TRANSPORT IMPACT STATEMENT



KC01896.000 10 Canning Road, Kalamunda

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Prepared by: ABN Postal address: Website:

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1. Executive Summary

Site Context

- The project location is 10 Canning Road, Kalamunda.
- The subject lot is currently occupied by a parking lot used by the adjacent grocery store.
- The parking lot will be retained and the proposed liquor store is to be constructed at the eastern section of the lot.

Technical Findings

- The proposed liquor store will generate up to 322 vehicular trips per day, 12 vehicular trips per hour in AM peak and 48 vehicular trips per hour in PM Peak.
- 50% of this traffic generation is expected to originate from the existing patrons of IGA store.
- Therefore, the additional traffic generated to the surrounding network will be 161 VPD, 6 VPH in AM and 24 VPH in PM peak.
- According to the WAPC Guidelines, this is a moderate impact on the surrounding network.

Relationship with Policies

- According to the Local Planning Scheme No.3 both existing IGA and the proposed Liquor Store require 46 parking bays after applying the reciprocity between the two uses. There is 38 carparking bays onsite. Therefore, the calculated shortfall is 8 parking bays.
- Given that the liquor store is in the town centre, a degree of reciprocity is anticipated through both trip blending and reciprocal parking demand.
- There are 13 on-street parking bays on Heath Road in close proximity of the subject site as well as an off-street parking directly across the existing IGA store on Heath Road.
- Building Code of Australia ACROD Provision the proposed development will meet the requirements for ACROD bays.

Conclusion

- As stated above the additional traffic attracted to the subject site is expected to increase by a maximum of 161 vehicular trips per day and 24 vehicular trips in the PM peak hour.
- Heath Road is classified as a Local Distributor with a maximum desirable volume of 6,000 VPD. Current traffic counts show below 3,000 VPD on this road. Therefore, with the additional traffic from the proposed Liquor Store, Heath Road will stay significantly under the maximum desirable volume.
- In summary KCTT believe that the proposed development will not have a negative impact on the surrounding road network.

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2. Transport Impact Statement

2.1 Proposal

Canford Hospitality engaged KCTT to prepare a Transport Impact Statement (TIS) for the proposed Liquor Store at 10 Canning Road, Kalamunda.

The proposed development is a 480m² Liquor Store.

The subject development will use the existing parking and crossover with the adjacent IGA Store.

This report will primarily address the level of impact of the proposed development and the requirements for integration of the proposed development with the surroundings, namely the existing and planned immediate road network.

2.2 Location

Lot Number	Lot 15
Street Number	No. 10
Road Name	Canning Road
Suburb	Kalamunda
Description of Site	The subject lot is currently partially occupied by a parking lot used by the adjacent grocery store.
	The parking lot will be retained and the proposed liquor store is to be constructed at the eastern section of the lot.

2.3 Technical Literature Used

Local Government Authority	City of Kalamunda		
Type of Development	Individual Development		
Is the NSW RTA Guide to Traffic Generating Developments Version 2.2 October 2002 (referenced to determine trip generation / attraction rates for various land uses) referenced?	YES		
Which WAPC Transport Impact Assessment Guideline should be referenced?	Volume 4 - Individual Developments Volume 5 - Technical Guidance		
Are there applicable LGA schemes for this type of development?	YES		
If <u>YES</u> , Nominate:			
Name and Number of Scheme	Local Planning Scheme No. 3		
Are Austroads documents referenced?	YES		

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2.4 Land Uses

Are there any existing Land Uses	YES
If <u>YES</u> , Nominate:	The subject lot is currently occupied by a parking lot which will be retained.

Proposed Land Uses

How many types of land uses are proposed?	One (1)
Nominate land use type and yield	Liquor Store – 480m ²
Are the proposed land uses complementary with the	YES
surrounding land-uses?	

2.5 Local Road Network Information

One (1)

Name of Roads Fronting Subject Site / Road Classification and Description:

Road Name	Canning Road
Number of Lanes	two way, one lane per direction, divided
Road Reservation Width	20m
Road Pavement Width	2x4m lanes, 5.5m raised median
Classification	Distributor A
Speed Limit	50kph or State Limit
Bus Route	YES
If YES Nominate Bus Routes	275
On-street parking	NO

Name of Other Roads within 400m radius of site, or roads likely to take increased traffic due to the development:

Road Name Number of Lanes Road Reservation Width Road Pavement Width Classification Speed Limit Bus Route On-street parking Heath Road two way, one lane each direction, undivided 20m 7m Local Distributor 50kph or State Limit NO YES

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2.6 **Traffic Volumes**

			Vehicles per Pe	ak Hour (VPH)	Heavy Vehicle %		
Road Name	Location of Traffic Count	Vehicles Per Day (VPD)	AM AM Peak - Peak Time VPH	PM PM Peak - Peak Time VPH	If HV count is Not Available, are HV likely to be in higher volumes than generally expected?	Date of Traffic Count	If older than 3 years multiply with a growth rate
Canning Road	North of Heath Road	13,447	07:45 – 1,206	15:00 – 1,212	4%	Apr 2024	_
	South of Heath Road	12,972	07:45 – 1,200	15:00 – 1,141	4%	Apr 2024	_
Heath Road	West of Canning Road	2,843	07:45 – 228	15:00 – 263	2%	Apr 2024	_
Haynes Road	East of Canning Road	3,500	08:15 – 256 <	15:00 – 304	1%	Apr 2024	_

Note* - These traffic counts have been obtained from the MRWA Traffic Map

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2.7 Vehicular Crash Information

Is Crash Data Available on Main Roads WA website?	YES
If YES, nominate important survey locations:	
Location 1	Heath Road [SLK 0.00 – 0.18]
Location 2	Intersection of Canning Road and Heath Road – No crashes were reported in the 5-year period

Period of crash data collection

01/01/2019 - 31/12/2023

The following tables shows crash rates and crash densities in Perth Metropolitan area on local roads and state roads for the period from 2018 to 2022, as obtained from Main Roads WA on the 31st May 2022 by email request:

Crash Density and Crash Rate on Metropolitan Local Roads Network only					
All Crashes Serious Injury Crashes (Fatal+Hospital)					
	Average Annual Average Annual		Average Annual	Average Annua	
	Crash Density	Crash Rate	Crash Density	Crash Rate	
	(All Crashes/KM)	(All Crashes/MVKT)	(Ser. Inj. Crashes/KM)	(Ser. Inj. Crashes/MVKT	
Metro Local Roads - Midblock	2.51	0.95	0.12	0.0	
Metro Local Roads - All	5.23	1.98	0.24	0.09	

Definitions of acronyms and terms used in this analysis can be found below:

- PDO Crash a crash that results in property damage only (major or minor) and does not require hospitalisation or medical treatment, as listed in Main Roads WA's Crash Analysis Reporting System (CARS).
- KSI Crashes Killed and serious injury crash
- MVKT Million Vehicle Kilometres Travelled.

