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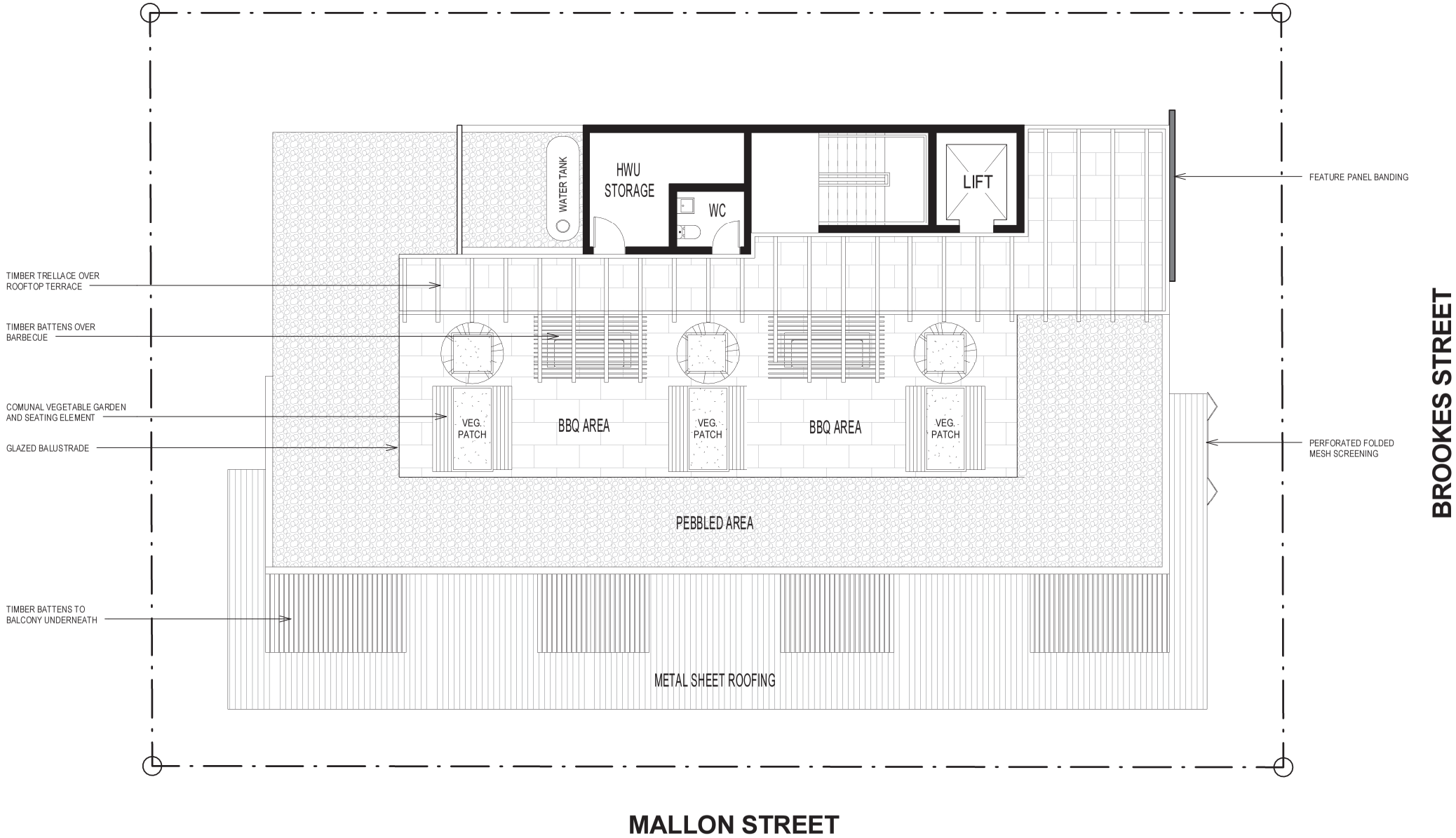
ISSUE	DATE	REVISION
A	06.02.14	ISSUED FOR DA

BlueSky
Alternative Thinking

PROPOSED RESIDENTIAL DEVELOPMENT
44 BROOKES STREET
BOWEN HILLS, QLD
LEVELS 5 TO 12 PLANS

SCALE	DATE	DRAWN BY
1 : 100	FEB 2014	SS
JOB No.	DRAWING No.	REVISION
130110	DA-104	A

contact: 26 chermsidestreet newstead qld 4006 phone: 073216 0555 fax: 0732160557 email: admin@wgarchitects.com.au web: www.wgarchitects.com.au



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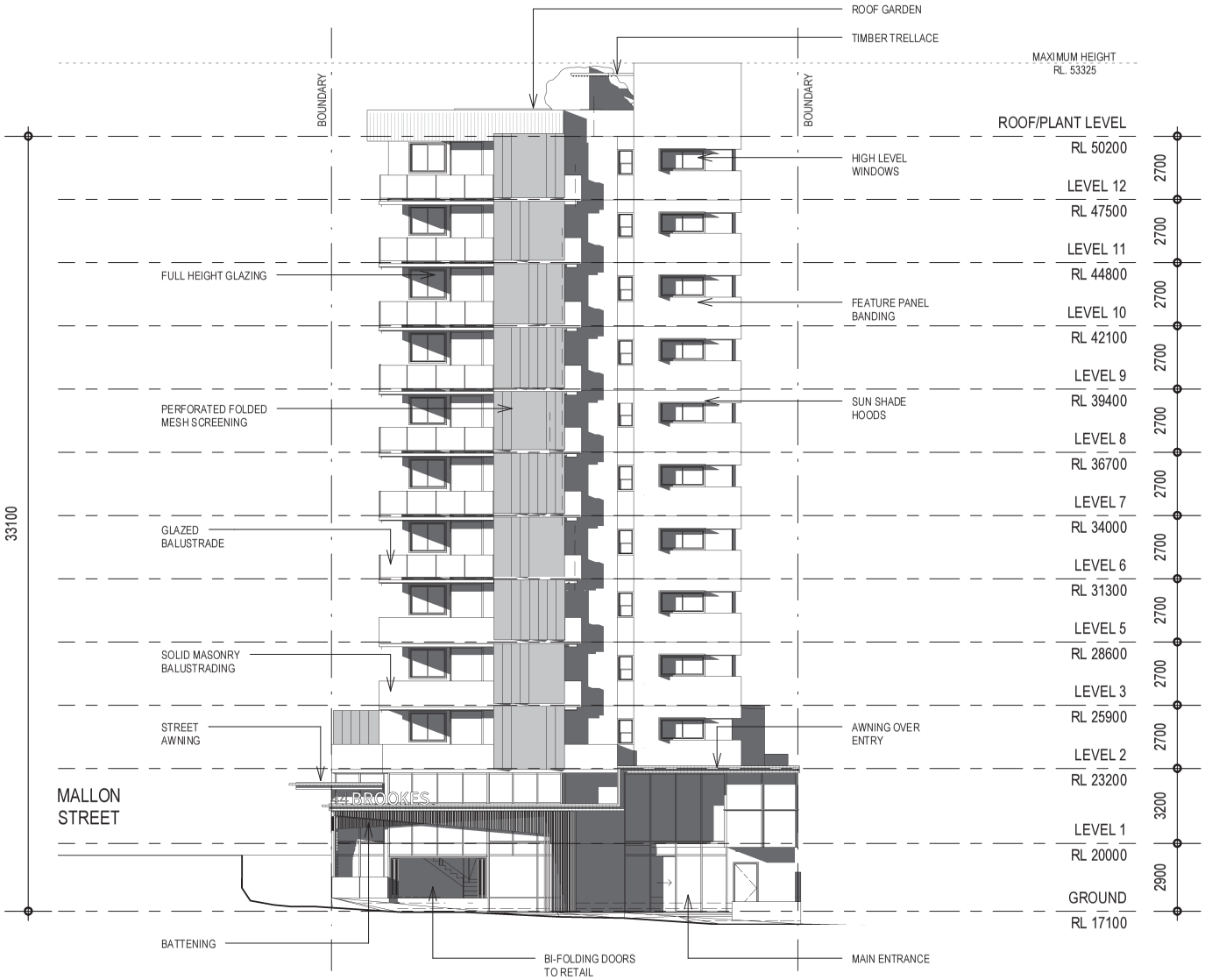
ISSUE	DATE	REVISION
A	06.02.14	ISSUED FOR DA

