

TOWN OF VICTORIA PARK Received: 1/03/2024

## **GOLDEN SEDAYU**

## LOT 305 – 306 BURSWOOD PENINSULA

# PRELIMINARY NOISE INGRESS ASSESSMENT

**AUGUST 2023** 

OUR REFERENCE: 31490-2-23268



#### **DOCUMENT CONTROL PAGE**

TOWN OF VICTORIA PARK Received: 1/03/2024

## NOISE INGRESS ASSESSMENT LOT 307 – 308

**BURSWOOD PENINSULA** 

Job No: 23268

Document Reference: 31490-2-23268

FOR

## **GOLDEN SEDAYU**

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	*								
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- A Plans
- B Glazing Requirements
- C Main Roads Traffic Flow Data

#### 1. INTRODUCTION

Herring Storer Acoustics were commissioned by Golden Sedayu to Garry put an acqustic study with regards to the ambient noise in the area surrounding the proposed development of 305 – 306 Burswood Peninsula.

The purpose of the study was to:

- Assess the noise that would be received within the development area from vehicles travelling on Graham Farmer Freeway for future traffic volumes.
- Assess the noise impact of the use of Belmont racecourse upon the proposed development.
- Assess the noise impact of crowd noise at the Belmont racecourse upon the proposed development.
- Compare the results with accepted criteria and if exceedances exist, develop the framework for the management of noise.

A plan is attached in Appendix A.

It is noted that whilst this study references *State Planning Policy 5.4* as the criteria for noise ingress associated with road noise, some parts of the assessment have not been conducted under strict accordance with the policy, although a conservative approach where possible has been utilised.

Noise levels associated with the use of the Belmont Racecourse – both the horse racing and training itself – have been considered in the context of providing a sufficient façade to control internal noise levels to a reasonable level.

The intent of this preliminary assessment is to inform of general acoustic requirements as well as garner development approval.

#### 2. **SUMMARY**

A preliminary assessment of traffic noise impacts and horse passby noise levels has been undertaken, with the required glazing attenuation levels listed in Appendix B.

It should be noted that the development is located outside the trigger distance requiring an SPP 5.4 assessment, hence, this work could conceivably be undertaken only to ensure a reasonable level of amenity is provided within the development – rather than a mandatory requirement.

It is noted that this assessment is preliminary in nature only and is anticipated to be refined during the designed development process.

The glazing requirements to ameliorate both traffic and horse passbys was found to not be onerous – and it is considered likely that other requirements (thermal BAL etc) will be more prescriptive of glass thickness and performance than noise issues.

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#### 3. ACOUSTIC CRITERIA

#### 3.1 NOISE

The Western Australian Planning Commission (WAPC) released on 6th September 2019 State Planning Policy 5.4 "Road and Rail Noise". The requirements of State Planning Policy 5.4 are outlined below.

It is noted that the proposed development is located outside the trigger distance for an assessment – hence – this preliminary assessment in accordance with SPP 5.4 can be considered for information purposes only, to ensure a reasonable level of amenity if provided within the finished development. Refer to Figure 1 below.

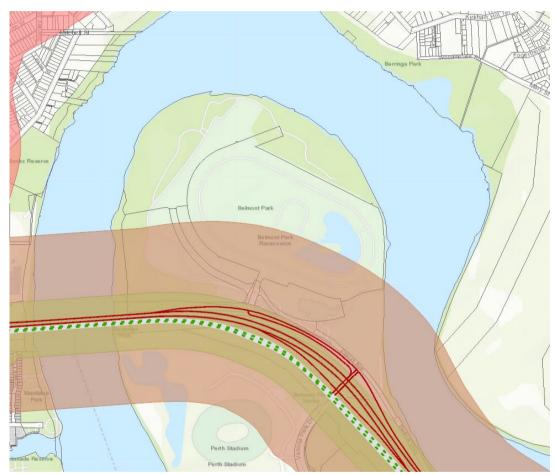


FIGURE 1 – DEVELOPMENT LOCATION OUTSIDE OF TRIGGER DISTANCE

#### POLICY APPLICATION (Section 4)

#### When and where it applies (Section 4.1)

SPP 5.4 applies to the preparation and assessment of planning instruments, including region and local planning schemes; planning strategies, structure plans; subdivision and development proposals in Western Australia, where there is proposed:

- a) noise-sensitive land-use within the policy's trigger distance of a transport corridor as specified in **Table 1**.
- b) New or major upgrades of roads as specified in Table 1 and maps (Schedule 1,2 and 3); or
- c) New railways or major upgrades of railways as specified in maps (Schedule 1, 2 and 3); or any other works that increase capacity for rail vehicle storage or movement and will result in an increased level of noise.

#### Policy trigger distances (Section 4.1.2)

**Table 1** identifies the State's transport corridors and the trigger distances to which the policy applies.

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The designation of land within the trigger distances outlined in **Table 1** should not be interpreted to imply that land is affected by noise and/or that areas outside the trigger distances are un-affected by noise.

Where any part of the lot is within the specified trigger distance, an assessment against the policy is required to determine the likely level of transport noise and management/mitigation required. An initial screening assessment (guidelines: Table 2: noise exposure forecast) will determine if the lot is affected and to what extent."

**TABLE 1: TRANSPORT CORRIDOR CLASSIFICATION AND TRIGGER DISTANCES** 

Transport corridor classification	Trigger distance	Distance measured from
Roads		
Strategic freight and major traffic routes Roads as defined by Perth and Peel Planning Frameworks and/or roads with either 500 or more Class 7 to 12 Austroads vehicles per day, and/or 50,000 per day traffic volume	300 metres	Road carriageway edge
Other significant freight/traffic routes  These are generally any State administered road and/or local government road identified as being a future State administered road (red road) and other roads that meet the criteria of either >=23,000 daily traffic count (averaged equivalent to 25,000 vehicles passenger car units under region schemes)	200 metres	Road carriageway edge
Passenger railways		
	100 metres	Centreline of the closest track
Freight railways		
	200 metres	Centreline of the closest track

Proponents are advised to consult with the decision making authority as site specific conditions (significant differences in ground levels, extreme noise levels) may influence the noise mitigation measures required, that may extend beyond the trigger distance.

#### **POLICY MEASURES (Section 6)**

The policy applies a performance-based approach to the management and mitigation of transport noise. The policy measures and resultant noise mitigation will be influenced by the function of the transport corridor and the type and intensity of the land-use proposed. Where there is risk of future land-use conflict in close proximity to strategic freight routes, a precautionary approach should be applied. Planning should also consider other broader planning policies. This is to ensure a balanced approach takes into consideration reasonable and practical considerations.

#### Noise Targets (Section 6.1)

**Table 2** sets out noise targets that are to be achieved by proposals under which the policy applies. Where exceeded, an assessment is required to determine the likely level of transport noise and management/mitigation required.

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In the application of the noise targets the objective is to achieve:

- indoor noise levels as specified in Table 2 in noise sensitive areas (for example, TOWN OF VICTORIA PARK last of school classrooms); and living rooms of houses, and school classrooms; and living rooms of houses, and school classrooms; and school classrooms; and school classrooms; and school classrooms.
- a reasonable degree of acoustic amenity for outdoor living areas on each residential lot. For non-residential noise-sensitive developments, for example schools and child care centres the design of outdoor areas should take into consideration the noise target.

It is recognised that in some instances, it may not be reasonable and/or practicable to meet the outdoor noise targets. Where transport noise is above the noise targets, measures are expected to be implemented that balance reasonable and practicable considerations with the need to achieve acceptable noise protection outcomes.

**Noise Targets** Outdoor Indoor **Proposals** New/Upgrade Day Night  $(L_{Aeq}(Day) dB)$  $(L_{Aea}(Night)dB)$ (LAea dB) (6 am-10 pm) (10 pm-6 am)Noise-New noise sensitive land use L<sub>Aea</sub> (Day) sensitive landand/or development within the 40(Living and trigger distance of an 55 50 work areas) and/or existing/proposed transport L<sub>Aea</sub> (Night) 35 development corridor (bedrooms) 55 50 Roads New N/A Upgrade 60 55 N/A Railways New 55 50 N/A Upgrade 60 55 N/A

**TABLE 2: NOISE TARGETS** 

#### Notes:

- The noise target is to be measured at one metre from the most exposed, habitable façade
  of the proposed building, which has the greatest exposure to the noise-source. A habitable
  room has the same meaning as defined in State Planning Policy 3.1 Residential Design
  Codes.
- For all noise-sensitive land-use and/or development, indoor noise targets for other room usages may be reasonably drawn from Table 1 of Australian Standard/New Zealand Standard AS/NZS 2107:2016 Acoustics Recommended design sound levels and reverberation times for building interiors (as amended) for each relevant time period.
- The 5dB difference in the criteria between new and upgrade infrastructure proposals acknowledges the challenges in achieving noise level reduction where existing infrastructure is surrounded by existing noise-sensitive development.
- Outdoor targets are to be met at all outdoor areas as far as is reasonable and practical to
  do so using the various noise mitigation measures outlined in the guidelines. For example,
  it is likely unreasonable for a transport infrastructure provider to achieve the outdoor
  targets at more than 1 or 2 floors of an adjacent development with direct line of sight to
  the traffic.

#### Noise Exposure Forecast (Section 6.2)

When it is determined that SPP 5.4 applies to a planning proposal as outlined in Section 4, proponents and/or decision makers are required assessment using **Table 2**: noise exposure forecast in the guidelines. This will provide an estimate of the potential noise impacts on noise-sensitive land-use and/or development within the trigger distance of a specified transport corridor. The outcomes of the initial assessment will determine whether:

- no further measures are required.
- noise-sensitive land-use and/or development is acceptable subject to deemed-tocomply mitigation measures; or
- noise-sensitive land-use and/or development is not recommended. Any noisesensitive land-use and/ or development is subject to mitigation measures outlined in a noise management plan."

#### 4. ACOUSTIC ENVIRONMENT

The noise measurements were conducted at approximately 2:30 PM, 23 August 2023 for a short term period to determine the  $L_{A10}$  noise level traffic for approximately 15 minutes. This time period has been identified as representative of highest traffic noise levels.

Utilising this measurement, reference to the DEFRA publication has been sought and the difference between the  $L_{A10,18hr}$  and the  $L_{Aeq,8hr}$  and the  $L_{Aeq,16hr}$  has been calculated. The location of the measurements is shown in Appendix A.

Noise measurements were conducted with a Larson Davis 831 Sound Level Meter. The Sound Level Meter was calibrated prior to and after use with a Bruel and Kjaer 4230 Calibrator. All equipment used is currently NATA laboratory calibrated. Calibration certificates are available on request.

**TABLE 4.1: SUMMARY OF MEASURED NOISE LEVELS** 

Measurement Location	Measured/Calculated Noise Level, dB(A)								
weasurement Location	L <sub>A10</sub>	L <sub>Aeq</sub> , day (6am to 10pm)	L <sub>Aeq, night</sub> (10pm to 6am)						
Graham Farmer Freeway and Perth – Armadale Train Line	76.0	74.0	64.6						

Noise levels were also recorded of horse passbys at Belmont racecourse at approximately 2pm, 23 August 2023. A passby maximum noise level of 55 dB(A) was recorded at a distance of approximately 100m.

#### 5. MODELLING

To determine the noise levels from traffic on Graham Farmer Free way and the Perth to Armadale train line, acoustic modelling was carried out using Sound Plan, using the country of Road Traffic Noise (CoRTN)<sup>1</sup> algorithms.

The input data for the model included:

- Topographical and cadastral data attained from Google Earth.
- Traffic data as per Table 5.1 (Obtained from MRWA Traffic Map, Attached in Appendix C).
- Adjustments as listed in Table 5.2.

**TABLE 5.1 - NOISE MODELLING INPUT DATA** 

Parameter	Graham Farmer Freeway (Current) 2022	Kwinana Freeway (Future) 2042
Traffic Volumes	109,056 vpd	162,051 vpd
Percentage traffic 0600 – 2400 hours (Assumed)	94%	94%
Heavy Vehicles (%) (Assumed)	7.8%	7.8%
Speed (km/hr)	80km/hr	80km/hr
Road Surface	Chip Seal	Dense Graded Asphalt

TABLE 5.2 - ADJUSTMENTS FOR NOISE MODELLING

Description	Value				
Façade Reflection Adjustment	+2.5 dB				
Conversion from L <sub>A10 (18 hour)</sub> to L <sub>Aeq (16 hour)</sub> (Day)	-2.0 dB				

To determine the noise impact associated with horses racing and training on the track, the passby noise level measured was utilised to establish a noise model within Sound Plan 9.0. The model was calibrated to the measured noise levels. The glazing requirements to reduce the noise levels within the proposed development to the same internal noise levels specified by SPP 5.4 – which is considered industry standard – was then undertaken. This assessment is included in the tabulation in Appendix B.

It is noted that the amelioration required for horse passbys was slightly more onerous than traffic noise.

#### 6. TRAFFIC NOISE ASSESSMENT

Using the data contained in Tables 4.1, 5.1 and 5.2, modelling was carried out under existing conditions for calibration. The Sound Plan model for the site has been set up for the 2042 scenario as defined in Table 5.1. The following assumptions have been made:

- 18 hour traffic count will be 94% of daily figures.
- Noise model calibrated to measured noise level as per Table 3.1
- The same diurnal relationship will exist in the future between the L<sub>A10 (18 hour)</sub> and the L<sub>Aeq</sub> parameters; and
- 2.5 dB(A) has been added to the results for façade reflection.

<sup>1</sup> Calculation of Road Traffic Noise UK Department of Transport 1987

The noise requirements based on the above have been listed in Appendix B.

It is noted that these requirements pertain to acoustic requirements only with regard to State Planning Policy 5.4, and may be superseded by other requirements (Beleither 1703/21024

These are preliminary calculations for window requirements, based upon approximate window to room size ratios. It is anticipated that the window glazing requirements would require refinement during the design development phase of the project.

#### 7. CONCLUSION

In accordance with the WAPC Planning Policy 5.4, an assessment of the noise that would be received within the development of Lot 305 – 306 Burswood Peninsula, Burswood Peninsula from vehicles travelling on Graham Farmer Freeway has been undertaken.

In accordance with the Policy, the following would be the acoustic criteria applicable to this project:

**External** 

 $\begin{array}{cc} \text{Day} & \quad \text{55 dB(A) $L_{Aeq}$} \\ \text{Night} & \quad \text{50 dB(A) $L_{Aeq}$} \\ \end{array}$ 

Internal

Sleeping Areas 35 dB(A) L<sub>Aeq(night)</sub> Living Areas 40 dB(A) L<sub>Aeq(day)</sub>

is noted that walls of the development would be required to be constructed of either masonry or tilt up concrete panel. If a lightweight construction or similar is desirable, investigation into constructions that would meet the requirement of State Planning Policy 5.4 would have to be undertaken.

