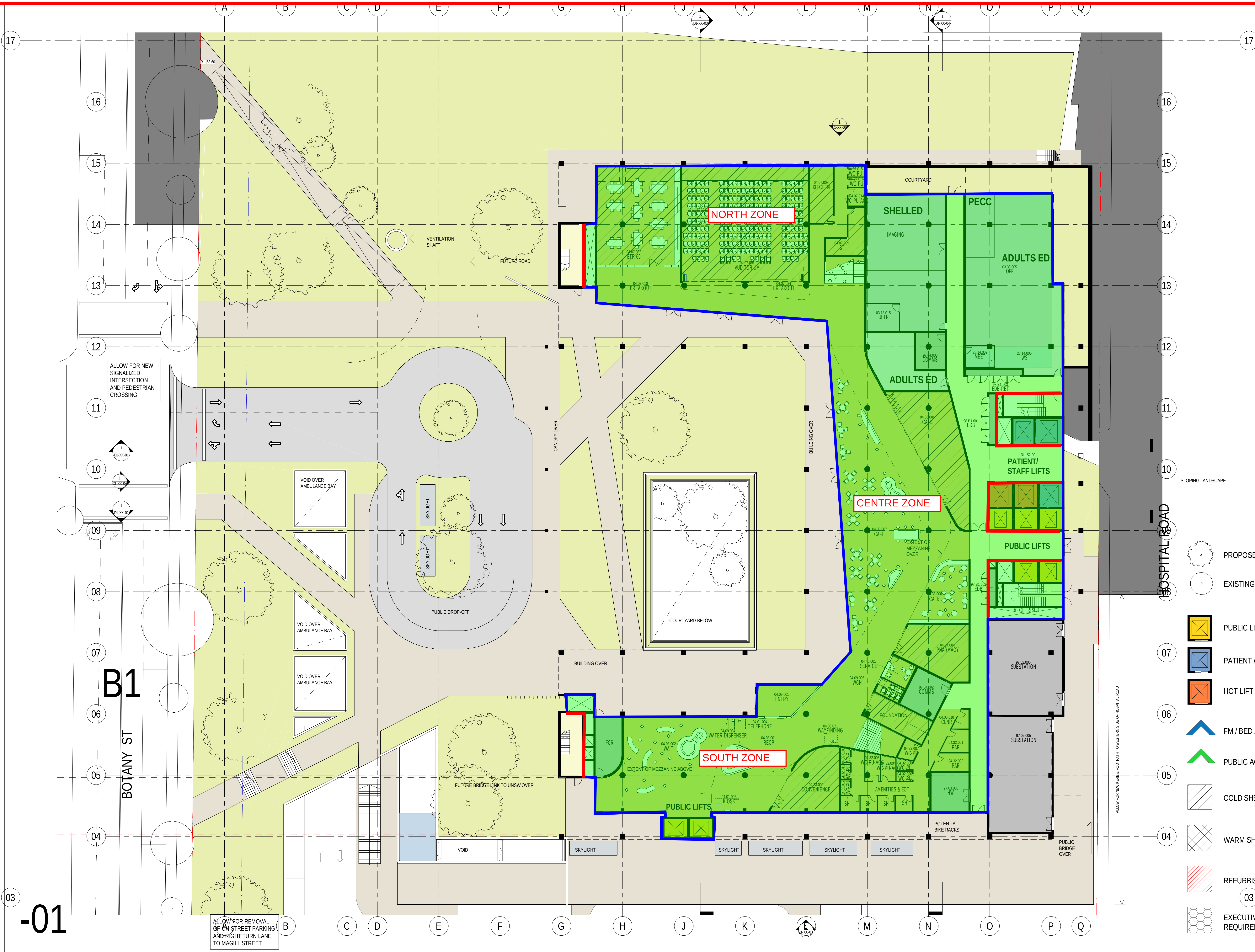
LEVEL -01

RCR-BVN-AR-50-DWG-

B2-B1-01

ISSUE

U



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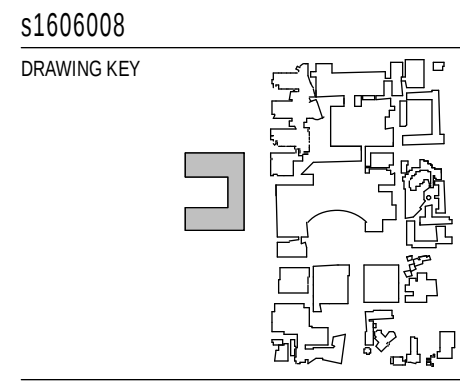
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PROJECT MANAGEMENT AURECON
CIVIL AND STRUCTURAL ENGINEERING ENSTRUP GROUP
MECHANICAL ENGINEERING LEHR CONSULTANTS INTERNATIONAL
ELECTRICAL ENGINEERING AECOM AUSTRALIA
HYDRAULIC ENGINEERING ACOR CONSULTANTS
CONSULTANT PROJECT MANAGER
CLIENT

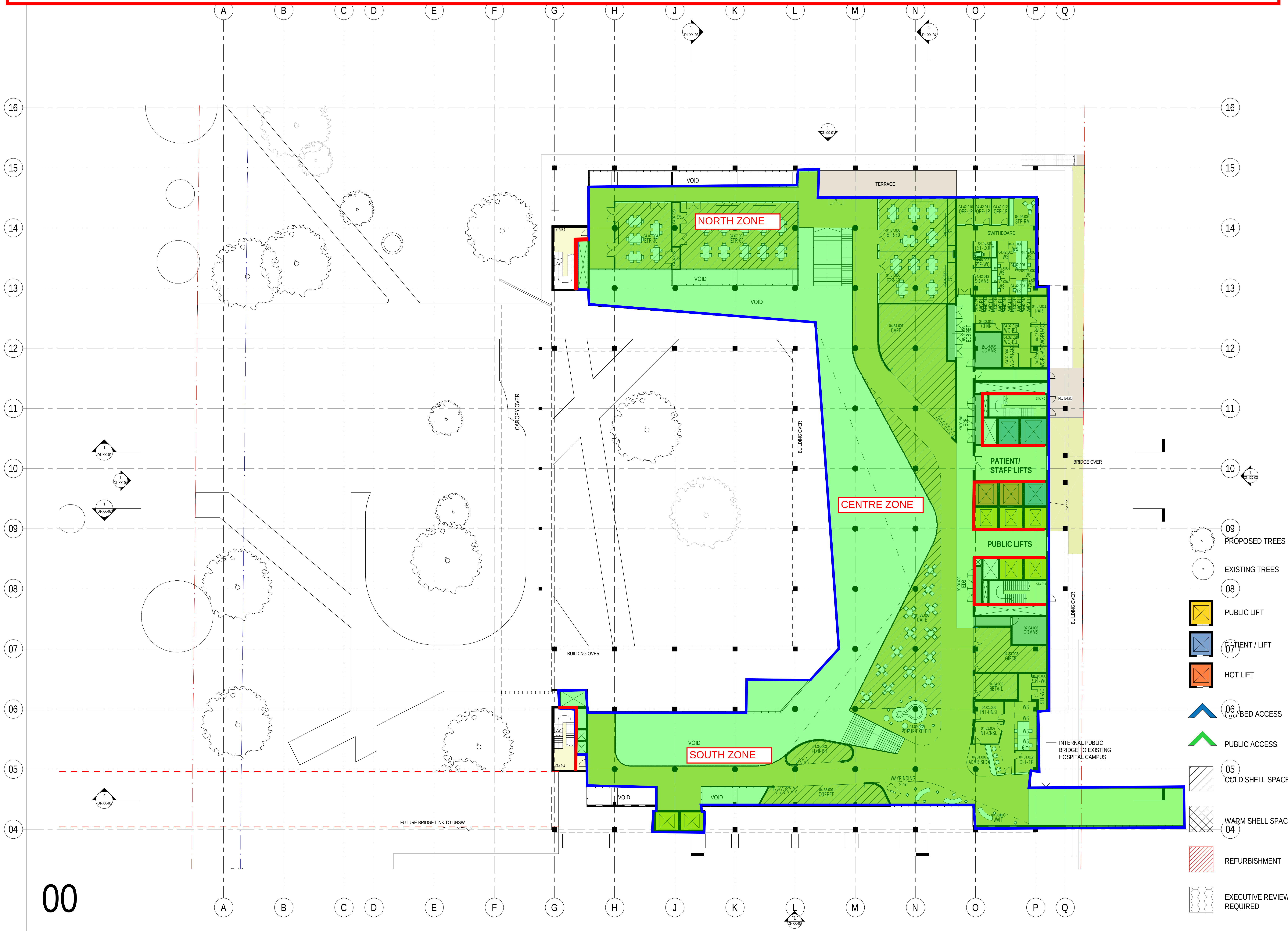


HEALTH INFRASTRUCTURE
CLIENT NUMBER
130487
PROJECT
POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA
BVM PROJECT NUMBER
S1606008