							(Crash St	atistics	
Road Name	SLK	Road Hierarcl	ny Speed Limit		No of KSI Crashe	Me Atte	o of edical ention ashes	No of PDO Major Crashe	PD0 Minor	
Heath Road	0.00 – 0.18	Local Distribu	utor		0kph or ate Limit	0	0		2	0
MR Type	Involving Overtaking	Involving Parking	Involv Anim	5	Involv Pedest	5		ng / Lea riveway	5	Other / Unknown
Count	0	1	0		0			0		1
No of MVKT	Travelled at Lo	ocation		elled at Location App. 2,800 VPD * 365 * 5 years * 0.18 km = 0.92 MVKT						
KSI Crash Rate			0 K	SI crashes	/ 0.92 N	1VKT = 0	KSI cra	ashes/M	VKT	
All Crash Ra	te			2 crashes / 0.92 MVKT = 2.17 crashes/MVKT						
Comparison with Crash Density and Crash Rate Statistics			of (Hov cras	0.95 Crash vever, give	nes per en thes year per	MVKT e are tv iod, KCT	for Loo wo pro Tbeliev	cal Road perty d ve that th	vork average ds Network. amage only iis section of	

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2.8 Vehicular Parking

Local Government	City of Kalamunda
Local Government Document Utilised	Local Planning Scheme No. 3
Description of Parking Requirements in accordance with	n Scheme:

Shop – 5 bays per 100m² NLA.

*Note – given the two land uses share the parking area (grocery store and liquor store) share the same purpose of travel which is shopping, some level of reciprocity should be considered. For example, it is highly likely that existing visitors of IGA grocery store will conduct their liquor store shopping on the same trip. Therefore, the practical parking demand will be lower. KCTT adopted that 50% of liquor store patrons will be existing patrons of the grocery store = 2.5 bays per 100m² NLA for the liquor store.

Calculation of Parking

•			
Land Use	Requirements	Yield	Total Parking
Existing IGA (not part of this application)	5 bays per 100m ² NLA	GFA = 847m ² NLA = 85% of GFA = 720m ²	36
Liquor Store	2.5 bays per 100m ² NLA	GFA = 480m ² NLA = 85% of GFA = 408m ²	10
		Total Car Parking Requirement	46
	Total Volume	of Parking Provided by Proponent	38

Justification

According to the Local Planning Scheme No.3 both existing IGA and the proposed Liquor Store require 46 parking bays after applying the reciprocity between the two uses. There is 38 carparking bays on-site. Therefore, the estimated shortfall is 8 parking bays.

It should be noted that there are 13 on-street parking bays on Heath Road in close proximity of the subject site. Additionally, there is an off-street parking directly across the existing IGA store on Heath Road.

Given that the proposed liquor store is situated in the town centre, direct reciprocity with IGA is obvious due to immediate proximity; however, there will be degree of reciprocity with other commercial land uses.

2.9 Bicycle Parking

Local GovernmentCity of KalamundaReference Document UtilisedLocal Planning Scheme No.3

Description of Parking Requirements in accordance with Scheme:

The City of Kalamunda does not stipulate requirements for the provision of bicycle parking. Justification

Given the nature of the proposed land use KCTT believe that the provision of bicycle parking is not required.

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2.10 ACROD Parking

Class of Building		Class 6		
Does this building provision of ACROD F	class require specific Parking?	YES		
Reference Document	Utilised	Building Code of Australia		
Description of Parking	g Requirements:			
	1 0 1	space for every 50 carparking spa f in excess of 1000 carparking spa		of. (b) for each
Parking Requirement	in accordance with regula	itory documents		
Land Use	Requirements		Yield	Total Parking
Liquor Store	1 space for every 50 ca	rparking spaces or part thereof	38	1
		Total Volume of ACROD Pa	rking Required	1
	Total V	olume of ACROD Parking Provided	d by Proponent	2
Justification				
The proposed develop	oment will meet the requir	ements for provision of ACROD ba	ys.	

2.11 Delivery and Service Vehicles

 Guideline Document used as reference
 NSW RTA Guide to Traffic Generating Developments

 Requirements
 Requirements

Commercial premises (< 20,000m2 GFA) - 1 space per 4,000m2 GFA

Parking Requirement	t in accordance with regulatory documents		
Land Use	Minimum Requirements	Yield	Total Parking
Liquor Store	1 space per 4,000m2 GFA	158.71m ²	1
	Total Volume of Service and Delive	ry Parking Required	1
	Total Volume of Service and Delivery Parking Pro	vided by Proponent	1

Justification

There will be one loading bay provided for the proposed liquor store.

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2.12 Calculation of Development Generated / Attracted Trips

What are the likely hours of operation? What are the likely peak hours of operation? Do the development generated peaks coincide with existing road network peaks?	09:00 – 22:00 11:00 – 12:00; 18:00 – 19:00 NO
Guideline Document Used	WAPC Transport Assessment Guidelines for Developments
Rates from above document:	Retail AM Peak = 2.5 VPH per 100m ² GFA PM Peak = 10 VPH per 100m ² GFA PM peak assumed to be 15% of the daily traffic. Therefore, Daily Traffic = 67 VPD per 100m ² GFA

Comments

As described in Section 2.8, it is expected that at least 50% of the liquor store patrons will be the existing IGA grocery store patrons. Therefore, the below calculations show the expected additional traffic generation for liquor store outside the brackets, and the total theoretical traffic generation inside the brackets.

Land Use	Land Use Type Rate above Yield	Yield	Daily Traffic Generation	Peak Hour Traffic Generation		
Type			Ocheration	AM	PM	
	Existing					
IGA Grocery Store	Daily – 67 VPD per 100m² AM – 2.5 VPH per 100m² PM – 10 VPH per 100m²	847m²	567	21	85	
	Proposed					
Liquor Store	Daily – 67 VPD per 100m² AM – 2.5 VPH per 100m² PM – 10 VPH per 100m²	480m ²	161 (322) *	6 (12) *	24 (48) *	
	Total additional traffic from the proposed devel	opment (A)	161	6	24	
	Total Existing Traffic from the subj	ect site (A ⁰)	567	21	85	
	Total traffic from subject	lots (A+A ⁰)	728	27	109	
What is the development?	total impact of the new proposed Acc gen	0	WAPC guideline 00 VPH can b		•	

generating 10-100 VPH can be deemed to have a **moderate** impact on the network. KCTT believes the surrounding road network can

accommodate additional traffic from the proposed development.

Heath Road is classified as a Local Distributor with a maximum desirable volume of 6,000 VPD. Current traffic counts show below 3,000 VPD on this road. Therefore, with the additional traffic from the proposed Liquor Store, Heath Road will stay significantly under the maximum desirable volume.