The results of the acoustic assessment indicate that noise received at the development from future traffic, exceed external noise level criteria. Therefore, noise amelioration in the form of quiet house design listed in Appendix B, as well as notifications on the title is required.

Herring Storer Acoustic recommends the development be conditioned as such to require a full assessment of the development in accordance with *State Planning Policy 5.4* once detailed designed is finalised to provide a more accurate assessment – this would include finalised window sizes, façade constructions and the like to be accounted for.

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## **APPENDIX A**

**PLANS** 



# LOT 305 & LOT 306 BURSWOOD POINT TOWN OF VICTORIA PARK Received: 1/03/2024 DRAWING REGISTER



DRAWING NUMBER	DRAWING NAME	REV
DA0.01	DEVELOPMENT SUMMARY	K
DA0.02	SITE CONTEXT PLAN	A
DA1.00	PLANS - BASEMENT	K
DA1.01	PLANS - GROUND FLOOR	K
DA1.02	PLANS - LEVEL 01	K
DA1.03	PLANS - MEZZANINE	K
DA1.04	PLANS - LEVEL 02	K
DA1.05	PLANS - LEVEL 03	K
DA1.06	PLANS - LEVEL 04 - 11	K
DA1.07	PLANS - LEVEL 12	K
DA1.08	PLANS - LEVEL 13	K
DA1.09	PLANS - LEVEL 14	K
DA1.10	PLANS - LEVEL 15	K
DA1.11	PLANS - LEVEL 16	K
DA1.12	PLANS - LEVEL 17	K
DA1.13	PLANS - LEVEL 18	K
DA1.14	PLANS - LEVEL 19	K
DA1.15	PLANS - LEVEL 20	K
DA1.16	PLANS - ROOF LOWER	K
DA1.17	PLANS - ROOF UPPER	K
DA2.01	SECTIONS - NORTH - SOUTH	L
DA2.02	SECTIONS - EAST - WEST	L
DA3.01	ELEVATIONS - LOT 305 & 306 WEST	L
DA3.02	ELEVATIONS - LOT 306 NORTH & SOUTH	L
DA3.03	ELEVATIONS - LOT 305 & 306 EAST	L
DA3.04	ELEVATIONS - LOT 305 NORTH & SOUTH	L



KEV.	DATE	AIVIENDIVIENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE
L	22.02.2024	TOWN PLANNING ISSUE

ELEMENT TOWN PLANNING: CAPA FULL CIRCLE DESIGN SUSTAINABILITY: RWDI TALIS WIND: WASTE: ACOUSTIC: TRAFFIC: HERRING STORER LEVEL 5 DESIGN HERA STRUCTURAL:

CLIENT **GOLDEN SEDAYU** PROJECT

**BURSWOOD POINT** 

PROJECT ADDRESS TOWER LOTS 305 + 306**BURSWOOD POINT** PROJECT STATUS TOWN PLANNING

PROJECT NUMBER 23025 SCALE

DRAWING DRAWING REGISTER DRAWING NO. DRAFTER CHECKED REV.

DA0.00

PODIUM - Lots 305 & 306 Burswood Point Total Resi
Private
Balcony M²
Resi
Amenity
Indoor M²
Resi
Amenity
Indoor M²
RATIO

Resi
Amenity
Indoor M²
Indoor M² B9 B10 2x2 2x2 <u>A2</u> 1x1 A4 B1 2x2 <u>B2</u> 2x2 <u>B3</u> 2x2 <u>B4</u> 2x2 B11 2x2 <u>C1</u> 3x2 <u>C2</u> 3x3 <u>B8</u> 2x2 RESI STORES 1x1 113 110 92 99 114 115 3SQM 4SQM 5SQM 
 0
 0
 0
 0
 0
 3979
 3979
 0
 0%
 129
 3%
 3
 22
 17

 8
 163
 0
 360
 1681
 1974
 3655
 497
 14%
 450
 12%
 11
 11
 10

 0
 0
 0
 0
 2383
 2383
 0
 0%
 172
 7%
 3
 8
 16

 10
 188
 0
 0
 1462
 2188
 3650
 677
 19%
 400
 11%
 11
 17
 2
 GRD MEZZ L01 175 1607 2190 **3797** 645 **17%** 343 **9%** 3 23 12 6 265 1045 684 3640 0 <mark>3640</mark> 717 **20%** 196 **5%** 1219 8390 12714 <mark>21104</mark> 773 1080 2536 11% 1690 8% Total 2 Strata 174 580 114 546 182 0 113 110 92 99 114 115 0 142 155 2536 9.7% 32.3% 6.5% 19.4% 0.3% 0.0% 3.2% 3.2% 3.2% 3.2% 3.2% 3.2% 0.0% 3.2% 3.2% 48.4% 39.0% 6.5%

			PARKING	PROVIDED		
	RESI PROP	VIS PROP	CAR BAY TOTAL	RESI MC	RESI BIKE	RESI VIS BIKE
B1	126		126	12		
GRD	26	21	47	5	100	2
MEZZ	65		65	6		
L01	66		66	10		
L02	68		68	3	1,50	
		3			gs	
Total	351	21	372	36	100	2
				36 req		

	RESI STORE SUMMAR								
	REQ	PROP							
3	31	31							
4	111	113							
5	58	58							
TOTAL	200	202							

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B.					WEST TOW	ER - Lot 305 E	Burswood Poi	int																
	<u>A3</u> 1x1	<u>B5</u> 2x2	<u>B6</u> 2x2	<u>B7</u> 2x2	<u>B12</u> 2x2	<u>B13</u> 2x2	<u>B14</u> 2x2	<u>C3</u> 3x3	<u>C5</u> 3x3	<u>C9</u> 3x3	<u>C10</u> 3x3	Total Resi	Private Balcony M <sup>2</sup>	Resi Amenity External M <sup>2</sup>	Resi Amenity Indoor M <sup>2</sup>	GFA Total M <sup>2</sup>	NLA M <sup>2</sup>	NLA/ GFA % RATIO	CIRC/ SERV M <sup>2</sup>	CIRC+ SERV/ GFA % RATIO	I	RESI STORES		
	59	101	104	115	113	124	119	159	163	178	186										3SQM	4SQM	5SQM	
L04	2	1	1	1	1	1						7	199			1081	675	62%	94	9%		3		
L05	2	1	1	1	1	1						7	199			1088	675	62%	96	9%		3		
L06	2	1	1	1	1	1						7	199			1081	675	62%	94	9%		3		
L07	2	1	1	1	1	1						7	199			1088	675	62%	96	9%		3		
L08	2	1	1	1	1	1						7	199			1081	675	62%	94	9%		3		
L09	2	1	1	1	1	11				20		7	199			1088	675	62%	96	9%		3		
L10	2	1	1	1	1	1						7	199			1081	675	62%	94	9%		3		
L11	2	1	1	1	1	1						7	199			1088	675	62%	96	9%		3		
L12		1		1			1		1		1	5	182			1067	684	64%	94	9%		2	1	
L13		1		1			1		1		1	5	193			1078	684	63%	94	9%		2		
L14		1		1			1		1		1	5	193			1078	684	63%	94	9%		2	1	
L15		1		1			1		1			5	193			1078	684	63%	94	9%		2	1	
L16								1	1	1	1	4	200	100		1078	686	64%	102	9%			1	
TCE														190		250			59	24%				
	/																							
														3										
				·																				
Total	16	12	8	12	8	8	4	1	5	1	5	80	2553	190	0	14305	8822	63%	1297	10%	0	32	5	
Strata	944	1212	832	1380	904	992	476	159	815	178	930	8822												
Mix	20.0%	15.0%	10.0%	15.0%	10.0%	10.0%	5.0%	1.3%	6.3%	1.3%	6.3%		_											
IVIIA	20.0%			65	.0%				1	5.0%														

C.				I	EAST TOWER	- Lot 306 Bu	rswood Point																
	<u>B3</u> 2x2	<u>B4</u> 2x2	<u>B8</u> 2x2	B11 2x2	<u>C1</u> 3x3	<u>C2</u> 3x3	<u>C4</u> 3x3	<u>C6</u> 3x3	<u>C7</u> 3x3	<u>C8</u> 3x3	<u>P1</u> 4x4	Total Resi	Private Balcony M <sup>2</sup>	Resi Amenity External M <sup>2</sup>	Resi Amenity Indoor M <sup>2</sup>	GFA Total M <sup>2</sup>	NLA M <sup>2</sup>	NLA/ GFA % RATIO	CIRC/ SERV M <sup>2</sup>	CIRC+ SERV/ GFA % RATIO	RESI STORES		
	92	99	114	115	142	155	171	184	179	181	330										3SQM	4SQM	5SQM
L04	1	1	1	1	1	1						6	178	7		1095	717	65%	107	10%			
L05	1	1	1	1	1	1						6	178			1095	717	65%	107	10%			
L06	1	1	1	1	1	1						6	178	,		1103	717	65%	107	10%			
L07	1	1	1	1	1	1						6	178			1095	717	65%	107	10%			
L08	1	1	1	1	1	1						6	178			1095	717	65%	107	10%			
L09	1	1	1	1	1	1						6	178			1095	717	65%	107	10%			
L10	1	1	1	1	1	1		(C)				6	178			1103	717	65%	107	10%			
L11	1	1	1	1	1	1						6	178	,		1095	717	65%	107	10%			
L12	1	1	1	1	1	1						6	178	)		1095	717	65%	107	10%			
L13	1	1	1	1	1	1						6	178			1095	717	65%	107	10%			
L14	1		1		1			1		1		5	182			1095	713	65%	107	10%			
L15	1		1		1			1		1		5	181			1088	713	66%	107	10%			
L16							1	1	1	1		4	177			1081	715	66%	100	9%			1
L17							1	1	1	1		4	184			1086	715	66%	100	9%			1
L18							1	1	1	1		4	184	,		1086	715	66%	100	9%			1
L19							1	1	1	1		4	184			1086	715	66%	100	9%			1
L20							1		1		1	3	194			1064	680	64%	100	9%			2
Total	12	10	12	10	12	10	5	6	5	6	1	89	3066	0	0	18552	12136	65%	1784	10%	0	0	6
Strata	1104	990	1368	1150	1704	1550	855	1104	895	1086	330	12136											
Mix	13.5%	11.2%	13.5%	11.2%	13.5%	11.2%	5.6%	6.7%	5.6%	6.7%	1.1%		_										
IVIIA	49% 36% 1%																						

		OVERALL SUMMARY					
	1x1	2x2	3x2				
Total Apts	31	111	58	200			
Total Mix	16%	56%	29%	100%			
Doci Dave	1 Bay	1.84	2 Bays/Apt	Total			
Resi Bays	31	204	116	351			
Vis Bays	Req	26.5	Note: Recip Street Parking proposed				
vis bays	Prop	21 (6 bay shortfall)	Note: Recip Street Parking pro	pposeu			

Total GFA (M²) (Ex Parking)	41247
Total GFA (M²) (Inc Parking)	53961
Total NLA (M²)	23494



J 27.11.2023 PRELIM DA DD REVIEW K 20.02.2024 TOWN PLANNING ISSUE	REV.	DATE	AMENDMENT
K 20.02.2024 TOWN PLANNING ISSUE	J	27.11.2023	PRELIM DA DD REVIEW
	K	20.02.2024	TOWN PLANNING ISSUE
			1011111 Er illitilitä 1000E

TOWN PLANNING:	ELEMENT
LANDSCAPE:	CAPA
SUSTAINABILITY:	FULL CIRCLE DESIGN
WIND:	RWDI
WASTE:	TALIS
ACOUSTIC:	HERRING STORER
TRAFFIC:	LEVEL 5 DESIGN
STRUCTURAL:	HERA

CLIENT		
GOLDEN SI	EDAYU	
PROJECT		

PROJECT ADDRESS
TOWER LOTS 305 + 306
BURSWOOD POINT
PROJECT STATUS

PROJECT NUMBER	NORTH	
23025		
SCALE		

DEVELOPMENT
SUMMARY
DRAWING NO. DRAFTER CHECKED REV.

BURSWOOD POINT TOWN PLANNING DA0.01 CD





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REV. DATE AMENDMENT

A 22.02.2024 PRELIM DA REVIEW

TOWN PLANNING: ELEMENT
LANDSCAPE: CAPA
SUSTAINABILITY: FULL CIRCLE DESIGN
WIND: RWDI
WASTE: TALIS
ACOUSTIC: HERRING STORER
TRAFFIC: LEVEL 5 DESIGN
STRUCTURAL: HERA

GOLDEN SEDAYU
PROJECT

**BURSWOOD POINT** 

BURSWOOD POINT
PROJECT STATUS

TOWN PLANNING

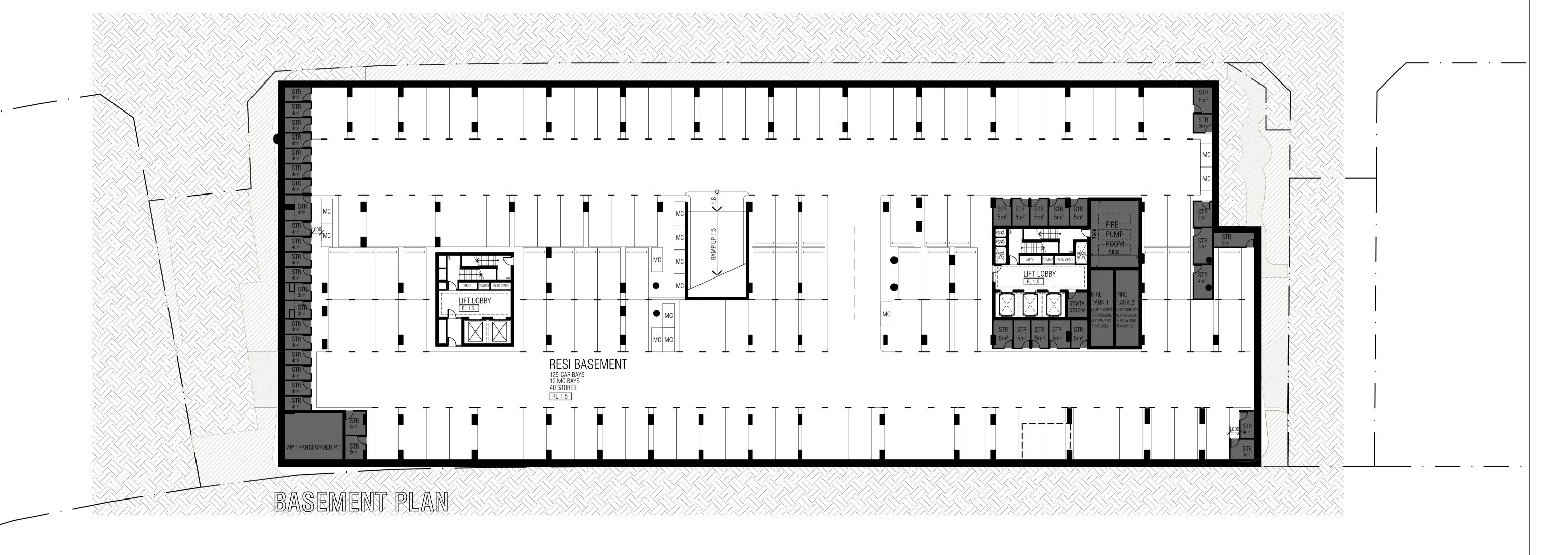
TOWER LOTS 305 + 306

23025
SCALE
0 2 4 1

DRAWING
SITE CONTEXT
PLAN
DRAWING NO. DRAFTER CHECKED REV.

