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Proposed Boronia Park Sports and Community Facility, Reserve, Park Road, Hunters Hill

Traffic and Parking Impact Assessment

Ref: 666/2020 June 2021 Date:

Issue: B

Table of Contents

1.0	INTE	RODUCTION 1
2.0	PRO	POSED DEVELOPMENT SCHEME2
	2.1 2.2	Site & Context
3.0	EXIS	STING ROAD NETWORK AND TRAFFIC CONDITIONS 3
	3.1 3.2 3.3 3.4	Road Network
4.0	TRA	VEL MODE 5
5.0	TRA	FFIC 6
6.0	PAR	KING AND SERVICING7
	6.1 6.2 6.3 6.4 6.5	Existing Parking Demand
7.0	CON	ICLUSION 10
List (of Fig	ures

Figure 1	Location
Figure 2	Site
Figure 3	Road Network
Figure 1	Traffic Control

List of Appendices

Appen	dix	ίA	Αı	rcl	nite	ectur	a	ΙP	lan:	S
		_	_			_			_	

Appendix B Existing Public Transport Services
Appendix C Parking Surveyss

1.0 Introduction

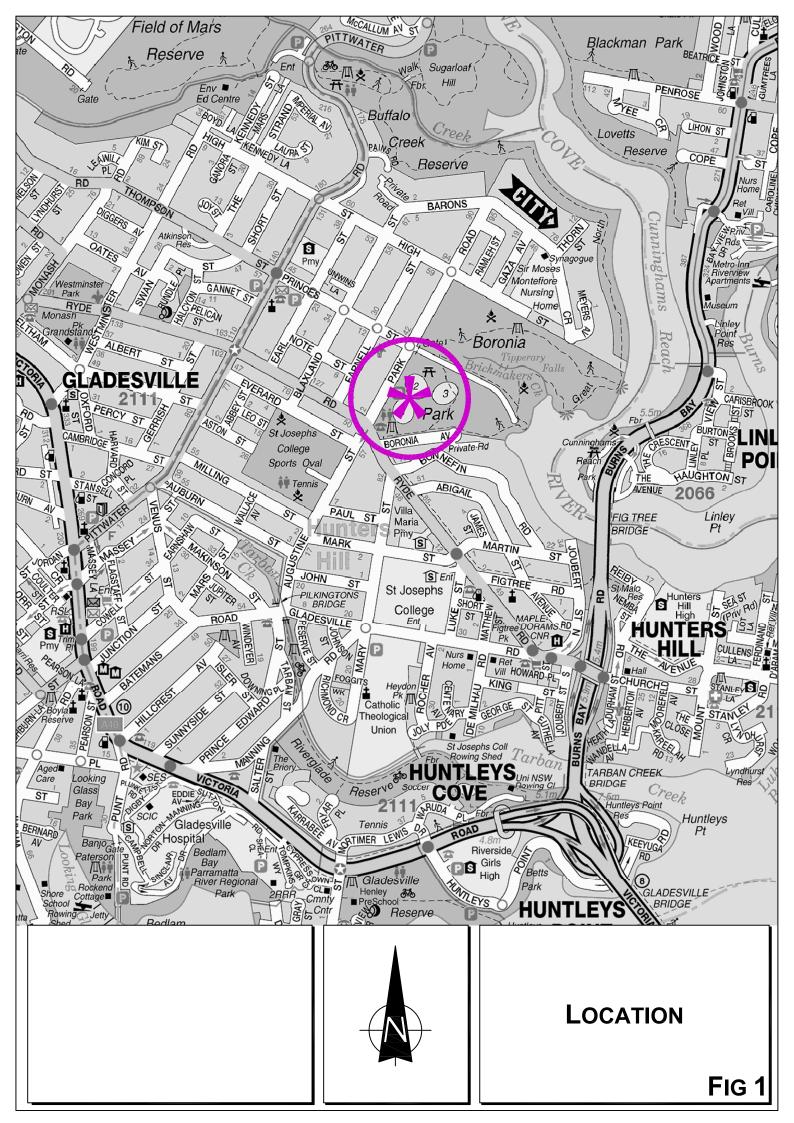
This report has been prepared to accompany a Development Application (DA) to Hunter's Hill Council for the proposed Boronia Park Sports and Community Facility at Park Road, Hunter's Hill (Figure 1).

The purpose of the proposed facility is to:

- enhance the user experience of Boronia Park sporting and community precinct and Boronia Park Village
- provide greater community amenity, enabling both sporting clubs and the broader community to participate, watch and enjoy organised sport at Boronia Park.

The purpose of this report is to:

- * describe the site, its context, the existing uses and the proposed development scheme
- * identify the activities associated with the development
- * describe the road network and traffic conditions in the area
- * assess the adequacy of the existing Boronia Park Reserve Carpark and surrounding on-street parking provision
- * assess the potential traffic implications
- * assess the proposed servicing arrangements.



2.0 Proposed Development Scheme

2.1 Site & Context

The site (Figure 2) is on Lot 7352 of DP 1156319, located within Boronia Park Reserve on the east side of Park Road, Hunters Hill. The proposed facility is located east of the Boronia Park Reserve carpark between Ovals 1 and 2. The site where the future building will occupy is of rectangularly-shaped allotment of 534m² and is currently vacant. The immediate surroundings comprise low-density residential dwellings.

2.2 Proposed Facility and Associated Use

The proposed facility comprises:

- accessible toilets and new change rooms
- additional storage
- a kiosk
- a community room for use by the sporting clubs, local schools and other community groups.

Details of the events/functions for the proposed facility are as follows:

- * Fitness class: Monday to Sunday from 6:00 am (maximum 40 people).
- * Functions such as weddings and birthdays: Monday to Sunday up to 5:00 pm (maximum of 150 people).
- ★ Functions such as fundraising dinners, etc.: Monday to Saturday 5:00 pm to 10:00 pm (maximum of 150 people).

Details of the proposed scheme are provided on the architectural plans prepared by DJRD Architects, which accompany the Development Application and are reproduced in part in Appendix A.