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2.13 Traffic Flow Distribution

How many routes are available for access / egress to the site?	Three (3)
Route 1 / Movement 1	
Provide details for Route No 1 Percentage of Vehicular Movements via Route No 1	To/from the north via Heath Road > Canning Road 50% [161 VPD; AM 6 VPH; PM 24 VPH]
Route 2 / Movement 2	
Provide details for Route No 2	To/from the north via Heath Road > Canning Road
PTOVIDE DETAILS TOF ROUTE NO Z	TO/ITOITE THE HOLET VIA HEALT ROAU > CALIFILITY ROAU
Percentage of Vehicular Movements via Route No 2	40% [129 VPD; AM 5 VPH; PM 19 VPH]
Route 3 / Movement 3	
Provide details for Route No 3	To/from the west via Heath Road

 Percentage of Vehicular Movements via Route No 3
 10% [32 VPD; AM 1 VPH; PM 5 VPH]

 Note - For a more detailed plans of the estimated vehicular traffic volumes and distribution please refer to the plans provided in Appendix 2.

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2.14 Vehicle Crossover Requirements

Are new vehicle crossovers required onto existing road networks?	NO
How many existing crossovers?	Two – one for car parking and one for deliveries
How many proposed crossovers?	None
How close are proposed crossovers to existing intersections?	app. 50m
Does this meet existing standards?	YES

2.15 Public Transport Accessibility

How many b	How many bus routes are within 400 metres of the subject site? Nine (9)				
How many r	ail routes are within 800 metres of the subject site?		None		
Bus Route	Description	Peak Frequency	Off-Peak Frequency		
272	Kalamunda Bus Station - Kalamunda Community Centre	Twice a day	No Saturday, Sunday and Public Holiday service		
273	Kalamunda Bus Station (Circular Route) via Cotherstone Rd	25 minutes	60 minutes		
274	Kalamunda Bus Station - Gooseberry Hill via Peoples Avenue	Twice a day	No Saturday, Sunday and Public Holiday service		
275	Walliston - High Wycombe Station via Kalamunda Road & Kalamunda Bus Station	5-10 minutes	60 minutes		
276	Kalamunda Bus Station - High Wycombe Station via Gooseberry Hill	5-10 minutes	60 minutes		
279	Maddington - Kalamunda Bus Station via Kelvin Road & Lesmurdie Road	Twice a day	No Saturday, Sunday and Public Holiday service		
282	Perth - Kalamunda Bus Station via Grove Road	30 minutes	60 minutes		
283	Perth - Kalamunda Bus Station via Lesmurdie Road	30 minutes	60 minutes		
307	Kalamunda Bus Station - Midland Station via Helena Valley	30 minutes	120 minutes		

Walk Score Rating for Accessibility to Public Transport

37 Some Transit. A few nearby public transportation options.

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2.16 Pedestrian Infrastructure

Describe existing local pedestrian infrastructure within a 40	00m radius of the site:
Classification	Road Name
"Other Shared Path (Shared by Pedestrians and Cyclists)"	Heath Road, Boonooloo Road, Kalamunda Road, Williams Street, Elizabeth Street, Railway Road, Mead Street
Does the site have existing pedestrian facilities	YES
Does the site propose to improve pedestrian facilities?	NO
What is the Walk Score Rating?	
76 Very Walkable. Most errands can be accomplished or	n foot.
2.17 Cyclist Infrastructure	
Are there any PBN Routes within an 800m radius of the sul If YES, describe:	bject site? YES
Classification	Road Name
"Other Shared Path (Shared by Pedestrians and Cyclists)"	Heath Road, Boonooloo Road, Kalamunda Road, Williams Street, Elizabeth Street, Railway Road, Mead Street, East Terrace, Recreation Road
"Good Road Riding Environment"	Williams Street, East Terrace
"Perth Bicycle Network - Continuous Signed Routes"	SE3 – Williams Street, Railway Road
Are there any PBN Routes within a 400m radius of the sub	ject site? YES
If YES, describe:	
Classification	Road Name
"Other Shared Path (Shared by Pedestrians and Cyclists)"	Heath Road, Boonooloo Road, Kalamunda Road, Williams Street, Elizabeth Street, Railway Road, Mead Street
"Good Road Riding Environment"	Williams Street
"Perth Bicycle Network - Continuous Signed Routes"	SE3 – Williams Street, Railway Road
Does the site have existing cyclist facilities?	YES
Does the site propose to improve cyclist facilities?	NO

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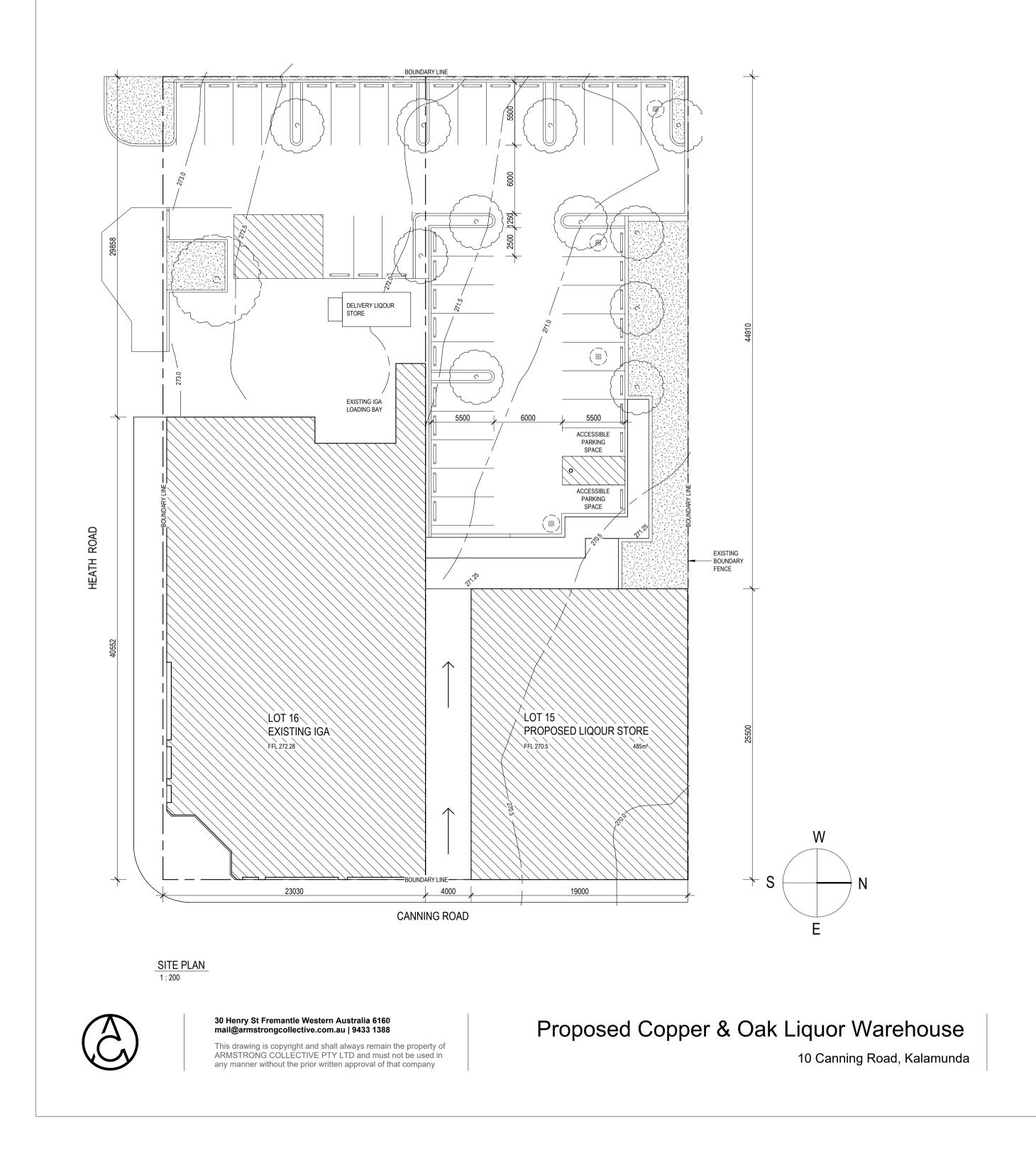
2.18 Site-Specific Issues and Proposed Remedial Measures