BlueSky
Alternative Thinking

PROPOSED RESIDENTIAL DEVELOPMENT
44 BROOKES STREET
BOWEN HILLS, QLD
ROOF PLAN

SCALE	DATE	DRAWN BY
1 : 100	FEB 2014	AF
JOB No.	DRAWING No.	REVISION
130110	DA-105	A

contact: 26 chermsidestreet newstead qld 4006 phone: 073216 0555 fax: 0732160557 email: admin@wgarchitects.com.au web: www.wgarchitects.com.au



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ISSUE	DATE	REVISION
A	06.02.14	ISSUED FOR DA

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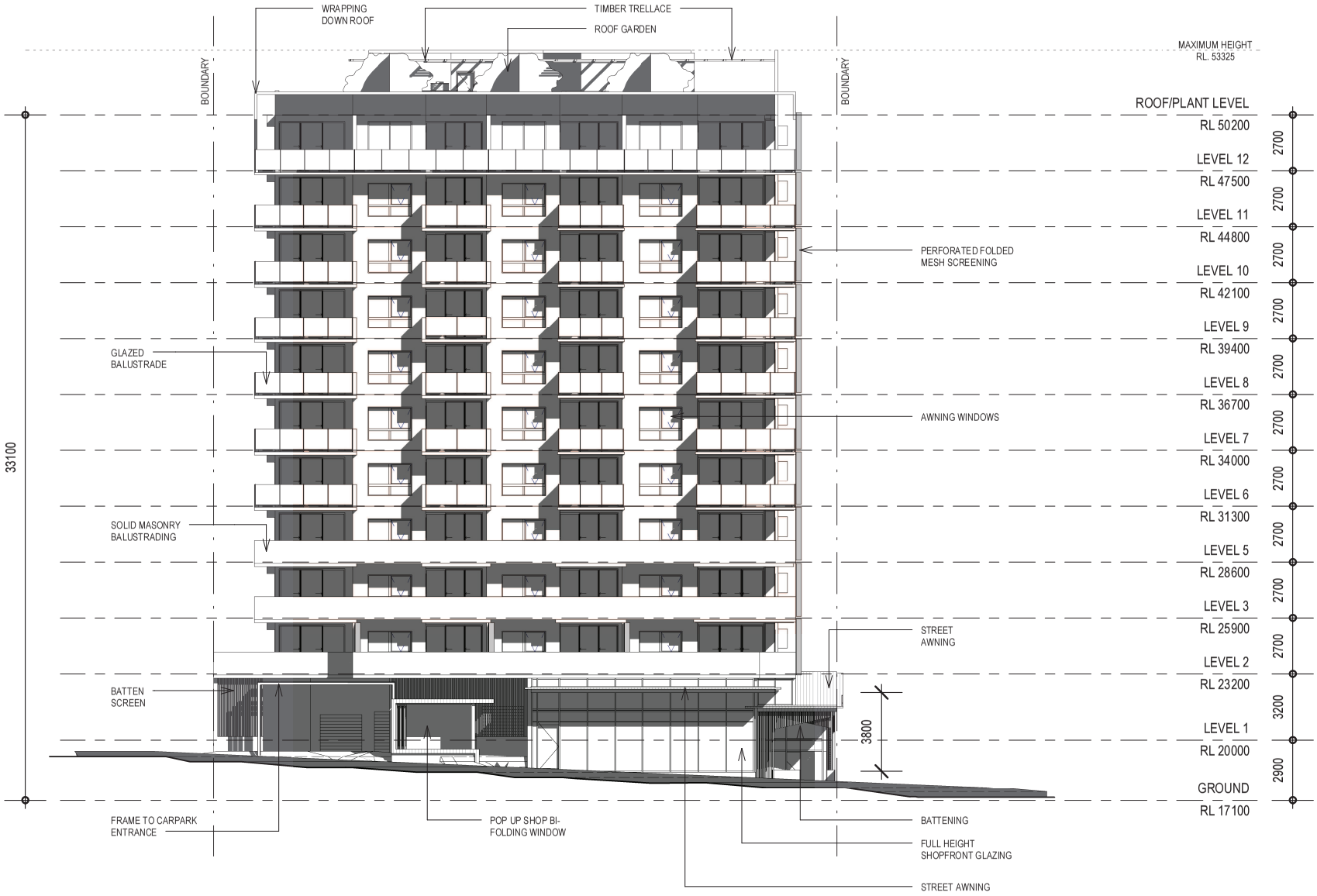
Alternative Thinking

PROPOSED RESIDENTIAL DEVELOPMENT
44 BROOKES STREET
BOWEN HILLS, QLD
WEST ELEVATION - BROOKES STREET

SCALE	DATE	DRAWN BY
1 : 200	FEB 2014	AF
JOB No.	DRAWING No.	REVISION
130110	DA-300	A

contact: 26 chermsidestreet newstead qld 4006 **phone:** 073216 0555 **fax:** 0732160557 **email:** admin@wgarchitects.com.au **web:** www.wgarchitects.com.au



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ISSUE	DATE	REVISION
A	06.02.14	ISSUED FOR DA

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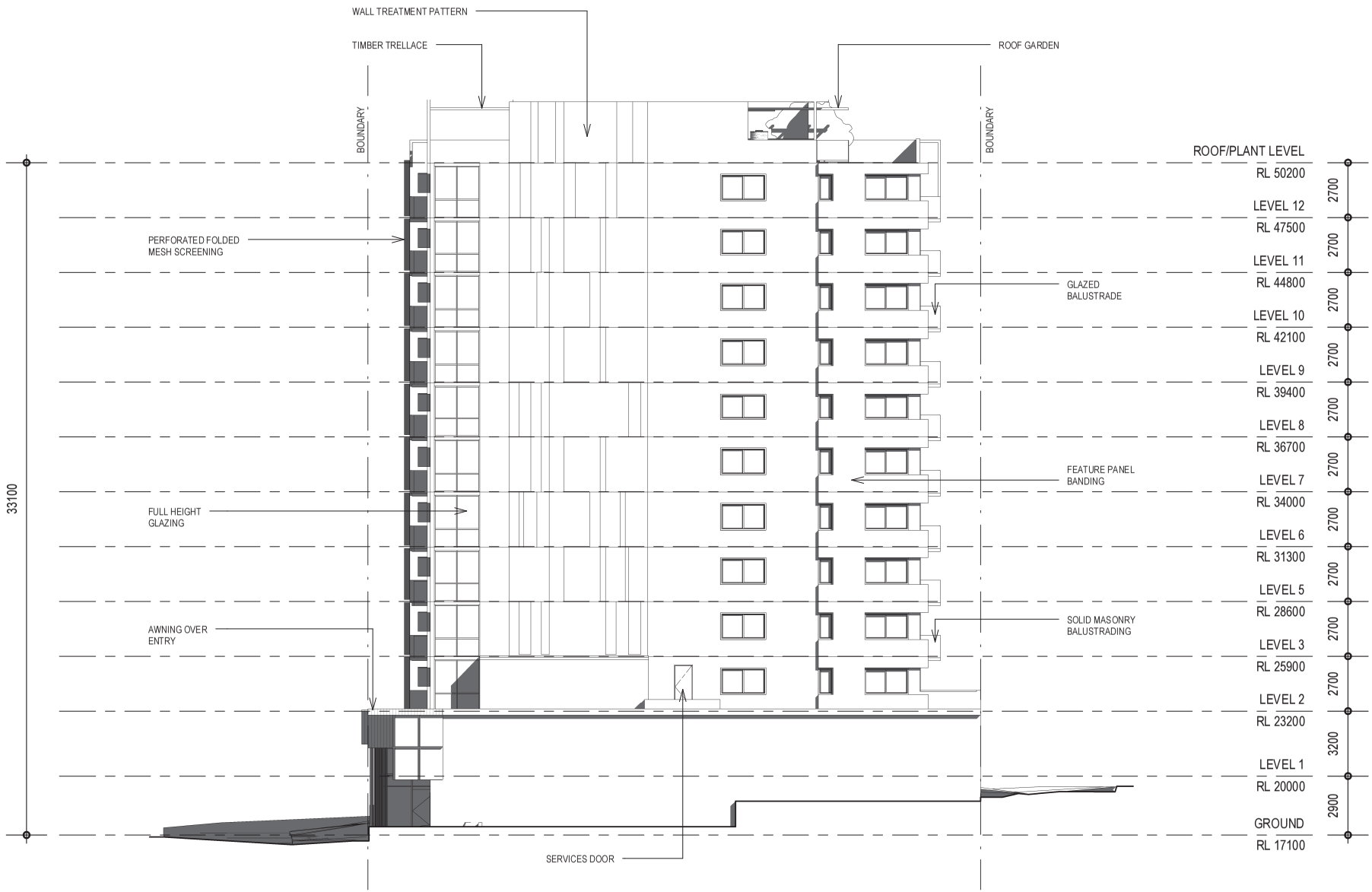
Alternative Thinking