TRUE NORTH PROJECT NORTH
GRAPHIC SCALE
SCALE
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1:100000 DO NOT SCALE
STATUS
FOR SIGN-OFF
DRAWING

GENERAL ARRANGEMENT - LEVEL 00
RCR-BVN-AR-50-DWG-
B2-00-01
ISSUE
T



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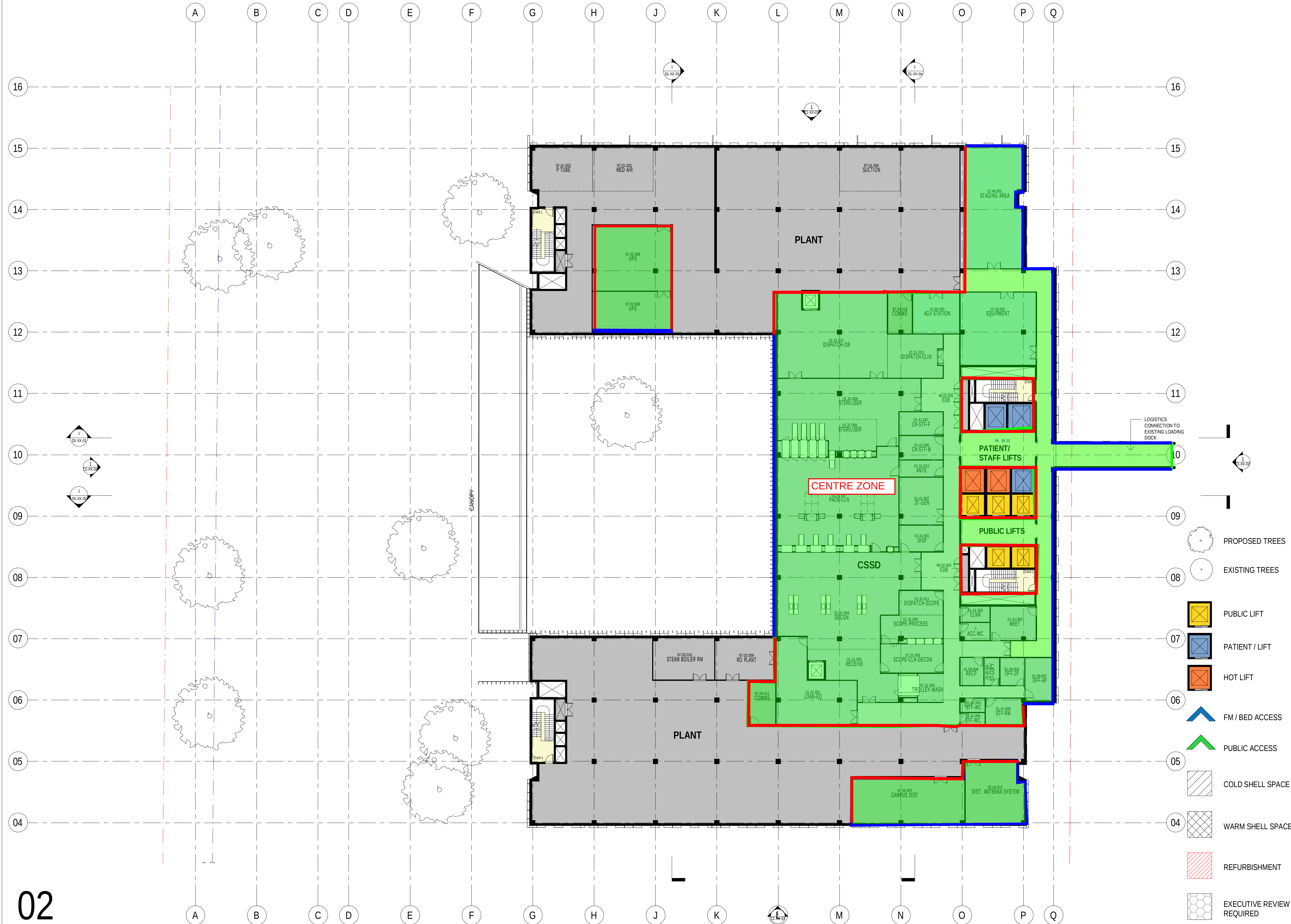


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PROPOSED TREES

EXISTING TREES

PUBLIC LIFT

PATIENT / LIFT

HOT LIFT

FM / BED ACCESS

PUBLIC ACCESS

COLD SHELL SPACE

WARM SHELL SPACE

REFURBISHMENT

EXECUTIVE REVIEW REQUIRED

PROJECT MANAGEMENT
AURECON

CIVIL AND STRUCTURAL ENGINEERING
ENSTRUCT GROUP

MECHANICAL ENGINEERING
LEHR CONSULTANTS INTERNATIONAL

ELECTRICAL ENGINEERING
AECOM AUSTRALIA

HYDRAULIC ENGINEERING
ACOR CONSULTANTS

CONSULTANT
PROJECT MANAGER

CLIENT

NSW Health
GOVERNMENT Infrastructure

HEALTH INFRASTRUCTURE

CLIENT NUMBER

130487

PROJECT

POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA

BVN PROJECT NUMBER

s1606008

DRAWING KEY

TRUE NORTH

GRAPHIC SCALE

SCALE

1 : 110000

STATUS

FOR SIGN-OFF

DRAWING

GENERAL ARRANGEMENT -
LEVEL 02

RCR-BVN-AR-50-DWG-
B2-02-01

ISSUE
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ENSTRUCT GROUP

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LEHR CONSULTANTS INTERNATIONAL

ELECTRICAL ENGINEERING
AECOM AUSTRALIA

HYDRAULIC ENGINEERING
ACOR CONSULTANTS

CONSULTANT
PROJECT MANAGER

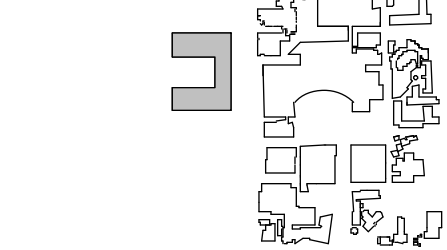
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HEALTH INFRASTRUCTURE
CLIENT NUMBER
130487
PROJECT
POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA
BVM PROJECT NUMBER