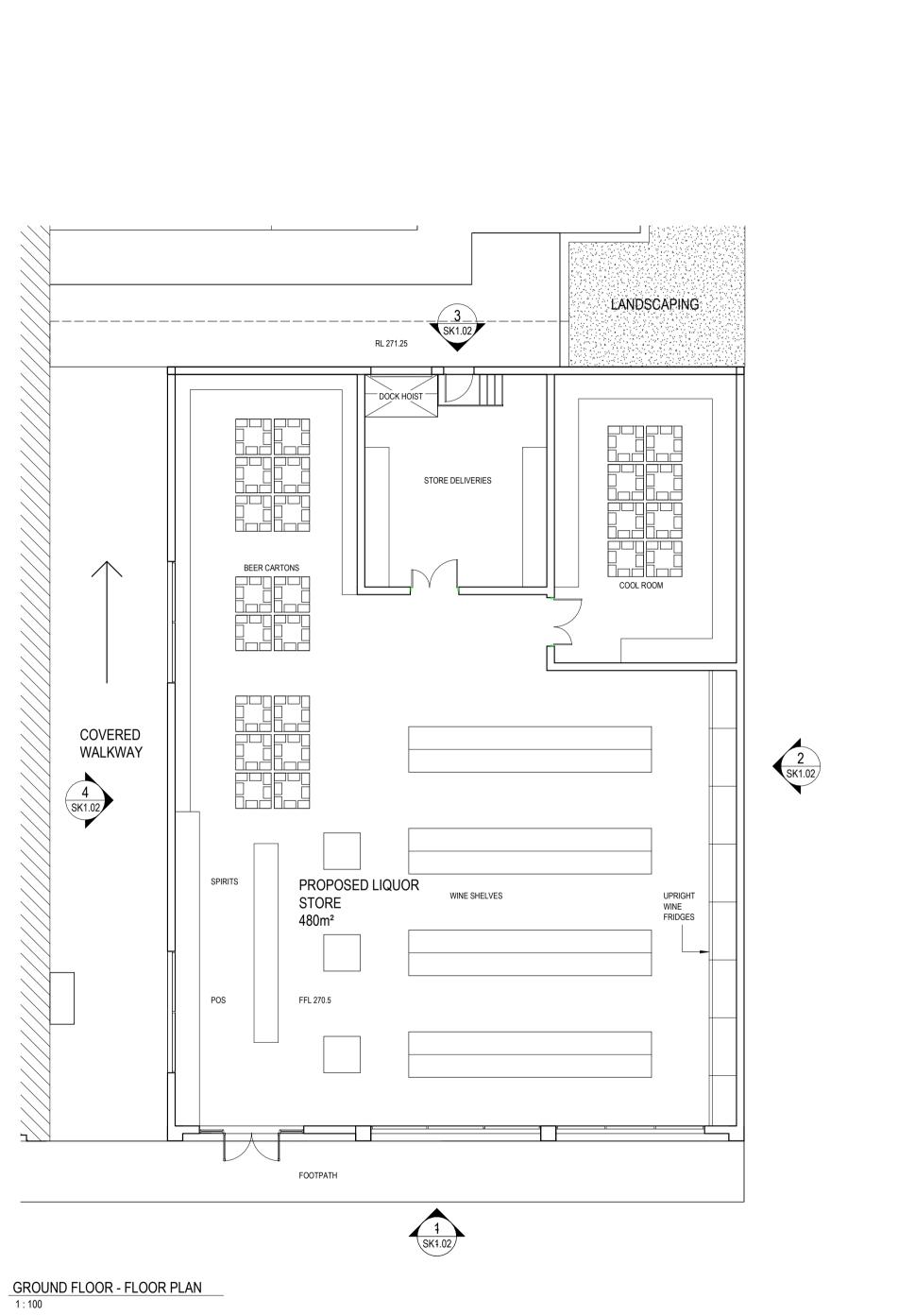
How many site-specific issues need to be discussed?	One (1)
Site-Specific Issue No 1	Parking Shortfall
Remedial Measure / Response	According to the Local Planning Scheme No.3 both existing IGA and the proposed Liquor Store require 46 parking bays after applying the reciprocity between the two uses. There is 38 carparking bays on-site. Therefore, the calculated shortfall is 8 parking bays.
	The proposed liquor store is situated in the town centre, and therefore there will be a degree of reciprocity with other commercial land uses through trip blending and reciprocal parking demand.
	There are 13 on-street parking bays on Heath Road in close proximity of the subject site as well as an off- street parking facility directly across the existing IGA store on Heath Road.