3.0 Existing Road Network and Traffic Conditions

3.1 Road Network

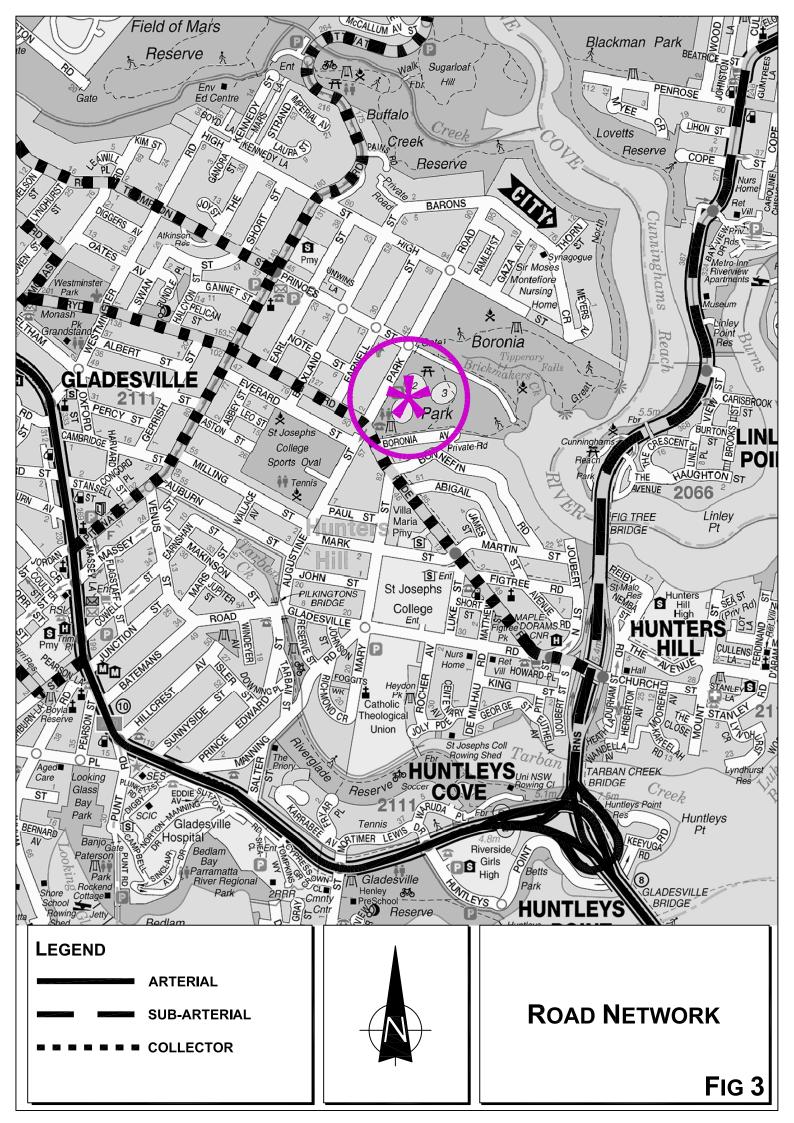
The road network in the vicinity of the development site (Figure 3) comprises:

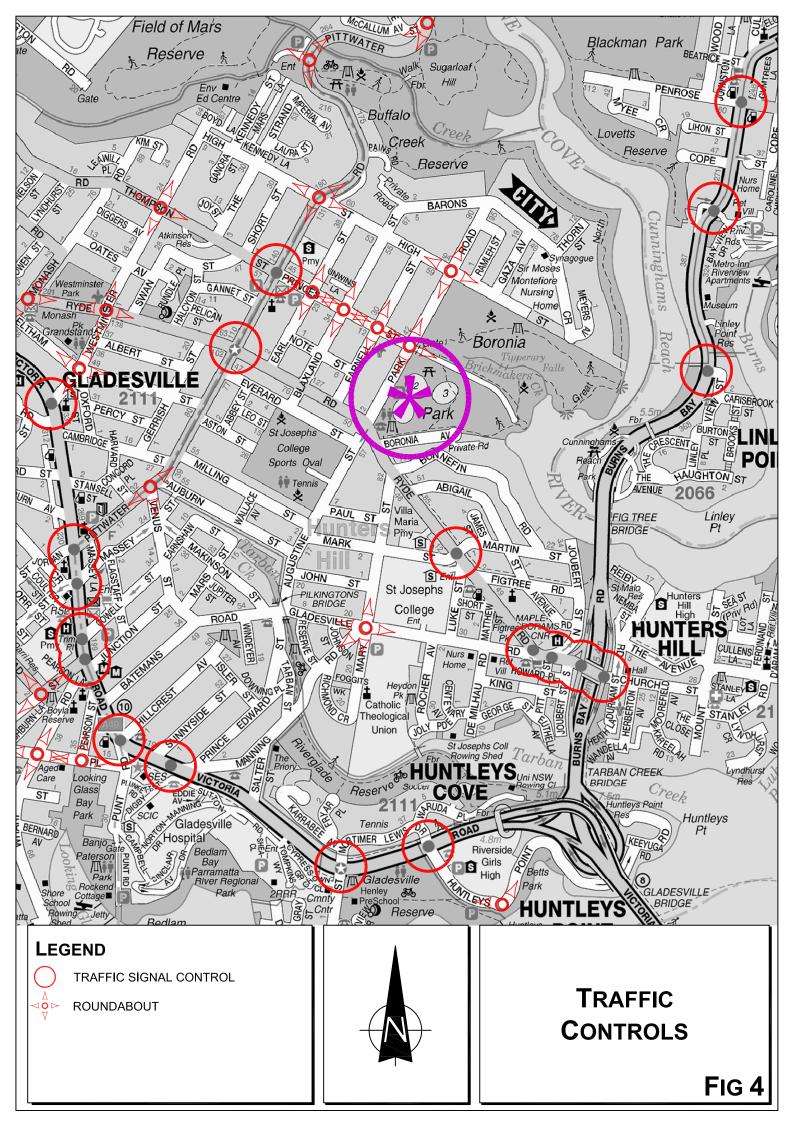
- ★ Burns Bay Road a sub-arterial route which links between Lane Cove and Huntleys Point.
- * Victoria Road a State Road and arterial route which links between Rozelle and Parramatta.
- ★ Pittwater Road a Regional Road and major collector road route connecting between Victoria Road and Epping Road.
- Park Road a local access road connecting between Barons Crescent and Ryde Road.
- Princes Street a local access road connecting between Park Road and Pittwater Road, with Authorised Vehicle Access only along the eastern approach intersecting Park Road.
- * Ryde Road a Regional Road and collector road route linking Gladesville and Hunter's Hill.
- **★** Boronia Avenue a local access road providing access to Ryde Road.

