

Technical Note

Project Code: W149950 Project Name: Muriel Court Structure Plan TIA Addendum

Date: 13/08/2018 **Version** B (draft)

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SUBJECT: TIA Addendum Report

Page 1 of 12, plus attachments

1. Introduction

This technical note report was commissioned by the City of Cockburn, to document a review of the Traffic Impact Assessment for the Muriel Court Structure Plan due to the revised traffic generation based on the now expected lot yields for the proposed structure plan. The revised information to be provided as part of this scope of works is to be an addendum to the original traffic impact assessment undertaken in 2008.

2. Methodology

The broad methodology of this assessment to revise the 2008 traffic assessment included the following steps:

- Calculation of the expected traffic generation of the structure plan road network based on the expected lot development yield
- Assignment of the expected trip generating of the above lot yield onto the road network proposed with the new road link connection to North Lake Road
- Report back to the City of Cockburn as to the implications of the revised traffic volumes expected due to the above changed lot yields
- Provide options for Muriel Court for the limitation of full movement intersections to allow the maximisation of a boulevard treatment along its length
- Determine appropriate intersection controls along Muriel Court as determined by the above tasks
- Undertake as assessment of the new road link from the structure plan area to North Lake Road, west of Kentucky Court.

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3. Preliminary Analysis

The preliminary assessment was based on a review of the now expected lot yield of the structure plan as provided by the City of Cockburn in April 2018. The lot yield information provided is summarised below.

Advice from the City of Cockburn was that the lot yield is to be derived from a 75% potential yield, based on the current structure plan shown at Attachment 1. The advice provided by the City was that the following minimum areas in Table 1 should be applied to the current proposed residential densities.

Table 1: Minimum Land Area for 75% Yield

Density	Min. Land Area (Lot) to Yield 75%	Land Area to Yield 100%
R25	466m²	350m²
R40	293m²	220m²
R60	200m²	150m²
R80	160m²	120m²
R160	160m²	120m²

Source: City of Cockburn

The above minimum lot yields were applied to the expected development densities for the same traffic generation zones from the previous traffic impact assessment undertaken by Uloth & Associates in 2008 (and shown as Attachment 2).

The resulting traffic generation for each of the zones in comparison to the previous traffic impact assessment is shown below in Table 2. The traffic generation rates for each of the densities are further summarised below in Table 3.

Table 2: Traffic Generation Rate v Density

Density	Traffic Generation Rate per dwelling (vpd)
R25	8
R40	6
R60	6
R80	5
R160	5

Source: Uloth & Associates

Table 3: STRUCTURE PLAN Traffic Generation

Zone	Original TIA	Addendum TIA	Difference (%)
Zone 1	930	1550	+66%
Zone 2	680	890	+31%
Zone 3	350	1320	+278%
Zone 4	1360	1540	+14%
Zone 5	550	870	+59%
Zone 6	1200	1980	+65%
Zone 7	1910	2520	+32%
Zone 8	3740	1980	-47%

Version: 2, Version Date: 15/08/2028



Zone	Original TIA	Addendum TIA	Difference (%)	
TOTAL STRUCTURE PLAN	10720	12660	+18%	

Source: Uloth & Associates

Overall the new lot yields are expected to generate approximately 12,700 trips per day compared to the previous report which was expected to generate approximately 10,700 trips per day. This is an increase of approximately 18%.

The revised expected trip generation was assigned to the current proposed road network for the structure plan with the origins based on the above zone traffic generation and the destinations based on the previous traffic impact assessment report traffic volumes expected for the external links in the model prepared for the previous study on a pro-rata basis. These traffic volumes are summarised below in Table 4.

Table 4: External Trips

External Road	Original TIA	Addendum TIA
Berrigan Dr W	1740	2050
Elderberry Dr	210	250
Berrigan Dr E	2680	3160
North Lake Rd W	1810	2140
Poletti Rd	110	130
Northlake Rd (S,W)	4170	4920
TOTAL	10720	12660

The revised expected traffic flows on the internal road links along Muriel Court is shown in Attachment 3. These are not significantly different to the previously calculated traffic flows as shown In Attachment 4. Traffic volumes are expected to vary from 3,600 vpd near the Semple Court intersection, 2,400 vpd near the central section of Muriel Court to approximately 3,100 vpd near Kentucky Court. The comparison to the previous traffic study is shown below in Table 5.

Table 5: Muriel Court Traffic Volumes

Section	Original TIA	Addendum TIA
Muriel Ct W	3,250	3,600
Muriel Ct Central	2,980	2,400
Muriel Ct W	1,850	3,100

With the increase in traffic generation for the whole structure plan area anticipated to be approximately 18%, the traffic is expected to be slightly lower in the middle section of Muriel Court in comparison to the previous traffic report. This is a function of the location of the different densities now expected in the structure plan and the proximity the higher densities located closer to the extremities of the subject site and thus there is expected to be less traffic in the centre of the site.

Based on the expected revised traffic flows on Muriel Court of 2,400 to 3,600 vpd, the proposed road typologies as shown in Attachment 5 will generally provide the same functionality as previously expected. However, based on the rationalisation of the number of full movement intersections along Muriel Court, the proposed cross section is recommended to be modified to facilitate U-turn movements to and from proposed left-in/left-out intersections, this is discussed in more detailed below.

Muriel Court has 15 intersections proposed along its 770m length between the proposed roundabout at the new Semple Court/Muriel Court intersection and the eastern extremity of Muriel

Version: 2, Version Date: 15/08/2028



Court, near its proposed continuation into Kentucky Court. None of these are proposed to be 4-way intersections with each intersection proposed to be a T-junction. The average intersection spacing is expected to be approximately 51m between intersections with off-set to T-junctions on the opposite side of Muriel Court ranging from 27m to 40m. If all intersections were to become full movement intersections this would have detrimental road safety and operational effects due to the number of movements to and from these intersections through the proposed median treatment along Muriel Court. In addition to this, the City of Cockburn desire that Muriel Court become a boulevard with a long median length, maximising landscape planting.

Based on an assessment of the expected traffic volumes on side roads intersecting with Muriel Court three options have been recommended.

3.1 Option 1

This option has two pairs of full movement intersections, one near the intersection of Muriel Court/Semple Court and the local centre (Lots 50/51 and Lots 7/30 roads), to facilitate traffic movement in and around the local centre, and the other near the middle of Muriel Court (Lots 56/57 and Lots 10/11 roads), to facilitate a north-to-south traffic movement through the structure plan.

These intersections are proposed to have a left/right stagger to facilitate north-to-south movements across Muriel Court through the use of left turns. A left/right stagger would require vehicles to undertake a less desirable right turn from the side road across and into Muriel Court. This is slightly less safe than the recommended right/left stagger. These intersections are separated by approximately 40m at the centre line of the intersections, this being the minimum for intersections of this nature as recommended in Table 5 from Appendix 3 in Liveable Neighbourhoods.

The eastern end of Muriel Court is proposed to have two full movement T-junctions one near the eastern end of Muriel Court (through Lot 65) and the other slightly to the west between Lots 20/80. This will facilitate movements to and from North Lane Road via Kentucky Court for lots in and around the large Lot 1 Verna Court.

The road between Lots 20/80 is expected to carry approximately 750 vpd and will provide connection through to the new link from the structure plan onto North Lake Road between Lots 52/55 North Lake Road. This new link is expected to carry approximately 800 vpd to and from the structure plan at its northern end and approximately 3,800 vpd a the southern end, due to the commercial strip traffic near the intersection with North Lake Road.

The above is shown in Attachment 6.

3.2 Option 2

To reduce the attractiveness of the new link road for structure plan traffic, an alternate intersection arrangement is shown in Attachment 7. This has the full movement intersection located between Lots 21/100. This will then be offset from the intersection through Lot 65 by approximately 47m, thus satisfying Liveable Neighbourhoods requirements. The other accesses along Muriel Court remain the same as Option 1.