PROPOSED RESIDENTIAL DEVELOPMENT
44 BROOKES STREET
BOWEN HILLS, QLD
NORTH ELEVATION - MALLON STREET

SCALE	DATE	DRAWN BY
1 : 200	FEB 2014	AF
JOB No. 130110	DRAWING No. DA-301	REVISION A

contact: 26 chermsidestreet newstead qld 4006 **phone:** 073216 0555 **fax:** 0732160557 **email:** admin@wgarchitects.com.au **web:** www.wgarchitects.com.au



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ISSUE	DATE	REVISION
A	06.02.14	ISSUED FOR DA

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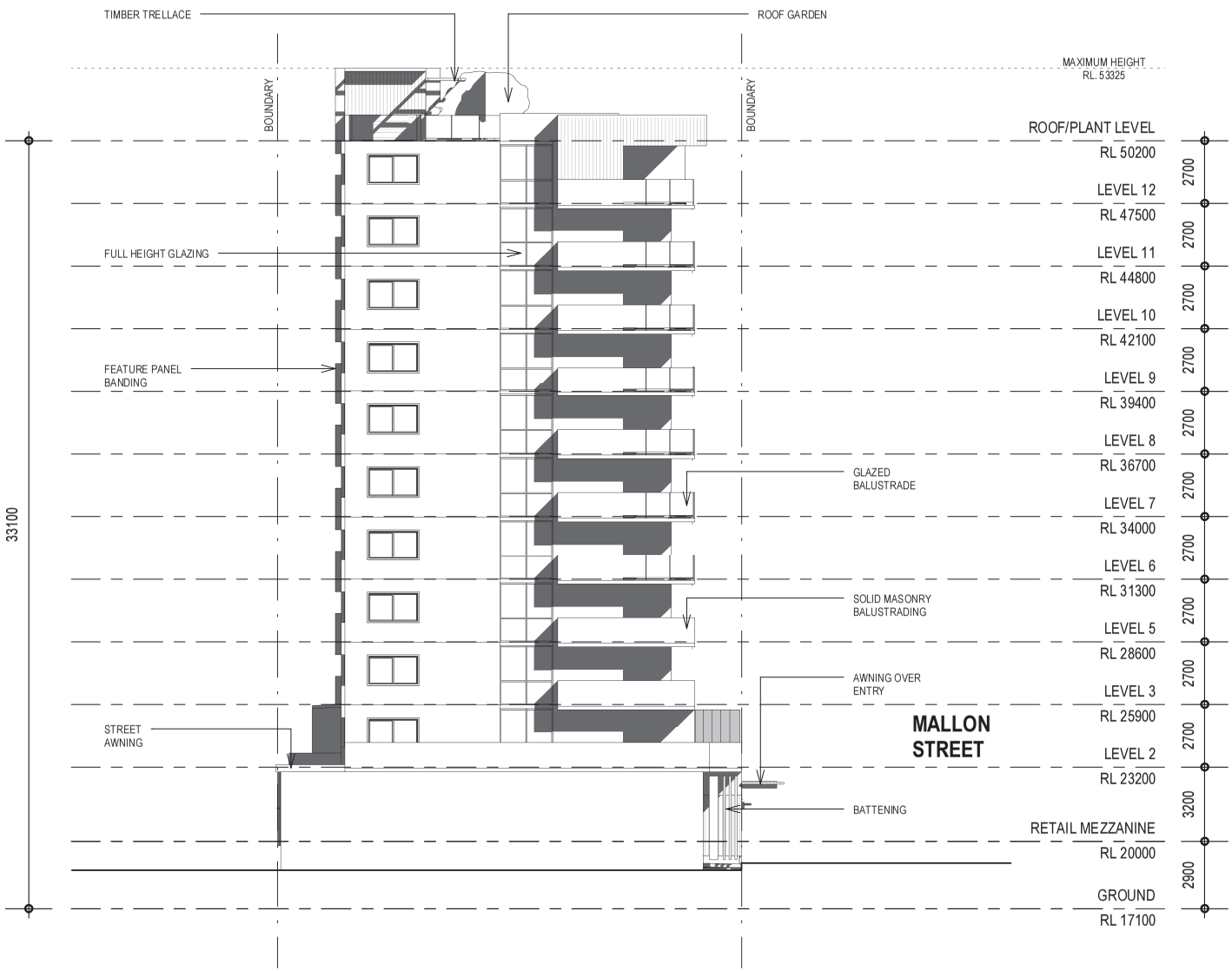
Alternative Thinking

PROPOSED RESIDENTIAL DEVELOPMENT
44 BROOKES STREET
BOWEN HILLS, QLD
SOUTH ELEVATION

SCALE	DATE	DRAWN BY
1 : 200	FEB 2014	AF
JOB No.	DRAWING No.	REVISION
130110	DA-302	A

contact: 26 chermsidestreet newstead qld 4006 **phone:** 073216 0555 **fax:** 0732160557 **email:** admin@wgarchitects.com.au **web:** www.wgarchitects.com.au



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harchitectswillisgreenhalgh**WGA**architects
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ISSUE	DATE	REVISION
A	06.02.14	ISSUED FOR DA