3.2 Traffic Controls

The existing traffic and parking controls in the vicinity of the site (Figure 4) include:

- ★ the STOP sign control on Park Road intersecting with Ryde Road
- * the numerous bus zones along Park Road, Ryde Road and Princes Street





- * the roundabouts along Princes Street intersecting Park Road and Farnell Street
- * the unrestricted kerbside parking along Park Road, Princes Street, Augustine Road, Boronia Avenue and Ryde Road
- * the numerous NO STOPPING restrictions along Ryde Road, Augustine Road and Boronia Avenue
- * the 60 kmph speed restriction on Ryde Road and Pittwater Road
- * the 50 kmph speed restriction on the local road system, including Park Road.

3.3 Traffic Conditions

Observations of traffic activity along Park Road and the surrounding local road network indicate relatively light activity during the weekday peak hours.

There is no existing congestion along Park Road in the vicinity of the site.

Vehicles from the Boronia Park Reserve Carpark and surrounding on-street car parking spaces are readily able to ingress and egress with the benefit of gaps in the Park Road traffic flows.

3.4 Transport Services

The site is well serviced by public transport. Access to the Metropolitan Transport Network for the site is currently provided by the bus services which run along Park Road, Ryde Road and Princes Road (with bus stops within 200m walking distance west and southwest of the site).

These services provide connections to surrounding suburbs, Gladesville, North Sydney, Macquarie and Sydney CBD, as well as Macquarie Park and Chatswood Sydney Metro Stations. These bus routes provide frequent services during the weekday peak hour periods.

Details of the bus services available are provided in Appendix B.

4.0 Travel Mode

An indication of the proposed facility's mode of travel, i.e., by car, foot, or public and active transport, is provided by empirical studies completed by TTPA for similar use at Gladesville Road Community Centre.

Details of the survey outcome reveal the following distribution:

Travel Mode	Percentage
Bus	10%
Walk	2%
Car Driver	46%
Car Passenger	40%
Others (Bicycle, Motorcycle, Taxi,	2%
Ride Share)	270
Total	100%

The results indicate that 46% of attendees drive while another 40% carpool or are being dropped off and picked up. 10% of the attendees utilise public transport (bus) to/from the facility, facilitated by the established footpaths in the facility's vicinity and convenient/easy access to the bus stops. The already established bus network presents a valuable opportunity to manage/reduce private vehicle usage through the provision of a transport access guide.

5.0 Traffic

It is understood (and as is normal for a community facility) that vehicle occupancy is particularly high because of family and friends' attendance and carpooling habits. This is confirmed by the travel mode survey, where 40% of the attendees are passengers.

It is advised from the survey that 46% drive to the site.

Based on the above, with the maximum capacity of 150 people, the proposed facility is expected to generate up to 69 vtph for attendees during the community facility's peak hour, with most of the traffic generated occurring outside of the weekday peak periods (after 6:00 pm) and weekend (before 12:00 pm) peak periods.

These movements, being equivalent to 1-2 trips every minute, is minor, and will not result in any adverse environmental, capacity or traffic-related consequences on the surrounding road network.

It is relevant that this level of traffic activity represents a worst-case circumstance as it assumes that all trips associated with the proposed facility are new and does not take into account existing movements associated with the existing park/reserve generated by users who, irrespective of the proposed facility would normally use the park for special functions and events.

6.0 Parking and Servicing

6.1 Existing Parking Demand

A survey of the Boronia Park Reserve Carpark and surrounding on-street parking spaces (within convenient walking distance of 400m), as shown in the following figure, indicates parking availability for 187 cars:



The existing off-street and on-street parking spaces were surveyed on Saturday, 8 May 2021 (between 10 am and 12:00 pm) and Tuesday, 11 May 2021 (between 6:00 pm and 8:00 pm).

The surveys were completed to provide an indication of their utilisation during the existing park/reserve peak periods as well as to capture the car parking demand associated with the surrounding residential developments.

Details of the surveys are provided in Appendix C, while its outcome is summarised as follows:

		Maximum Occupancy Level			Vacancy vel
	Capacity	Tuesday	Saturday	Tuesday	Saturday
Boronia Park Reserve Car Park	41	6	3	35	38
Augustine St	15	9	7	6	8
Ryde Rd	14	0	0	14	14
Boronia Ave	25	4	3	21	22
Park Rd	75	16	10	59	65
Princes St	17	10	7	7	10
Total	187	45	30	142	157

Based on the above, it is apparent that the site benefits from the ample spare parking capacity (a minimum of 142 spaces) within the Boronia Park Reserve Carpark and the surrounding on-street parking.

6.2 Council's DCP and RMS Parking Rate

Council's DCP and RMS 2002 Guidelines do not specify any parking requirements for a community facility.

6.3 Car Parking Demand

Based on the travel mode survey data, which indicates that 46% of the attendees travel to/from the site with private vehicles, a maximum of 150 attendees will result in a car parking demand of 69 cars.

6.4 Adequacy of Off-Street and On-Street Parking Provision

As discussed, there is a minimum vacancy of 142 off-street and on-street spaces during the facility's peak period.

It is apparent based on the above that the additional parking demand associated with the proposed facility and community facility of 69 cars can be easily accommodated within the available existing off-street and on-street parking spaces.

The use of the Boronia Park Reserve Carpark and surrounding on-street parking along Park Road, Ryde Road, Princes Street, Augustine Road and Boronia Avenue by vehicles assessing the proposed facility is entirely appropriate and consistent with its functional role and forms a typical environment surrounding a public facility.

6.5 Servicing

Consistent with the current arrangement, refuse collection by Council's waste truck will continue to occur within the Boronia Park Reserve Carpark, with bins to be wheeled to the kerbside for collection.

Smaller service vehicles (i.e., deliveries, courier activity, maintenance, etc.), which typically involves vans, utes, etc., can be reliant on the Boronia Park Reserve Carpark and available on-street parking in the vicinity of the site.

7.0 Conclusion

A Development Application is to be submitted to Hunter's Hill Council for the proposed Boronia Park Sports and Community Facility at Park Road, Hunter's Hill.

The traffic, transport and parking assessment provided in this report has concluded that:

- * the traffic generation of the proposed development will not have an adverse impact on the operation of the surrounding road network as the traffic generated will generally occur outside of the weekday PM peak and weekend midday commuter hours.
- * the peak parking demand will be adequately accommodated in the existing Boronia Park Reserve Carpark and surrounding on-street parking within the convenient walking distance of the site
- * the site benefits from the high-frequency public transport services along Park Road, which link to the surrounding suburbs and Macquarie Park and Chatswood Sydney Metro Stations.