3.3 Option 3

This option is similar to Option 1, with the exception that the full movement intersection near the eastern end of Muriel Court is now proposed between Lots 101/102 as shown at Attachment 8. This



will provide a left/right stagger with the intersection through Lot 65 on the north side of Muriel Court but will have a stagger of approximately 20m.

This option may not be able to provide a median between these two roads and there may be a small degree of corner cutting as vehicles travel between these two intersections. This option would further reduce the attractiveness of the new link road onto North Lake Road for structure plan traffic.

3.4 Muriel Street Cross-section

The current proposed Muriel Court cross-section has the a 24.4m wide road reserve (see cross-section at Attachment 5).

The rationalisation of the number of full movement intersections along Muriel Court will lead to the creation of nine (9) left-in/left-out type T-junctions with six (6) full movement T-junctions. The number of left-in/left-out intersections will encourage the use of median openings for U-turn movements as residents undertake U-turns to drive to and from the left-in/left-out T-junctions.

The current proposed cross-section will prove approximately 11.4m width between the on-road cycle lanes to undertake U-turns. To increase the ability for most passenger vehicles to undertake U-turns it is recommended that the median with be increased from 4.4m to 4.8m with a narrowing of the parking bay width on each side of the road from 2.5m to the general minimum recommended in AS/NZS 2890.1:2004 of 2.3m. This will allow a 11.8m width between cycle lanes for passenger vehicles to undertake U-turns. This proposed cross-section would be as per Attachment 9.

The median openings for the intersections are recommended to be basic openings with no right or left turn pockets provided in either the median or road side.

4. Detailed Analysis

A more detailed assessment was undertaken for the key intersections along Muriel Court and for the proposed new road link intersection with North Lake Road. Details of these assessments are discussed in more detail below.

4.1 Muriel Court

The intersection types along Muriel Court are all proposed to be T-junctions and either be restricted to left-in/out (for nine intersections) or allow full movements (for six intersections). All these intersections are recommended to be priority controlled, with Muriel Court being the priority road. To examine if this type of control would provide an acceptable level of service the intersection with the highest expected traffic flows was assessed utilising SIDRA Intersection.

Based on the maximum expected traffic flows on Muriel Court of approximately 3,400 vpd near Semple Court and the largest side road traffic flow estimated at approximately 750 vpd for the side road near the eastern end of Muriel Court. On an hourly basis this works out to approximately 350 vph in Muriel Court and 75 vph for the side road. The expected level of service for this traffic flow and the basic intersection layout discussed above is shown below in Table 1.



Table 1: Typical Peak Performance – Typical Muriel Court full movement intersection

	Deman	d Flows	Cap.	Deg. Satn	Average Delay	Level of Service	95% Back of Queue	
	Total veh/h	HV %	Veh/h	v/c	Sec		Veh	Dist m
			So	outh: New Roo	ad			
Lane 1	39	2.0	1375	0.028	5.1	LOS A	0.1	0.7
Approach	39	2.0		0.028	5.1	LOS A	0.1	0.7
			E	ast: Muriel C	ł			
Lane 1	171	2.0	1918	0.089	0.3	LOS A	0.0	0.0
Approach	171	2.0		0.089	0.3	NA	0.0	0.0
			٧	Vest: Muriel C	t			
Lane 1	171	2.0	1882	0.091	0.4	LOS A	0.1	0.6
Approach	171	2.0		0.091	0.4	NA	0.1	0.6
Intersection	380	2.0		0.091	0.9	NA	0.1	0.7

Based on the maximum expected traffic flows, the intersection is expected to operate at a level of service A in peak periods with priority control. There is expected to be minimal queuing and delays on all approaches. With this minimal queuing and delays, U-turns will be facilitated and thus not impeded.

4.2 North Lake Road

The new link road from the structure plan area through the commercial strip fronting North Lake Road is proposed to intersect with North Lake Road at a full movement intersection. The type of control and cross-section of this new road link has yet to be determined.

As previously discussed, this new link is expected to draw traffic from a combination of structure plan traffic (approximately 800vpd at its northern end) and the commercial strip fronting North Lake Road (approximately 3,000vpd) for a total of approximately 3,800vpd near the intersection with North Lake Road.

The expected traffic generation for the commercial strip has been based on the following assumed development scenario:

Lots 53/54 Mixed Business & R160

Lot 55 Fire Station

Lots 52/81 Mixed Business & R160

Lots 75/76 Self StorageLot 74 Medical Centre

Lots 18/53/73 Mixed Business & R160

The Mixed Business & R160 use was assumed to be similar to the development on the corner of North Lake Road and Kentucky Court. This development consisted of 77 residential units with 373m² of commercial floorspace consisting of office/restaurant uses. This type of development was applied on a pro-rata basis for the vacant lots to derive expected traffic generation.

Traffic flows for North Lake Road were provided by the City of Cockburn and is shown at Attachment 10. This data has assumed that North Lake Road has been extended east over the Kwinana Freeway with a new bridge linking to Armadale Road, together with the expansion of



Cockburn Gateway Shopping Centre to 90,000sqm. Based on these assumptions, approximately 38,270 vpd are expected to utilise North Lake Road near the new intersection of the new link road and North Lake Road.

With an expected peak hour factor of 9% for the traffic flows on North Lake Road and a 10% factor for traffic flows on the new link road, the expected performance of this new intersection in the AM and PM peak periods is shown in the Table 2 and Table 3. The 7m wide median in North Lake Road will allow vehicles turning right from the new link road to perform this manoeuvre in two movements. In the AM peak, the intersections critical movement is the right turn from the new link road and this is expected to have a level of service E with vehicles typically waiting up to 47s in the median to turn right. For the right turn, the overall delay is expected to be approximately 65s. The queue length is expected to be one to two vehicles.

Table 2: New Link Intersection AM Peak Performance

	Demai	nd Flows	Cap. DOS	Average		95% Back of Queue		
	Total	HV	Cap.	DO2	Delay	Level of Service		Dist
	veh/h	%	veh/h	v/c	sec	00.7.00	Veh	m
			Ec	ast: North Lake	Rd		•	
Lane 1	1120	6.0	1877	0.597	0.1	LOS A	0.0	0.0
Lane 2	1120	6.0	1877	0.597	0.1	LOS A	0.0	0.0
Lane 3	105	2.0	361	0.291	16.7	LOS C	0.9	6.7
Approach	2345	5.8		0.597	0.9	NA	0.9	6.7
			No	orthEast: Media	n RT			
Lane 1	100	2.0	180	0.554	46.6	LOS E	3.2	22.5
Approach	100	2.0		0.554	46.6	LOS E	3.2	22.5
				North: New Lin	k			
Lane 1	80	2.0	589	0.136	9.9	LOS A	0.5	3.6
Lane 2	100	2.0	276	0.362	18.8	LOS C	1.3	9.5
Approach	180	2.0		0.362	14.8	LOS B	1.3	9.5
			W	est: North Lake	Rd			
Lane 1	60	2.0	1831	0.033	6.4	LOS A	0.0	0.0
Lane 2	603	6.0	1877	0.321	0.0	LOS A	0.0	0.0
Lane 3	603	6.0	1877	0.321	0.0	LOS A	0.0	0.0
Lane 4	5	2.0	62	0.081	63.0	LOS F	0.2	1.3
Approach	1270	5.8		0.321	0.6	NA	0.2	1.3
Intersection	3895	5.5		0.597	2.6	NA	3.2	22.5

In the PM peak the critical right turn from the new link road is expected to operate at level of service F, with delays of approximately 50 seconds waiting to turn right into the median from the new link. For the right turn, the overall delay is expected to be approximately 62s. The queue length is expected to be two vehicles.