s1606008

DRAWING KEY



TRUE NORTH PROJECT NORTH

GRAPHIC SCALE

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SCALE

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STATUS

FOR SIGN-OFF

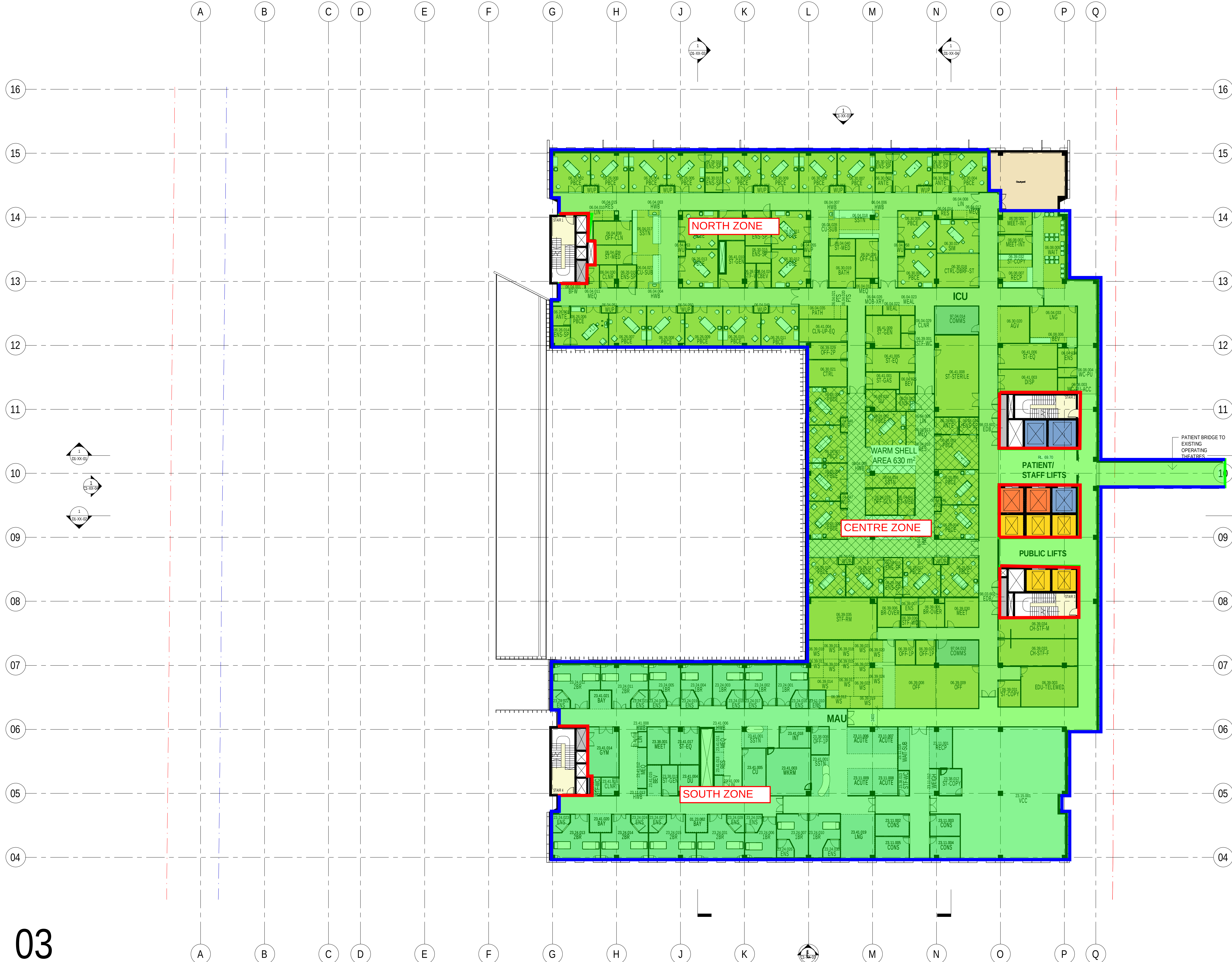
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GENERAL ARRANGEMENT -
LEVEL 03

RCR-BVM-AR-50-DWG-

B2-03-01

ISSUE
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03

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ENSTRUCT GROUP

MECHANICAL ENGINEERING
LEHR CONSULTANTS INTERNATIONAL

ELECTRICAL ENGINEERING
ACCOM AUSTRALIA

HYDRAULIC ENGINEERING
ACOR CONSULTANTS

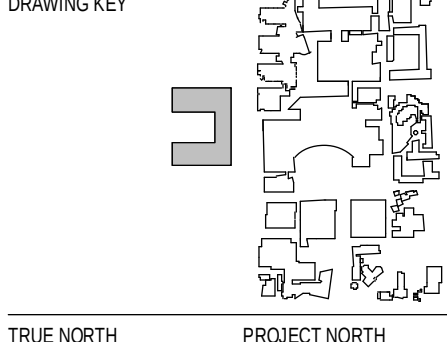
CONSULTANT
PROJECT MANAGER

CLIENT



HEALTH INFRASTRUCTURE
CLIENT NUMBER
130487
PROJECT
POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA
BVM PROJECT NUMBER

s1606008
DRAWING KEY



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PROJECT NORTH

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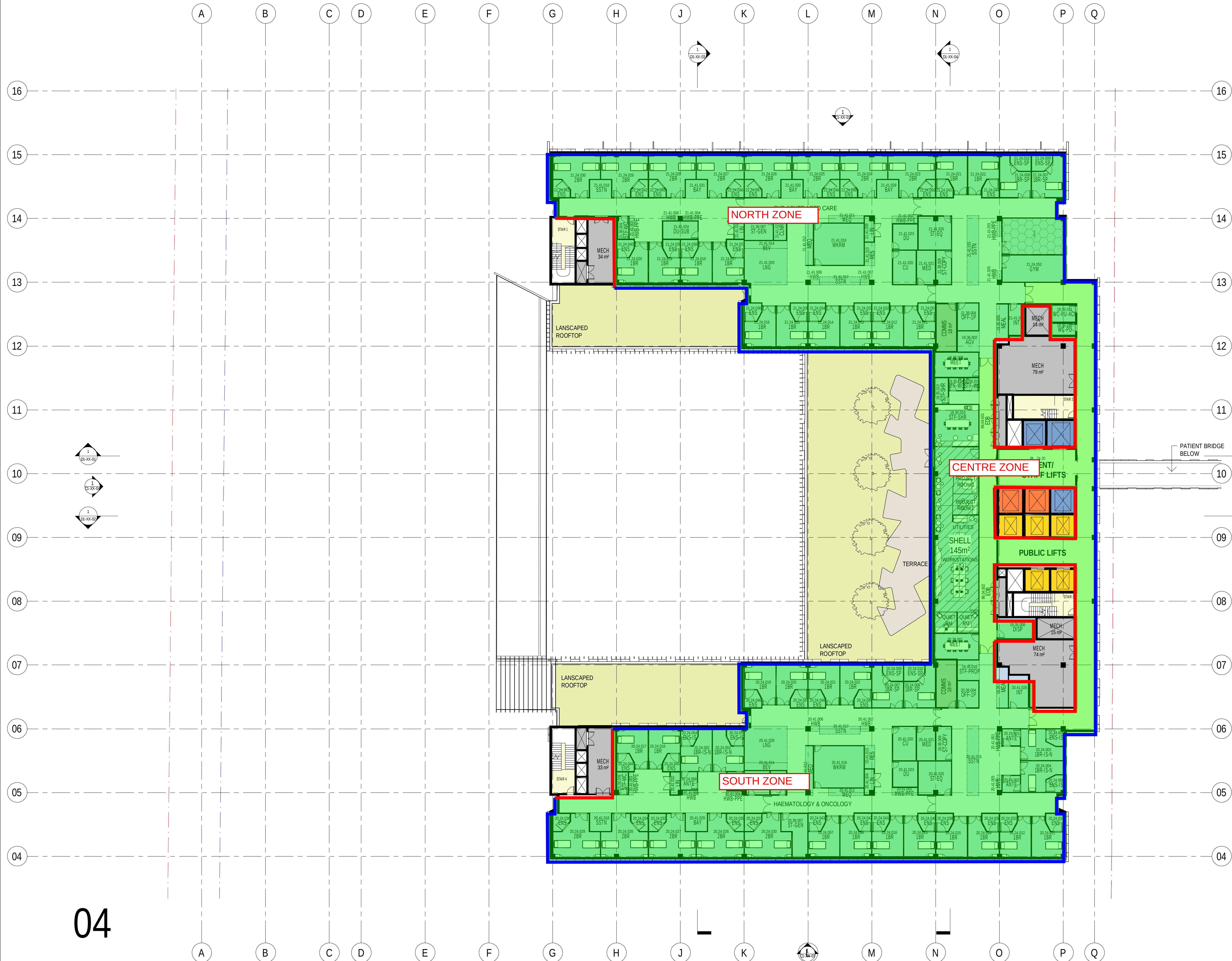
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GENERAL ARRANGEMENT -
LEVEL 04

RCR-BVN-AR-50-DWG-
B2-04-01

ISSUE
U



PROPOSED TREES

EXISTING TREES

PUBLIC LIFT

PATIENT / LIFT

HOT LIFT

FM / BED ACCESS

PUBLIC ACCESS

COLD SHELL SPACE

WARM SHELL SPACE

REFURBISHMENT

EXECUTIVE REVIEW
REQUIRED

04

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PROJECT MANAGEMENT
AURECON

CIVIL AND STRUCTURAL ENGINEERING
ENSTRUCT GROUP

MECHANICAL ENGINEERING
LEHR CONSULTANTS INTERNATIONAL

ELECTRICAL ENGINEERING
ACCOM AUSTRALIA

HYDRAULIC ENGINEERING
ACOR CONSULTANTS

CONSULTANT
PROJECT MANAGER

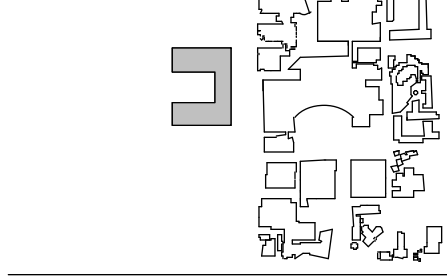
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HEALTH INFRASTRUCTURE
CLIENT NUMBER
130487
PROJECT
POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA
BVM PROJECT NUMBER

S1606008

DRAWING KEY



TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
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DO NOT SCALE