Appendix A

Architectural Plans



BORONIA PARK SPORTS AND COMMUNITY FACILITY

PARK ROAD HUNTERS HILL

DEVELOPMENT APPLICATION JUNE 2021

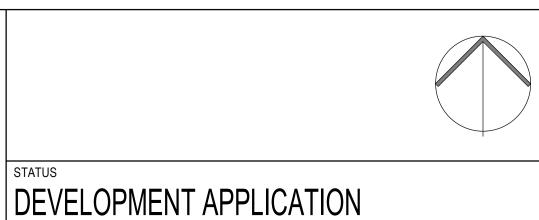
	DRAWING LIST - DA							
DWG #	REV	Current Revision Date	DRAWING TITLE					
DA-000	F	11/06/21	COVER SHEET AND LOCATION PLAN					
DA-001	F	11/06/21	SITE PLAN					
DA-005	F	11/06/21	SITE ANALYSIS PLAN					
DA-006	G	11/06/21	EXTERNAL WORKS PLAN					
DA-101	Н	11/06/21	LOWER LEVEL PLAN					
DA-102	G	11/06/21	UPPER LEVEL PLAN					
DA-103	F	11/06/21	ROOF PLAN					
DA-200	G	11/06/21	ELEVATIONS					
DA-250	F	11/06/21	SECTIONS					
DA-901	F	11/06/21	SHADOW DIAGRAMS					
DA-902	С	11/06/21	SHADOW DIAGRAMS SHEET 2					
DA-920	F	11/06/21	PHOTOMONTAGES					
DA-921	D	11/06/21	3D VIEWS					
DA-950	F	11/06/21	MATERIALS SCHEDULE					



SUBJECT SITE

	ISSUE	DATE	SUBJECT	AUTHORISED
PM	Α	03/12/20	INITIAL ISSUE	ARH
3:03:10	В	03/05/21	LOWER LEVEL REPLANNED	ARH
3:	С	11/05/21	ISSUED FOR DA REVIEW	LV
11/06/2021	D	20/05/21	DRAFT DA FOR REVIEW	ARH
11/	Е	24/05/21	DRAFT FOR COMMENT	NK
	F	11/06/21	DEVELOPMENT APPLICATION	ARH
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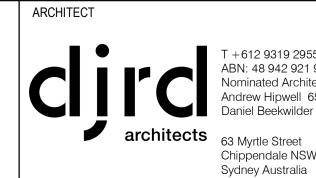
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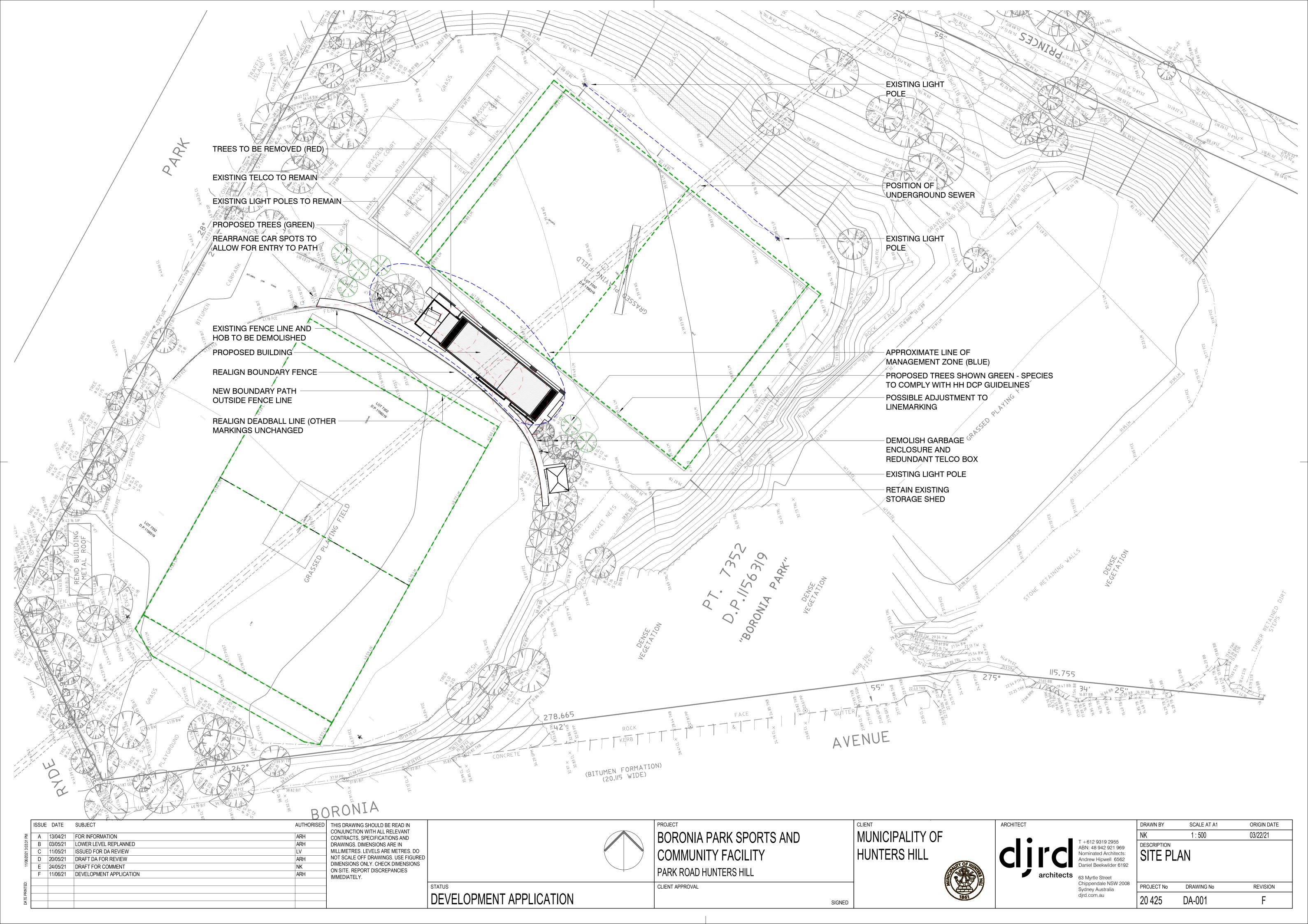
BORONIA PARK SPORTS AND COMMUNITY FACILITY
PARK ROAD HUNTERS HILL
CLIENT APPROVAL