DA0.02







	J 21	7.11.2023	PRELIM DA DD REVIEW
K 20.02.2024 TOWN PLANNING ISSI	 Κ 20	 1	TOWN PLANNING ISSUE

AMENDMENT

REV. DATE

TOWN PLANNING: ELE
LANDSCAPE: CAI
SUSTAINABILITY: FUL
WIND: RW
WASTE: TAL
ACOUSTIC: HEE
TRAFFIC: LEV
STRUCTURAL: HEE

ELEMENT
CAPA
FULL CIRCLE DESIGN
RWDI
TALIS
HERRING STORER
LEVEL 5 DESIGN
HERA

GOLDEN SEDAYU
PROJECT

**BURSWOOD POINT** 

PROJECT ADDRESS

TOWER LOTS 305 + 306

BURSWOOD POINT

PROJECT STATUS

TOWN PLANNING

PROJECT NUMBER NORTH

23025

SCALE

0 2 4 10

1:200 @ A1

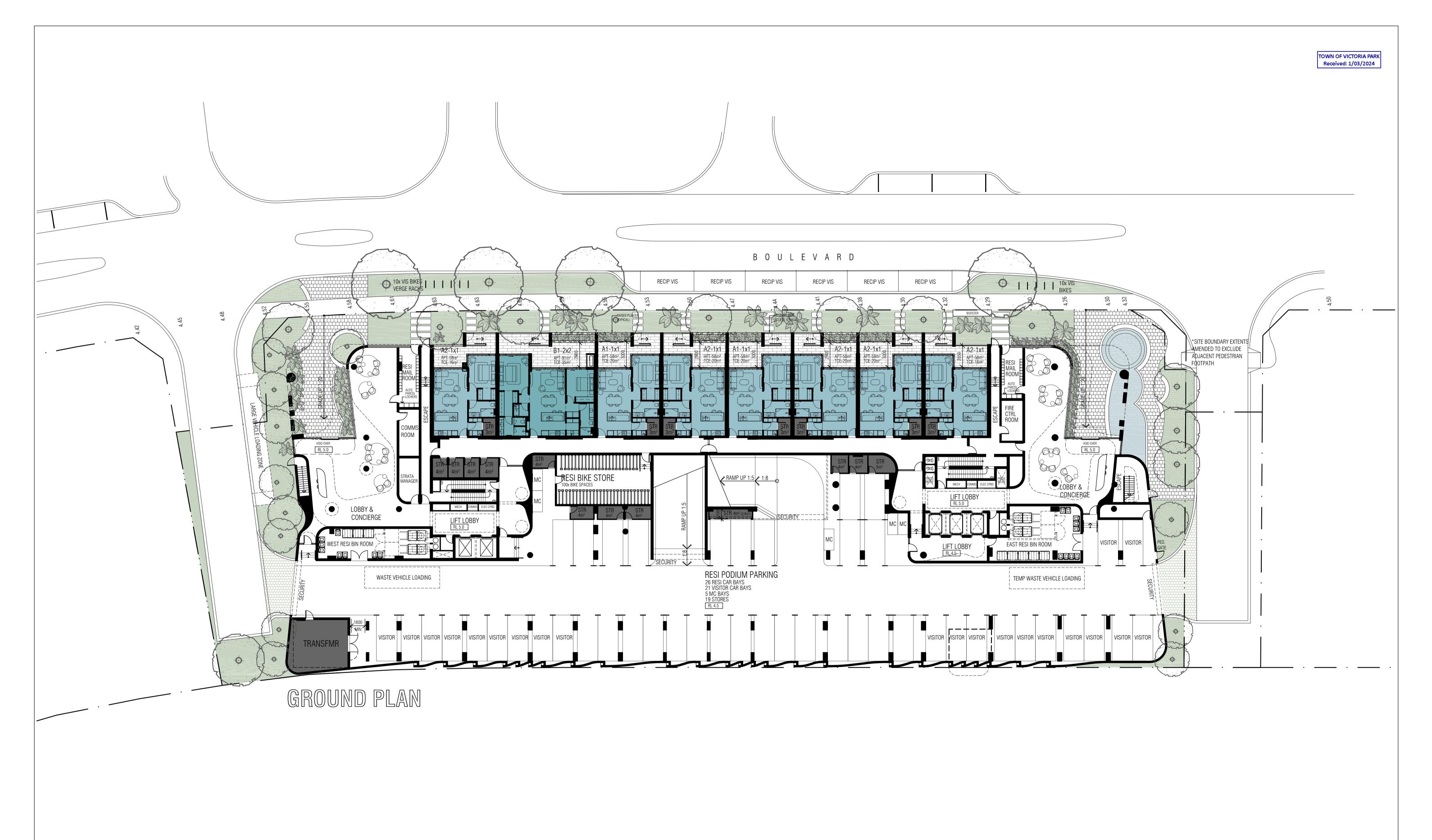
DRAWING

BASEMENT

PLAN

DRAWING NO. DRAFTER CHECKED REV.

DA1.00





J	27.11.2023	AMENDMENT  PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

TOWN PLANNING: ELEMENT CAPA FULL CIRCLE DESIGN SUSTAINABILITY: WIND: RWDI WASTE: TALIS ACOUSTIC: HERRING STORER TRAFFIC: LEVEL 5 DESIGN STRUCTURAL: HERA

CLIENT **GOLDEN SEDAYU** PROJECT

**BURSWOOD POINT** 

PROJECT ADDRESS TOWER LOTS 305 + 306**BURSWOOD POINT** PROJECT STATUS SCALE TOWN PLANNING

PROJECT NUMBER NORTH 23025 0 2 4 1:200 @ A1

DRAWING FLOOR PLANS AS SHOWN DRAWING NO. DRAFTER CHECKED REV. DA1.01

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REV. DATE AMENDMENT

J 27.11.2023 PRELIM DA DD REVIEW

K 20.02.2024 TOWN PLANNING ISSUE

TOWN PLANNING: E
LANDSCAPE: C
SUSTAINABILITY: F
WIND: F
WASTE: T
ACOUSTIC: H
TRAFFIC: L
STRUCTURAL: F

: ELEMENT
CAPA
FULL CIRCLE DESIGN
RWDI
TALIS
HERRING STORER
LEVEL 5 DESIGN
HERA

GOLDEN SEDAYU
PROJECT

**BURSWOOD POINT** 

PROJECT ADDRESS

TOWER LOTS 305 + 306

BURSWOOD POINT

PROJECT STATUS

23025

SCALE

TOWN PLANNING

1:200 @ A1

DRAWING

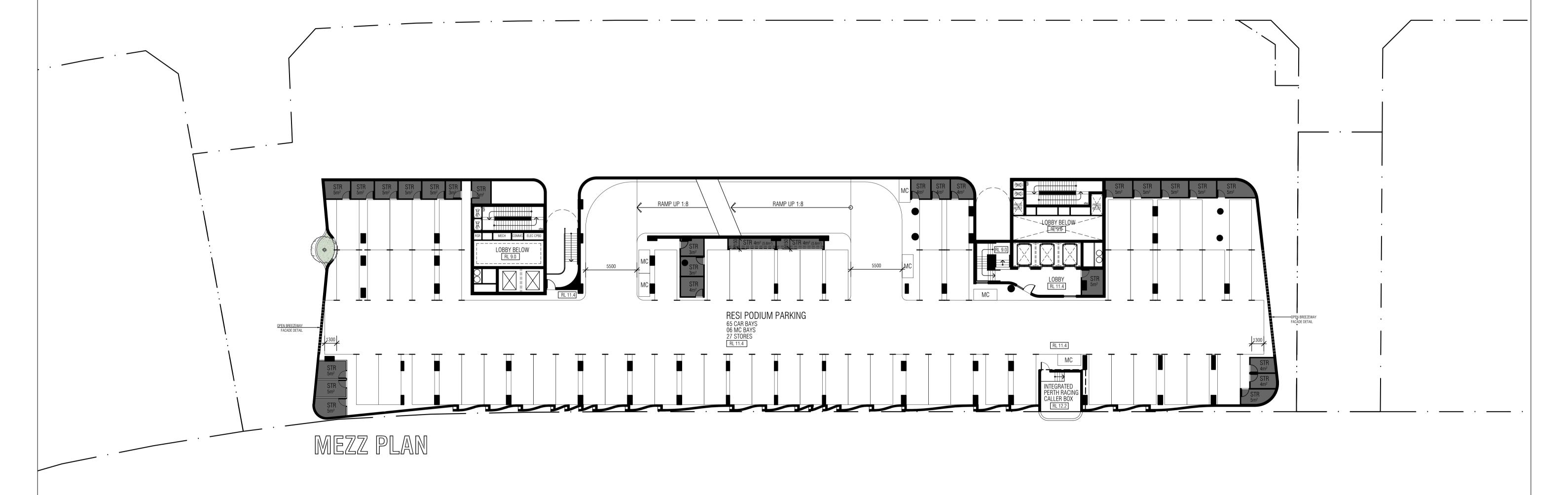
FLOOR PLANS
AS SHOWN

DRAWING NO. DRAFTER CHECKED REV.

DA1.02 CD

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	DATE	AMENDMENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

TOWN PLANNING: ELEM LANDSCAPE: CAPA SUSTAINABILITY: FULL WIND: RWD WASTE: TALIS ACOUSTIC: HERF TRAFFIC: LEVE STRUCTURAL: HERA

ELEMENT
CAPA
FULL CIRCLE DESIGN
RWDI
TALIS
HERRING STORER
LEVEL 5 DESIGN
HERA

GOLDEN SEDAYU
PROJECT
BURSWOOD POINT

TOWER LOTS 305 + 306
BURSWOOD POINT
PROJECT STATUS

TOWN PLANNING

PROJECT NUMBER NORTH

23025

SCALE

0 2 4 10

1:200 @ A1

DRAWING
FLOOR PLANS
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

DA1.03





J 27.11.2023 PRELIM DA DD REVIEW

K 20.02.2024 TOWN PLANNING ISSUE

AMENDMENT

REV. DATE

TOWN PLANNING: ELEM LANDSCAPE: CAP SUSTAINABILITY: FULL WIND: RWE WASTE: TALI ACOUSTIC: HER TRAFFIC: LEVE STRUCTURAL: HER