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Alternative Thinking

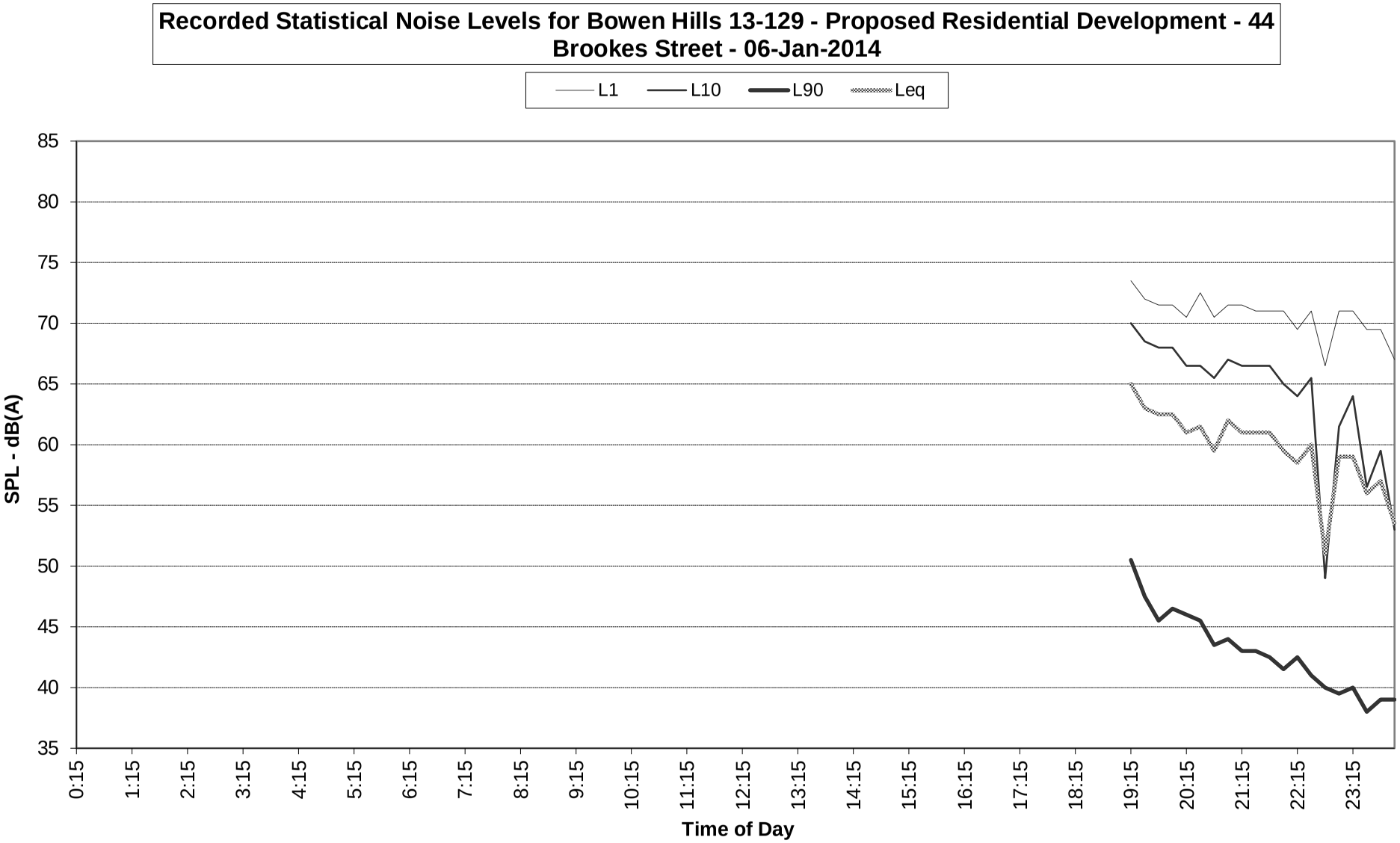
PROPOSED RESIDENTIAL DEVELOPMENT
44 BROOKES STREET
BOWEN HILLS, QLD
EAST ELEVATION

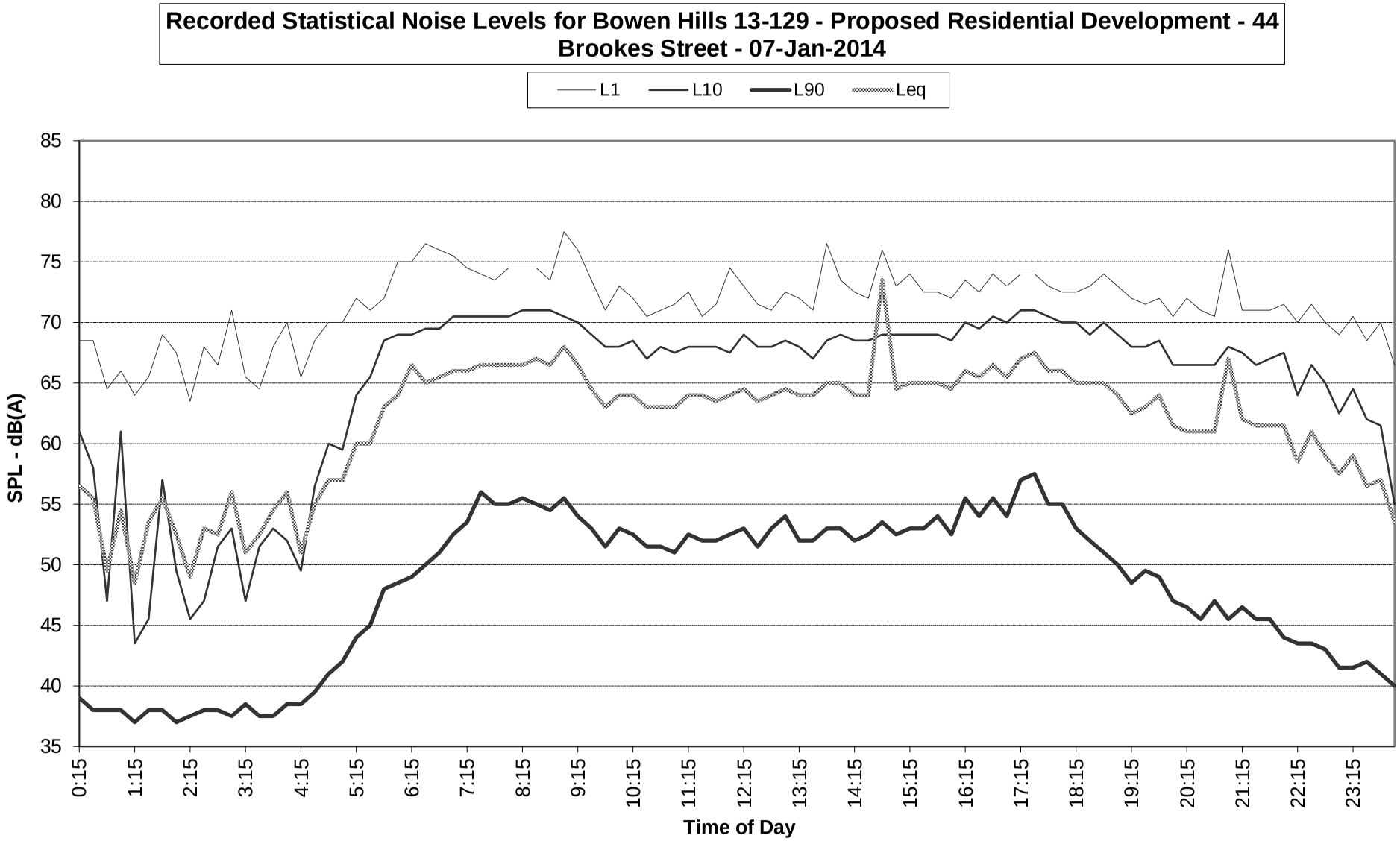
SCALE	DATE	DRAWN BY
1 : 200	FEB 2014	DH
JOB No.	DRAWING No.	REVISION
130110	DA-303	A

contact: 26 chermsidestreet newstead qld 4006 **phone:** 073216 0555 **fax:** 0732160557 **email:** admin@wgarchitects.com.au **web:** www.wgarchitects.com.au

ATTACHMENT 2

Noise Datalogger Traces


Recorded Statistical Noise Levels for Bowen Hills 13-129 - Proposed Residential Development - 44 Brookes Street - 06-Jan-2014
L1
L10
L90
Leq
SPL - dB(A)
85
80
75
70
65
60
55
50
45
40
35
0:15
1:15
2:15
3:15
4:15
5:15
6:15
7:15
8:15
9:15
10:15
11:15
12:15
13:15
14:15
15:15
16:15
17:15
18:15
19:15
20:15
21:15
22:15
23:15
Time of Day