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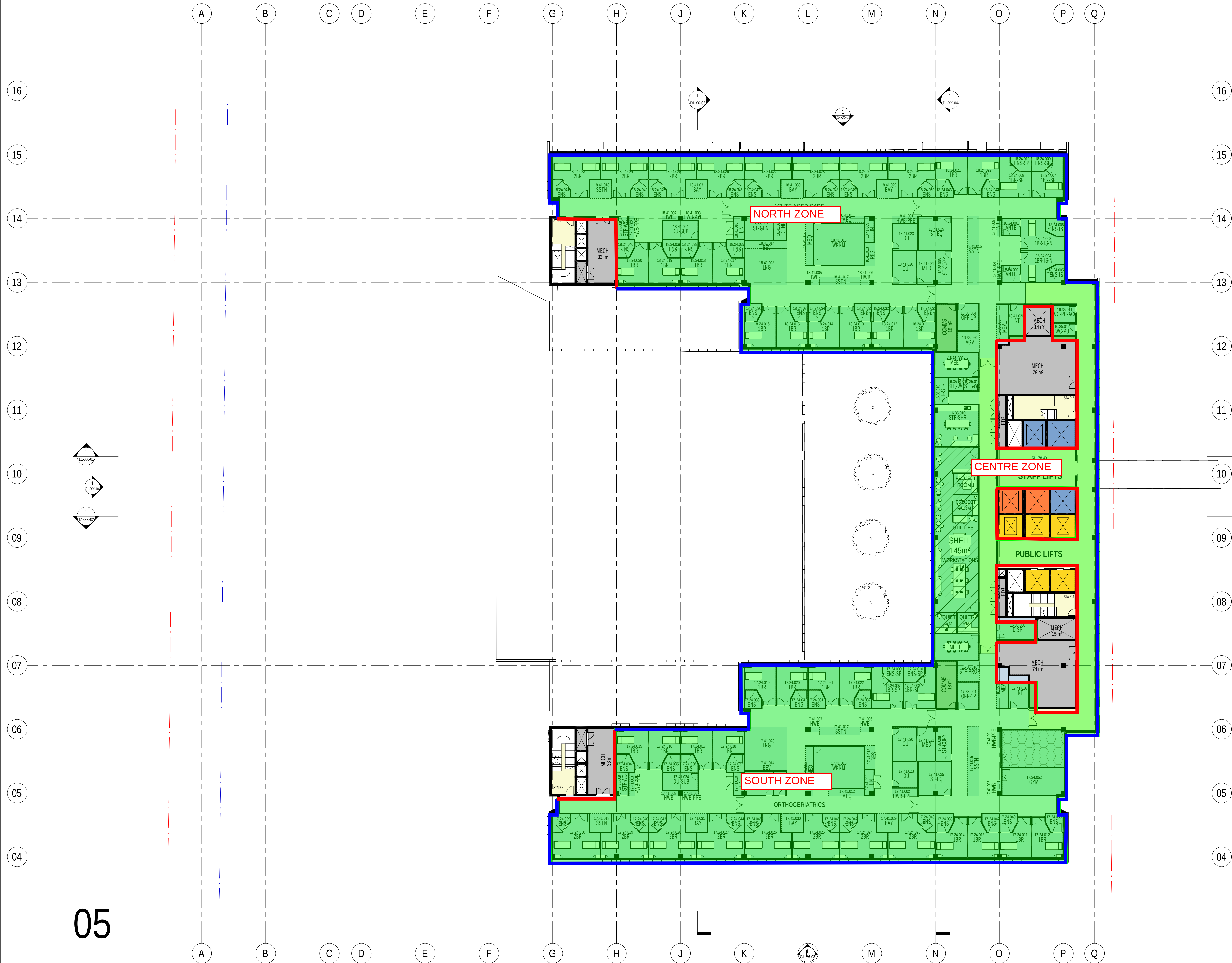
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GENERAL ARRANGEMENT -
LEVEL 05

RCR-BVN-AR-50-DWG-
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ISSUE
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05

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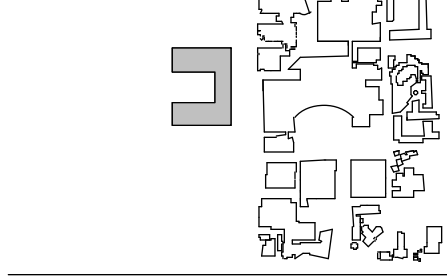
PROJECT MANAGEMENT AURECON
CIVIL AND STRUCTURAL ENGINEERING ENSTRUCT GROUP
MECHANICAL ENGINEERING LEHR CONSULTANTS INTERNATIONAL
ELECTRICAL ENGINEERING AECOM AUSTRALIA
HYDRAULIC ENGINEERING ACOR CONSULTANTS
CONSULTANT PROJECT MANAGER
CLIENT



HEALTH INFRASTRUCTURE
CLIENT NUMBER
130487
PROJECT
POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA
BVM PROJECT NUMBER

S1606008

DRAWING KEY



TRUE NORTH
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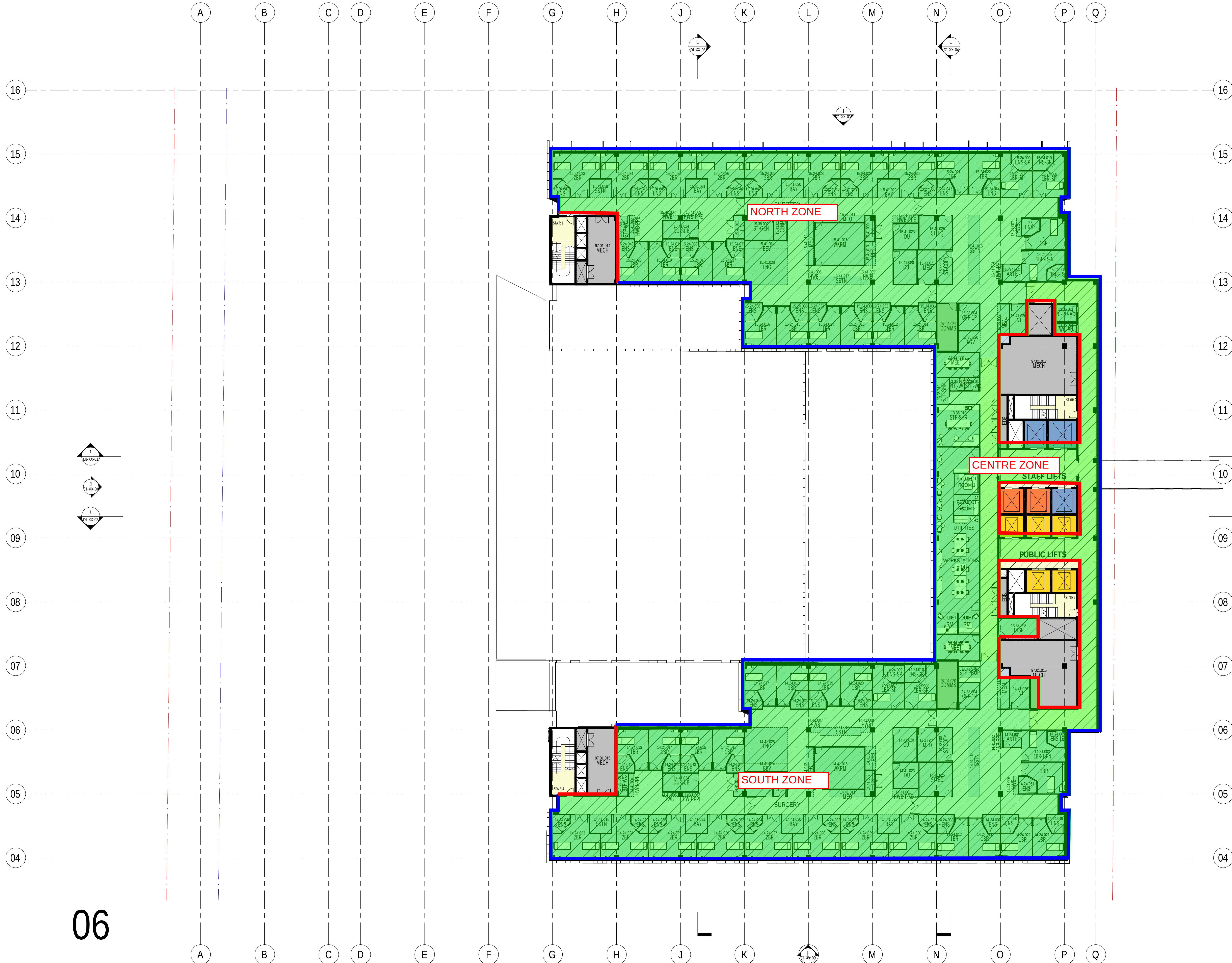
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GENERAL ARRANGEMENT -
LEVEL 06