Version: 2, Version Date: 15/08/2028



Table 3: New Link Intersection PM Peak Performance

	Demai	nd Flows	Can	DOS	Average		95% Back of Queue	
	Total	HV	Cap.	DOS	Delay	Level of Service	Veh	Dist
	veh/h	%	veh/h	v/c	sec		ven	m
			E	ast: North Lake	Rd		•	
Lane 1	688	6.0	1877	0.366	0.0	LOS A	0.0	0.0
Lane 2	688	6.0	1877	0.366	0.0	LOS A	0.0	0.0
Lane 3	105	2.0	156	0.672	43.8	LOS E	2.3	16.0
Approach	1480	5.7		0.672	3.2	NA	2.3	16.0
			No	orthEast: Media	n RT			
Lane 1	70	2.0	490	0.143	11.5	LOS B	0.8	5.4
Approach	70	2.0		0.143	11.5	LOS B	0.8	5.4
				North: New Lin	k			
Lane 1	110	2.0	308	0.358	19.8	LOS C	1.4	10.0
Lane 2	70	2.0	118	0.594	50.2	LOS F	2.1	14.7
Approach	180	2.0		0.594	31.6	LOS D	2.1	14.7
			w	est: North Lake	Rd			
Lane 1	110	2.0	1831	0.060	6.4	LOS A	0.0	0.0
Lane 2	1033	6.0	1877	0.550	0.1	LOS A	0.0	0.0
Lane 3	1033	6.0	1877	0.550	0.1	LOS A	0.0	0.0
Lane 4	5	2.0	210	0.024	23.2	LOS C	0.1	0.5
Approach	2180	5.8		0.550	0.5	NA	0.1	0.5
Intersection	3910	5.5		0.672	3.1	NA	2.3	16.0

This right turn movement from the new link road into North Lake Road movement is thus the critical movement. To address this delay, the option of installing traffic signals is available. However, the installation of traffic signals will make this new link road very attractive for structure plan traffic and may provide a rat-run to avoid the nearby signalised intersection of North Lake Road/Kentucky Court.

Thus, to discourage structure plan traffic from this new link, it is not recommended to signalise this intersection.

In addition to this, the following Local Area Traffic Management (LATM) treatments are recommended to actively discourage structure plan traffic from using the link road:

- A raised plateau treatment at the intersection of the new link road and internal structure plan road
- Raised median in the structure plan road to limit movements to left-in/left-out to and from the new link road
- o Consider an access strategy similar to Muriel Court for the Kentucky Court extension to the eastern end of Muriel Court. Under this scenario, only a single intersection would have full turning movements, with two other intersections limited to left-in/left-out.

The above is schematically shown in Attachment 11.

With the expected traffic flows of close to 4,000 vpd near the intersection of North Lake Road, the link cross section is recommended to be similar to the Muriel Court cross section, but within a 20.0m road reserve with a median treatment. At the intersection of North Lake Road, the intersection

Version: 2, Version Date: 15/08/2028



treatment should include a left turn lane in place of verge that is typically provided elsewhere on this road. This is schematically shown at Attachment 12.

5. Modified Fire Station/Lot 55 Access

Another consideration is the impact of the proposed layout of the fire station on Lot 55 and the impact on the above predicted flows on the new link and at the intersection of North Link Road. The proposed crossover is shown in Attachment 13.

Regarding the traffic flows expected for the new link onto North Lake Road, the original GTA update report had assessed the traffic flow to be approximately 3,800 vehicles per day (vpd) with origins/destinations consisting of approximately:

- 2,300vpd from west of the new link (from Lots 18, 53, 73, 74, 81 & 52) using the Easement in Gross crossover on Lot 52
- 700vpd from east of the new link (comprising approximately 250vpd from the proposed fire station on Lot 55 and 450vpd from Lots 53 & 54 using the Easement in Gross crossover on Lot 55
- 800vpd from the internal Muriel Court LSP.

The left-in/left-out treatment for Lots 53/54 was originally expected to cater for approximately 450vpd.

With the proposed building footprint for the proposed fire station across Lot 55, the Easement in Gross will be required to be removed from the North Lake Road frontage of Lot 55, thus Lot 53/54 traffic will now be required to use the proposed LILO access direct onto North Lake Road and/or the signalised intersection at Midgegooroo Ave/Kentucky Ct to the east (and then use the Easement in Gross to travel to and from Lots 53/54 across Lots 16/17) or the proposed new intersection form by the intersection of the above new link and North Lake Road between Lot 55 and Lot 52 (to undertake U-turns after travelling east-west to then travel west-east and enter the Lot 53/54 crossover via a left turn).

With the above access arrangement, the expected traffic flows are:

- 2,300vpd from west of the new link (Lots 18, 53, 73, 74, 81 & 52) using the Easement in Gross crossover on Lot 52 NO CHANGE
- 250vpd from east of the new link (comprising approximately 250vpd from the proposed fire station on Lot 55) a REDUCTION of approximately 450vpd from Lots 53/54.
- 800vpd from the internal Muriel Court LSP NO CHANGE

The left-in/left-out treatment for Lots 53/54 should carry approximately 550 to 650vpd. Approximately 250 to 350vpd would utilise the Easement in Gross across Lots 16/17 to access the intersection at Midgegooroo Ave/Kentucky Ct.

In terms of the traffic volumes expected along the length of new link they would be in the order of:

3,350vpd North Lake Road to Easement in Gross crossover
 1,050vpd Easement in Gross crossover to Lot 55 crossover
 800vpd Lot 55 crossover to end of new link road



With the expected traffic volumes near North Lake Road (3,350vpd) and size of vehicles accessing the fire station crossover (tenders, appliances, trucks etc), the proposed carriageway widths recommended are:

North Lake Road to Lot 55 crossover

7.2m wide two-way pavement with 5.0m verges either side in a 17.2m wide road reserve (as per an Access Street C in Liveable Neighbourhoods)

See Figure 5.1 below.

Figure 5.1: North Lake Rd to Lot 55 Crossover Cross-section



As traffic volumes decrease north of the fire station access and type of vehicles become more small private motor vehicle the proposed crossover carriageway widths recommended are:

Lot 55 crossover to end of road

5.5m wide two-way pavement with 5.0m verges either side in a 15.5m wide road reserve (as per an Access Street D in Liveable Neighbourhoods). This could be further reduced by 1.0m along the POS frontage, subject to servicing requirements.

See Figure 5.2 below.

Figure 5.2: Lot 55 Crossover to end of New Link Cross-section





The original technical note in Sections 1 to 4 above, had assumed that a boulevard treatment would be required and allowed a 3.0m median along its entire length (North Lake Road to the end of the road), with 3.5m wide carriageways and 5.0m wide verges in a 20.0m wide road reservation, see Figure 5.3 below.

Figure 5.3: Original New Link Cross-section



6. Summary & Conclusions

6.1 Muriel Court Boulevard

- Compared to the original traffic impact assessment, the proposed 75% yield for the currently proposed structure plan layout will generate traffic flows of a similar quantum.
- Intersections are generally proposed to be left-in/left-out for Muriel Court with the exception of 3 or 4 locations where full movement are proposed.
- These intersections are anticipated to operate satisfactorily as proposed.
- The median is recommended to be widened from 4.4m to 4.8m to facilitate U-turns where possible.

6.2 New Link to North Lake Road

- This road is expected to carry approximately 800 vpd near its northern end to 3,800 vpd near North Lake Road.
- The proposed North Lake Road/Link Road intersection is expected to operate satisfactorily with the anticipated North Lake Road traffic flows that include the new bridge over the Kwinana Freeway.
- o Traffic signals are not recommended at the North Lake Road/Link Road intersection as this may encourage this new link to be used as a rat-run for structure plan traffic to avoid the signalised intersection at North Lake Road /Kentucky Court.
- Notwithstanding the above, LATM treatments are recommended at the northern end of the new link road near the public open space to discourage structure plan traffic from using this road. Also, an access/intersection strategy for Kentucky Court, similar to Muriel Court, is further recommended to ensure structure plan traffic is generally contained to the Muriel Court/Kentucky Court boulevard.