Recorded Statistical Noise Levels for Bowen Hills 13-129 - Proposed Residential Development - 44 Brookes Street - 07-Jan-2014
L1
L10
L90
Leq
SPL - dB(A)
85
80
75
70
65
60
55
50
45
40
35
0:15
1:15
2:15
3:15
4:15
5:15
6:15
7:15
8:15
9:15
10:15
11:15
12:15
13:15
14:15
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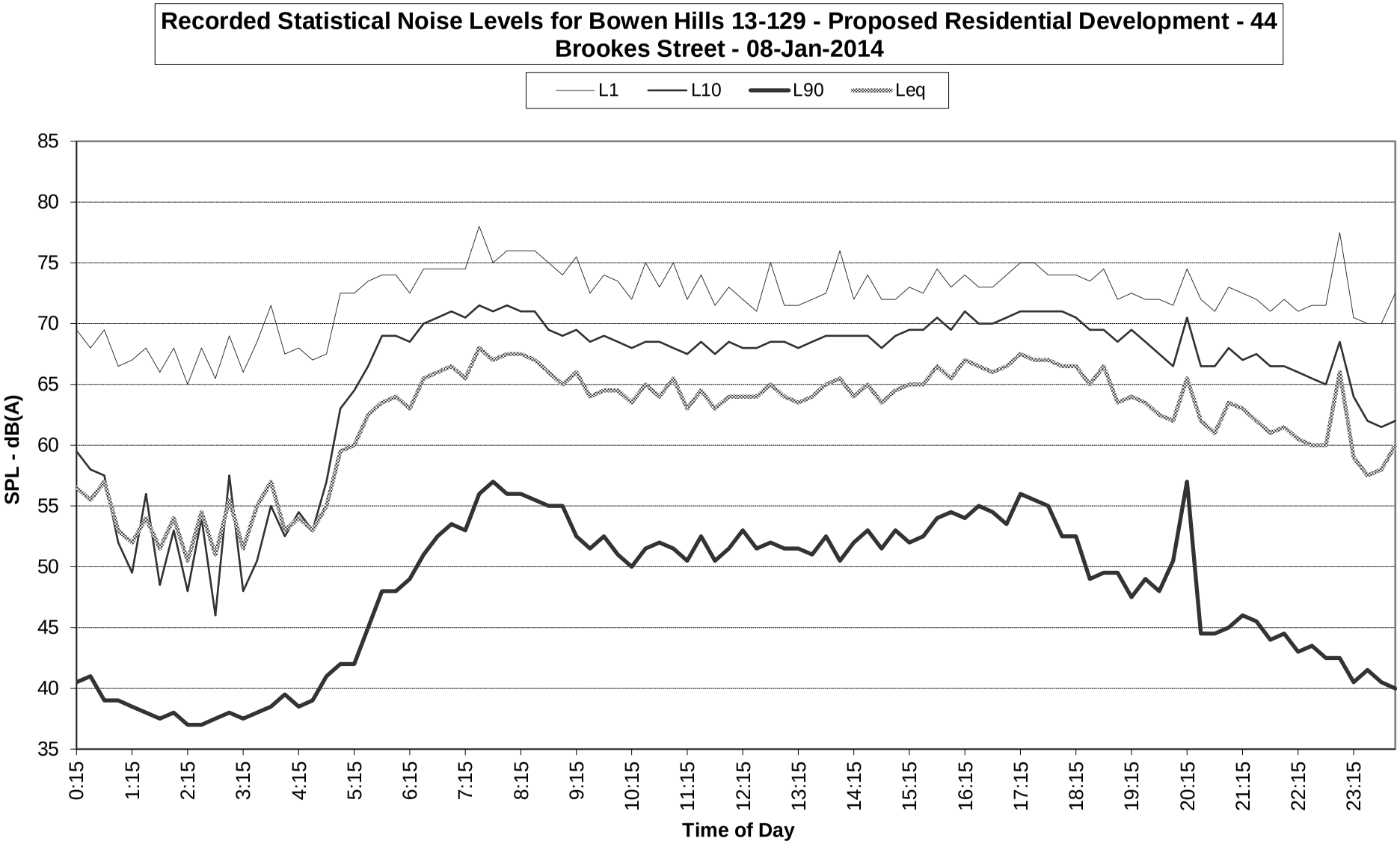
16:15
17:15
18:15
19:15
20:15
21:15
22:15
23:15
Time of Day


Recorded Statistical Noise Levels for Bowen Hills 13-129 - Proposed Residential Development - 44 Brookes Street - 08-Jan-2014
L1
L10
L90
Leq
SPL - dB(A)
85
80
75
70
65
60
55
50
45
40
35
0:15
1:15
2:15
3:15
4:15
5:15
6:15
7:15
8:15
9:15
10:15
11:15
12:15
13:15
14:15
15:15
16:15
17:15
18:15
19:15
20:15
21:15
22:15
23:15
Time of Day

Recorded Statistical Noise Levels for Bowen Hills 13-129 - Proposed Residential Development - 44 Brookes Street - 09-Jan-2014
L1
L10
L90
Leq
SPL - dB(A)
85
80
75
70
65
60
55
50
45
40
35
0:15
1:15
2:15
3:15
4:15
5:15
6:15
7:15
8:15
9:15
10:15
11:15
12:15
13:15
14:15
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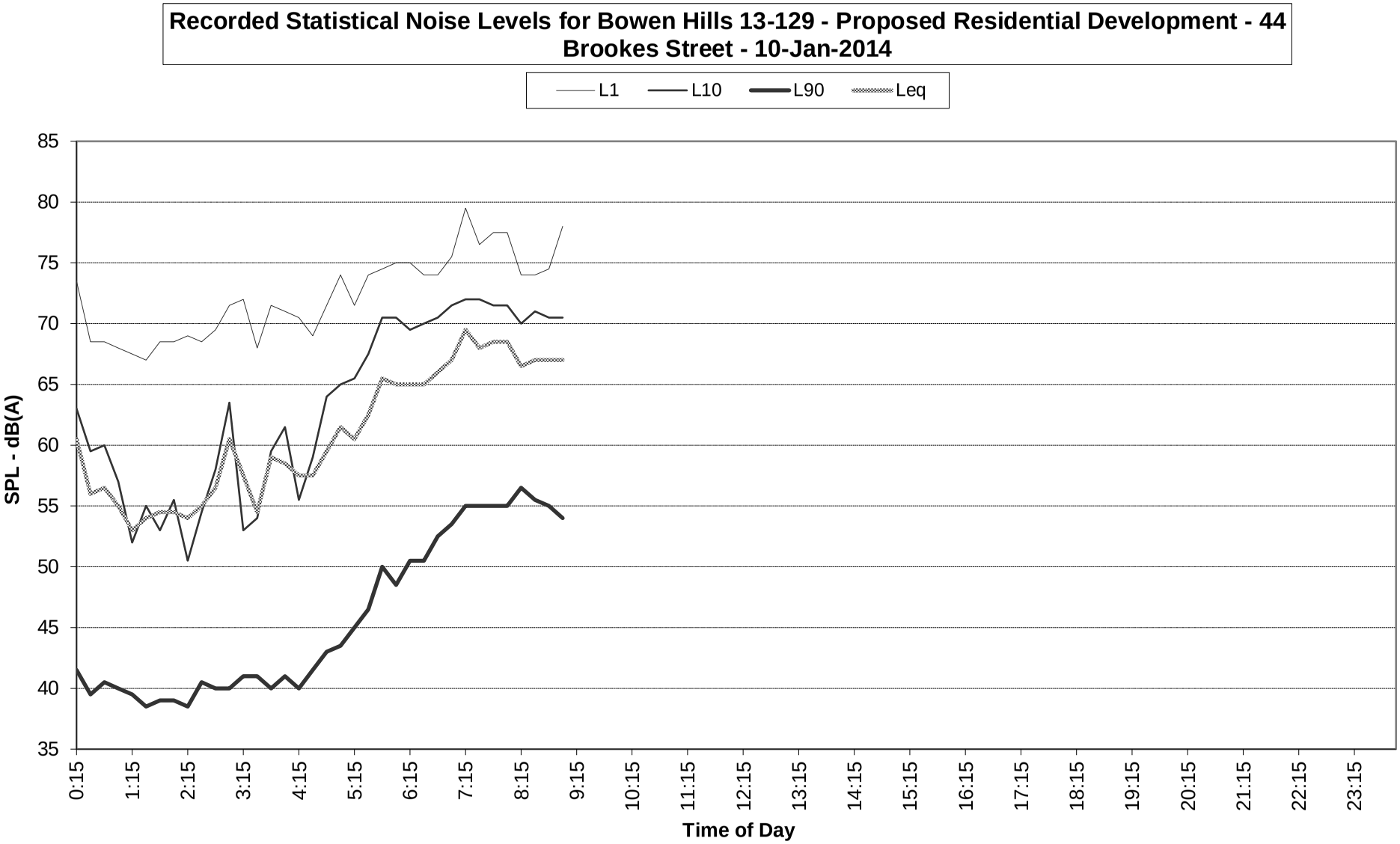
16:15
17:15
18:15
19:15
20:15
21:15
22:15
23:15
Time of Day