ELEMENT
CAPA
FULL CIRCLE DESIGN
RWDI
TALIS
HERRING STORER
LEVEL 5 DESIGN
HERA

GOLDEN SEDAYU
PROJECT

**BURSWOOD POINT** 

PROJECT ADDRESS

TOWER LOTS 305 + 306

BURSWOOD POINT

PROJECT STATUS

TOWN PLANNING

PROJECT NUMBER NORTH

23025

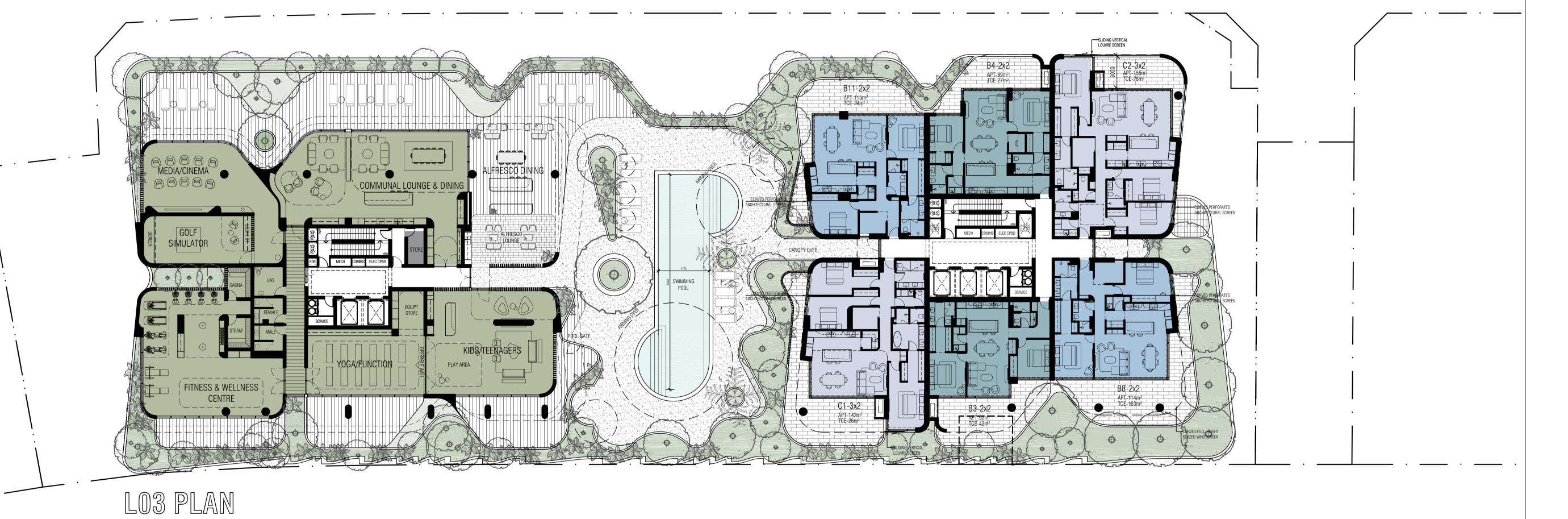
SCALE

0 2 4 1

1:200 @ A1

DRAWING
FLOOR PLANS
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

DA1.04 CD





	DATE	AMENDMENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

TOWN PLANNING: E
LANDSCAPE: C
SUSTAINABILITY: F
WIND: R
WASTE: T
ACOUSTIC: H
TRAFFIC: L
STRUCTURAL: H

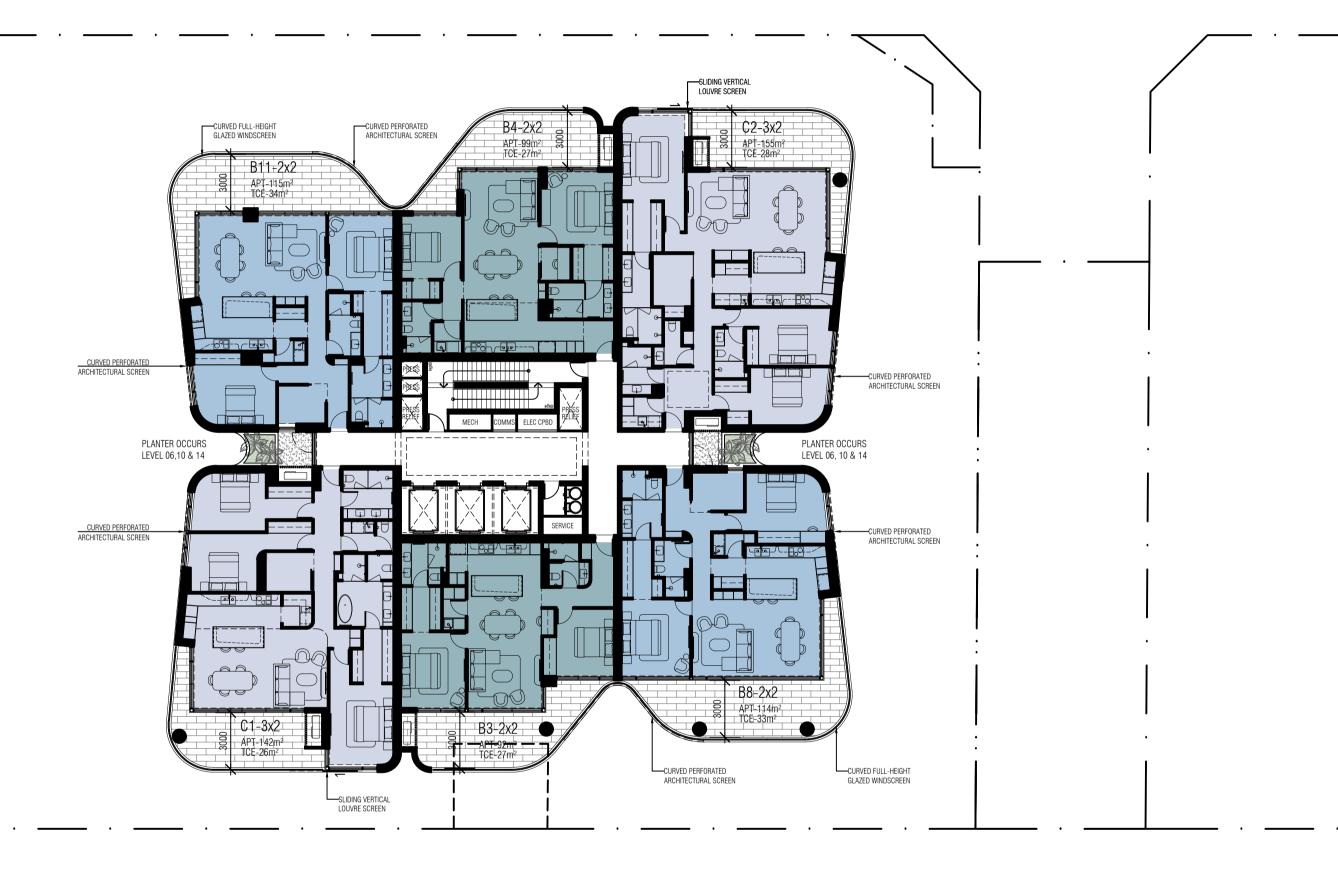
ELEMENT
CAPA
FULL CIRCLE DESIGN
RWDI
TALIS
HERRING STORER
LEVEL 5 DESIGN
HERA

CLIENT	
GOLDEN SEDAYU	
PROJECT	
BURSWOOD POINT	

PROJECT ADDRESS	PROJECT NUMBER NORTH
TOWER LOTS $305 + 306$	
BURSWOOD POINT	23025
PROJECT STATUS	SCALE 0 2 4
TOWN PLANNING	1:200 @ A1

DRAWING			
FLOOR PL	ANS		
AS SHOW	N		
DRAWING NO.	DRAFTER	CHECKED	REV.
DA1.05	CD		K





LO4-11 PLAN



	DATE	AMENDMENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

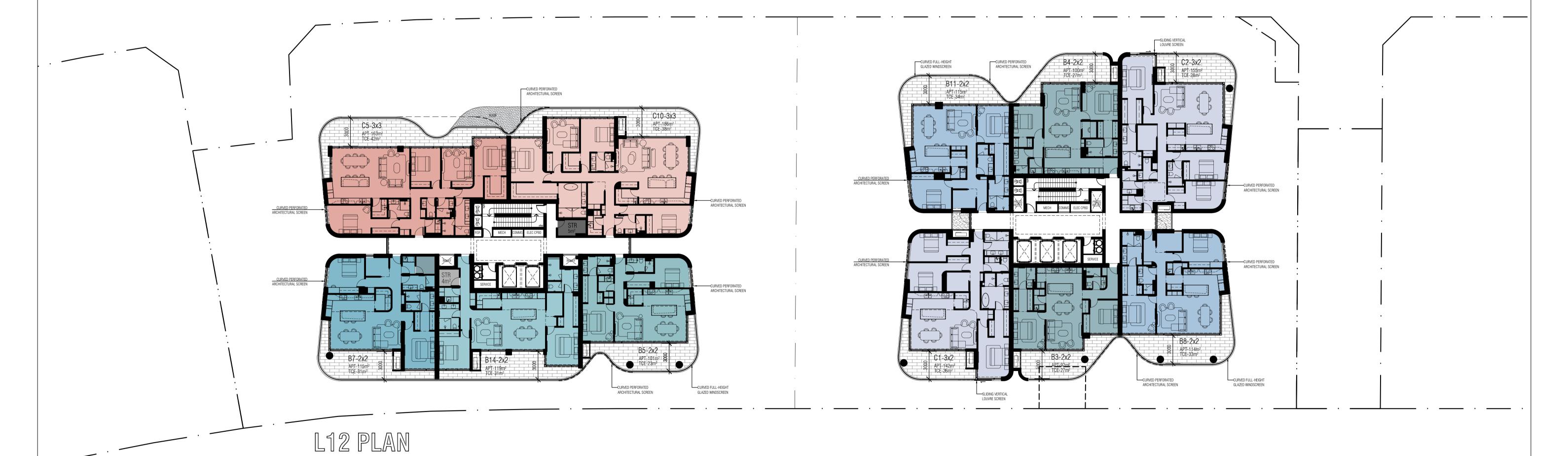
TOWN PLANNING:	ELEMENT
LANDSCAPE:	CAPA
SUSTAINABILITY:	FULL CIRCLE DESIGN
WIND:	RWDI
WASTE:	TALIS
ACOUSTIC:	HERRING STORER
TRAFFIC:	LEVEL 5 DESIGN
STRUCTURAL:	HERA

CLIENT	PROJECT ADI
	TOWER
GOLDEN SEDAYU	BURSW
PROJECT	PROJECT STA
_	
BURSWOOD POINT	TOWN P

ADDRESS	PROJECT NUMBER	NORTH
R LOTS 305 + 306		
WOOD POINT	23025	
STATUS	SCALE 0 2	4
I PLANNING	1:200 @ A1	

DRAWING			
FLOOR PL	ANS		
AS SHOW	N		
DRAWING NO.	DRAFTER	CHECKED	REV.
DA1.06	CD		K

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K 20.02.2024 TOWN PLANNING ISSUE

AMENDMENT

REV. DATE

TOWN PLANNING: ELEMENT
LANDSCAPE: CAPA
SUSTAINABILITY: FULL CIRCLE DESIGN
WIND: RWDI
WASTE: TALIS
ACOUSTIC: HERRING STORER
TRAFFIC: LEVEL 5 DESIGN
STRUCTURAL: HERA

GOLDEN SEDAYU

PROJECT

BURSWOOD POINT

PROJECT

TOWN

TOWN

TOWN

PROJECT ADDRESS	PROJECT NUMBER
TOWER LOTS 305 + 306	
BURSWOOD POINT	23025
PROJECT STATUS	SCALE 0
TOWN PLANNING	1:200 @ A1

NORTH	DRAWING			
	FLOOR PL AS SHOW			
2 4 10	DRAWING NO.	DRAFTER	CHECKED	REV.
2 4 10	AS SHOW	N	CHECKED	REV

DA1.07 CD





J 27.11.2023 PRELIM DA DD REVIEW

K 20.02.2024 TOWN PLANNING ISSUE

AMENDMENT

REV. DATE

TOWN PLANNING: ELEMENT
LANDSCAPE: CAPA
SUSTAINABILITY: FULL CIRCLE DESIGN
WIND: RWDI
WASTE: TALIS
ACOUSTIC: HERRING STORER
TRAFFIC: LEVEL 5 DESIGN
STRUCTURAL: HERA

GOLDEN SEDAYU
PROJECT

**BURSWOOD POINT** 

PROJECT ADDRESS

TOWER LOTS 305 + 306

BURSWOOD POINT

PROJECT STATUS

23025

SCALE

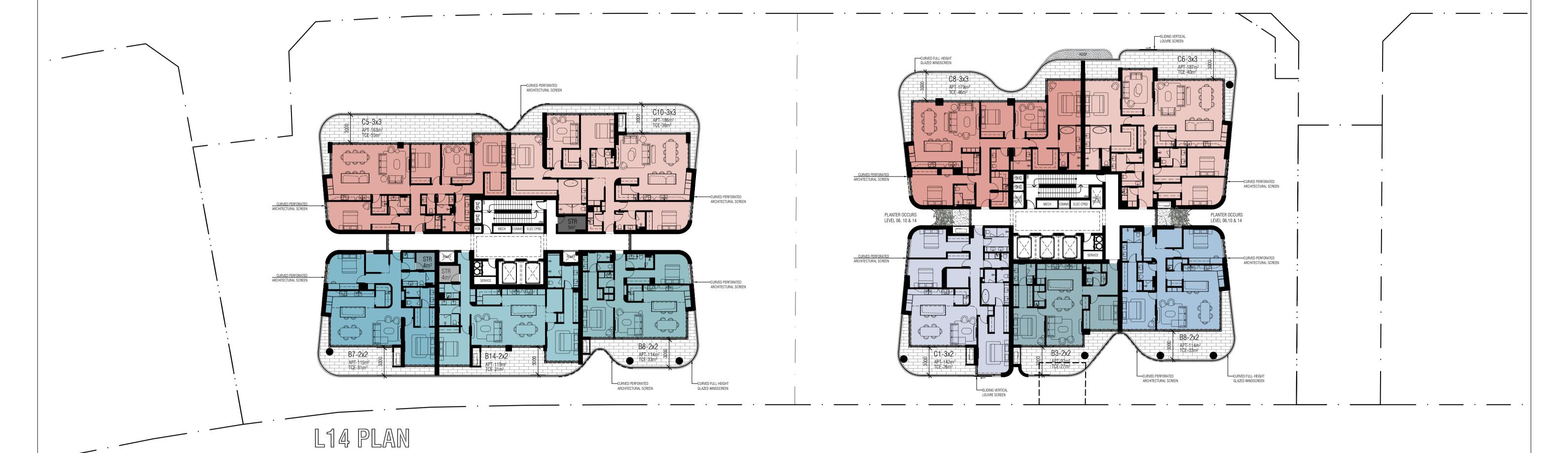
TOWN PLANNING

1:200 @ A1

DRAWING
FLOOR PLANS
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

DA1.08

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REV.	DATE	AMENDMENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

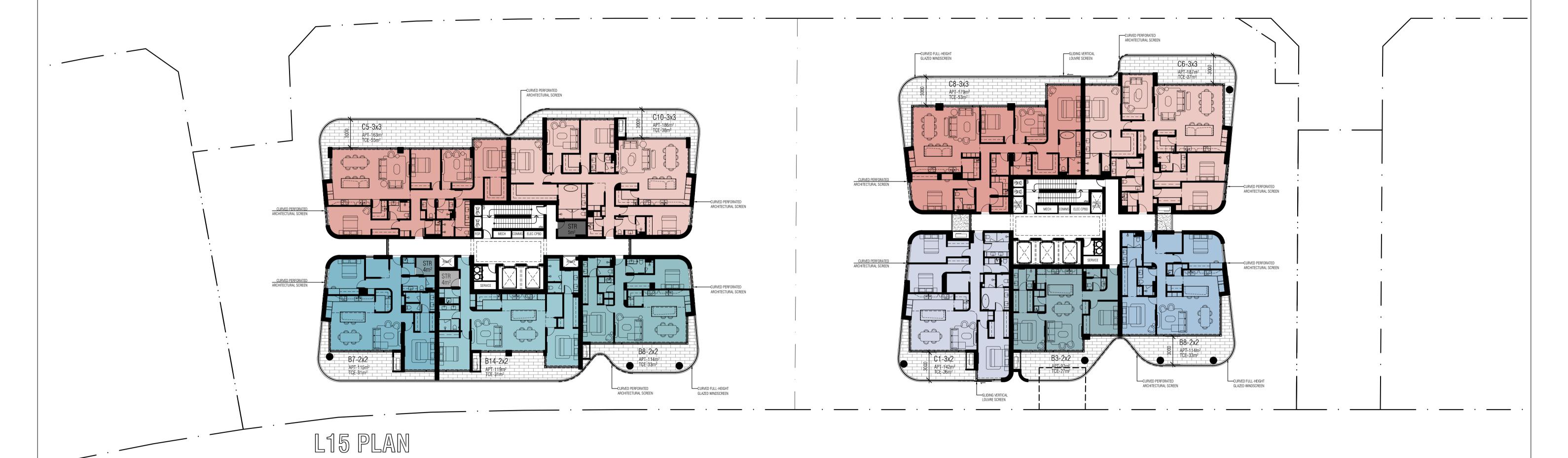
TOWN PLANNING:	ELEMENT
LANDSCAPE:	CAPA
SUSTAINABILITY:	FULL CIRCLE DESIGN
WIND:	RWDI
WASTE:	TALIS
ACOUSTIC:	HERRING STORER
TRAFFIC:	LEVEL 5 DESIGN
STRUCTURAL:	HERA