The Layout of the Proposed Development

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Site Plan & Floor Plan

As indicated AT A1

SK1.01

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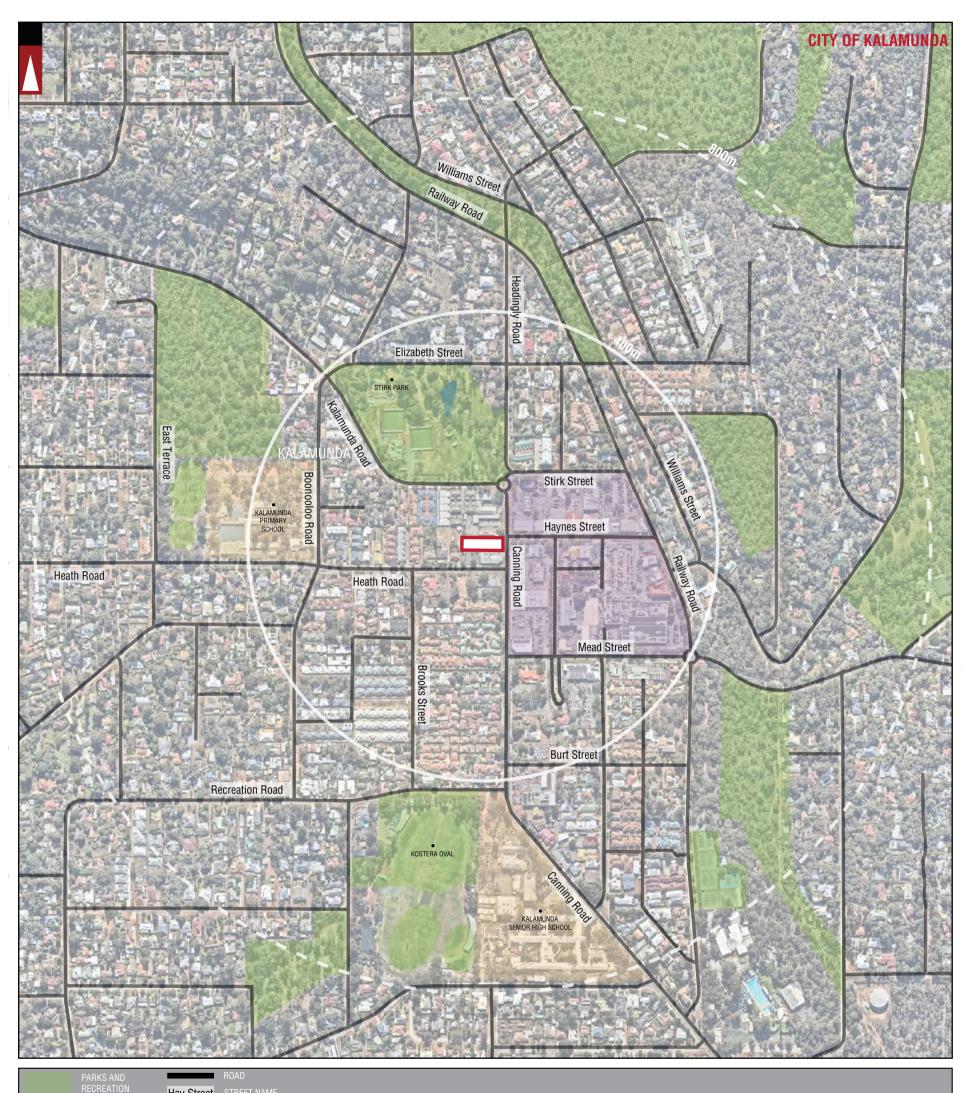
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ARMSTRONG COLLECTIVE



Transport Planning and Traffic Plans

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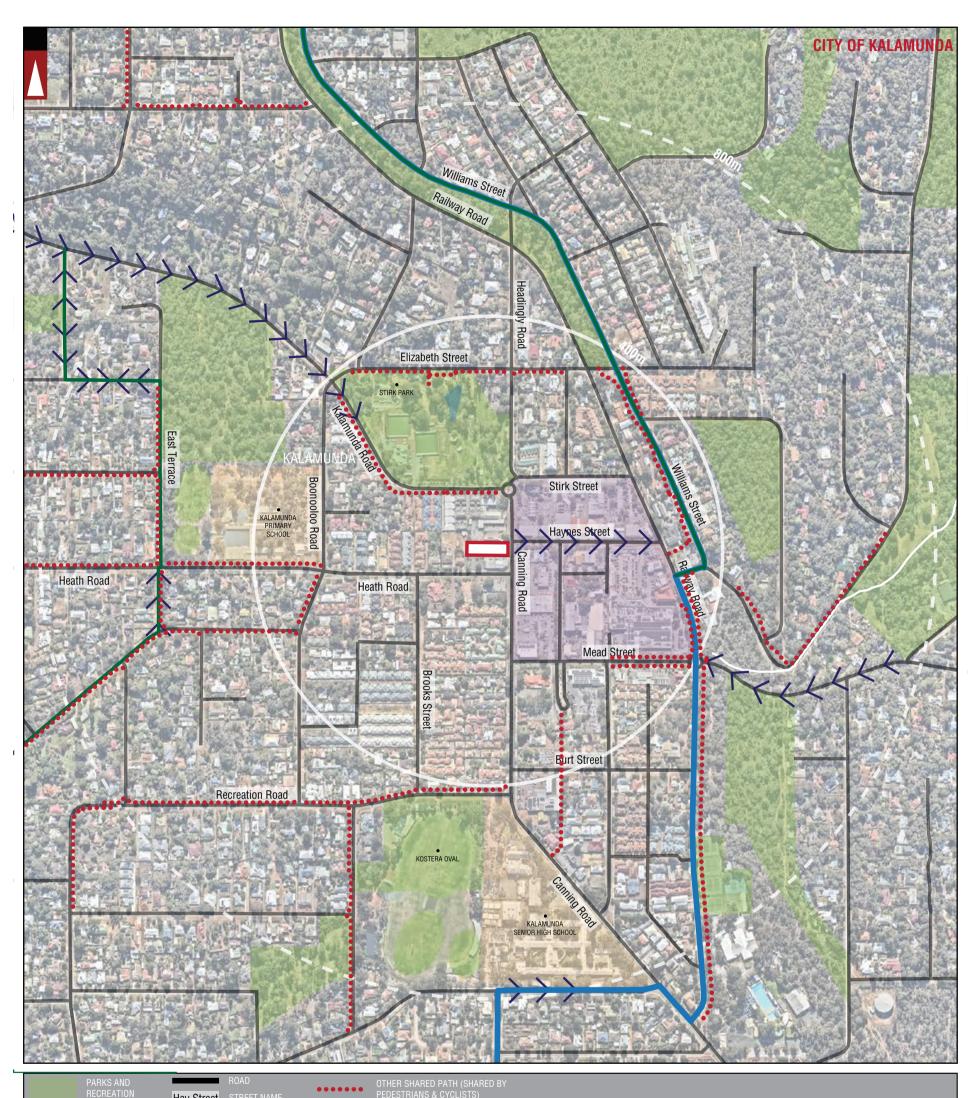




LEGEND

			PROJECT: 10 CANNING ROAD, KALAMUNDA	DRAWN BY:	Civil & Traffic Engineering Consultants KCTT (Trading as KC Traffic and Transport Pty Ltd)	
			TITLE: LOCALITY PLAN - 800M RADIUS		PO Box 1456 Scarborough WA 6922	
А	01-07-2024	ISSUED FOR REVIEW	DRAWING NUMBER:	N.M.		
No	DATE	AMENDMENT	KC01896.000_ S01		PH: 08 9441 2700 WEB: www.kctt.com.au PA	ART OF > Premise