Recorded Statistical Noise Levels for Bowen Hills 13-129 - Proposed Residential Development - 44 Brookes Street - 10-Jan-2014
L1
L10
L90
Leq
SPL - dB(A)
85
80
75
70
65
60
55
50
45
40
35
0:15
1:15
2:15
3:15
4:15
5:15
6:15
7:15
8:15
9:15
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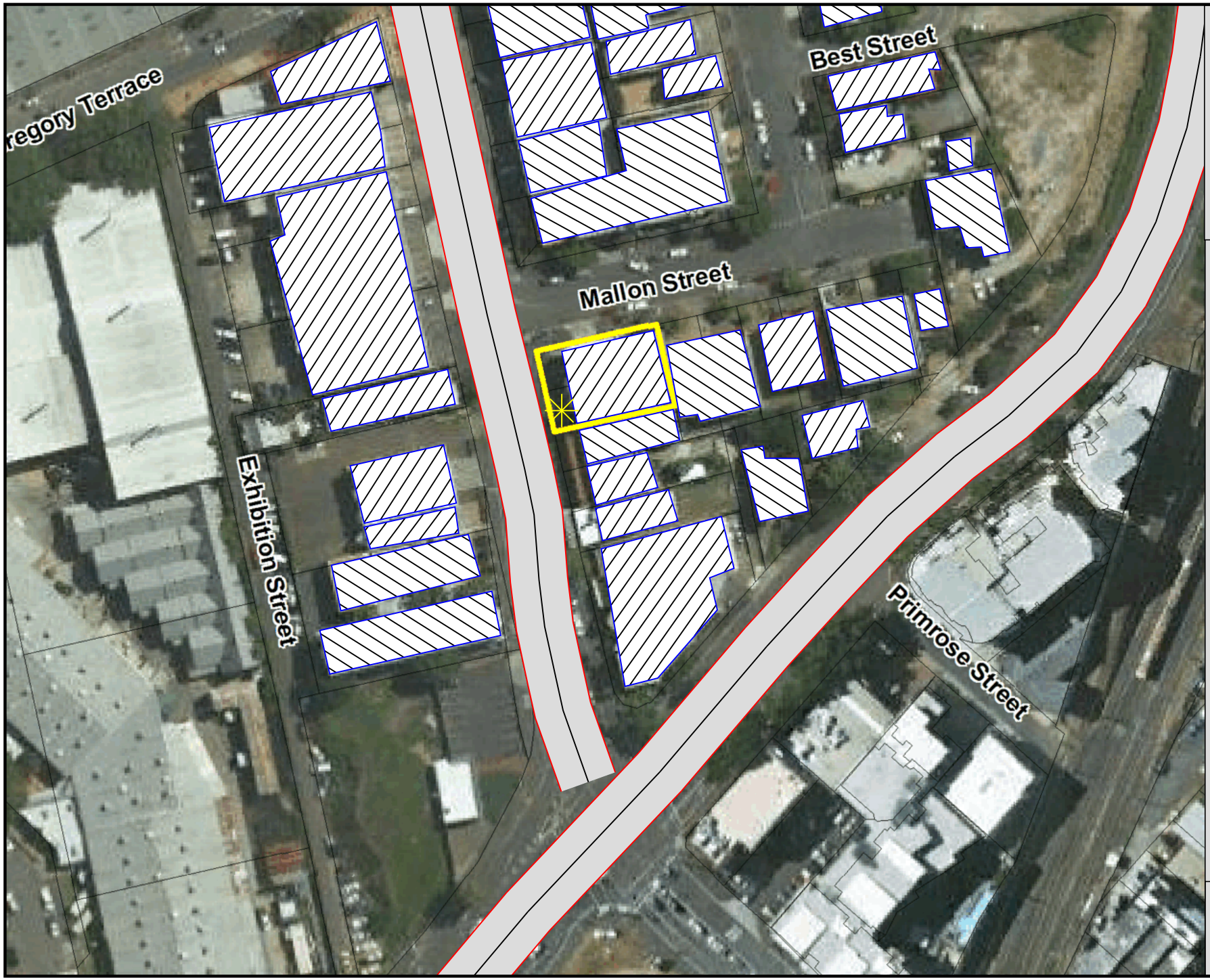
11:15
12:15
13:15
14:15
15:15
16:15
17:15
18:15
19:15
20:15
21:15
22:15
23:15
Time of Day

ATTACHMENT 3

Traffic Noise Modelling – Validation
SoundPLAN 7.3



Signs and symbols

- Road axis
- Emission line
- Surface
- Main building
- Point receiver

Bowen Hills 13-129
Proposed Residential
Development
44 Brookes Street

Existing Model Layout
Validation

February 2014

Scale 1:1250

0 5 10 20 30 40 m

Bowen Hills
Run Info
Validation Model

Project description

Project title:	Bowen Hills
Project No.:	13-129
Engineer:	Travis Carberry
Customer:	The 44 Brookes Street Bowen Hills Trust

Description:

Run description

Calculation:	Single Point Sound
Title:	Validation Model
Group:	
Run file:	RunFile.runx
Result number:	2
Local calculation (ThreadCount=8)	
Calculation start:	20/01/2014 12:06:54 PM
Calculation end:	20/01/2014 12:06:59 PM
Calculation time:	00:00:120 [m:s:ms]
No. of points:	1
No. of calculated points:	1
Kernel version:	14/01/2014 (64 bit)

Run parameters

Reflection order	1	
Maximal reflection distance to receiver		200 m
Maximal reflection distance to source		50 m
Search radius	5000 m	
Weighting:	dB(A)	
Tolerance:	0.010 dB	

Standards:

Roads:		Calculation of Road Traffic Noise (UK)
Driving on left side		
Emission according to:	CoRTN	
Disable low flow correction:	No	
Method for L10 to Leq conversion:	TRL formula	
Calculation with side screening:	No	
Attenuation		
Foliage:		No attenuation
Built up area:		No attenuation

Industrial site:	No attenuation
Assessment:	Day Night Level
Reflection of "own" facade is suppressed	

Geometry data

Validation Model.sit	20/01/2014 12:06:50 PM	
- contains:		
Brookes Street Existing.geo	20/01/2014 12:06:06 PM	
Spot Heights.geo	20/01/2014 9:54:34 AM	
Existing Site Building.geo	20/01/2014 11:54:42 AM	
St Pauls Terrace Existing.geo		20/01/2014 11:54:42 AM
Surrounding Buildings.geo	20/01/2014 11:54:42 AM	
Datalogger.geo	20/01/2014 12:06:50 PM	
RDGM0001.dgm	20/01/2014 10:00:14 AM	