RCR-BVN-AR-50-DWG-

B2-06-01

ISSUE
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06

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AURECON

CIVIL AND STRUCTURAL ENGINEERING
ENSTRUCT GROUP

MECHANICAL ENGINEERING
LEHR CONSULTANTS INTERNATIONAL

ELECTRICAL ENGINEERING
ACCOM AUSTRALIA

HYDRAULIC ENGINEERING
ACOR CONSULTANTS

CONSULTANT
PROJECT MANAGER

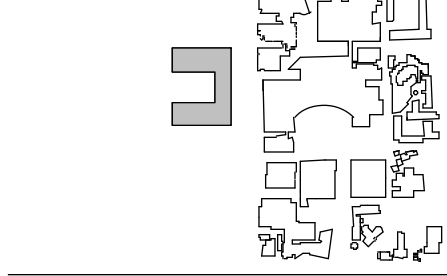
CLIENT



HEALTH INFRASTRUCTURE
CLIENT NUMBER
130487
PROJECT
POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA
BVM PROJECT NUMBER

s1606008

DRAWING KEY



TRUE NORTH PROJECT NORTH

GRAPHIC SCALE

SCALE
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STATUS

FOR SIGN-OFF

DRAWING

GENERAL ARRANGEMENT -

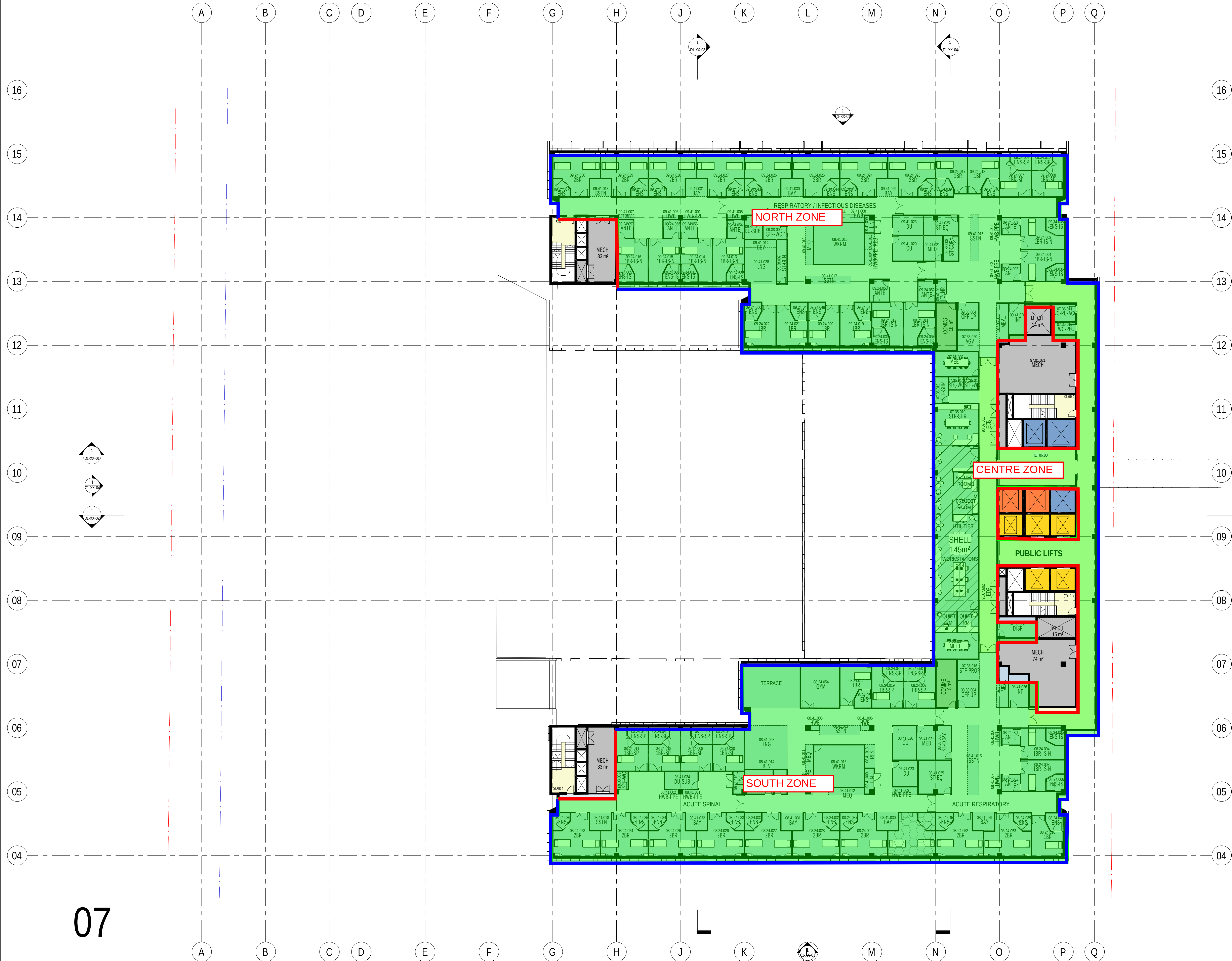
LEVEL 07

RCR-BVN-AR-50-DWG-

B2-07-01

ISSUE

T



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N	01.12.2017	FOR INFORMATION
P	11.12.2017	FOR INFORMATION
Q	21.12.2017	FOR INFORMATION
R	19.01.2018	FOR INFORMATION
S	25.01.2018	FOR INFORMATION
T	02.02.2018	FOR INFORMATION

PROJECT MANAGEMENT
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ENSTRUCT GROUP

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ELECTRICAL ENGINEERING
ACCOM AUSTRALIA

HYDRAULIC ENGINEERING
ACOR CONSULTANTS

CONSULTANT
PROJECT MANAGER

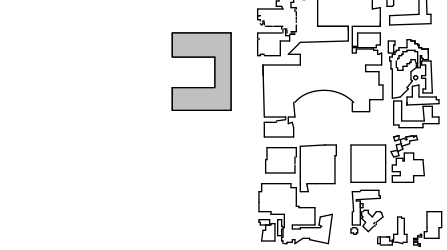
CLIENT



HEALTH INFRASTRUCTURE
CLIENT NUMBER
130487
PROJECT
POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA
BVM PROJECT NUMBER