CLIENT	PROJECT ADDRESS
	TOWER LOTS 305 + 306
GOLDEN SEDAYU	BURSWOOD POINT
PROJECT	PROJECT STATUS
BURSWOOD POINT	TOWN PLANNING

PROJECT NUMBE	R		NORTH (	
23025				
 SCALE	0	2	4	10
1:200 @ <i>F</i>	\1			

DRAWING		
FLOOR PL AS SHOW		
DRAWING NO.	DRAFTER	CHECKED

DA1.09 CD





J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

AMENDMENT

REV. DATE

TOWN PLANNING:	ELEMENT
LANDSCAPE:	CAPA
SUSTAINABILITY:	FULL CIRCLE DESIGNATION
WIND:	RWDI
WASTE:	TALIS
ACOUSTIC:	HERRING STORER
TRAFFIC:	LEVEL 5 DESIGN
STRUCTURAL:	HERA

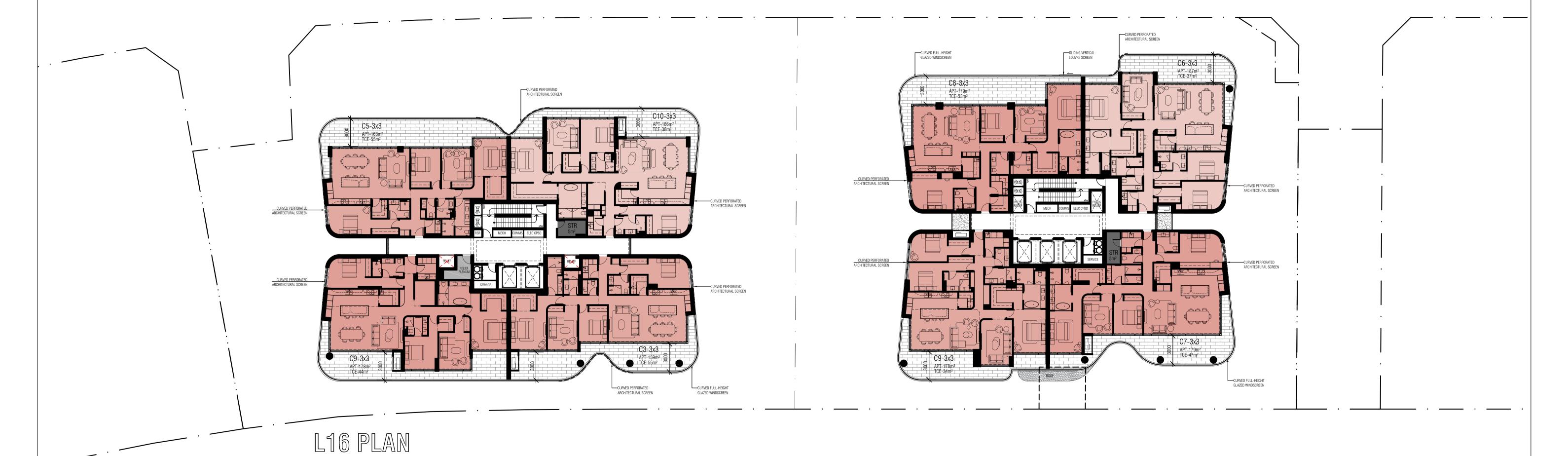
	CLIENT
N	
	GOLDEN SEDAYU
	PROJECT
	BURSWOOD POINT

PROJECT ADDRESS
TOWER LOTS $305 + 306$
BURSWOOD POINT
 PROJECT STATUS
TOWN PLANNING

ROJECT NUME	ER		NOR	TH
				(I)
3025				
CALE				
	0	2	4	10
:200 @	A1			

DRAWING			
FLOOR PL	ANS		
AS SHOW	N		
DRAWING NO.	DRAFTER	CHECKED	RE\

DA1.10 CD





J 27.11.2023 PRELIM DA DD REVIEW

K 20.02.2024 TOWN PLANNING ISSUE

AMENDMENT

REV. DATE

TOWN PLANNING: ELE
LANDSCAPE: CAI
SUSTAINABILITY: FUL
WIND: RW
WASTE: TAL
ACOUSTIC: HEF
TRAFFIC: LEV
STRUCTURAL: HEF

ELEMENT
CAPA
FULL CIRCLE DESIGN
RWDI
TALIS
HERRING STORER
LEVEL 5 DESIGN
HERA

GOLDEN SEDAYU
PROJECT

BURSWOOD POINT

TOWER LOTS 305 + 306
BURSWOOD POINT
PROJECT STATUS

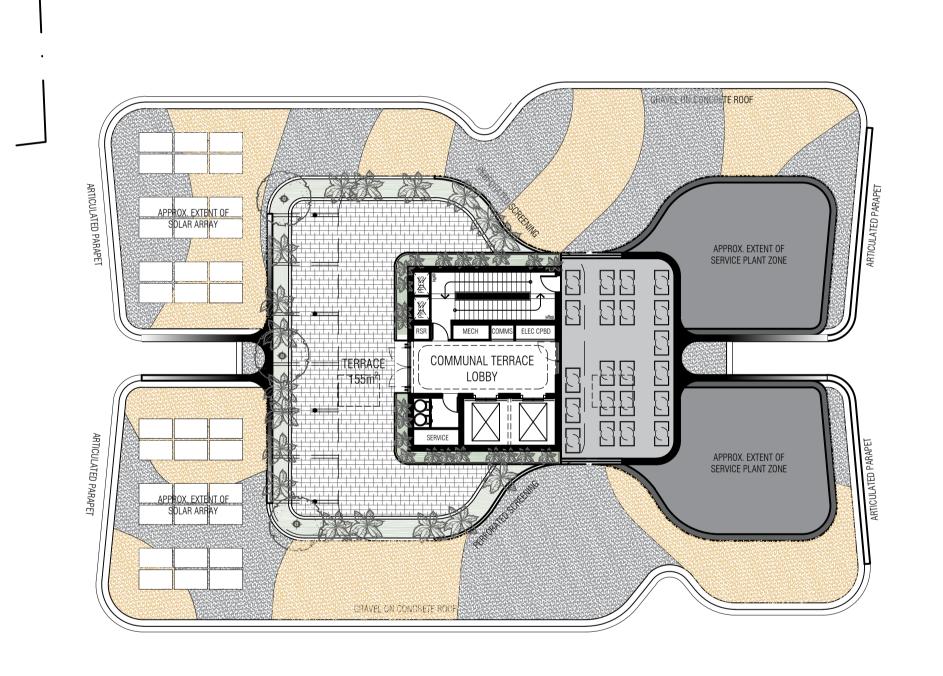
TOWN PLANNING

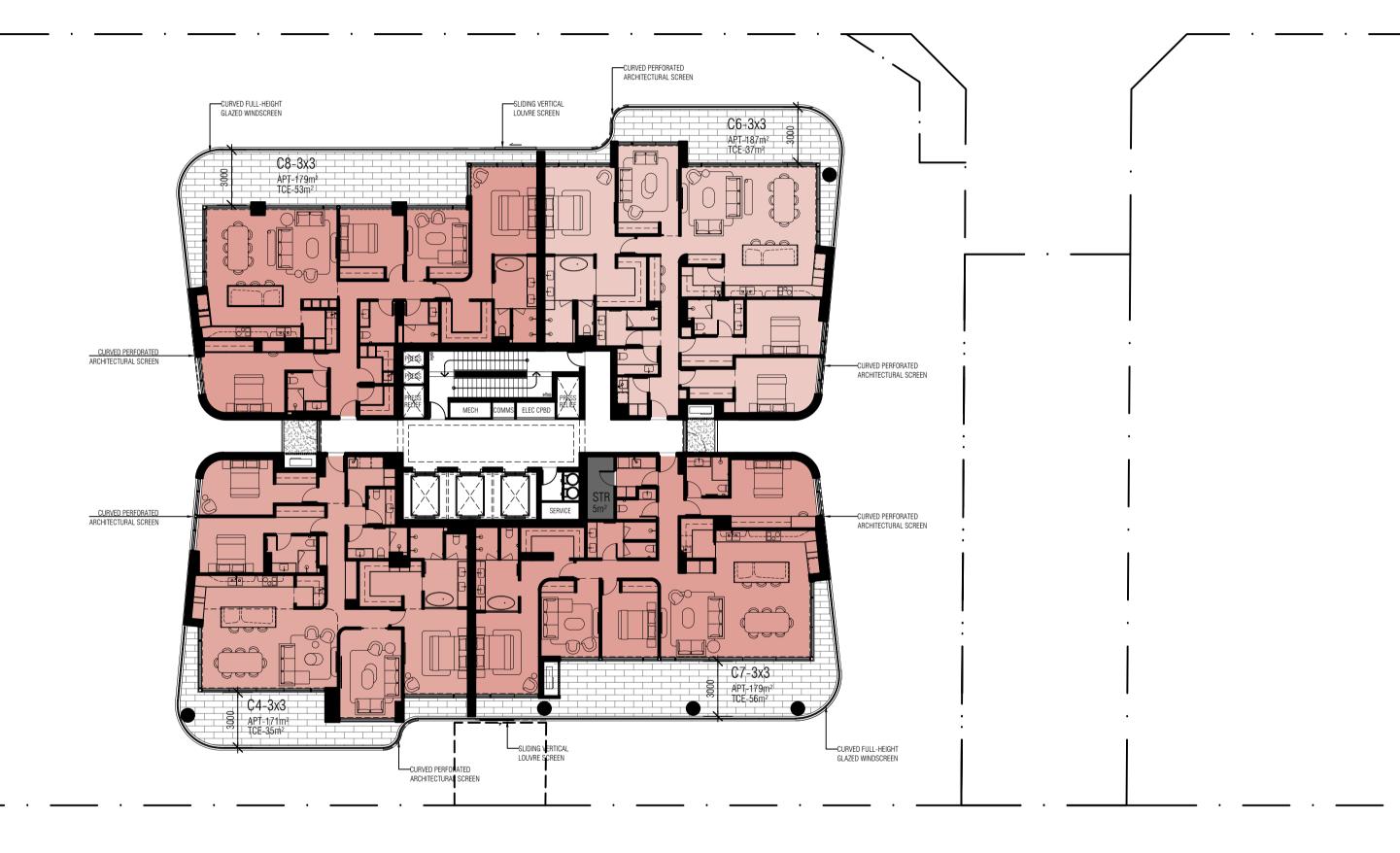
PROJECT ADDRESS

PROJECT NUM	BER		NORT	H
23025				
SCALE				
	0	2	4	10
1:200 @	A1			

DRAWING
FLOOR PLANS
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

DA1.11 CD





L17 PLAN



J 27.11.2023 PRELIM DA DD REVIEW	J 27.11.2023 PRELIM DA DD REVIEW K 20.02.2024 TOWN PLANNING ISSUE	REV.	DATE	AMENDMENT
	K 20.02.2024 TOWN PLANNING ISSUE	J	27.11.2023	PRELIM DA DD REVIEW
K 20.02.2024 TOWN PLANNING ISSUE		K	20.02.2024	TOWN PLANNING ISSUE

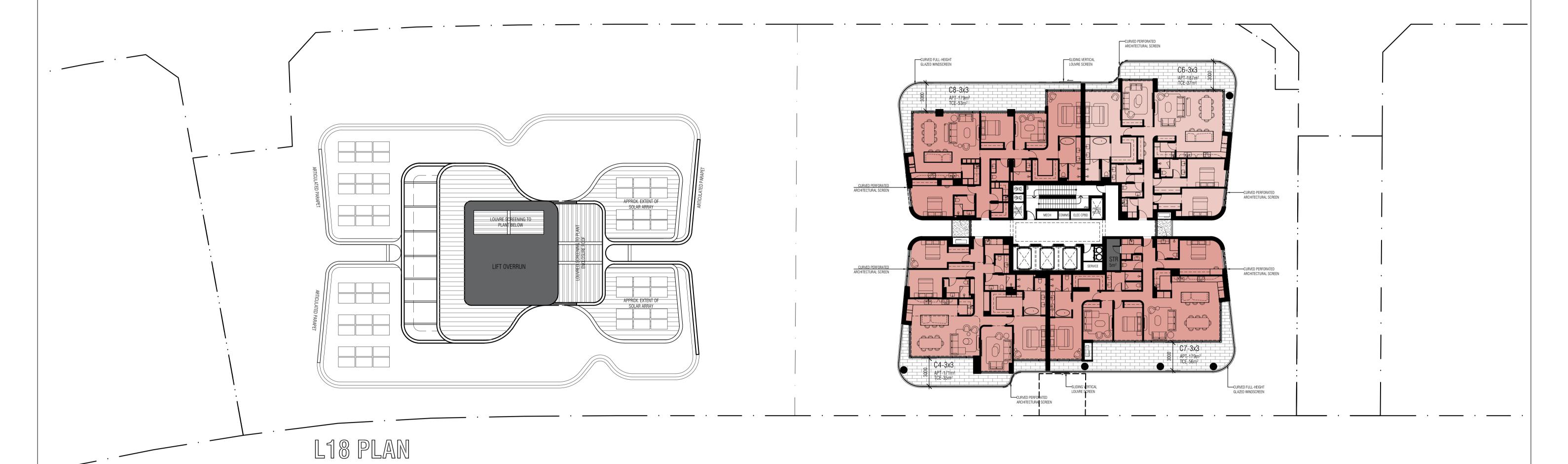
CLIENT	
GOLDEN SEDAYU	
PROJECT	

BURSWOOD POINT

PROJECT ADDRESS	PROJECT NUMBER
TOWER LOTS 305 + 306	
BURSWOOD POINT	23025
PROJECT STATUS	SCALE
	0 2
TOWN PLANNING	1:200 @ A1

DRAWING			
FLOOR PL	ANS		
AS SHOW	N		
DRAWING NO.	DRAFTER	CHECKED	REV
DA1.12	CD	_	K

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	DATE	AMENDMENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

TOWN PLANNING: ELEMENT
LANDSCAPE: CAPA
SUSTAINABILITY: FULL CIRCLE DESIGN
WIND: RWDI
WASTE: TALIS
ACOUSTIC: HERRING STORER
TRAFFIC: LEVEL 5 DESIGN
STRUCTURAL: HERA