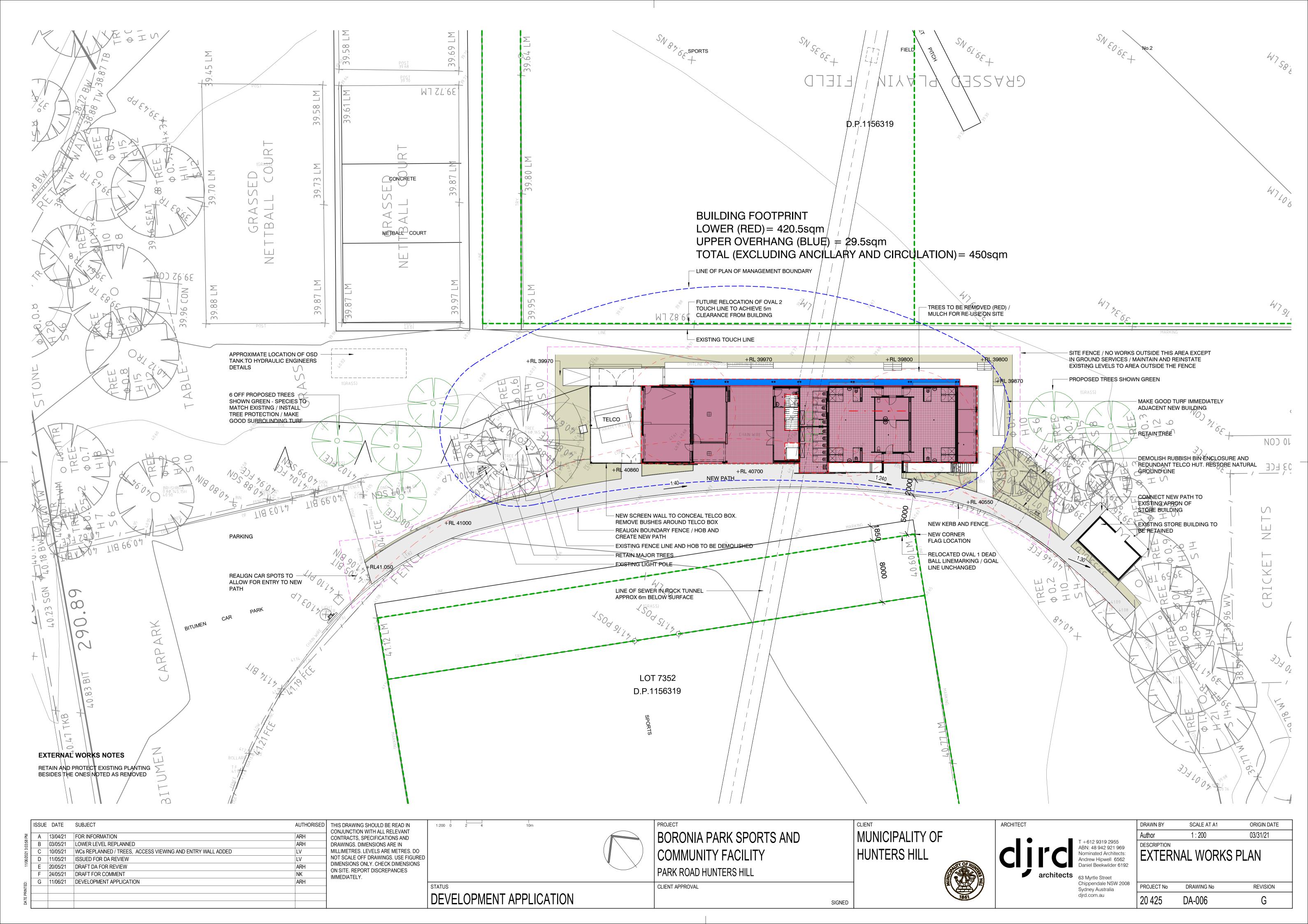
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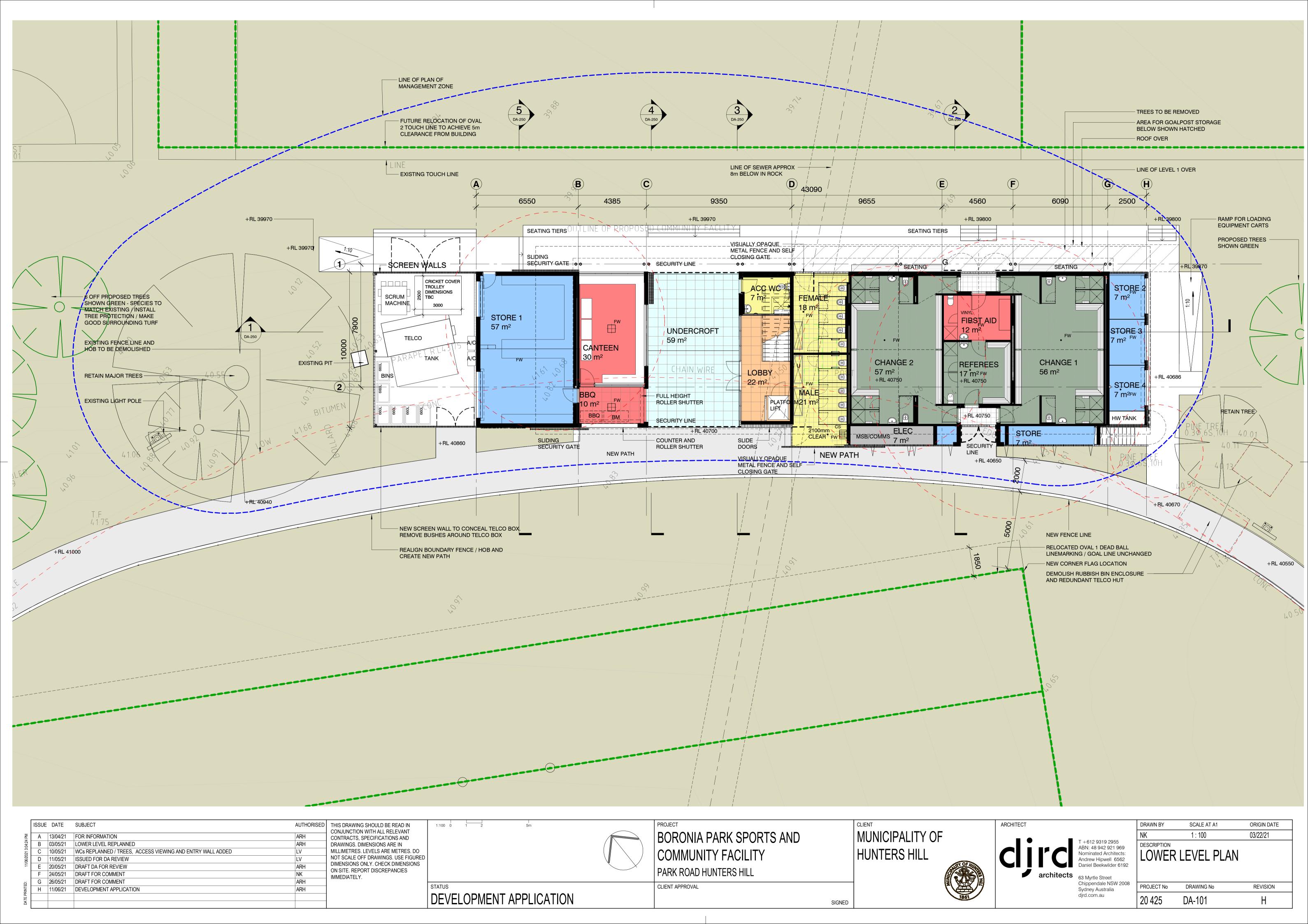