s1606008

DRAWING KEY



TRUE NORTH PROJECT NORTH

GRAPHIC SCALE

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SCALE

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STATUS

FOR SIGN-OFF

DRAWING

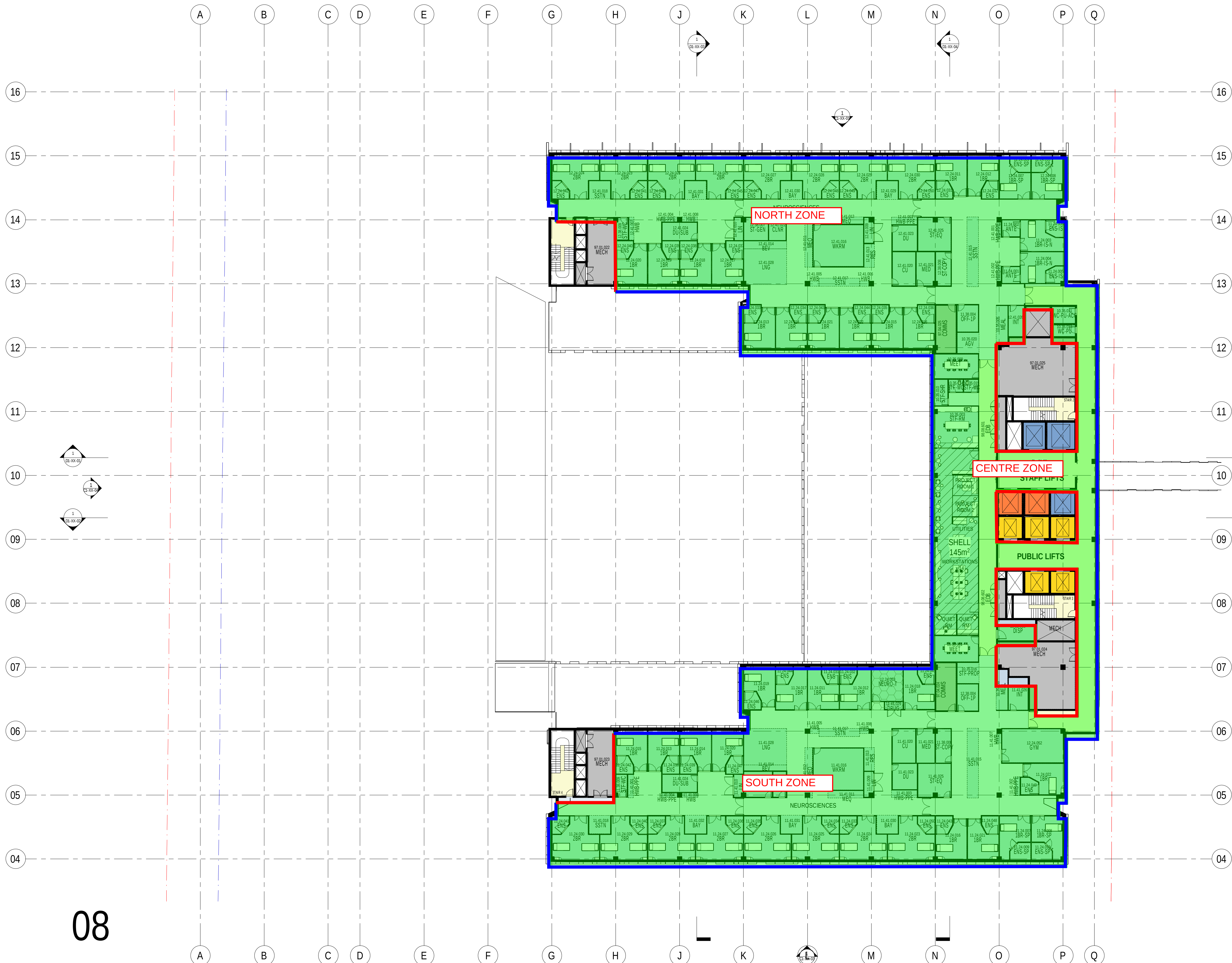
GENERAL ARRANGEMENT -

LEVEL 08

RCR-BVN-AR-50-DWG-

B2-08-01

ISSUE
T



Prince of Wales - Acute Services Building - BCA Section J Part J2 GLAZING Mark-Up



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ISSUE	DATE	FOR
A	26.06.2017	FOR INFORMATION
B	06.07.2017	FOR INFORMATION
C	28.07.2017	FOR INFORMATION
D	18.08.2017	FOR INFORMATION
E	07.09.2017	FOR INFORMATION
F	13.09.2017	FOR INFORMATION
G	22.09.2017	FOR INFORMATION
H	26.09.2017	FOR INFORMATION
J	16.10.2017	FOR INFORMATION
K	15.10.2017	FOR INFORMATION
L	13.11.2017	FOR INFORMATION
M	27.11.2017	FOR INFORMATION
N	01.12.2017	FOR INFORMATION
P	11.12.2017	FOR INFORMATION
Q	21.12.2017	FOR INFORMATION
R	19.01.2018	FOR INFORMATION
S	25.01.2018	FOR INFORMATION
T	02.02.2018	FOR INFORMATION

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ACOR CONSULTANTSCONSULTANT
PROJECT MANAGER

CLIENT



HEALTH INFRASTRUCTURE

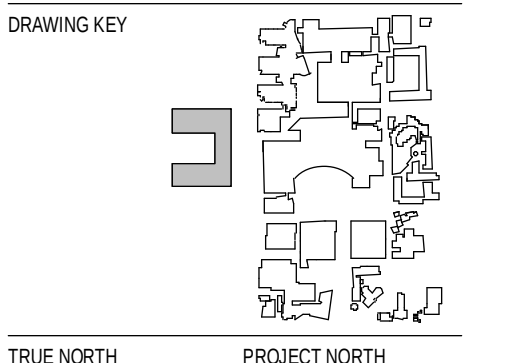
CLIENT NUMBER

130487

POW REDEVELOPMENT
BAKER ST
RANDWICK NSW
AUSTRALIA

BVN PROJECT NUMBER

s1606008



TRUE NORTH

1

GRAPHIC SCALE

0
SCALE

1:200@81

01100

FOR SIGN-OFF
DRAWING

GENERAL ARRANGEMENT - ROOF

RCR-BVN-AB-50-DWG.

B2-11-01

13. Appendix E – Section J Part J2 Glazing DTS Calculator

NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level B2

Facade areas

Option A

Option B

Glazing area (A) 152m² 40.3m²

N	NE	E	SE	S	SW	W	NW	internal
				388m ²		282m ²		
								n/a

Number of rows preferred in table below

12 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	West - West Wall	W		1.20	33.60		6.0	0.45	device		2.00	0.00	0.00	0.26	40.32	100% of 21%
2	South - South Wall	S		4.00	38.00		6.0	0.45				0.00	1.00	1.00	152.00	100% of 88%
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

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if inputs are valid



NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

shop display

Climate zone

5

Storey

Level B1

Facade areas

Option A

Option B

Glazing area (A) 373m² 103m² 361m² 35.2m² 226m²

N	NE	E	SE	S	SW	W	NW	internal
394m ²		207m ²		366m ²	38.5m ²	287m ²		
								n/a

Number of rows preferred in table below

12 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	North - North Wall	N		4.00	50.37		2.1	0.25	4.000	4.200	0.95	0.20	0.64	0.40	201.48	54% of 35%
2	North - West Wall	W		4.00	13.16		2.8	0.30				0.00	1.00	1.00	52.64	23% of 97%
3	North - South Wall	S		3.30	16.86		4.0	0.45				0.00	1.00	1.00	55.64	15% of 98%
4	Centre - SouthWest Wall	SW		3.30	10.68		3.2	0.30				0.00	1.00	1.00	35.24	100% of 84%
5	Centre - West Wall	W		3.30	32.40		3.2	0.30				0.00	1.00	1.00	106.92	48% of 97%
6	South - North Wall	N		3.90	30.24		2.1	0.25	4.000	4.200	0.95	0.30	0.64	0.40	117.94	32% of 35%
7	South - West Wall	W		3.90	17.11		2.8	0.30				0.00	1.00	1.00	66.73	29% of 97%
8	Tarvel - North Wall	N		3.90	13.75		2.1	0.25	4.000	4.200	0.95	0.30	0.64	0.40	53.63	14% of 35%
9	South - South Wall	S		4.00	76.31		4.0	0.45				0.00	1.00	1.00	305.24	85% of 98%
10	South - East Wall	E		4.00	4.80		4.8	0.45				0.00	1.00	1.00	19.20	19% of 100%
11	Centre - East Wall	E		4.00	9.37		4.8	0.45				0.00	1.00	1.00	37.48	37% of 100%
12	North - Esat Wall	E		4.00	11.50		4.8	0.45				0.00	1.00	1.00	46.00	45% of 100%

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if inputs are valid



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NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

shop display

Climate zone

5

Storey

Level 00

Facade areas

Option A

Option B

Glazing area (A) 373m² 103m² 361m² 35.2m² 226m²

N	NE	E	SE	S	SW	W	NW	internal
394m ²		207m ²		366m ²	38.5m ²	287m ²		
								n/a

Number of rows preferred in table below

12 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	North - North Wall	N		4.00	50.37		2.1	0.25	4.000	4.200	0.95	0.20	0.64	0.40	201.48	54% of 35%
2	North - West Wall	W		4.00	13.16		2.8	0.30				0.00	1.00	1.00	52.64	23% of 97%
3	North - South Wall	S		3.30	16.86		4.0	0.45				0.00	1.00	1.00	55.64	15% of 98%
4	Centre - SouthWest Wall	SW		3.30	10.68		3.2	0.30				0.00	1.00	1.00	35.24	100% of 84%
5	Centre - West Wall	W		3.30	32.40		3.2	0.30				0.00	1.00	1.00	106.92	48% of 97%
6	South - North Wall	N		3.90	30.24		2.1	0.25	4.000	4.200	0.95	0.30	0.64	0.40	117.94	32% of 35%
7	South - West Wall	W		3.90	17.11		2.8	0.30				0.00	1.00	1.00	66.73	29% of 97%
8	Tarvel - North Wall	N		3.90	13.75		2.1	0.25	4.000	4.200	0.95	0.30	0.64	0.40	53.63	14% of 35%
9	South - South Wall	S		4.00	76.31		4.0	0.45				0.00	1.00	1.00	305.24	85% of 98%
10	South - East Wall	E		4.00	4.80		4.8	0.45				0.00	1.00	1.00	19.20	19% of 100%
11	Centre - East Wall	E		4.00	9.37		4.8	0.45				0.00	1.00	1.00	37.48	37% of 100%
12	North - Esat Wall	E		4.00	11.50		4.8	0.45				0.00	1.00	1.00	46.00	45% of 100%