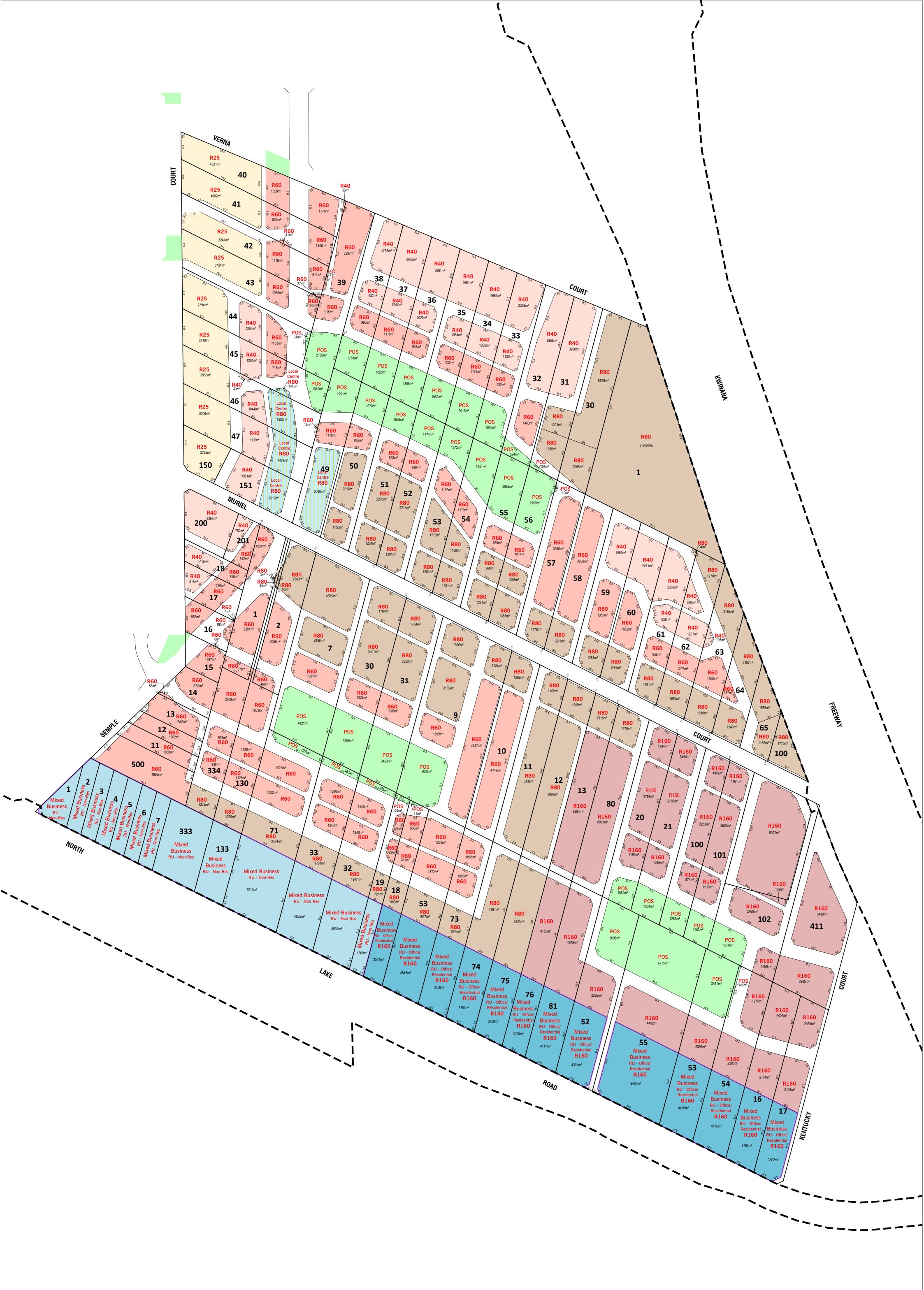
6.3 Modified Lot 55 Access for Fire Station

- Traffic volumes are expected to be approximately 3,350vpd near North Lake Road with approximately 2,300vpd coming from the Easement in Gross crossover on the western side of the new link.
- The left-in/left-out on Lots 53/54 is expected to cater for approximately 550 to 650 vpd.
- A road reserve of 17.2m would be possible near North Lake Road and this decreasing to 15.5m north of the Lot 55 crossover.

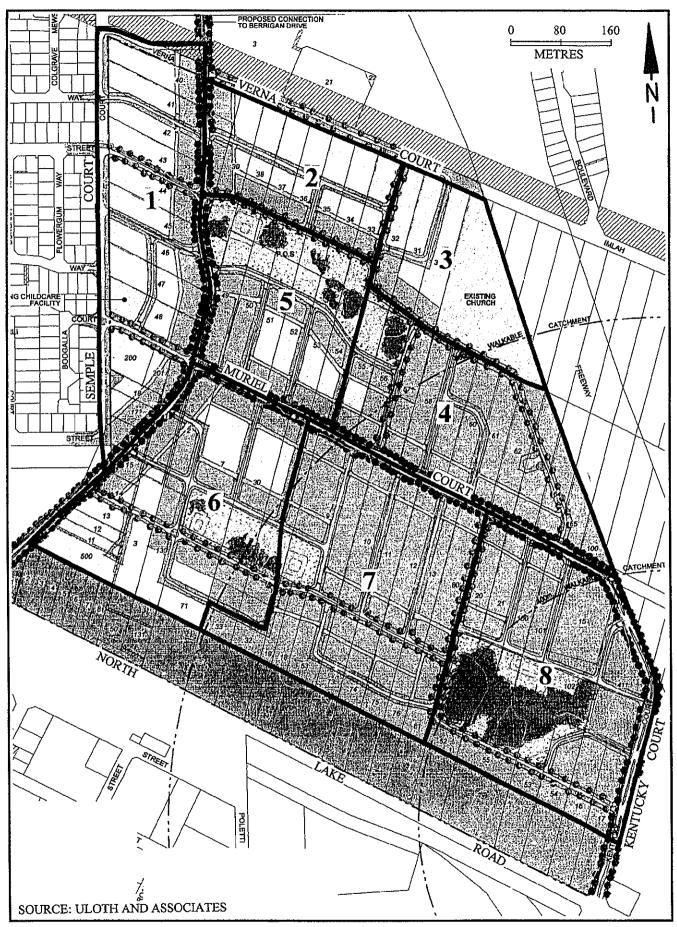
6.4 Conclusion

On the basis of the above, and the discussion provided in this report, the transport characteristics of the proposed amended structure plan are considered acceptable.