_	CLIENT
	GOLDEN SEDAYU
	PROJECT
	BURSWOOD POINT

PROJECT ADDRESS	
TOWER LOTS 305 + 306	
BURSWOOD POINT	
PROJECT STATUS	
TOWN PLANNING	

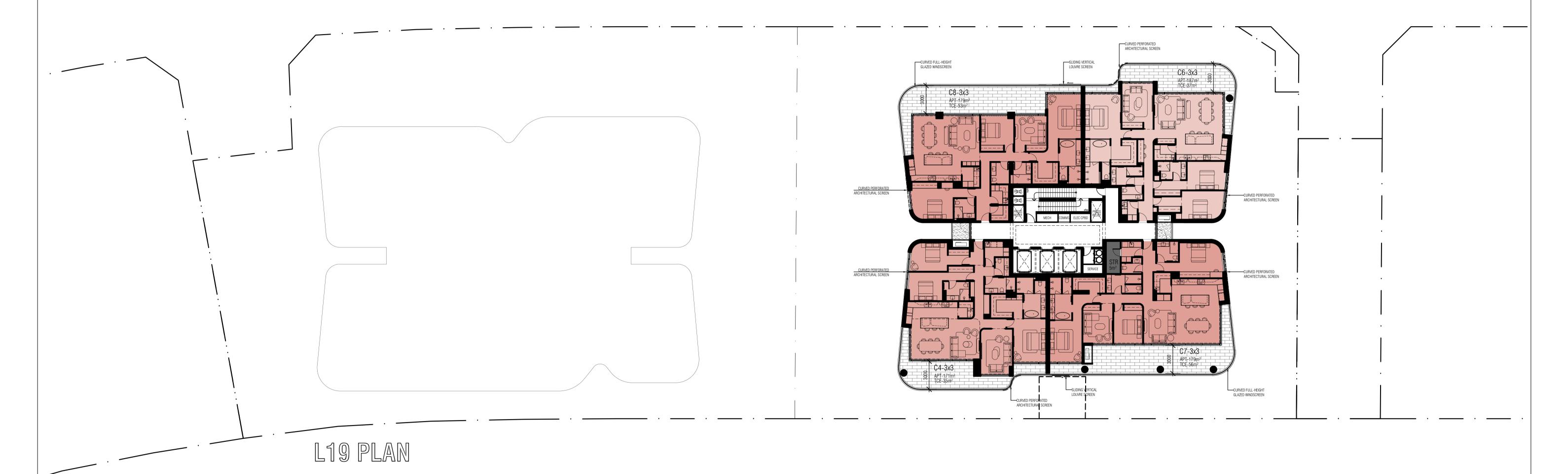
PROJECT NUM	MBER		NORTH	
23025				
SCALE				
	0	2	4	10
1:200 @	) A1			

DRAWING	A N I O	
FLOOR PL AS SHOW		
DRAWING NO.	DRAFTER	CHECKE

DA1.13 CD

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REV.	DATE	AMENDMENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

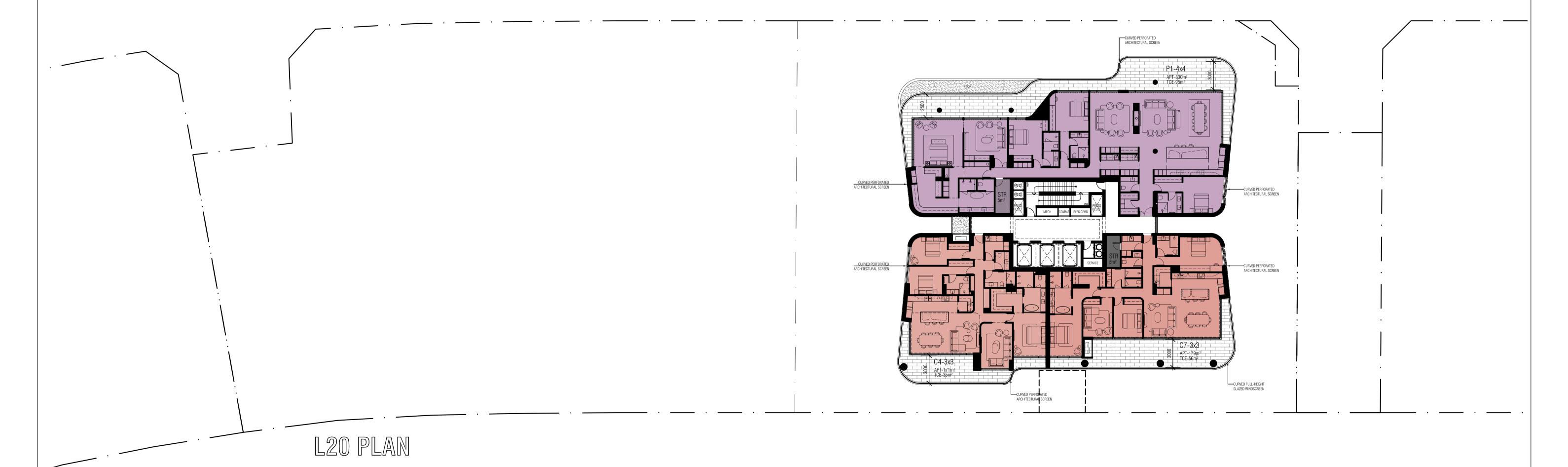
TOWN PLANNING: ELEMENT
LANDSCAPE: CAPA
SUSTAINABILITY: FULL CIRCLE DESIGN
WIND: RWDI
WASTE: TALIS
ACOUSTIC: HERRING STORER
TRAFFIC: LEVEL 5 DESIGN
STRUCTURAL: HERA

CLIENT	PROJECT ADDR
	TOWER L
GOLDEN SEDAYU	BURSWO
PROJECT	PROJECT STAT
<u> </u>	
BURSWOOD POINT	TOWN PL

PROJECT ADDRESS	PROJECT NUMBER	IORTH
TOWER LOTS 305 + 306		(I)
BURSWOOD POINT	23025	
PROJECT STATUS	SCALE 0 2 4	1
TOWN PLANNING	1:200 @ A1	

DRAWING			
FLOOR PL	ANS		
AS SHOW	N		
DRAWING NO.	DRAFTER	CHECKED	REV.
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REV.	DATE	AMENDMENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE

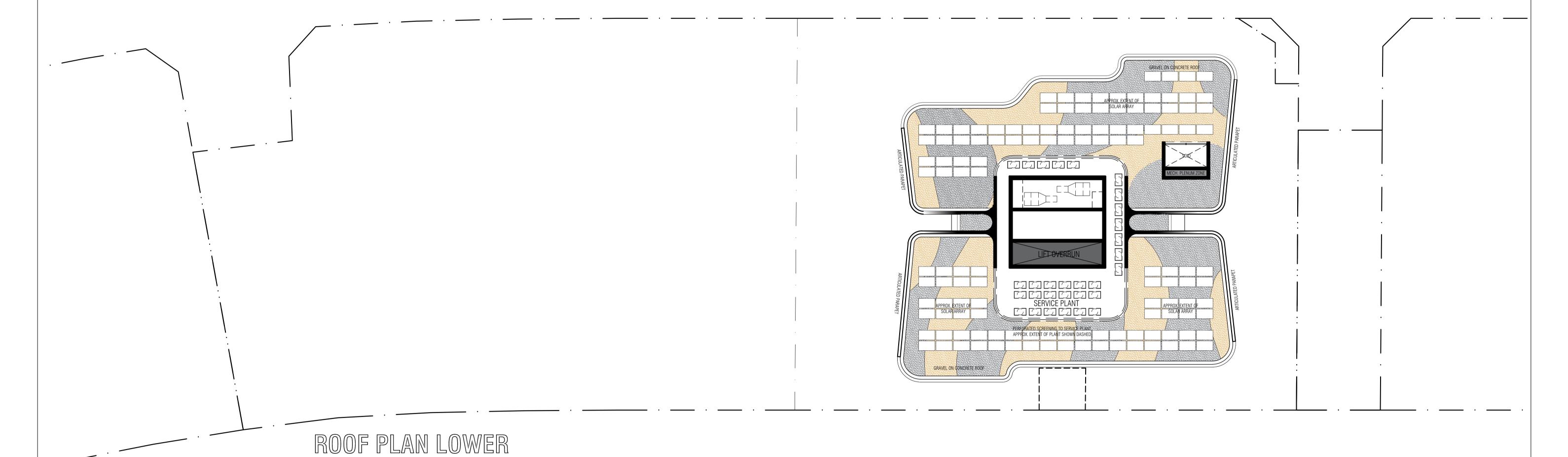
CLIENT	PROJECT ADDI
	TOWER L
GOLDEN SEDAYU	BURSWO
PROJECT	PROJECT STAT
<u> </u>	
BURSWOOD POINT	TOWN PL

PROJECT ADDRESS	PROJECT NUMBER	NORTH
TOWER LOTS 305 + 306		
BURSWOOD POINT	23025	
PROJECT STATUS	SCALE 0 2	4
TOWN PLANNING	1:200 @ A1	·

DRAWING						
FLOOR PLANS						
AS SHOWN						
DRAWING NO.	DRAFTER	CHECKED	REV.			
DA1.15	CD		K			

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27.11.2023 PRELIM DA DD REVIEW 20.02.2024 TOWN PLANNING ISSUE

**AMENDMENT** 

REV. DATE

TOWN PLANNING: LANDSCAPE: SUSTAINABILITY: WIND: WASTE: ACOUSTIC: TRAFFIC: STRUCTURAL:

ELEMENT CAPA FULL CIRCLE DESIGN RWDI TALIS HERRING STORER LEVEL 5 DESIGN HERA

CLIENT GOLDEN SEDAYU PROJECT

**BURSWOOD POINT** PROJECT STATUS **BURSWOOD POINT** TOWN PLANNING

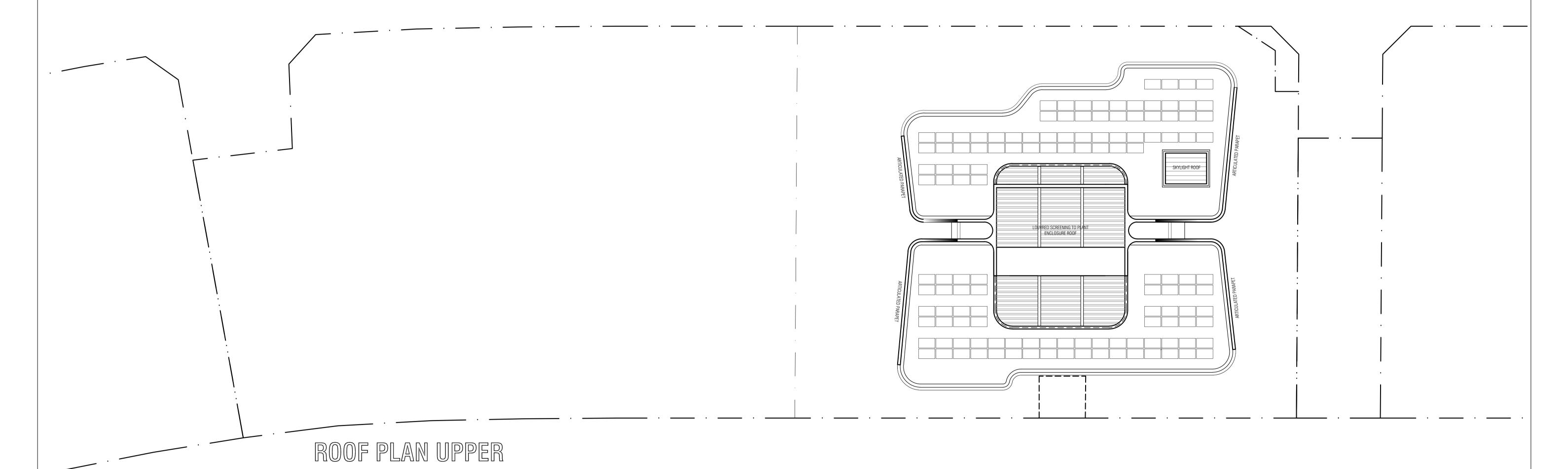
PROJECT ADDRESS

PROJECT NUMBER NORTH TOWER LOTS 305 + 30623025 SCALE 0 2 4 1:200 @ A1

DRAWING FLOOR PLANS AS SHOWN DRAWING NO. DRAFTER CHECKED REV.