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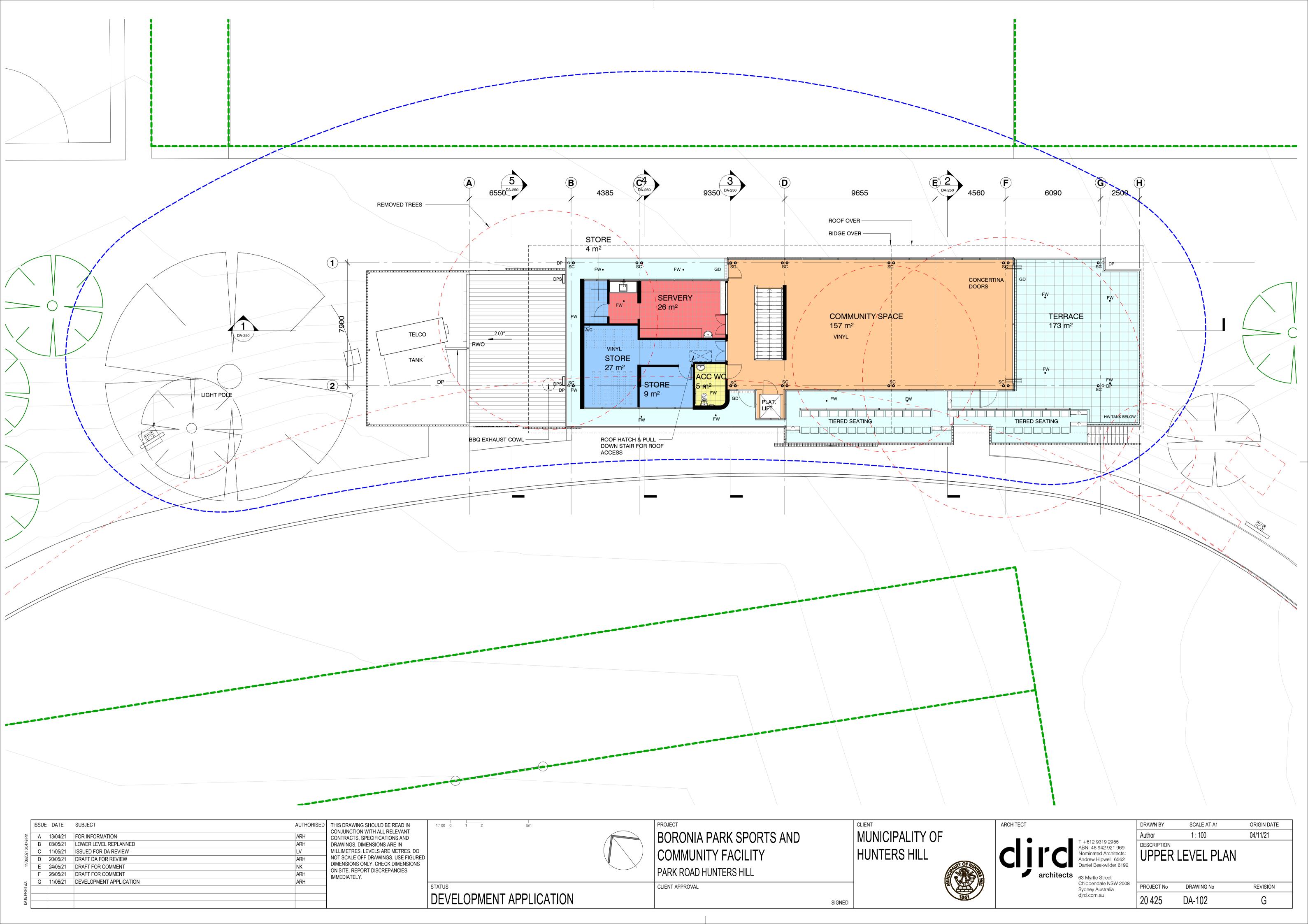