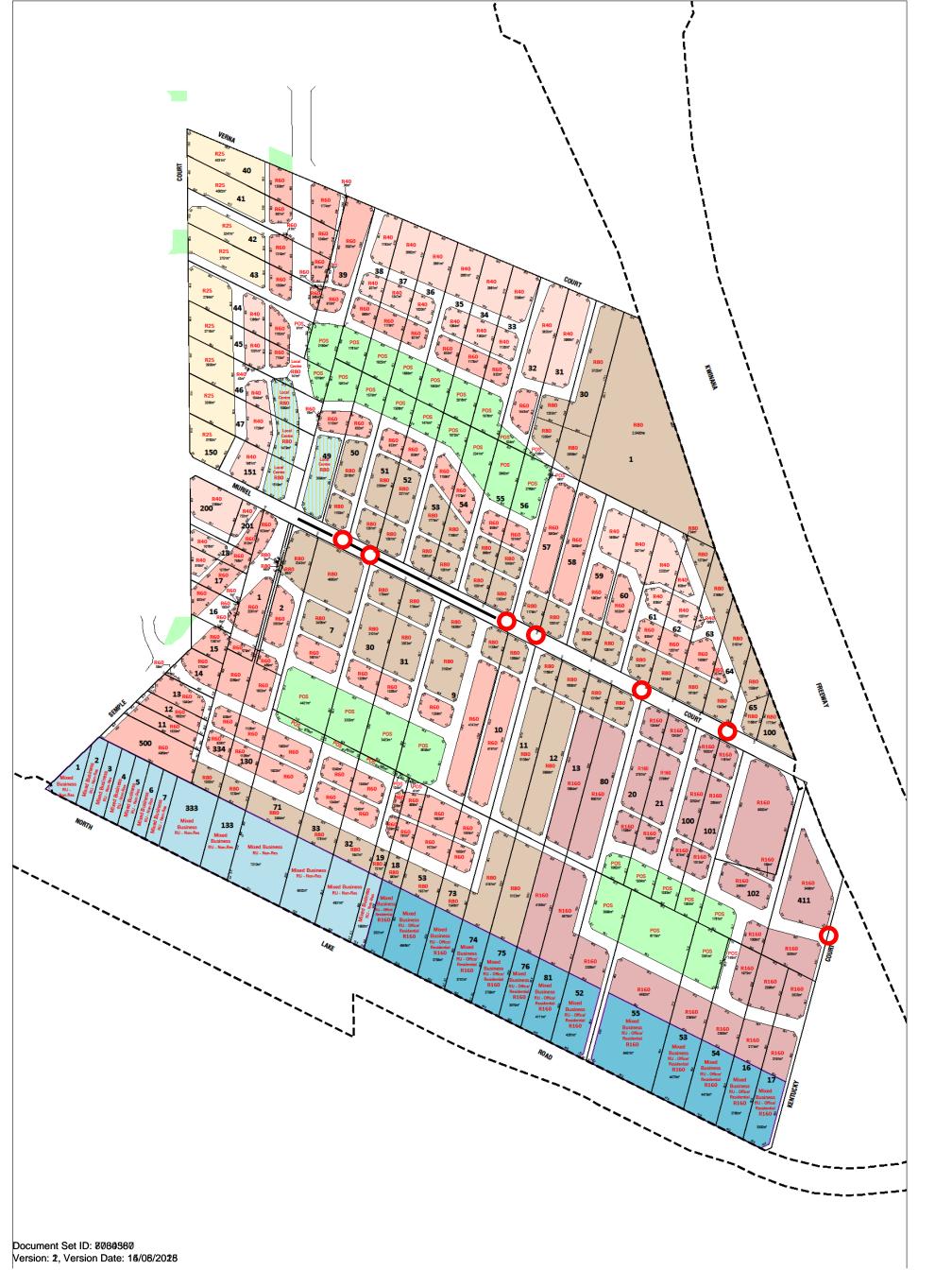


Future Traffic Zones
PROPOSED MURIEL COURT STRUCTURE PLAN

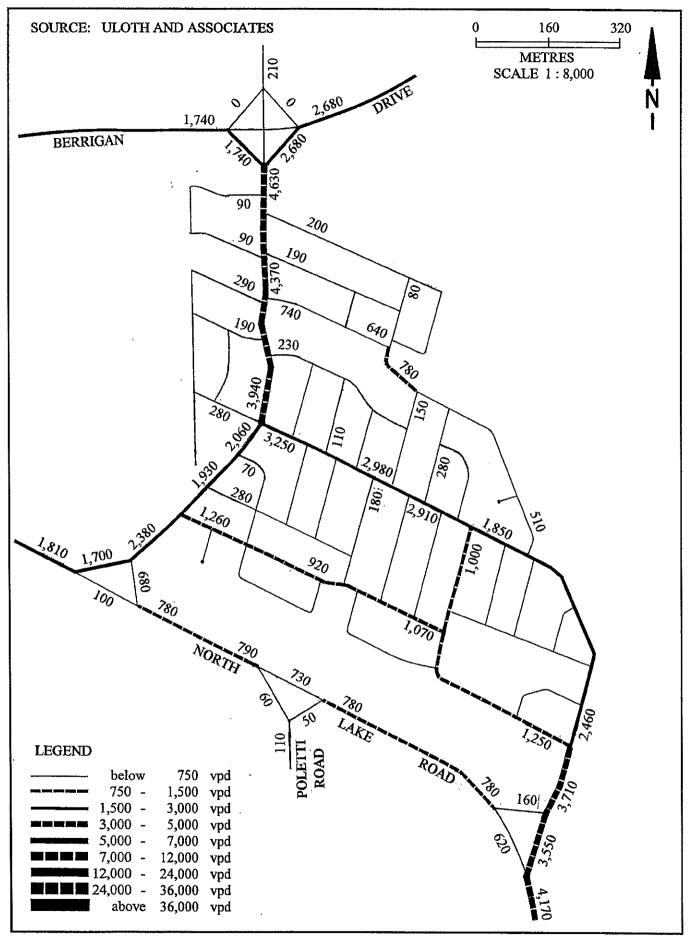
FIG. **A.**9









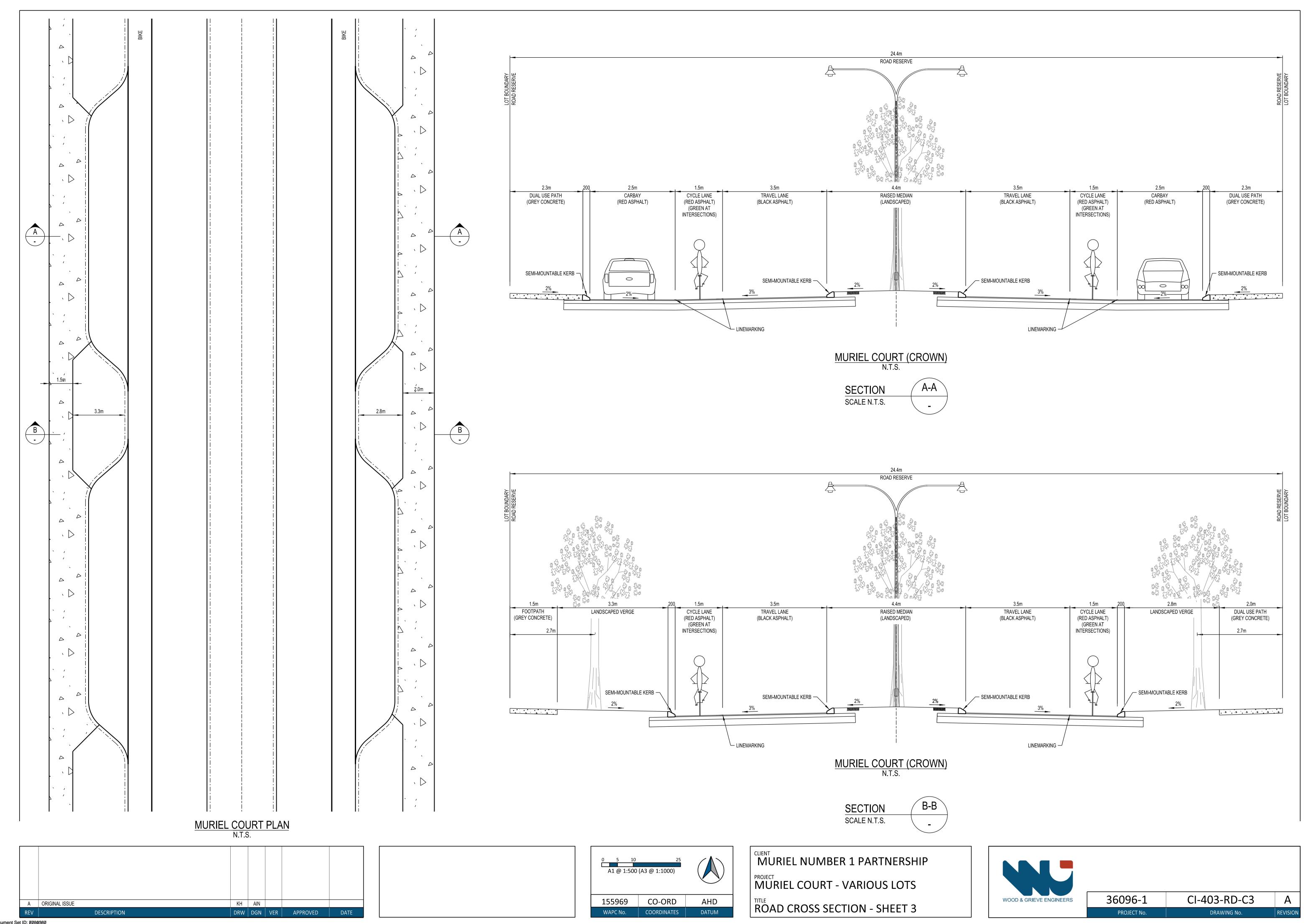