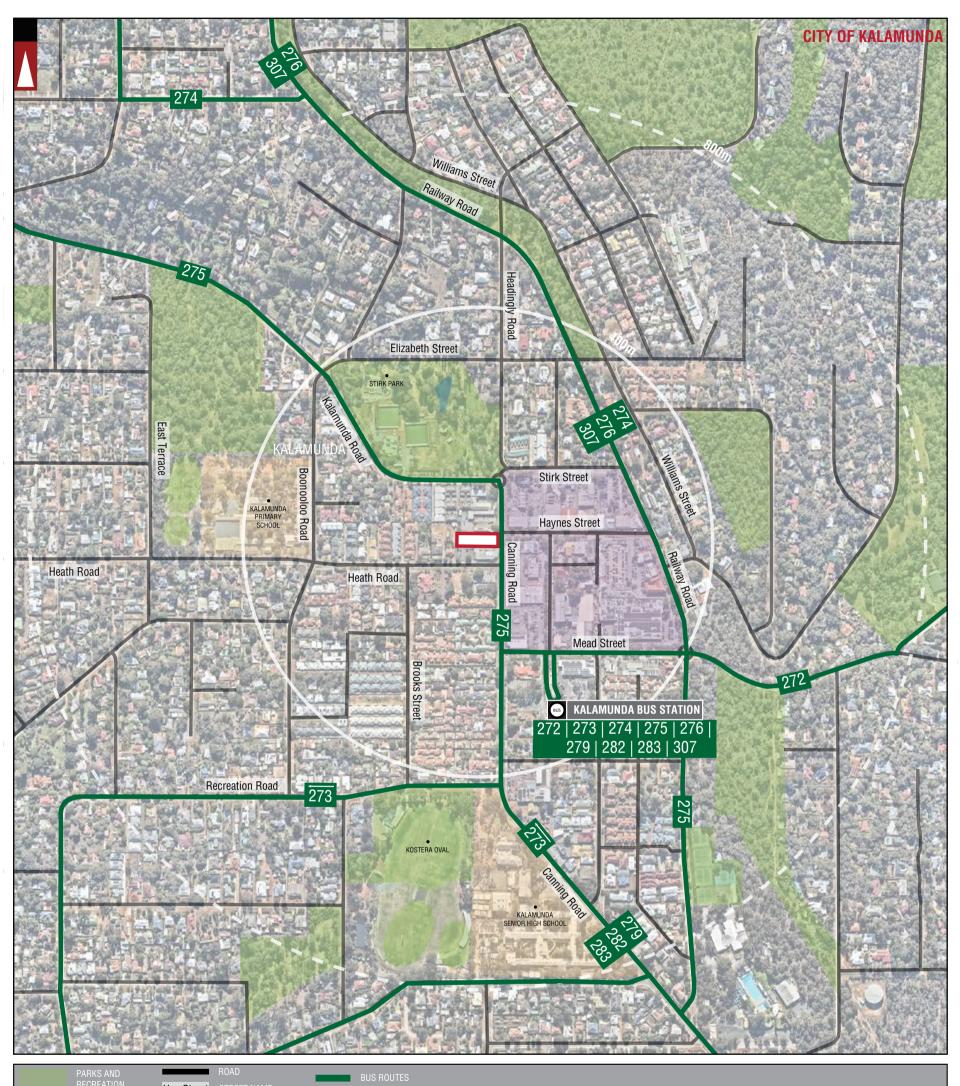






			PROJECT: 10 CANNING ROAD, KALAMUNDA		Civil & Traffic Engineering Consultants KCTT (Trading as KC Traffic and Transport Pty Ltd)	
			птье: BICYCLE NETWORK PLAN - 800M RADIUS		PO Box 1456 Scarborough WA 6922	Í
А	01-07-2024	ISSUED FOR REVIEW	DRAWING NUMBER:	N.M.		KULL
No	DATE	AMENDMENT	KC01896.000_ S02		PH: 08 9441 2700 WEB: www.kctt.com.au	PART OF > Premise