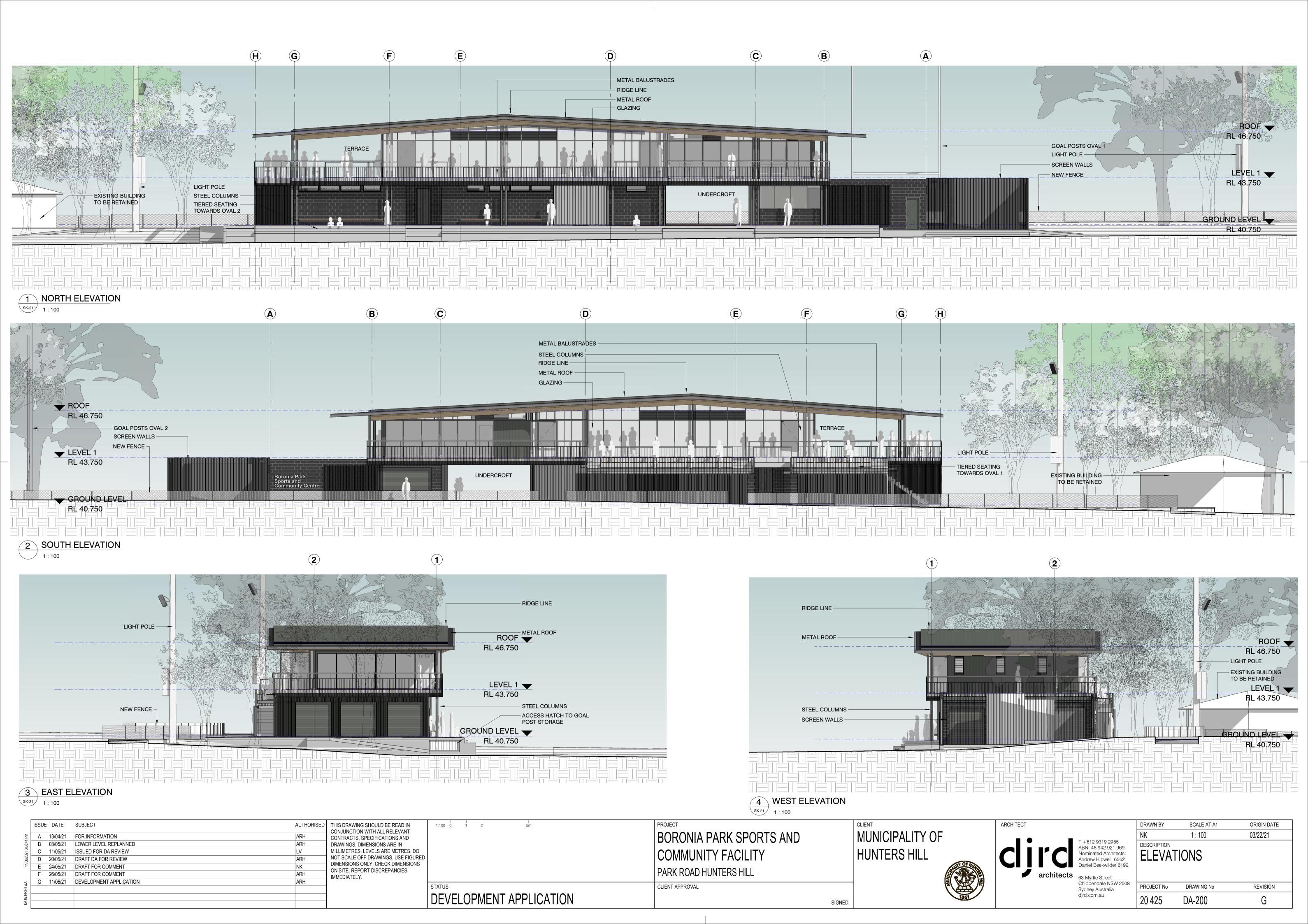
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	PLAN		
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Appendix B