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if inputs are valid



NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level 01

Facade areas

Option A

Option B

Glazing area (A) 272m² 166m² 254m² 84.9m²

N	NE	E	SE	S	SW	W	NW	internal
601m ²		455m ²		561m ²		373m ²		
								n/a

Number of rows preferred in table below

12 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	North - North Wall	N		5.10	28.80		3.2	0.30				0.00	1.00	1.00	146.88	53% of 94%
2	North - West Wall	W		5.10	1.60		3.2	0.35				0.00	1.00	1.00	8.16	10% of 48%
3	North - South Wall	S		5.10	12.00		3.2	0.35				0.00	1.00	1.00	61.20	25% of 52%
4	Centre - West Wall	W		4.91	12.00		3.2	0.35				0.00	1.00	1.00	58.92	69% of 48%
5	South - North Wall	N		5.10	14.40		3.2	0.35				0.00	1.00	1.00	73.44	32% of 94%
6	South - West Wall	W		4.91	3.63		3.2	0.35				0.00	1.00	1.00	17.82	21% of 48%
7	South - South Wall	S		4.91	28.80		3.2	0.35				0.00	1.00	1.00	141.41	57% of 52%
8	South - East Wall	E		5.10	19.00		3.2	0.35				0.00	1.00	1.00	96.90	58% of 84%
9	North - East Wall	E		5.10	13.55		3.2	0.35				0.00	1.00	1.00	69.11	42% of 84%
10	North Bridge Wall	N		5.10	10.07		2.8	0.25				0.00	1.00	1.00	51.36	15% of 94%
11	South Bridge Wall	S		5.10	10.07		2.8	0.25				0.00	1.00	1.00	51.36	18% of 52%

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if inputs are valid



NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level 02

Facade areas

Option A

Option B

Glazing area (A) 64.5m² 130m² 64.5m² 56.8m²

N	NE	E	SE	S	SW	W	NW	internal
129m ²		331m ²		93.6m ²		188m ²		
								n/a

Number of rows preferred in table below

12 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	North - North Wall	N		4.55	4.10		3.2	0.30				0.00	1.00	1.00	18.66	33% of 90%
2	Centre - West Wall	W		4.55	12.48		3.2	0.35				0.00	1.00	1.00	56.78	100% of 63%
3	Centre - South Wall	S		4.55	4.10		3.2	0.35				0.00	1.00	1.00	18.66	31% of 74%
4	South - East Wall	E		4.55	15.00		3.2	0.35				0.00	1.00	1.00	68.25	53% of 90%
5	North - East Wall	E		4.55	13.57		3.2	0.35				0.00	1.00	1.00	61.74	47% of 90%
6	North Bridge Wall	N		4.55	10.07		2.8	0.25				0.00	1.00	1.00	45.82	67% of 90%
7	South Bridge Wall	S		4.55	10.07		2.8	0.25				0.00	1.00	1.00	45.82	69% of 74%

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if inputs are valid



NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level 03

Facade areas

Option A

Option B

Glazing area (A) 221m² 141m² 238m² 88.7m²

N	NE	E	SE	S	SW	W	NW	internal
477m ²		365m ²		528m ²		343m ²		
								n/a

Number of rows preferred in table below

13 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	North - North Wall	N		4.50	25.20		3.2	0.30				0.00	1.00	1.00	113.40	50% of 97%
2	North - North West Wall	W		4.70	1.60		3.2	0.35				0.00	1.00	1.00	7.52	8% of 54%
3	North - South West Wall	W		4.70	1.73		3.2	0.35				0.00	1.00	1.00	8.13	9% of 54%
4	North - South Wall	S		4.50	14.40		3.2	0.35				0.00	1.00	1.00	64.80	28% of 52%
5	Centre - West Wall	W		4.50	12.48		3.2	0.35				0.00	1.00	1.00	56.16	63% of 54%
6	South - North Wall	N		4.40	14.40		3.2	0.35				0.00	1.00	1.00	63.36	34% of 97%
7	South - North West Wall	W		4.70	2.00		3.2	0.35				0.00	1.00	1.00	9.40	11% of 54%
8	South - South West Wall	W		4.70	1.60		3.2	0.35				0.00	1.00	1.00	7.52	8% of 54%
9	South - South Wall	S		4.50	28.80		3.2	0.35				0.00	1.00	1.00	129.60	56% of 52%
10	South - East Wall	E		4.50	19.00		3.2	0.35				0.00	1.00	1.00	85.50	61% of 89%
11	North - East Wall	E		4.50	12.34		3.2	0.35				0.00	1.00	1.00	55.53	39% of 89%
12	North Bridge Wall	N		4.35	10.07		2.8	0.25				0.00	1.00	1.00	43.80	16% of 97%
13	South Bridge Wall	S		4.35	10.07		2.8	0.25				0.00	1.00	1.00	43.80	17% of 52%

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if inputs are valid



NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level 04

Facade areas

Option A

Option B

Glazing area (A) 215m² 139m² 231m² 98.5m²

N	NE	E	SE	S	SW	W	NW	internal
487m ²		391m ²		478m ²		297m ²		
								n/a

Number of rows preferred in table below

12 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	North - North Wall	N		4.20	32.90		3.2	0.29				0.00	1.00	1.00	138.18	59% of 94%
2	North - North West Wall	W		4.20	1.60		3.2	0.35				0.00	1.00	1.00	6.72	7% of 69%
3	North - South Wall	S		4.20	20.40		3.2	0.35				0.00	1.00	1.00	85.68	37% of 56%
4	North - South West Wall	W		4.20	1.60		3.2	0.35				0.00	1.00	1.00	6.72	7% of 69%
5	Centre - West Wall	N		4.20	18.25		3.2	0.35				0.00	1.00	1.00	76.65	41% of 94%
6	South - North Wall	W		4.20	20.25		3.2	0.35				0.00	1.00	1.00	85.05	86% of 69%
7	South - West Wall	S		4.20	1.60		3.2	0.35				0.00	1.00	1.00	6.72	3% of 56%
8	South - South Wall	S		4.20	32.90		3.2	0.35				0.00	1.00	1.00	138.18	60% of 56%
9	East Wall	E		4.20	33.20		3.2	0.35				0.00	1.00	1.00	139.44	100% of 82%

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NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level 05

Facade areas

Option A

Option B

Glazing area (A) 215m² 139m² 231m² 98.5m²

N	NE	E	SE	S	SW	W	NW	internal
487m ²		391m ²		478m ²		297m ²		
								n/a

Number of rows preferred in table below

12 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
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NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level 06

Facade areas

Option A

Option B

Glazing area (A) 215m² 139m² 231m² 98.5m²

N	NE	E	SE	S	SW	W	NW	internal
487m ²		391m ²		478m ²		297m ²		
								n/a

Number of rows preferred in table below

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Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
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NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level 07

Facade areas

Option A

Option B

Glazing area (A) 215m² 139m² 231m² 98.5m²

N	NE	E	SE	S	SW	W	NW	internal
487m ²		391m ²		478m ²		297m ²		
								n/a

Number of rows preferred in table below

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NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

POW - ACUTE SERVICES BUILDING

Application

other

Climate zone

5

Storey

Level 08

Facade areas

Option A

Option B

Glazing area (A) 215m² 139m² 231m² 98.5m²

N	NE	E	SE	S	SW	W	NW	internal
487m ²		391m ²		478m ²		297m ²		
								n/a

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14. Appendix F – Green Star Strategy

Green Star - Design & As Built Scorecard

Project:	0
Targeted Rating:	4 Star - Best Practice

Core Points Available	Total Score Targeted
100	49.0

NA	CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
	Management				14	
	Green Star Accredited Professional	To recognise the appointment and active involvement of a Green Star Accredited Professional in order to ensure that the rating tool is applied effectively and as intended.	1.0	Accredited Professional	1	1
	Commissioning and Tuning	To encourage and recognise commissioning, handover and tuning initiatives that ensure all building services operate to their full potential.	2.0	Environmental Performance Targets	-	Complies
			2.1	Services and Maintainability Review	1	1
			2.2	Building Commissioning	1	1
			2.3	Building Systems Tuning	1	1
			2.4	Independent Commissioning Agent	1	1
	Adaptation and Resilience	To encourage and recognise projects that are resilient to the impacts of a changing climate and natural disasters.	3.1	Implementation of a Climate Adaptation Plan	2	
	Building Information	To recognise the development and provision of building information that facilitates understanding of a building's systems, operation and maintenance requirements, and environmental targets to enable the optimised performance.	4.1	Building Operations and Maintenance Information	1	1
			4.2	Building User Information	1	1
	Commitment to Performance	To recognise practices that encourage building owners, building occupants and facilities management teams to set targets and monitor environmental performance in a collaborative way.	5.1	Environmental Building Performance	1	
			5.2	End of Life Waste Performance	1	
	Metering and Monitoring	To recognise the implementation of effective energy and water metering and monitoring systems.	6.0	Metering	-	Complies
			6.1	Monitoring Systems	1	1
	Construction Environmental Management	To reward projects that use best practice formal environmental management procedures during construction.	7.0	Environmental Management Plan	-	Complies
			7.1	Formalised Environmental Management System	1	1
	Operational Waste	Prescriptive Pathway	8A	Performance Pathway - Specialist Plan	-	
			8B	Prescriptive Pathway - Facilities	1	1
Total					14	10