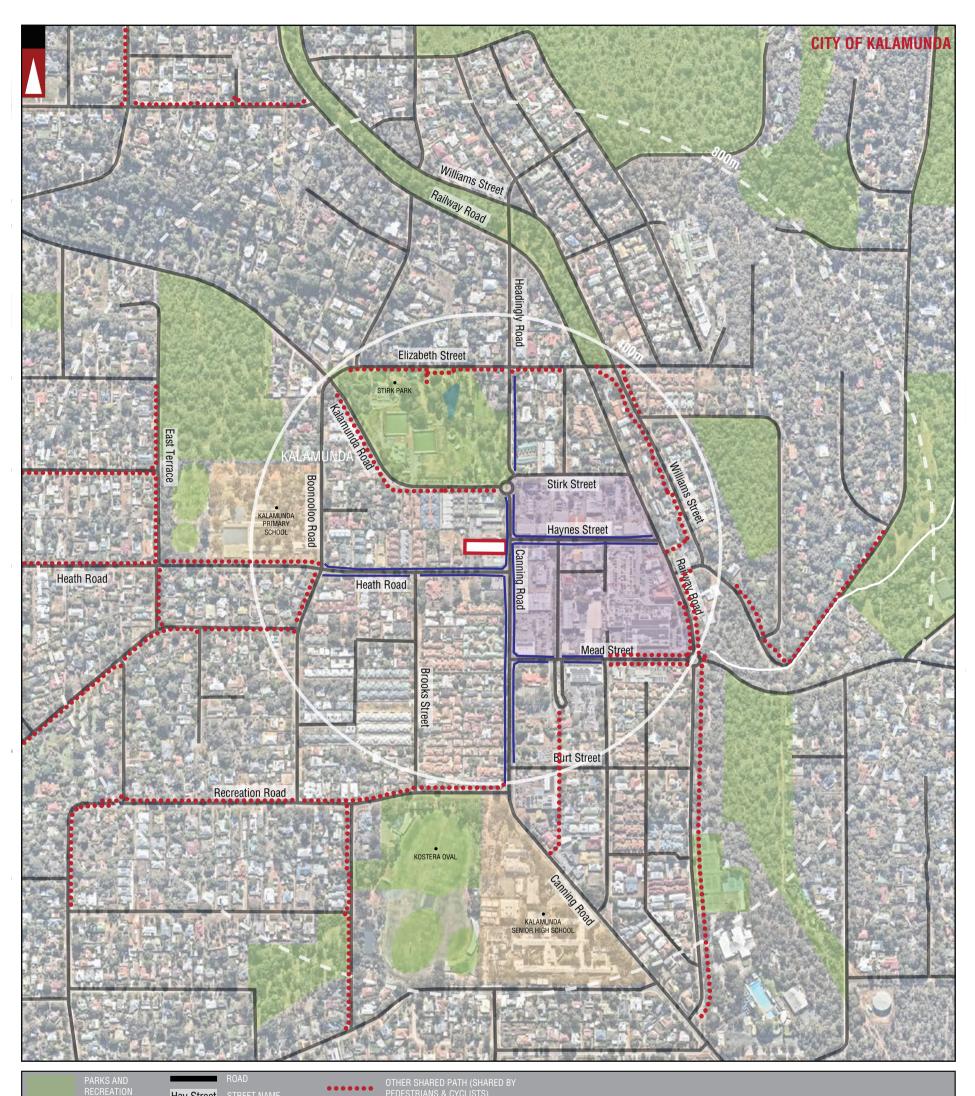


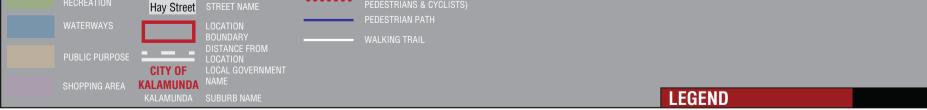




			PROJECT: 10 CANNING ROAD, KALAMUNDA	DRAWN BY:	Civil & Traffic Engineering Consultants KCTT (Trading as KC Traffic and Transport Pty Ltd)	
			TITLE: PUBLIC TRANSPORT PLAN - 800M RADIUS		PO Box 1456 Scarborough WA 6922	Í
А	01-07-2024	ISSUED FOR REVIEW	DRAWING NUMBER:	N.M.	DU 00 0444 0700	KULL
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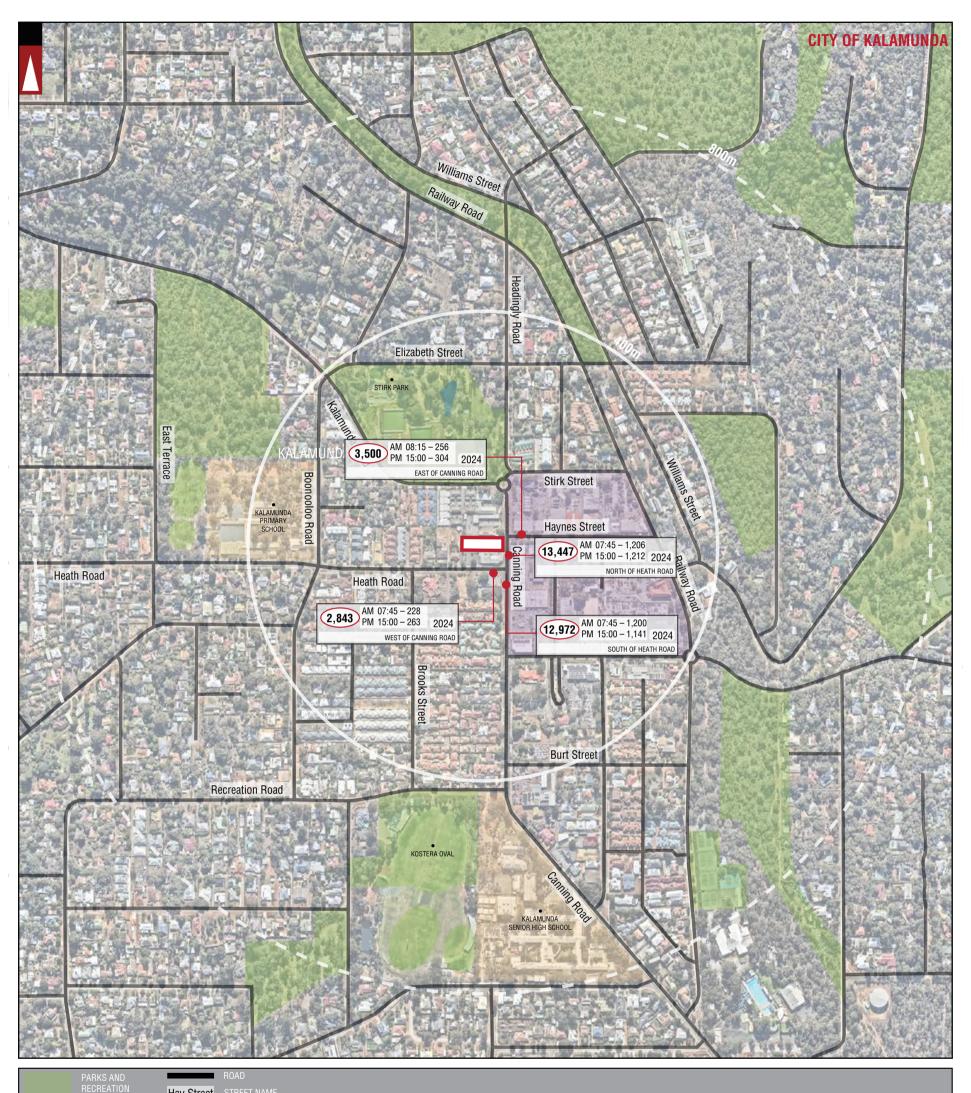






			PROJECT: 10 CANNING ROAD, KALAMUNDA		Civil & Traffic Engineering Consultants KCTT (Trading as KC Traffic and Transport Pty Ltd)	
			TITLE: PEDESTRIAN PATHS PLAN - 800M RADIUS		PO Box 1456 Scarborough WA 6922	Í
А	01-07-2024	ISSUED FOR REVIEW	DRAWING NUMBER:	N.M.		KULL
No	DATE	AMENDMENT	KC01896.000_ S04		PH: 08 9441 2700 WEB: www.kctt.com.au	PART OF Premise