Future Development Traffic Flows

PROPOSED MURIEL COURT STRUCTURE PLAN

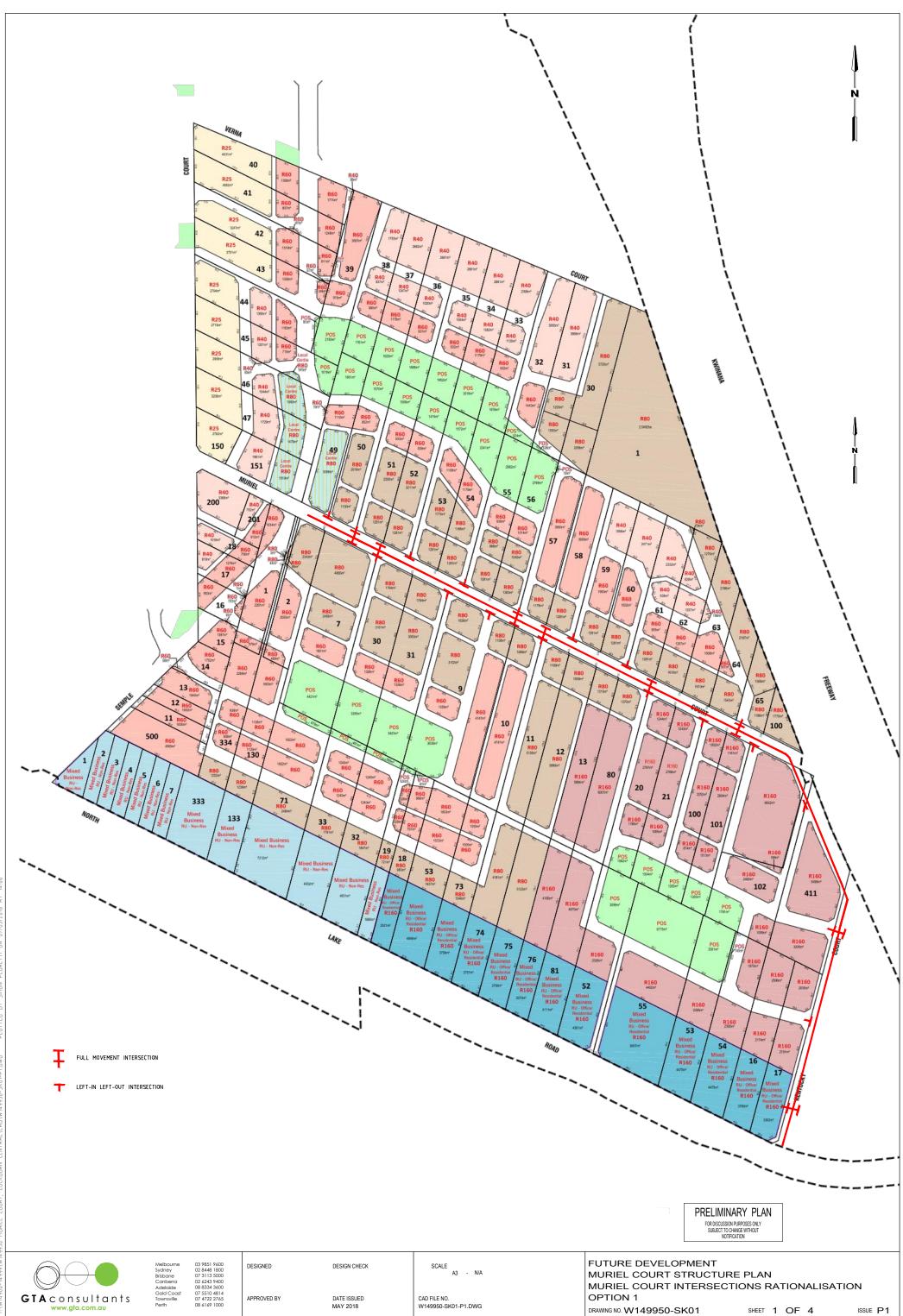
FIG. **A.10**





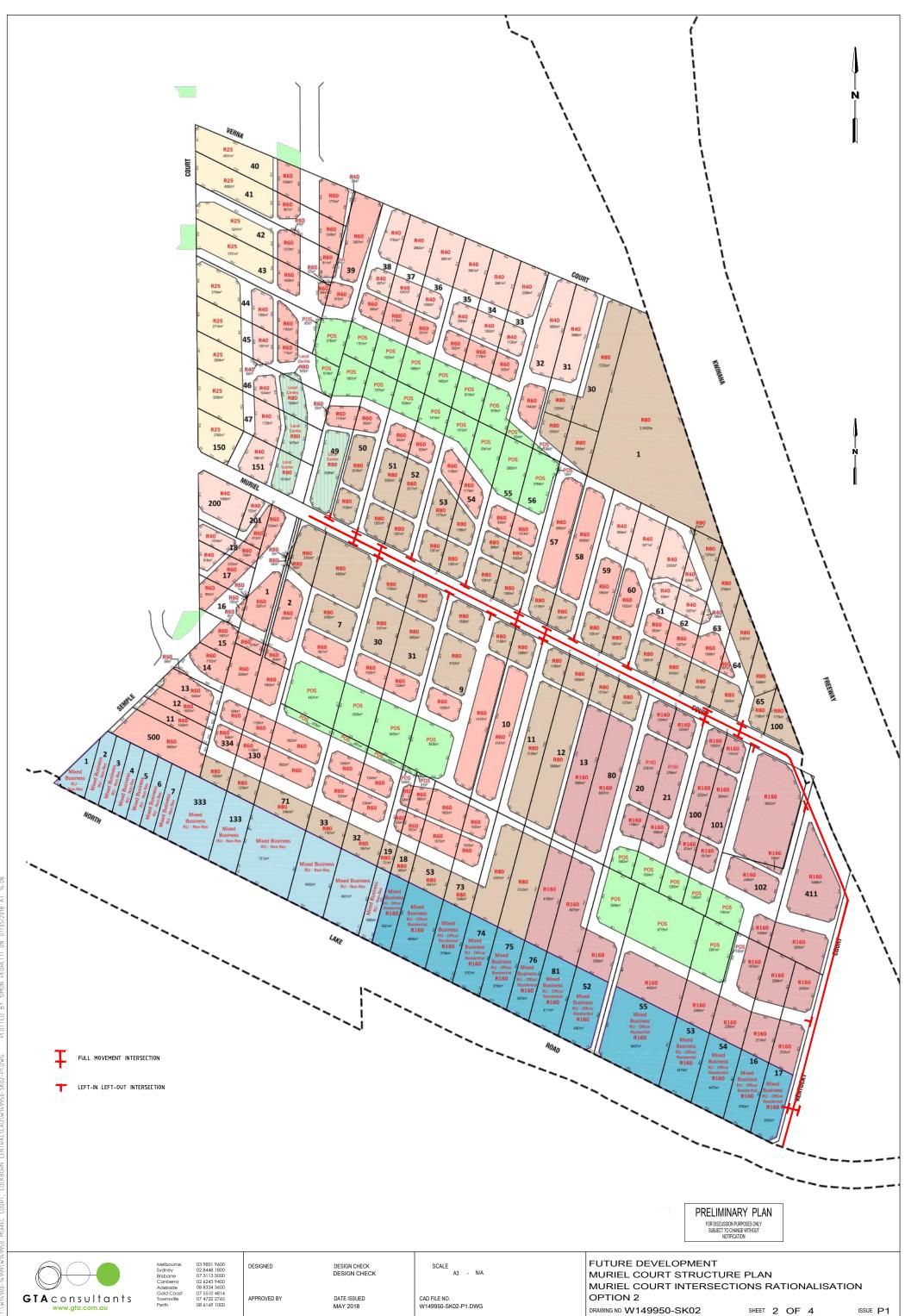