	Indoor Environment Quality				17	
☐	Indoor Air Quality	To recognise projects that provide high air quality to occupants.	9.1	Ventilation System Attributes	1	1
☐			9.2	Provision of Outdoor Air	2	2
☐			9.3	Exhaust or Elimination of Pollutants	1	1
☐	Acoustic Comfort	To reward projects that provide appropriate and comfortable acoustic conditions for occupants.	10.1	Internal Noise Levels	1	1
☐			10.2	Reverberation	1	1
☐			10.3	Acoustic Separation	1	1
☐	Lighting Comfort	To encourage and recognise well-lit spaces that provide a	11.0	Minimum Lighting Comfort	-	Complies
☐			11.1	General Illuminance and Glare Reduction	1	1

Green Star - Design & As Built Scorecard

Project:	0
Targeted Rating:	4 Star - Best Practice

Core Points Available	Total Score Targeted
100	49.0

NA	CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
☐	Lighting Comfort	high degree of comfort to users.	11.2	Surface Illuminance	1	1
☐			11.3	Localised Lighting Control	1	
☐	Visual Comfort	To recognise the delivery of well-lit spaces that provide high levels of visual comfort to building occupants.	12.0	Glare Reduction	-	Complies
☐			12.1	Daylight	2	
☐			12.2	Views	1	
☐	Indoor Pollutants	To recognise projects that safeguard occupant health through the reduction in internal air pollutant levels.	13.1	Paints, Adhesives, Sealants and Carpets	1	1
☐			13.2	Engineered Wood Products	1	1
☐	Thermal Comfort	To encourage and recognise projects that achieve high levels of thermal comfort.	14.1	Thermal Comfort	1	1
☐			14.2	Advanced Thermal Comfort	1	
Total					17	12

Energy				22	
Greenhouse Gas Emissions	E. Modelled Performance Pathway	15A.0	Conditional Requirement: Prescriptive Pathway	-	
		15A.1	Building Envelope	-	
		15A.2	Glazing	-	
		15A.3	Lighting	-	
		15A.4	Ventilation and Air-conditioning	-	
		15A.5	Domestic Hot Water Systems	-	
		15A.6	Building Sealing	-	
		15A.7	Accredited GreenPower	-	
		15B.0	Conditional Requirement: NatHERS Pathway	-	
		15B.1	NatHERS Pathway	-	
		15C.0	Conditional Requirement: BASIX Pathway	-	
		15C.1	BASIX Pathway	-	
		15D.0	Conditional Requirement: NABERS Pathway	-	
		15D.1	NABERS Energy Commitment Agreement Pathway	-	
		15E.0	Conditional Requirement: Reference Building Pathway	-	Complies
		15E.1	Comparison to a Reference Building Pathway	20	5
Peak Electricity Demand	Performance Pathway	16A	Prescriptive Pathway - On-site Energy Generation	-	

Green Star - Design & As Built Scorecard

Project:	0
Targeted Rating:	4 Star - Best Practice

Core Points Available	Total Score Targeted
100	49.0

NA	CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
	Reduction	Performance Pathway	16B	Performance Pathway - Reference Building	2	1
Total					22	6

Transport					10	
	Sustainable Transport	Prescriptive Pathway	17A.1	Performance Pathway	0	
			17B.1	Access by Public Transport	3	2
			17B.2	Reduced Car Parking Provision	1	
			17B.3	Low Emission Vehicle Infrastructure	1	1
			17B.4	Active Transport Facilities	1	
			17B.5	Walkable Neighbourhoods	1	1
Total					7	4

Water					12	
	Potable Water	Prescriptive Pathway	18A.1	Potable Water - Performance Pathway	0	
			18B.1	Sanitary Fixture Efficiency	1	1
			18B.2	Rainwater Reuse	1	0
			18B.3	Heat Rejection	2	0
			18B.4	Landscape Irrigation	1	1
			18B.5	Fire System Test Water	1	1
Total					6	3

Materials					14	
☐	Life Cycle Impacts	Prescriptive Pathway - Life Cycle Impacts	19A.1	Comparative Life Cycle Assessment	0	
			19A.2	Additional Life Cycle Impact Reporting	0	
			19B.1	Concrete	3	1
			19B.2	Steel	1	
			19B.3	Building Reuse	4	
☐	Responsible Building Materials	To reward projects that include materials that are responsibly sourced or have a sustainable supply chain.	20.1	Structural and Reinforcing Steel	1	1
☐			20.2	Timber Products	1	1

Green Star - Design & As Built Scorecard

Project:	0
Targeted Rating:	4 Star - Best Practice

Core Points Available	Total Score Targeted
100	49.0

NA	CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
☐			20.3	Permanent Formwork, Pipes, Flooring, Blinds and Cables	1	1
	Sustainable Products	To encourage sustainability and transparency in product specification.	21.1	Product Transparency and Sustainability	3	
	Construction and Demolition Waste	Percentage Benchmark	22A	Fixed Benchmark	-	
			22B	Percentage Benchmark	1	1
	Total					12

Land Use & Ecology					6	
☐	Ecological Value	To reward projects that improve the ecological value of their site.	23.0	Endangered, Threatened or Vulnerable Species	-	Complies
			23.1	Ecological Value	3	
☐	Sustainable Sites	To reward projects that choose to develop sites that have limited ecological value, re-use previously developed land and remediate contaminate land.	24.0	Conditional Requirement	-	Complies
			24.1	Reuse of Land	1	1
			24.2	Contamination and Hazardous Materials	1	1
	Heat Island Effect	To encourage and recognise projects that reduce the contribution of the project site to the heat island effect.	25.0	Heat Island Effect Reduction	1	
Total					6	2

Emissions					5	
☐	Stormwater	To reward projects that minimise peak stormwater flows and reduce pollutants entering public sewer infrastructure.	26.1	Reduced Peak Discharge	1	1
			26.2	Reduced Pollution Targets	1	1
☐	Light Pollution	To reward projects that minimise light pollution.	27.0	Light Pollution to Neighbouring Bodies	-	Complies
			27.1	Light Pollution to Night Sky	1	1
	Microbial Control	To recognise projects that implement systems to minimise the impacts associated with harmful microbes in building systems.	28.0	Legionella Impacts from Cooling Systems	1	
	Refrigerant Impacts	To encourage operational practices that minimise the environmental impacts of refrigeration equipment.	29.0	Refrigerants Impacts	1	1
Total					5	4

Innovation					10	
	Innovative Technology or Process	The project meets the aims of an existing credit using a technology or process that is considered innovative in Australia or the world.	30A	Innovative Technology or Process	10	
	Market Transformation	The project has undertaken a sustainability initiative that substantially contributes to the broader market transformation towards sustainable development in	30B	Market Transformation		
	Improving on Green Star Benchmarks	The project has achieved full points in a Green Star credit and demonstrates a substantial improvement on the benchmark required to achieve full points.	30C	Improving on Green Star Benchmarks		1
	Innovation Challenge	Where the project addresses an sustainability issue not included within any of the Credits in the existing Green Star rating tools.	30D	Innovation Challenge		2

Green Star - Design & As Built Scorecard

Project:	0
Targeted Rating:	4 Star - Best Practice

Core Points Available	Total Score Targeted
100	49.0

NA	CATEGORY / CREDIT	AIM OF THE CREDIT / SELECTION	CODE	CREDIT CRITERIA	POINTS AVAILABLE	POINTS TARGETED
	Global Sustainability	Project teams may adopt an approved credit from a Global Green Building Rating tool that addresses a sustainability issue that is currently outside the scope of	30E	Global Sustainability		
Total					10	3

TOTALS	AVAILABLE	TARGETED
CORE POINTS	100	46.0
CATEGORY PERCENTAGE SCORE		46.0
INNOVATION POINTS	10	3.0
TOTAL SCORE TARGETED		49.0