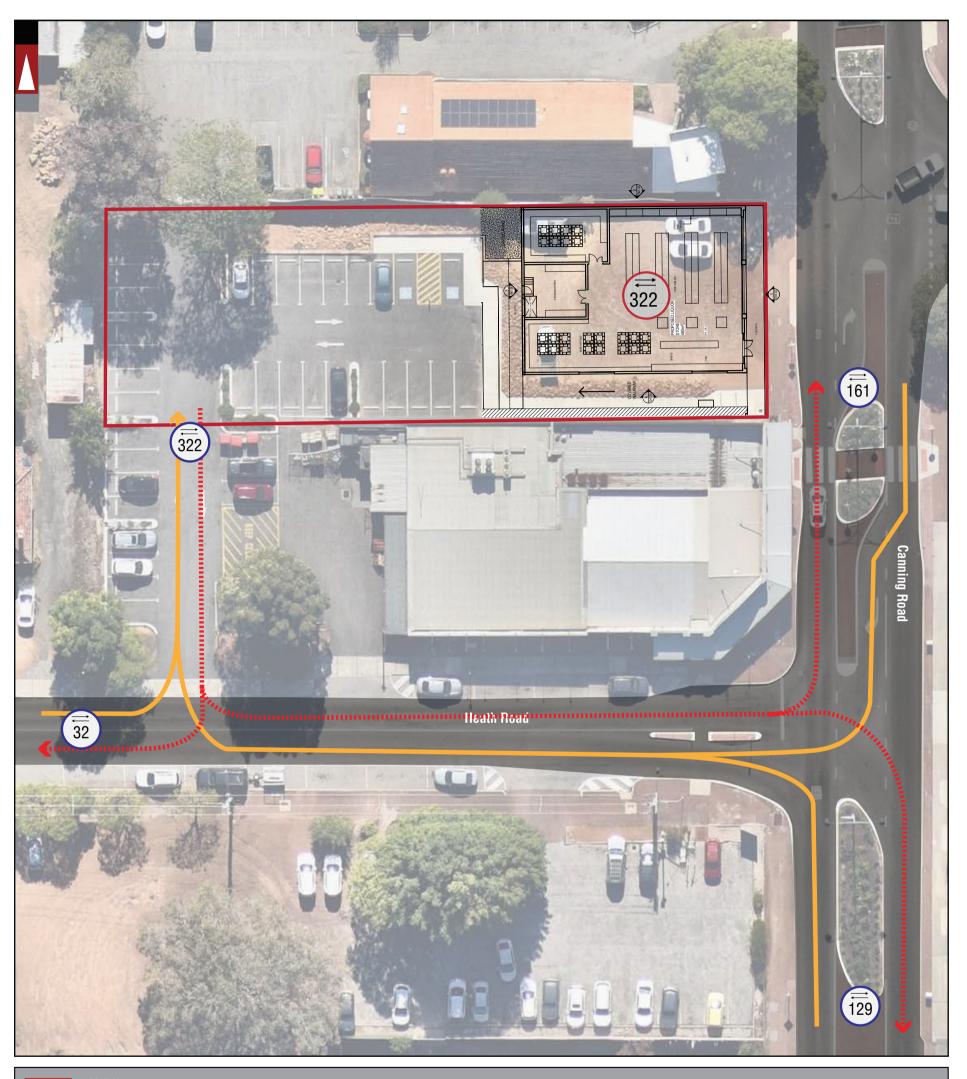


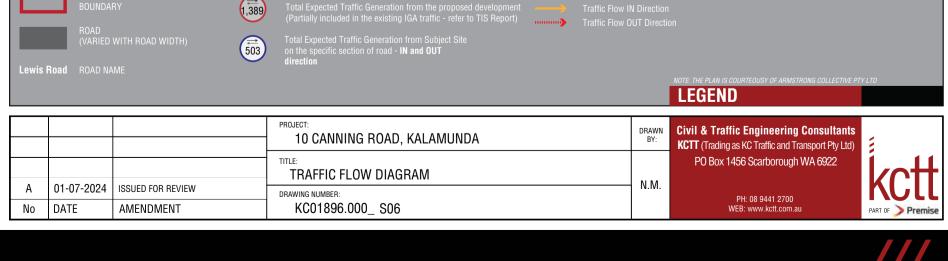


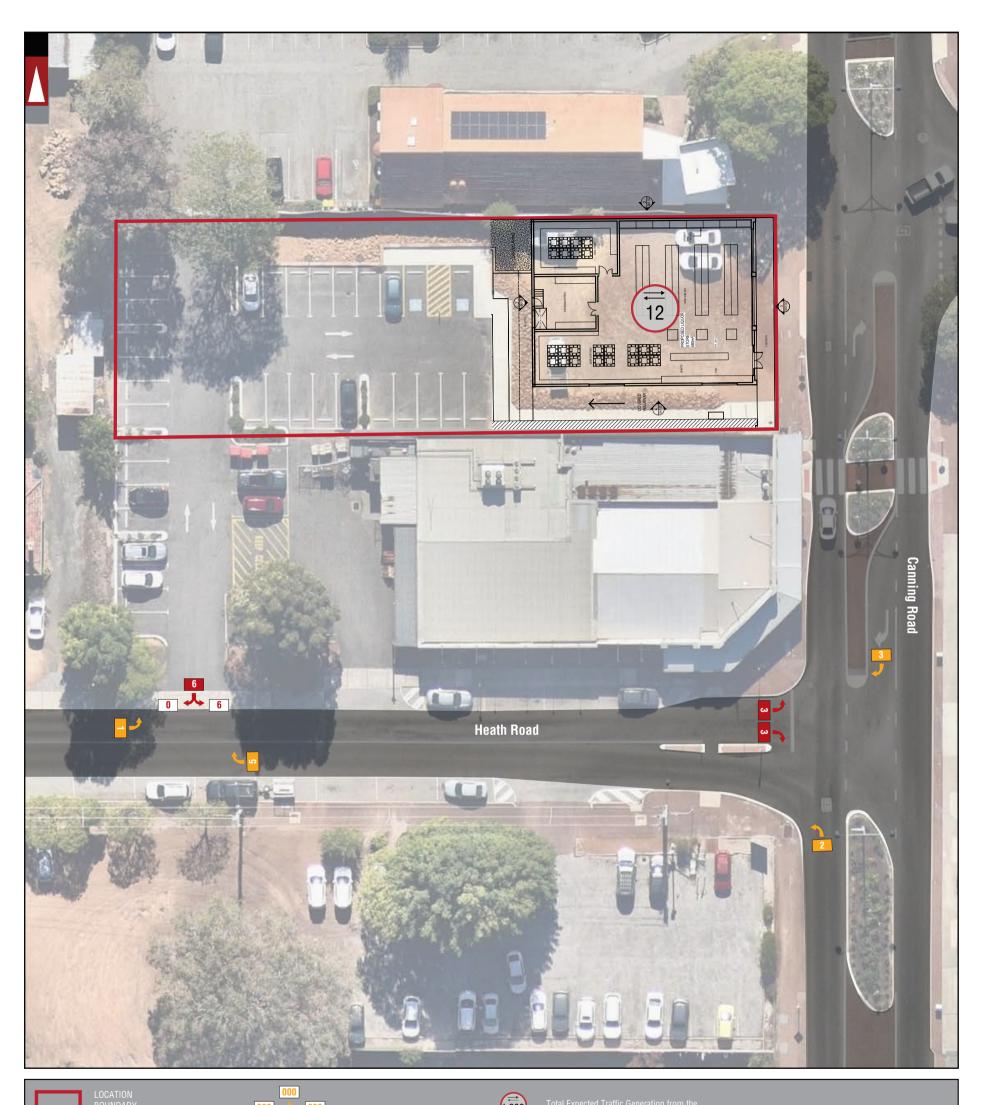
LEGEND

			PROJECT: 10 CANNING ROAD, KALAMUNDA	DRAWN BY:	Civil & Traffic Engineering Consultants KCTT (Trading as KC Traffic and Transport Pty Ltd)	
			TITLE: EXISTING TRAFFIC COUNTS - 800M RADIUS		PO Box 1456 Scarborough WA 6922	
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No	DATE	AMENDMENT	KC01896.000_ S05		PH: 08 9441 2700 WEB: www.kctt.com.au	PART OF Premise









BUUNDARY	000 4 000 Traffic Flow IN Direction	proposed development - AM peak
ROAD (VARIED WITH ROAD WIDTH)	000	
Lewis Road ROAD NAME	000 000 + 000 Traffic Flow OUT Direction	NOTE: THE PLAN IS COURTEOUSY OF ARMSTRONG COLLECTIVE PTY LTD
	000	LEGEND

			PROJECT: 10 CANNING ROAD, KALAMUNDA	DRAWN BY:	Civil & Traffic Engineering Consultants KCTT (Trading as KC Traffic and Transport Pty Ltd)	
			TITLE: TRAFFIC FLOW DIAGRAM - AM PEAK		PO Box 1456 Scarborough WA 6922	I
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	Traffic Flow IN Direction	proposed development - PM peak	
ROAD (VARIED WITH ROAD WIDTH)			
	000 Traffic Flow OUT Direction		
	000	NOTE. THE PLAN IS COURTEOUSY OF ARMSTRONG COLLECTIVE PTY LTD LEGEND	

			PROJECT: 10 CANNING ROAD, KALAMUNDA	DRAWN BY:	Civil & Traffic Engineering Consultants KCTT (Trading as KC Traffic and Transport Pty Ltd)	
			TITLE: TRAFFIC FLOW DIAGRAM - PM PEAK		PO Box 1456 Scarborough WA 6922	I
А	01-07-2024	ISSUED FOR REVIEW	DRAWING NUMBER:	N.M.	PH: 08 9441 2700	NULL
No	DATE	AMENDMENT	KC01896.000_ S08		WEB: www.kctt.com.au	PART OF > Premise

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