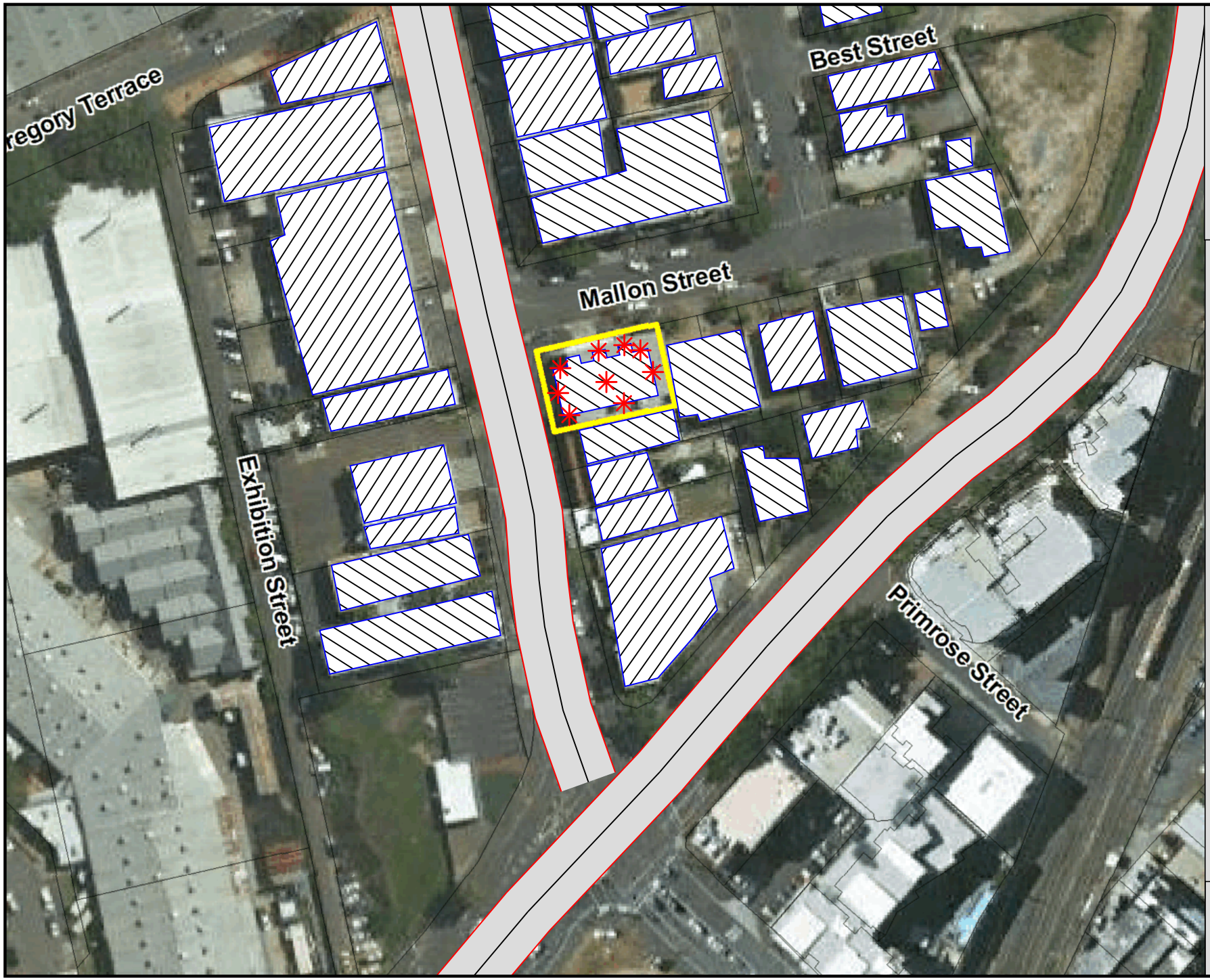
Bowen Hills
Assessed receiver levels
Validation Model

2

Name	L10(18h) dB(A)	
Datalogger	70.3	

ATTACHMENT 4

Traffic Noise Modelling – Ultimate Predictions
SoundPLAN 7.3



Signs and symbols

- Road axis
- Emission line
- Surface
- Main building
- Point receivers

Bowen Hills 13-129
Proposed Residential
Development
44 Brookes Street

Ultimate Traffic Noise
Predictions -
Model Layout

February 2014

Scale 1:1250

0 5 10 20 30 40 m

Bowen Hills
Run Info
Ultimate Traffic Noise Predictions

Project description

Project title:	Bowen Hills
Project No.:	13-129
Engineer:	Travis Carberry
Customer:	The 44 Brookes Street Bowen Hills Trust

Description:

Run description

Calculation:	Single Point Sound
Title:	Ultimate Traffic Noise Predictions
Group:	
Run file:	RunFile.runx
Result number:	3
Local calculation (ThreadCount=8)	
Calculation start:	22/01/2014 10:01:59 AM
Calculation end:	22/01/2014 10:02:06 AM
Calculation time:	00:02:456 [m:s:ms]
No. of points:	9
No. of calculated points:	9
Kernel version:	21/01/2014 (64 bit)

Run parameters

Reflection order	3	
Maximal reflection distance to receiver		200 m
Maximal reflection distance to source		50 m
Search radius	5000 m	
Weighting:	dB(A)	
Tolerance:	0.010 dB	

Standards:

Roads:	Calculation of Road Traffic Noise (UK)
Driving on left side	
Emission according to:	CoRTN
Disable low flow correction:	No
Method for L10 to Leq conversion:	TRL formula
Calculation with side screening:	No
Attenuation	
Foliage:	No attenuation
Built up area:	No attenuation

Industrial site:	No attenuation
Assessment:	Day Night Level
Reflection of "own" facade is suppressed	

Geometry data

Ultimate Traffic Noise Predictions.sit		22/01/2014 10:01:56 AM
- contains:		
Brookes Street Ultimate.geo		21/01/2014 10:24:00 AM
Development.geo	22/01/2014 9:51:14 AM	
Spot Heights.geo	20/01/2014 9:54:34 AM	
St Pauls Terrace Ultimate.geo		21/01/2014 3:22:14 PM
Surrounding Buildings.geo	20/01/2014 11:54:42 AM	
RDGM0001.dgm	20/01/2014 10:00:14 AM	

Bowen Hills
Assessed receiver levels
Ultimate Traffic Noise Predictions

2

Name	Floor	Dir	L10(18h) dB(A)
Development - Unit 1 East Facade	GF	E	52.0
	F 1		53.9
	F 2		55.7
	F 3		56.9
	F 4		58.1
	F 5		59.2
	F 6		60.1
	F 7		61.0
	F 8		61.8
	F 9		62.5
Development - Unit 1 North Facade	GF	N	57.7
	F 1		58.7
	F 2		59.2
	F 3		59.7
	F 4		60.7
	F 5		61.9
	F 6		62.6
	F 7		62.9
	F 8		63.0
	F 9		63.2
Development - Unit 1 South Facade	GF	S	64.2
	F 1		66.1
	F 2		67.1
	F 3		67.2
	F 4		67.2
	F 5		67.1
	F 6		67.0
	F 7		66.9
	F 8		66.9
	F 9		66.9
Development - Unit 2 North Facade	GF	N	65.1
	F 1		65.8
	F 2		65.7
	F 3		65.6
	F 4		65.9
	F 5		66.1
	F 6		66.0
	F 7		65.9
	F 8		65.7
	F 9		65.6
Development - Unit 3 North Facade	GF	N	67.6
	F 1		67.5

Bowen Hills
Assessed receiver levels
Ultimate Traffic Noise Predictions

2

Name	Floor	Dir	L10(18h) dB(A)	
	F 2		67.3	
	F 3		67.4	
	F 4		67.2	
	F 5		67.0	
	F 6		66.7	
	F 7		66.5	
	F 8		66.2	
	F 9		66.0	
Development - Unit 4 North Facade	GF	N	71.0	
	F 1		70.5	
	F 2		69.9	
	F 3		69.3	
	F 4		68.8	
	F 5		68.3	
	F 6		67.8	
	F 7		67.4	
	F 8		67.0	
	F 9		66.6	
Development - Unit 4 South Facade	GF	S	71.0	
	F 1		70.4	
	F 2		69.9	
	F 3		69.4	
	F 4		68.9	
	F 5		68.5	
	F 6		68.1	
	F 7		67.8	
	F 8		67.5	
	F 9		67.3	
Development - Unit 4 West Facade	GF	W	74.5	
	F 1		73.8	
	F 2		73.1	
	F 3		72.5	
	F 4		71.9	
	F 5		71.4	
	F 6		70.9	
	F 7		70.5	
	F 8		70.0	
	F 9		69.7	
Roof Outdoor Recreation Area	GF		56.7	