DA1.16 CD







J 27.11.2023 PRELIM DA DD REVIEW

K 20.02.2024 TOWN PLANNING ISSUE

AMENDMENT

REV. DATE

TOWN PLANNING: E
LANDSCAPE: C
SUSTAINABILITY: F
WIND: F
WASTE: T
ACOUSTIC: H
TRAFFIC: L
STRUCTURAL: F

ING: ELEMENT
CAPA
TY: FULL CIRCLE DESIGN
RWDI
TALIS
HERRING STORER
LEVEL 5 DESIGN
: HERA

GOLDEN SEDAYU
PROJECT

BURSWOOD POINT

BURSWOOD POINT

BURSWOOD POINT

BURSWOOD POINT

PROJECT ADDRESS

TOWER LOTS 305 + 306

BURSWOOD POINT

PROJECT STATUS

23025

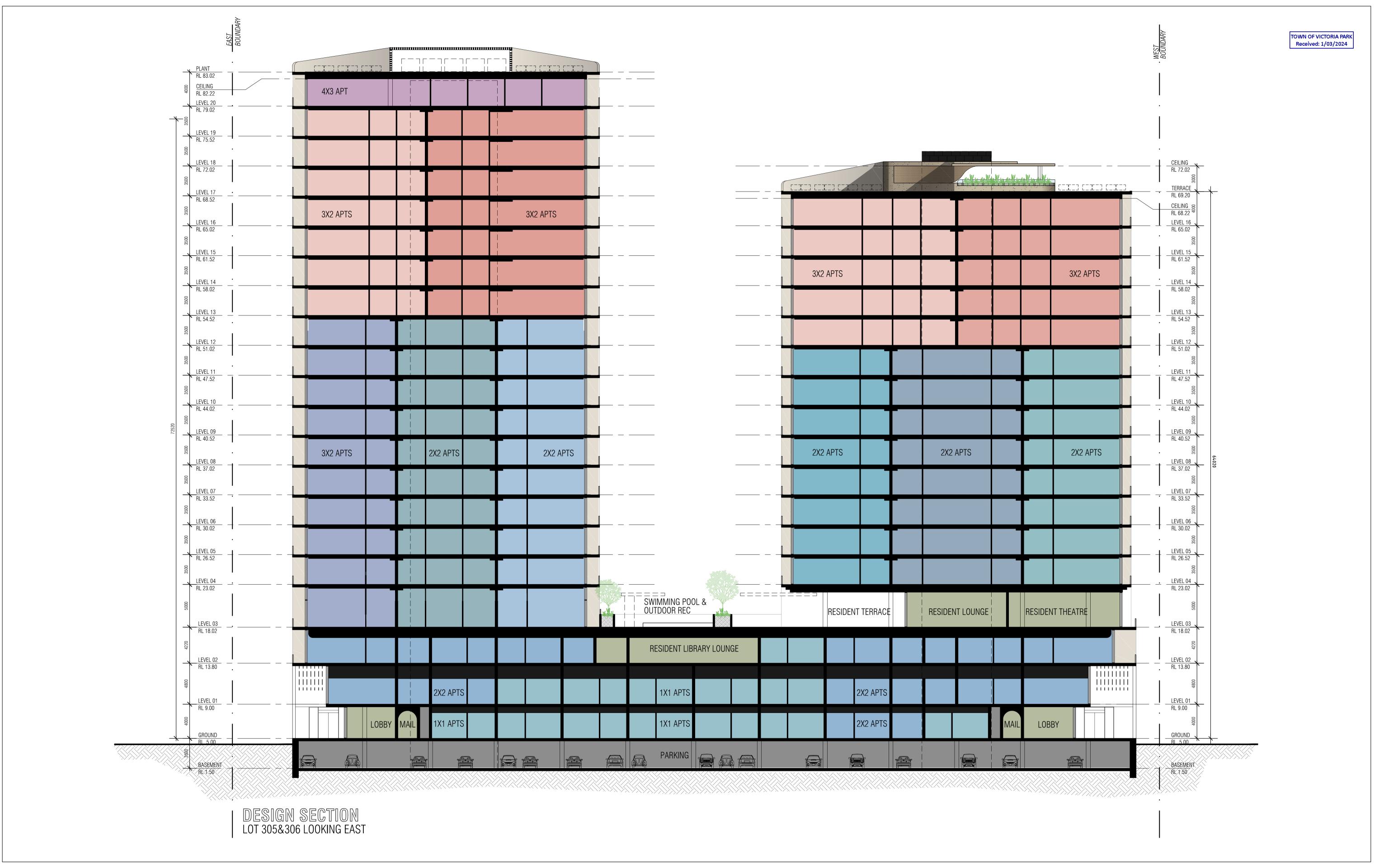
SCALE

TOWN PLANNING

1:200 @ A1

DRAWING
FLOOR PLANS
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

DA1.17 CD





REV. DATE AMENDMENT

J 27.11.2023 PRELIM DA DD REVIEW

K 20.02.2024 TOWN PLANNING ISSUE

L 22.02.2024 TOWN PLANNING ISSUE

TOWN PLANNING: **ELEMENT** LANDSCAPE: **CAPA** SUSTAINABILITY: FULL CIRCLE DESIGN WIND: RWDI WASTE: **TALIS** ACOUSTIC: HERRING STORER TRAFFIC: **LEVEL 5 DESIGN** STRUCTURAL: HERA

GOLDEN SEDAYU
PROJECT

**BURSWOOD POINT** 

PROJECT ADDRESS

TOWER LOTS 305 + 306

BURSWOOD POINT

PROJECT STATUS

TOWN PLANNING

PROJECT NUMBER NORTH

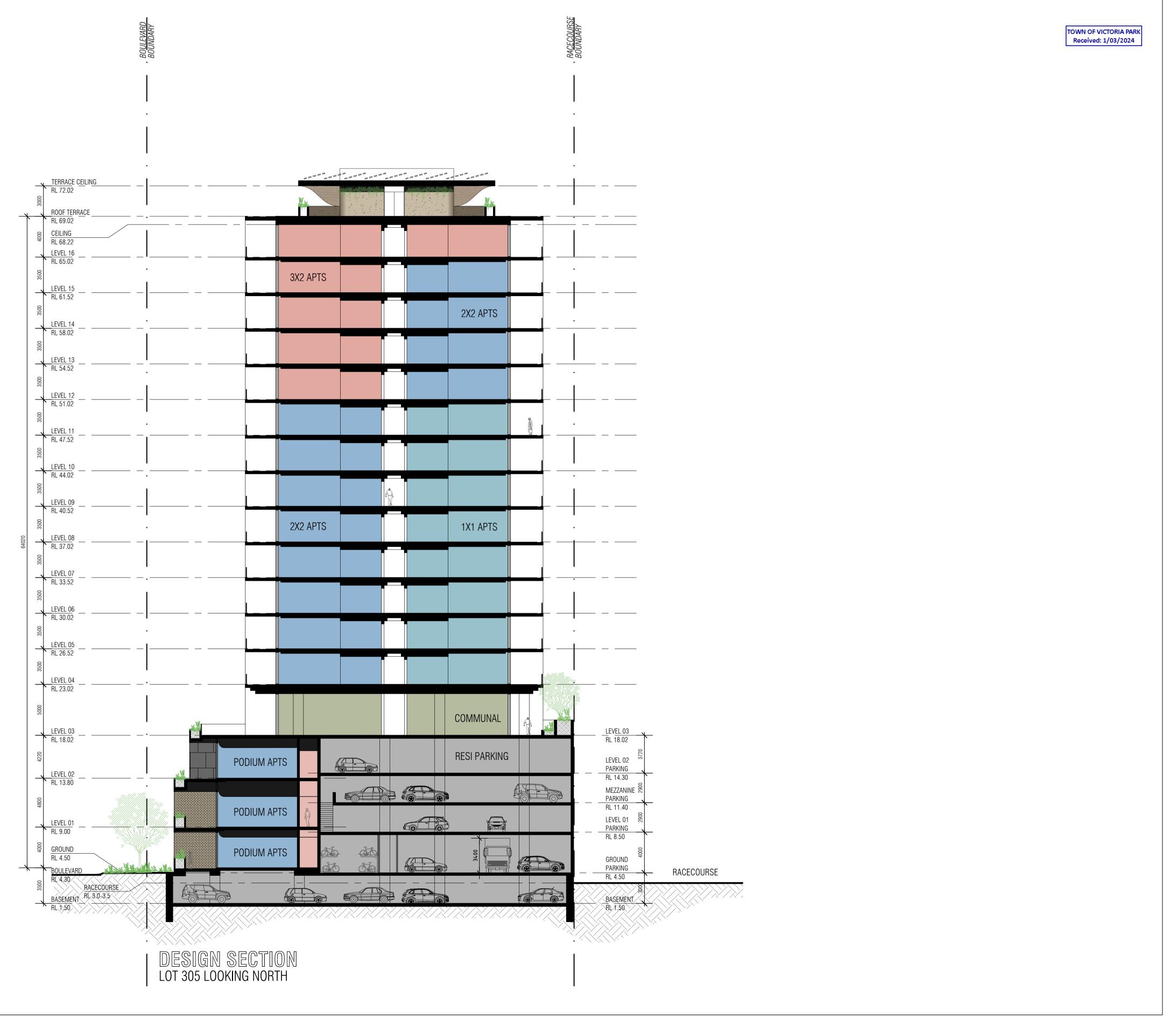
23025
SCALE

0 2 4

1:200 @ A1

DESIGN SECTION
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

DA2.01





K 20.02.2024	TOWN PLANNING ISSUE
	TOWN FLAMMING ISSUE
L 22.02.2024	TOWN PLANNING ISSUE

AMENDMENT

REV. DATE

TOWN PLANNING: ELEMENT
LANDSCAPE: GAPA
SUSTAINABILITY: FULL CIRCLE DESIGN
WIND: RWDI
WASTE: TALIS
ACOUSTIC: HERRING STORER
TRAFFIC: LEVEL 5 DESIGN
STRUCTURAL: HERA

GOLDEN SEDAYU
PROJECT

**BURSWOOD POINT** 

TOWER LOTS 305 + 306
BURSWOOD POINT
PROJECT STATUS

TOWN PLANNING

PROJECT NUMBER NORTH

23025

SCALE

0 2 4 10

1:200 @ A1

DESIGN SECTION
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

DA2.02 CD L





REV. DATE AMENDMENT

J 27.11.2023 PRELIM DA DD REVIEW

K 20.02.2024 TOWN PLANNING ISSUE

L 22.02.2024 TOWN PLANNING ISSUE

TOWN PLANNING: **ELEMENT** LANDSCAPE: **EAPA** SUSTAINABILITY: FULL CIRCLE DESIGN WIND: RWDI WASTE: **TALIS** ACOUSTIC: HERRING STORER TRAFFIC: **LEVEL 5 DESIGN** STRUCTURAL: HERA

CLIENT PROJECT ADDRESS

TOWER LOTS 305 + 306

BURSWOOD POINT

PROJECT STATUS

TOWN PLANNING

**BURSWOOD POINT** 

PROJECT NUMBER NORTH

+ 306

23025

SCALE

0 2 4 10

1:200 @ A1

DRAWING
ELEVATION
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

DA3.01 CD L

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REV.	DATE	AMENDMENT
J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE
L	22.02.2024	TOWN PLANNING ISSUE

TOWN PLANNING: ELEMENT
LANDSCAPE: CAPA
SUSTAINABILITY: FULL CIRCLE DESIGN
WIND: RWDI
WASTE: TALIS
ACOUSTIC: HERRING STORER
TRAFFIC: LEVEL 5 DESIGN
STRUCTURAL: HERA

GOLDEN SEDAYU
PROJECT

**BURSWOOD POINT** 

TOWER LOTS 305 + 306

BURSWOOD POINT
PROJECT STATUS

PROJECT NU

23025
SCALE

TOWN PLANNING

1:200 (

PROJECT NUMBER NORTH

DRAWING

ELEVATIONS

AS SHOWN

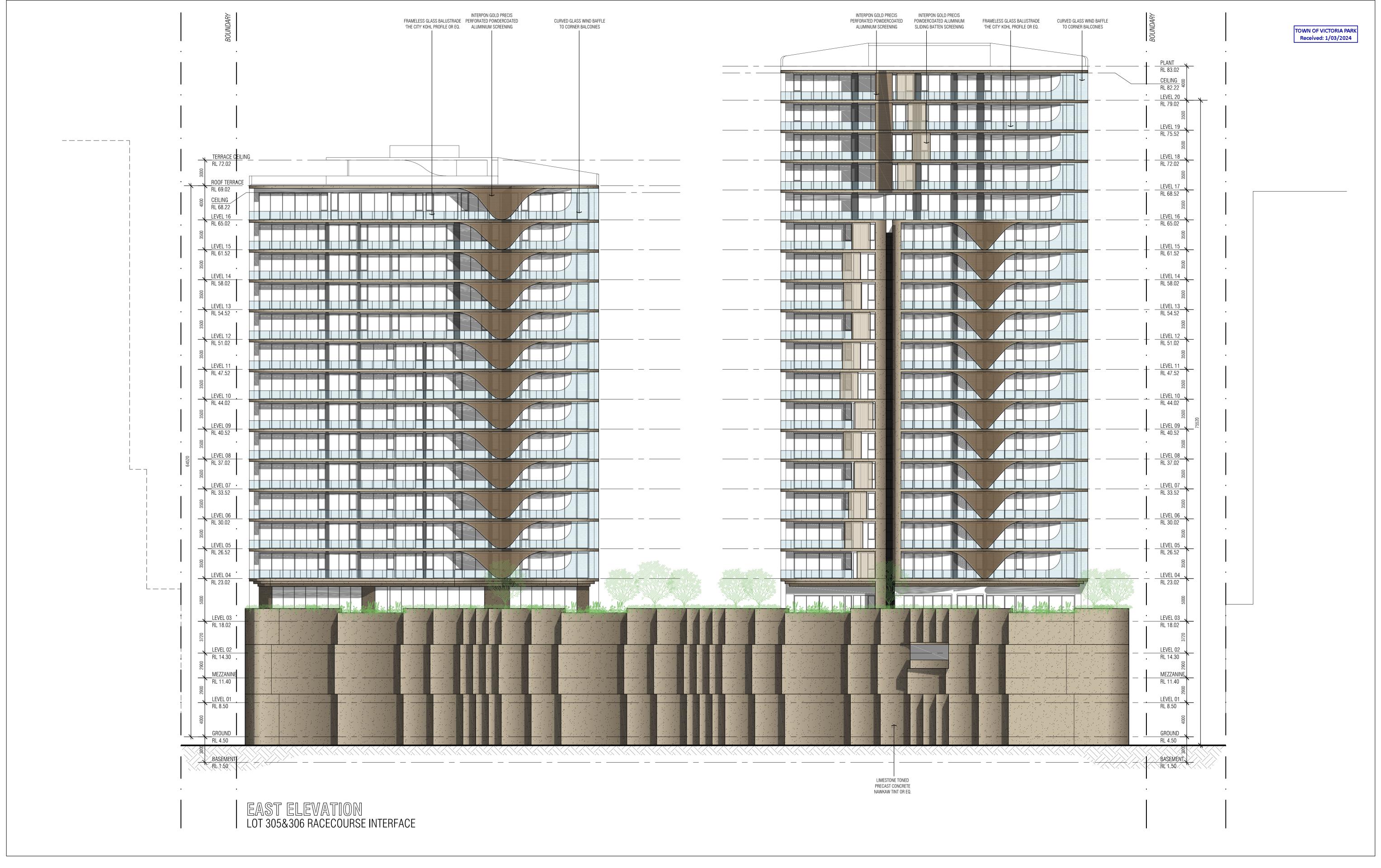
DRAWING NO. DRAFTER CHECKED REV.