Existing Public Transport Services



Multiple service types

Peak only

B-Line

Bus services in other regions

120 Route number

B Terminus

B-Line stop

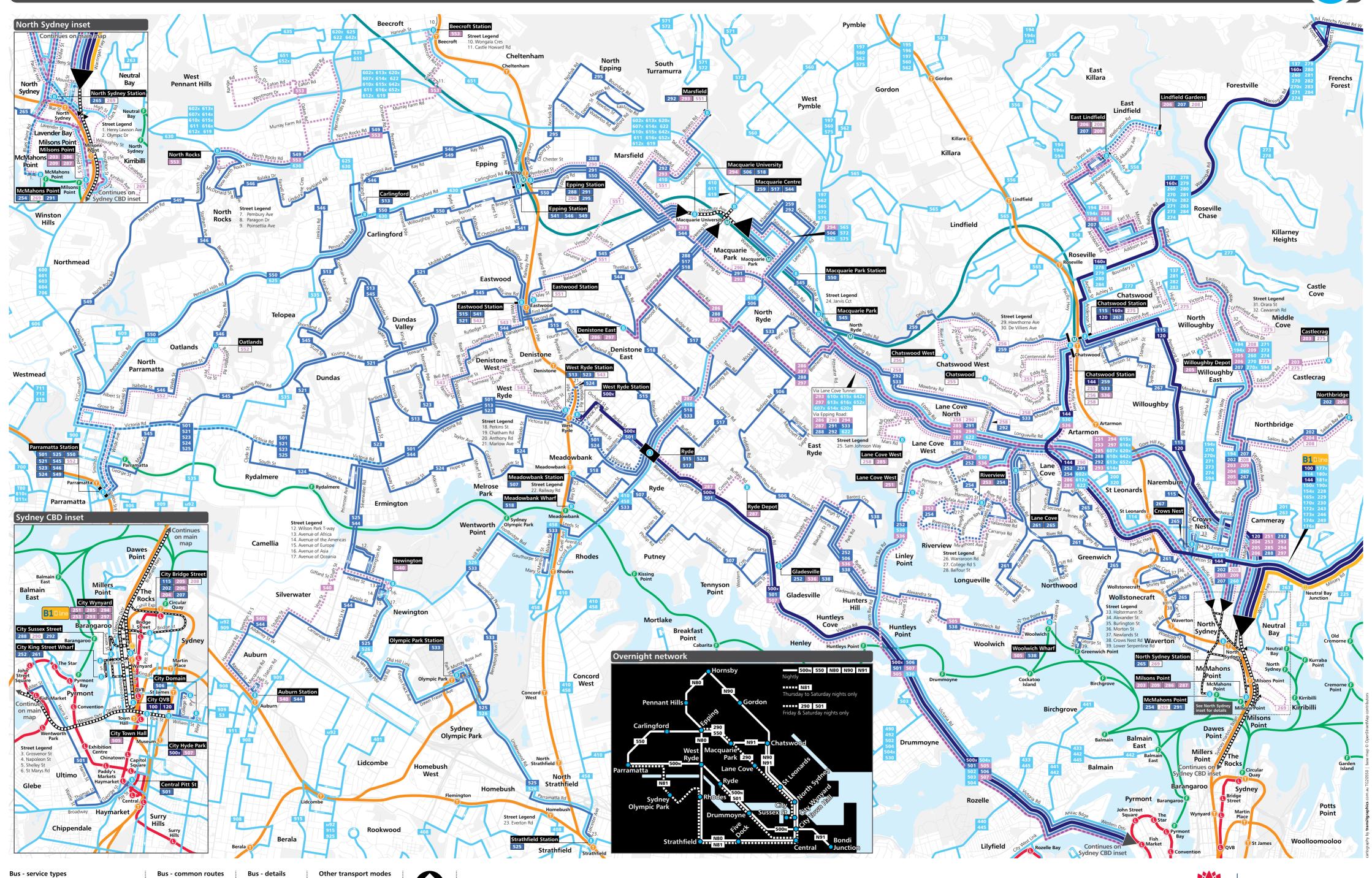
■ Metro line & station

Train line & station

─ Ferry route & wharf

Light rail line & stop





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Appendix C

Parking Survey



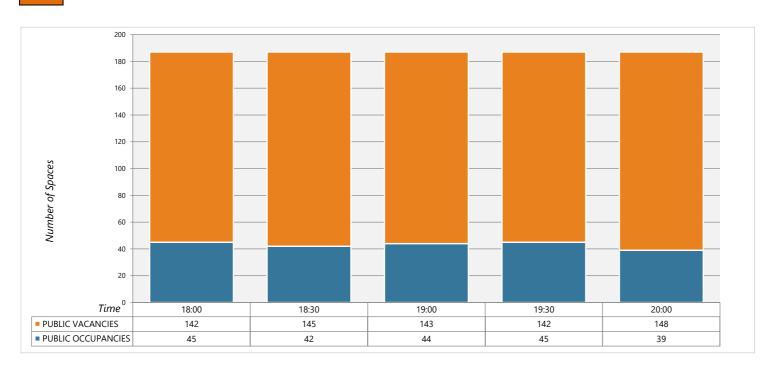


Parking Occupancy Survey

Date:	Tuesday, 11 May 2021
Location:	Boronia Park
GPS:	-33.82521687431668, 151.13851906627764
Weather:	Fine
Customer:	TTPA

Public							Parking Occupancy					
Parking (1/0)	Map Ref	Street	Section (GPS/Street Address if Off-Street Car Park)	Side	Restriction	Capacity	18:00	18:30	19:00	19:30	20:00	
1		Augustine St	Everard St to Ryde Rd	W	Unrestricted	7	3	4	4	4	4	
1		Augustine St	Ryde Rd to Everard St	Е	Unrestricted	8	6	5	5	5	5	
1		Ryde Rd	Augustine St to Farnell St	S	Unrestricted	7	0	0	0	0	0	
1		Ryde Rd	Farnell St to Park Rd	N	Unrestricted	7	0	0	0	0	0	
1		Boronia Ave	Ryde Rd to End	N	Unrestricted	25	4	5	5	5	5	
1		Park Rd	Ryde Rd to Princes St	W	Unrestricted	7	5	4	4	5	4	
1		Park Rd	Ryde Rd to Princes St	W	Unrestricted	13	4	3	5	5	5	
1		Park Rd	Ryde Rd to Princes St	W	Unrestricted	2	0	0	0	0	0	
1		Park Rd	Princes St to Property 54	W	Unrestricted	13	2	1	1	1	0	
1		Park Rd	Property 54 to Princes St	Е	12-Hour Parking	20	3	2	2	2	2	
1		Park Rd	Princes St to Ryde Rd	E	Unrestricted	20	2	3	4	4	2	
1		Princes St	Farnell St to Park Rd	N	Unrestricted	7	4	5	4	4	4	
1		Princes St	Park Rd to Farnell St	S	Unrestricted	10	6	6	6	6	6	
1		Boronia Park Reserve Car Park		E	Unrestricted	39	6	4	4	4	2	
1		Boronia Park Reserve Car Park		Е	Disabled Parking	2	0	0	0	0	0	
PUB	LIC CAPA	ACITY					187	37 187 187 187		187		
PUBLIC	OCCUP	ANCIES					45	42	44	45	39	
PUBL	IC VACAI	NCIES					142	145	143	142	148	
PUBLIC	% occui	PANCIES					24%	22%	24%	24%	21%	

Available on-site parking





Parking Occupancy Survey

Date:	Saturday, 8 May 2021
Location:	Boronia Park
GPS:	-33.82521687431668, 151.13851906627764
Weather:	Fine
Customer:	TTPA

Public Parking Map Re (1/0)		ap Ref Street	Section (GPS/Street Address if Off-Street Car Park)				Parking Occupancy					
	Map Ref			Side	Restriction	Capacity	10:00	10:30	11:00	11:30	12:00	
1		Augustine St	Everard St to Ryde Rd	W	Unrestricted	7	2	2	3	3	2	
1		Augustine St	Ryde Rd to Everard St	Е	Unrestricted	8	2	3	4	3	2	
1		Ryde Rd	Augustine St to Farnell St	S	Unrestricted	7	0	0	0	0	0	
1		Ryde Rd	Farnell St to Park Rd	N	Unrestricted	7	0	0	0	0	0	
1		Boronia Ave	Ryde Rd to End	N	Unrestricted	25	2	4	3	4	3	
1		Park Rd	Ryde Rd to Princes St	W	Unrestricted	7	2	2	2	4	2	
1		Park Rd	Ryde Rd to Princes St	W	Unrestricted	13	3	2	3	2	2	
1		Park Rd	Ryde Rd to Princes St	W	Unrestricted	2	0	0	0	0	0	
1		Park Rd	Princes St to Property 54	W	Unrestricted	13	1	1	1	1	0	
1		Park Rd	Property 54 to Princes St	Е	12 Hour Parking	20	2	1	1	1	1	
1		Park Rd	Princes St to Ryde Rd	Е	Unrestricted	20	1	2	3	3	1	
1		Princes St	Farnell St to Park Rd	N	Unrestricted	7	2	2	3	2	3	
1		Princes St	Park Rd to Farnell St	S	Unrestricted	10	3	4	4	4	4	
1		Boronia Park Reserve Car Park		Е	Unrestricted	39	2	3	3	2	1	
1		Boronia Park Reserve Car Park		Е	Disable Parking	2	0	0	0	0	0	
PUB	LIC CAPA	CITY					187	187	187	187	187	
PUBLIC	OCCUP	ANCIES					22	26	30	29	21	
PUBL	IC VACA	NCIES					165	161	157	158	166	
PUBLIC	% occui	PANCIES					12%	14%	16%	16%	11%	