ATTACHMENT 5

Required Rw Values for the Development

MWA ENVIRONMENTAL - BUILDING COMPONENTRY RW VALUES

Job # 13-129
Job Bowen Hills
Date 6/02/2014

Level 2				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**20**
			Glazing	**20**
		South	Wall	**27**
			Glazing	**21**
	Bed 2	South	Wall	**25**
			Glazing	**21**
	Living/Dining	North	SGD	**20**
		East	Wall	**20**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**28**
			Glazing	**25**
		East	Wall	**23**
			SGD	**25**
		West	Wall	**27**
	Living/Dining	North	SGD	**21**
Unit 3	Bed 1	North	Wall	**30**
			Glazing	**27**
		East	Wall	**25**
			SGD	**28**
		West	Wall	**30**
	Living/Dining	North	SGD	**24**
Unit 4	Bed 1	North	Wall	**34**
			Glazing	**29**
		East	Wall	**29**
			SGD	**31**
		West	Wall	**33**
	Bed 2	South	Wall	**31**
			Glazing	**31**
		West	Wall	**36**
			Glazing	**29**
	Living/Dining	North	SGD	**30**
		West	Wall	**33**
			Glazing	**31**

Level 3				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**20**
			Glazing	**20**
		South	Wall	**29**
			Glazing	**23**
	Bed 2	South	Wall	**27**
			Glazing	**23**
	Living/Dining	North	SGD	**20**
		East	Wall	**20**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**29**
			Glazing	**25**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**30**
			Glazing	**27**
		East	Wall	**25**
			SGD	**28**
		West	Wall	**30**
	Living/Dining	North	SGD	**24**
Unit 4	Bed 1	North	Wall	**33**
			Glazing	**29**
		East	Wall	**28**
			SGD	**30**
		West	Wall	**32**
	Bed 2	South	Wall	**31**
			Glazing	**31**
		West	Wall	**35**
			Glazing	**29**
	Living/Dining	North	SGD	**29**
		West	Wall	**33**
			Glazing	**31**

Level 5				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**20**
			Glazing	**20**
		South	Wall	**30**
			Glazing	**24**
	Bed 2	South	Wall	**28**
			Glazing	**24**
	Living/Dining	North	SGD	**20**
		East	Wall	**20**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**28**
			Glazing	**25**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**30**
			Glazing	**27**
		East	Wall	**25**
			SGD	**27**
		West	Wall	**29**
	Living/Dining	North	SGD	**24**
Unit 4	Bed 1	North	Wall	**33**
			Glazing	**28**
		East	Wall	**28**
			SGD	**30**
		West	Wall	**32**
	Bed 2	South	Wall	**30**
			Glazing	**30**
		West	Wall	**35**
			Glazing	**28**
	Living/Dining	North	SGD	**29**
		West	Wall	**32**
			Glazing	**30**

Level 6				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**20**
			Glazing	**20**
		South	Wall	**30**
			Glazing	**24**
	Bed 2	South	Wall	**28**
			Glazing	**24**
	Living/Dining	North	SGD	**20**
		East	Wall	**20**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**28**
			Glazing	**25**
		East	Wall	**23**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**30**
			Glazing	**27**
		East	Wall	**25**
			SGD	**27**
		West	Wall	**30**
	Living/Dining	North	SGD	**24**
Unit 4	Bed 1	North	Wall	**32**
			Glazing	**28**
		East	Wall	**27**
			SGD	**29**
		West	Wall	**31**
	Bed 2	South	Wall	**30**
			Glazing	**30**
		West	Wall	**34**
			Glazing	**27**
	Living/Dining	North	SGD	**28**
		West	Wall	**31**
			Glazing	**29**

Level 7				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**20**
			Glazing	**20**
		South	Wall	**30**
			Glazing	**24**
	Bed 2	South	Wall	**28**
			Glazing	**24**
	Living/Dining	North	SGD	**20**
		East	Wall	**20**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**29**
			Glazing	**25**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**30**
			Glazing	**27**
		East	Wall	**25**
			SGD	**27**
		West	Wall	**29**
	Living/Dining	North	SGD	**23**
Unit 4	Bed 1	North	Wall	**32**
			Glazing	**27**
		East	Wall	**27**
			SGD	**29**
		West	Wall	**31**
	Bed 2	South	Wall	**29**
			Glazing	**29**
		West	Wall	**33**
			Glazing	**27**
	Living/Dining	North	SGD	**27**
		West	Wall	**31**
			Glazing	**29**

Level 8				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**20**
			Glazing	**20**
		South	Wall	**30**
			Glazing	**24**
	Bed 2	South	Wall	**28**
			Glazing	**24**
	Living/Dining	North	SGD	**20**
		East	Wall	**21**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**29**
			Glazing	**26**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**30**
			Glazing	**27**
		East	Wall	**25**
			SGD	**27**
		West	Wall	**29**
	Living/Dining	North	SGD	**23**
Unit 4	Bed 1	North	Wall	**31**
			Glazing	**27**
		East	Wall	**26**
			SGD	**28**
		West	Wall	**30**
	Bed 2	South	Wall	**29**
			Glazing	**29**
		West	Wall	**33**
			Glazing	**26**
	Living/Dining	North	SGD	**27**
		West	Wall	**30**
			Glazing	**28**

Level 9				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**20**
			Glazing	**20**
		South	Wall	**30**
			Glazing	**24**
	Bed 2	South	Wall	**28**
			Glazing	**24**
	Living/Dining	North	SGD	**21**
		East	Wall	**22**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**29**
			Glazing	**26**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**29**
			Glazing	**26**
		East	Wall	**25**
			SGD	**27**
		West	Wall	**29**
	Living/Dining	North	SGD	**23**
Unit 4	Bed 1	North	Wall	**31**
			Glazing	**26**
		East	Wall	**26**
			SGD	**28**
		West	Wall	**30**
	Bed 2	South	Wall	**28**
			Glazing	**28**
		West	Wall	**32**
			Glazing	**26**
	Living/Dining	North	SGD	**26**
		West	Wall	**30**
			Glazing	**28**

Level 10				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**21**
			Glazing	**20**
		South	Wall	**30**
			Glazing	**23**
	Bed 2	South	Wall	**28**
			Glazing	**24**
	Living/Dining	North	SGD	**21**
		East	Wall	**23**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**29**
			Glazing	**25**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**29**
			Glazing	**26**
		East	Wall	**24**
			SGD	**27**
		West	Wall	**29**
	Living/Dining	North	SGD	**23**
Unit 4	Bed 1	North	Wall	**30**
			Glazing	**26**
		East	Wall	**25**
			SGD	**27**
		West	Wall	**29**
	Bed 2	South	Wall	**28**
			Glazing	**28**
		West	Wall	**32**
			Glazing	**25**
	Living/Dining	North	SGD	**26**
		West	Wall	**29**
			Glazing	**27**

Level 11				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**21**
			Glazing	**20**
		South	Wall	**30**
			Glazing	**23**
	Bed 2	South	Wall	**28**
			Glazing	**24**
	Living/Dining	North	SGD	**21**
		East	Wall	**23**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**28**
			Glazing	**25**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**29**
			Glazing	**26**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 4	Bed 1	North	Wall	**30**
			Glazing	**25**
		East	Wall	**25**
			SGD	**27**
		West	Wall	**29**
	Bed 2	South	Wall	**28**
			Glazing	**28**
		West	Wall	**31**
			Glazing	**25**
	Living/Dining	North	SGD	**26**
		West	Wall	**29**
			Glazing	**27**

Level 12				
Unit	**Room**	**FAÇADE**	**COMPONENT**	**Rw**
Unit 1	Bed 1	East	Wall	**22**
			Glazing	**20**
		South	Wall	**30**
			Glazing	**23**
	Bed 2	South	Wall	**28**
			Glazing	**24**
	Living/Dining	North	SGD	**21**
		East	Wall	**24**
			Glazing	**20**
Unit 2	Bed 1	North	Wall	**28**
			Glazing	**25**
		East	Wall	**23**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 3	Bed 1	North	Wall	**29**
			Glazing	**26**
		East	Wall	**24**
			SGD	**26**
		West	Wall	**28**
	Living/Dining	North	SGD	**22**
Unit 4	Bed 1	North	Wall	**30**
			Glazing	**25**
		East	Wall	**24**
			SGD	**27**
		West	Wall	**29**
	Bed 2	South	Wall	**27**
			Glazing	**28**
		West	Wall	**31**
			Glazing	**24**
	Living/Dining	North	SGD	**25**
		West	Wall	**29**
			Glazing	**27**