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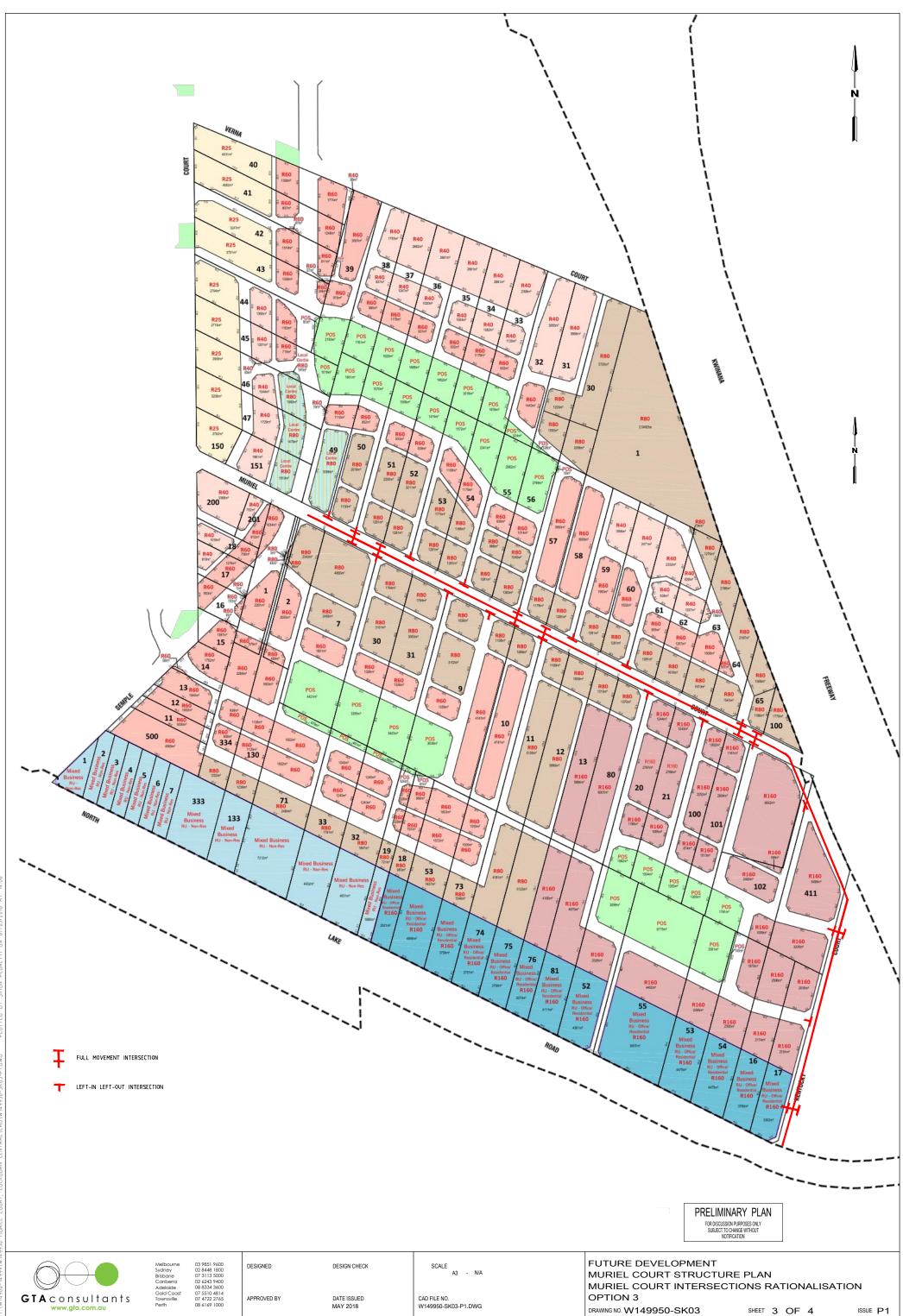
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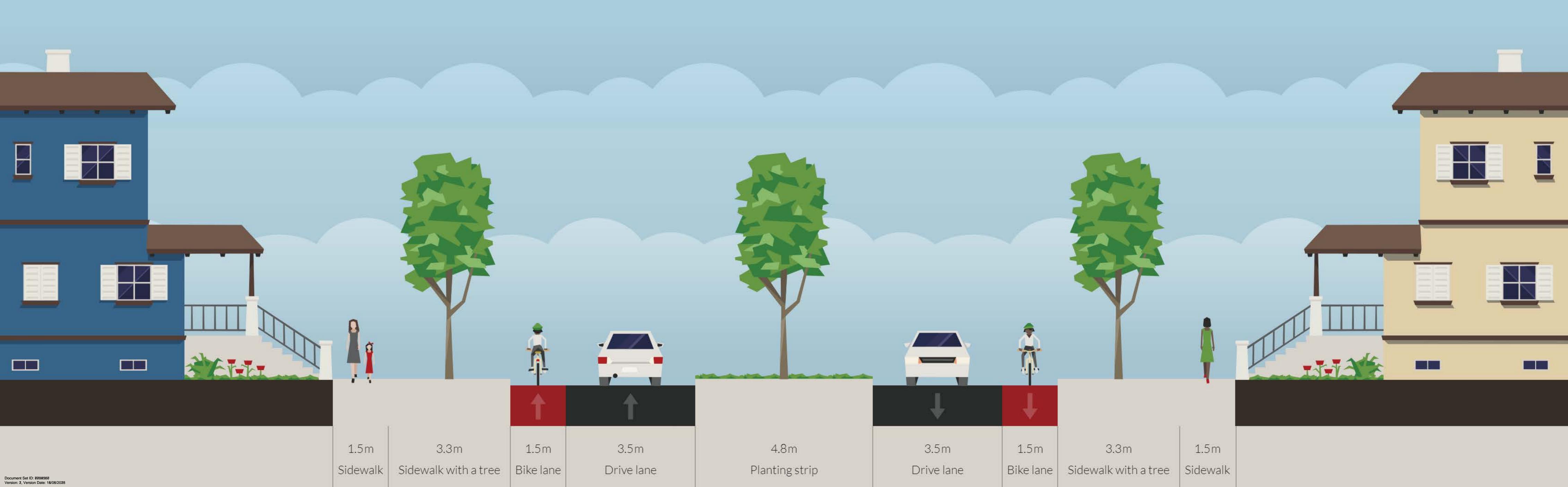