1:200 @ A1

DA3.02 CD

L

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REV. DATE AMENDMENT 27.11.2023 PRELIM DA DD REVIEW 20.02.2024 TOWN PLANNING ISSUE 22.02.2024 TOWN PLANNING ISSUE

TOWN PLANNING: ELEMENT LANDSCAPE: CAPA SUSTAINABILITY: FULL CIRCLE DESIGN WIND: RWDI WASTE: TALIS ACOUSTIC: HERRING STORER TRAFFIC: LEVEL 5 DESIGN STRUCTURAL:

CLIENT **GOLDEN SEDAYU** PROJECT

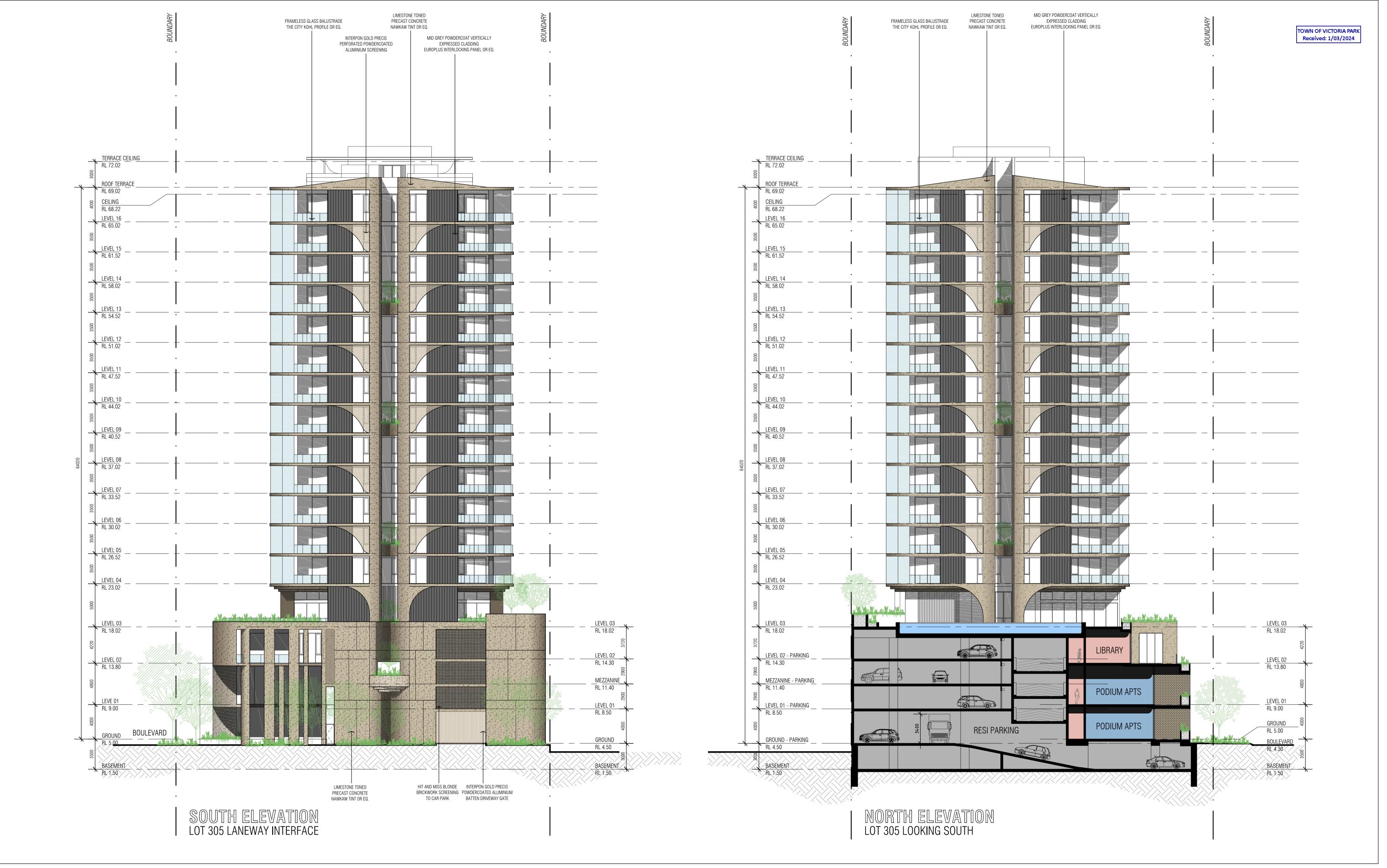
**BURSWOOD POINT** 

PROJECT ADDRESS PROJECT NUMBER TOWER LOTS 305 + 306**BURSWOOD POINT** 23025 PROJECT STATUS SCALE 0 2 4 TOWN PLANNING 1:200 @ A1

NORTH

DRAWING **ELEVATION** AS SHOWN DRAWING NO. DRAFTER CHECKED REV. DA3.03

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J	27.11.2023	PRELIM DA DD REVIEW
K	20.02.2024	TOWN PLANNING ISSUE
L	22.02.2024	TOWN PLANNING ISSUE

TOWN PLANNING: ELEMENT LANDSCAPE: CAPA SUSTAINABILITY: FULL CIRCLE DESIGN WIND: RWDI WASTE: TALIS ACOUSTIC: HERRING STORER TRAFFIC: LEVEL 5 DESIGN STRUCTURAL: HERA

CLIENT	PROJECT ADDR
	TOWER L
GOLDEN SEDAYU	BURSWO
PROJECT	PROJECT STATE

**BURSWOOD POINT** 

PROJECT ADDRESS	PROJECT NUMBER NORTH				
TOWER LOTS 305 + 306					
BURSWOOD POINT	23025				
PROJECT STATUS	SCALE 0 2 4	10			
TOWN PLANNING	1:200 @ A1				

DRAWING
ELEVATIONS
AS SHOWN
DRAWING NO. DRAFTER CHECKED REV.

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TOWN OF VICTORIA PARK Received: 1/03/2024

## **APPENDIX B**

**GLAZING REQUIREMENTS** 

			Calculated Noise Levels and Required R <sub>w</sub> and C <sub>tr</sub> Ratings				
Proposed Development				Window to Room Area Ratio 0.3 Traffic Noise Ingress		Window to Room Area Ratio 0 B TOWN OF VICTORIA PARK Horse Passby Noise Level Received: 1/03/2024	
Floor Level	Traffic Noise Level dB L <sub>AEq(Day)</sub>	Horse Noise Level dB L <sub>AMax</sub>	Bedroom R <sub>w</sub> + C <sub>tr</sub>	Living Room R <sub>w</sub> + C <sub>tr</sub>	Bedroom R <sub>w</sub> + C <sub>tr</sub>	Living Room R <sub>w</sub> + C <sub>tr</sub>	
Ground	55.4	59.6	25	20	29	24	
1	56.1	59.5	26	21	29	24	
2	56.6	59.5	26	21	29	24	
3	57.1	60.9	27	22	30	25	
4	57.4	61.4	27	22	31	26	
5	57.7	61.6	27	22	31	26	
6	58.0	61.8	28	23	31	26	
7	58.2	61.9	28	23	31	26	
8	58.4	61.9	28	23	31	26	
9	58.6	61.9	28	23	31	26	
10	58.8	61.9	28	23	31	26	
11	59	61.9	29	24	31	26	
12	59.1	61.8	29	24	31	26	
13	59.3	61.7	29	24	31	26	
14	59.4	61.7	29	24	31	26	
15	59.5	61.6	29	24	31	26	
16	59.6	61.5	29	24	31	26	
17	59.8	61.5	29	24	31	26	
18	59.9	61.4	29	24	31	26	
19	60	61.3	30	25	31	26	
20	60.1	61.2	30	25	31	26	

Notes: The required R<sub>W</sub> rating can be reduced by reducing the area of glazing.

Requirements pertain to only acoustic advice in regard to *State Planning Policy 5.4* and may be superceded by other requirements (BAL, Thermal, etc).

TOWN OF VICTORIA PARK Received: 1/03/2024

## **APPENDIX C**

MRWA TRAFFIC FLOW DATA



TOWN OF VICTORIA PARK Received: 1/03/2024

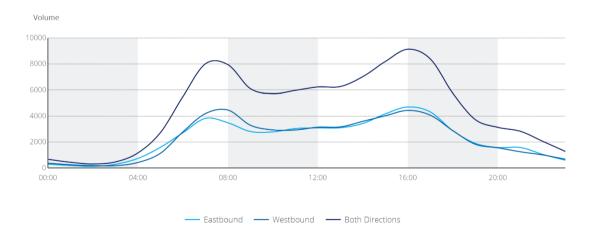
# Hourly Volume

Graham Farmer Fwy (H020)

At Windan Bridge (SLK 3.50)

2023/24 Monday to Friday

		🔓 All	Vehicles			Heavy Vehic		
		EB EB	w wB	Both	E EB	w wB	Both	<b>3</b> %
00	0:00	300	369	669	12	19	31	4.6
0,	1:00	190	248	438	10	9	19	4.3
02	2:00	125	184	309	8	12	20	6.5
03	3:00	288	179	467	13	15	28	6.0
04	4:00	741	424	1165	35	41	76	6.5
05	5:00	1597	1139	2736	116	110	226	8.3
06	5:00	2718	2788	5506	256	277	533	9.7
07	7:00	3825	4194	8019	302	383	685	8.5
08	8:00	3482	4464	7946	280	404	684	8.6
09	9:00	2810	3292	6102	300	429	729	11.9
1(	0:00	2784	2937	5721	317	392	709	12.4
11	1:00	3041	2932	5973	337	361	698	11.7
12	2:00	3091	3147	6238	332	354	686	11.0
13	3:00	3102	3167	6269	323	344	667	10.6
14	4:00	3435	3598	7033	321	333	654	9.3
15	5:00	4176	4028	8204	309	321	630	7.7
16	6:00	4702	4437	9139	259	250	509	5.6
17	7:00	4316	4066	8382	155	182	337	4.0
18	8:00	2865	2874	5739	99	111	210	3.7
19	9:00	1896	1825	3721	58	75	133	3.6
20	0:00	1577	1554	3131	44	53	97	3.1
2′	1:00	1578	1249	2827	36	38	74	2.6
22	2:00	1045	1005	2050	32	32	64	3.1
23	3:00	595	677	1272	21	24	45	3.5
TC	DTAL	54279	54777	109056	3975	4569	8544	7.8
				Peak Sta	tistics			
AM	TIME	07:15	07:30	07:30	11:15	08:30	08:30	
	VOL	3885	4760	8559	340	432	729	
PM	TIME	16:15	16:15	16:15	12:30	12:15	12:00	
	VOL	4738	4441	9179	332	356	686	



# Hourly Volume

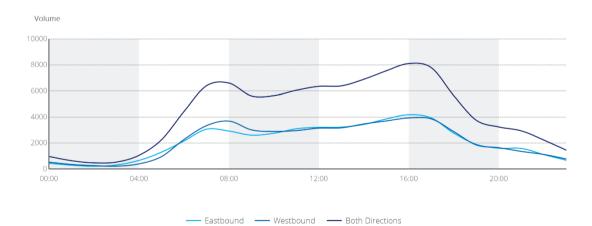
Graham Farmer Fwy (H020)

At Windan Bridge (SLK 3.50)

TOWN OF VICTORIA PARK Received: 1/03/2024

> 2023/24 Monday to Sunday

		all 🔁	Vehicles			Heavy Vehicles		
		EB •	w wB	Both	EB EB	w wB	Both	<b>3</b> %
00	0:00	439	526	965	16	21	37	3.8
01	1:00	289	349	638	9	10	19	3.0
02	2:00	210	259	469	8	10	18	3.8
03	3:00	311	219	530	12	13	25	4.7
04	4:00	660	393	1053	29	32	61	5.8
05	5:00	1296	954	2250	89	87	176	7.8
06	5:00	2156	2272	4428	194	216	410	9.3
07	7:00	3066	3338	6404	233	297	530	8.3
08	3:00	2923	3690	6613	220	316	536	8.1
09	9:00	2606	3016	5622	242	339	581	10.3
1(	0:00	2756	2891	5647	259	316	575	10.2
11	1:00	3103	2960	6063	275	294	569	9.4
12	2:00	3213	3151	6364	272	288	560	8.8
13	3:00	3224	3174	6398	273	287	560	8.8
14	4:00	3435	3470	6905	266	280	546	7.9
15	5:00	3858	3704	7562	249	263	512	6.8
16	5:00	4181	3936	8117	218	210	428	5.3
17	7:00	3931	3859	7790	138	172	310	4.0
18	3:00	2755	2873	5628	91	107	198	3.5
19	9:00	1897	1849	3746	54	71	125	3.3
20	0:00	1597	1640	3237	43	56	99	3.1
2	1:00	1584	1353	2937	36	40	76	2.6
22	2:00	1107	1119	2226	32	34	66	3.0
23	3:00	669	774	1443	20	27	47	3.3
TC	TAL	51266	51769	103035	3278	3786	7064	6.9
			<b>M</b>	Peak Sta	tistics			
AM	TIME	11:45	07:45	07:30	11:15	08:30	09:00	
	VOL	3222	3844	6902	277	339	581	
PM	TIME	16:15	16:45	16:15	13:30	13:15	13:15	
	VOL	4210	3976	8178	277	290	564	





# Hourly Volume

Graham Farmer Fwy (H020)

At Windan Bridge (SLK 3.50)

2023/24 Weekend

		All Vehicles			Heavy Vehicles			
	<b>■</b> EB	w WB	Both Both	E EB	w wB	Both	%	
00:00	778	919	1697	20	26	46	2.7	
01:00	541	603	1144	10	16	26	2.3	
02:00	420	448	868	6	7	13	1.5	
03:00	367	323	690	8	9	17	2.5	
04:00	460	317	777	19	13	32	4,1	
05:00	543	496	1039	21	34	55	5.3	
06:00	748	981	1729	39	63	102	5.9	
07:00	1175	1195	2370	66	81	147	6.2	
08:00	1530	1755	3285	74	97	171	5.2	
09:00	2092	2334	4426	93	118	211	4.8	
10:00	2686	2776	5462	114	123	237	4.3	
11:00	3255	3031	6286	116	127	243	3.9	
12:00	3520	3162	6682	122	123	245	3.7	
13:00	3527	3192	6719	141	145	286	4.3	
14:00	3433	3151	6584	128	147	275	4.2	
15:00	3064	2886	5950	100	114	214	3.6	
16:00	2877	2685	5562	116	108	224	4.0	
17:00	2967	3340	6307	94	145	239	3.8	
18:00	2484	2873	5357	71	100	171	3.2	
19:00	1903	1911	3814	47	63	110	2.9	
20:00	1647	1853	3500	41	64	105	3.0	
21:00	1599	1608	3207	35	41	76	2.4	
22:00	1262	1400	2662	32	34	66	2.5	
23:00	858	1011	1869	23	30	53	2.8	
TOTAL	. 43736	44250	87986	1536	1828	3364	3.8	
			Peak Sta	tistics				
AM .	TIME 11:45	11:45	11:45	10:30	10:30	10:30		
	VOL 3507	3175	6682	123	131	254		
PM -	TIME 13:15	17:30	13:30	13:30	13:30	13:30		
	VOL 3607	3462	6835	145	162	307		