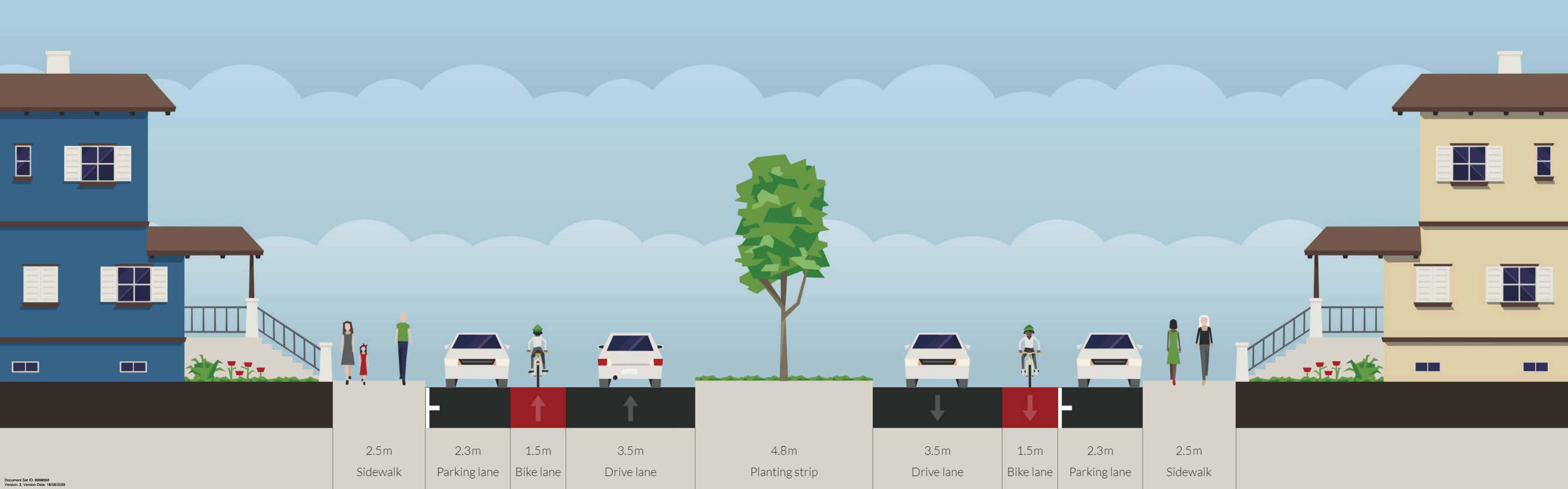
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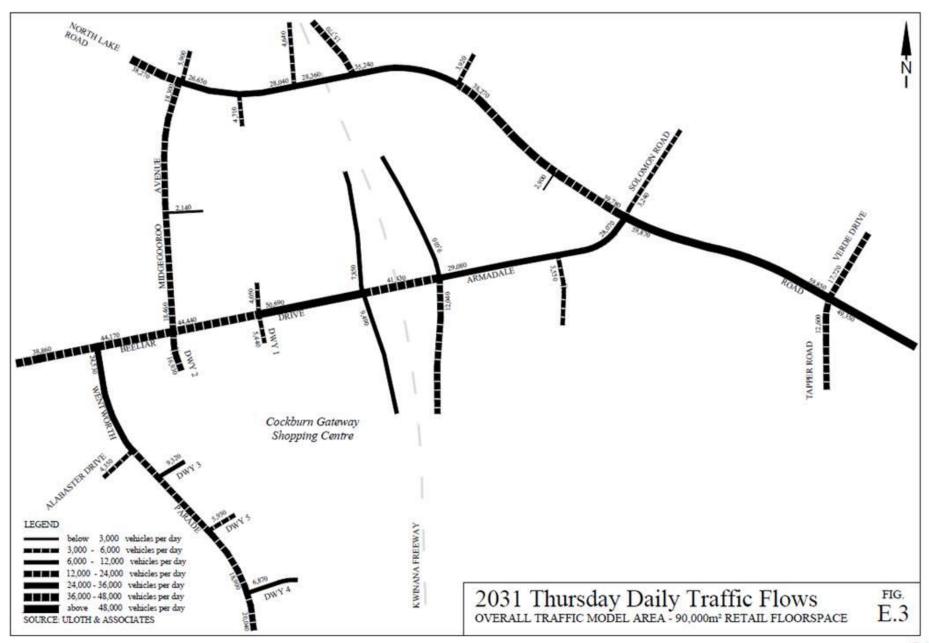
MURIEL COURT (NIB)



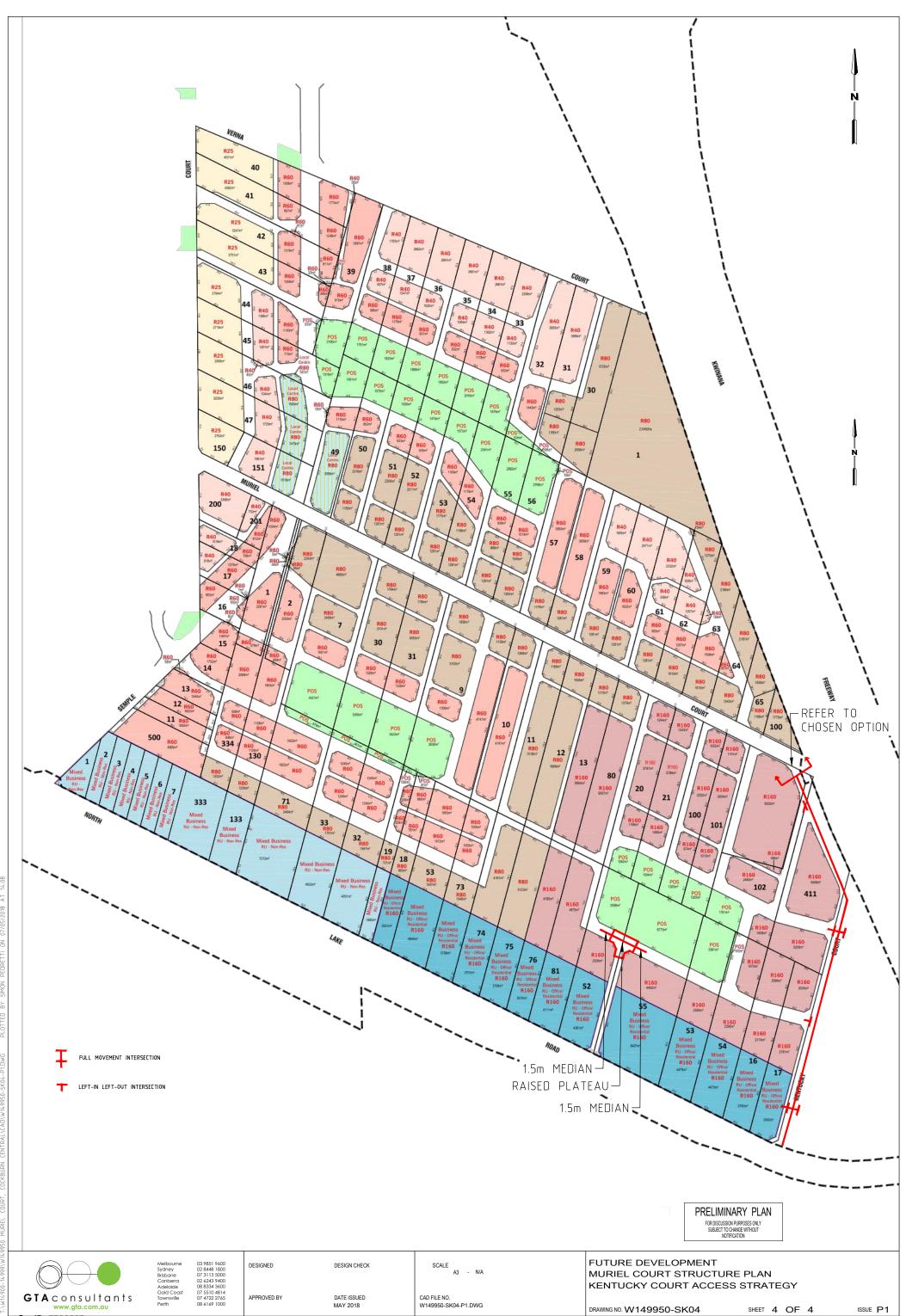
MURIEL COURT (PARKING)











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NEW LINK





