TRANSPORT IMPACT STATEMENT

Lot 57 Briggs Road Byford

April 2023

Rev D



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Appendices

Appendix 1 - The layout of the proposed development

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Appendix 3 - Vehicle Turning Circle Plans

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1. Executive Summary

Site Context

- The project location is Lot 57 Briggs Road, Byford. The subject site is currently occupied by a single residence.
- The subject lot is a part of the Byford Area D Local Structure Plan.
- Stage 1 includes the construction of the Childcare facility with an interim driveway access to Briggs Road.
- Stage 2 includes the ultimate development scenario around the site as per the local structure plan, including the delivery of Indigo Parkway (north) and local access road (east). This will involve the minor reconfiguration of crossovers to the car park.
- The proposed development will be a childcare centre with a capacity for 104 children and 18 staff members.

Technical Findings

- The proposed development is expected to generate up to 452 vehicular trips per day, 83 vehicle trips in the AM peak and 73 vehicular trips in the PM peak.
- According to WAPC this is considered as a moderate traffic impact to the surrounding road network.
- Two major routes are expected to be utilised for access to development:
 - o To/from the north via Briggs Road
 - To/from the south via Briggs Road

Relationship with Policies

- According to the Shire of Serpentine Jarrahdale TPS No. 2 requirements, the proposed development requires 21 carparking bays. According to the Draft Local Planning Scheme No.3 the proposed development would require 29 parking bays.
- The subject development will propose 31 parking bays in stage 1 and 29 in Stage 2.
- Therefore, the proposed development will meet the requirement in both Stages and in accordance with both relevant parking requirement documents.
- Building Code of Australia ACROD Provision the proposed development will meet the requirement for 1 ACROD bay.

Conclusion

- As stated above the additional traffic attracted to the subject site is expected to increase by a maximum of 452 vehicular trips per day and 83 vehicular trips in the peak hour.
- Briggs Road is classified as Local Distributor as per MRWA classification with the maximum desirable volume of 6,000 vehicles per day. Available traffic counts show approximately 3,900 VPD on Briggs Road south of Thomas Road. Therefore, with the added traffic from the subject site the street would remain well under the maximum desirable traffic volume for Local Distributor roads.
- Other surrounding roads would absorb significantly less traffic than Briggs Road, moreover, the traffic would be dispersed so that the impact can be considered negligible.
- In summary KCTT believe that the proposed development will not have a negative impact on the surrounding road network.

2. Transport Impact Statement

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2.1 Location

Lot Number 57 Street Number /

Road Name Briggs Road Suburb Byford

Description of Site The subject site is currently occupied by a single residence. The proposed development

will be a childcare centre with a capacity for 104 children and 18 staff members.

2.2 Technical Literature Used

Local Government Authority Shire of Serpentine-Jarrahdale

Type of Development — Childcare Centre

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?

Which WAPC Transport Impact Assessment Guideline Volume 4 - Individual Developments

should be referenced?

Are there applicable LGA schemes for this type of YES

development?

If YES, Nominate:

Name and Number of Scheme Town Planning Scheme No. 2

Are Austroads documents referenced? YES

2.3 Review of the Available Planning Documents

Which Structure Plan / Subdivision is the development part of?

Byford Area D – Briggs Larsen Precinct Local Structure Plan (Document by Rowe Group Design – March 2021)



Describe the major changes of the surrounding area associated with the completion of the Structure Plan

- Byford Area D is expected to include 161 residential dwellings.
- Indigo Parkway, currently located to the west of Briggs Road without an intersection with this road is expected to be extended to the east side of Briggs Road.
- Additional internal road will be constructed to intersect with Briggs Road. This road will provide access to Briggs Road for residential developments within Byford Area D.

Describe the expected changes to the proposed development

The proposed development will have an additional crossover to the new road perpendicular to Indigo Parkway.

This will allow for a more comfortable manoeuvring within the internal driveway while keeping the minimum required carparking bays.

Changes to the surrounding road network

Based on the information from the Shire of Serpentine-Jarrahdale, a median is expected to be constructed on Indigo Parkway, allowing only LILO movements from/to Briggs Road. The timeframe of this amendment is currently unknown.

Furthermore, travel to the south towards Briggs Road will be rerouted as Briggs Road is expected to be closed between Saddle Lane and unnamed path below the training complex.

This report will mainly focus on the Stage 1 of this development, where only Childcare Centre and an interim driveway access to Briggs Road are completed, as the timeframe of Byford Area D completion is not mentioned in the Local Structure Plan document.

Transport Impact Statement

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2.4 Land Uses

Are there any existing Land Uses YES

If <u>YES</u>, Nominate: 1 single residence

Proposed Land Uses

How many types of land uses are proposed? One (1)

Nominate land use type and yield Childcare Centre

- 104 children

- 18 staff members

Are the proposed land uses complementary with the YES surrounding land-uses?

2.5 Local Road Network Information

How many roads front the subject site?

One (1)

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

Road Name

Number of Lanes two way, one lane (no linemarking), undivided

Road Reservation Width 20m
Road Pavement Width 7m

Classification Local Distributor

Speed Limit 50kph
Bus Route NO
On-street parking NO

2.6 Traffic Volumes

| | | | Vehicles per Peak Hour (VPH) | | Heavy Vehicle % | | |
|----------------|------------------------------|---------|----------------------------------|------------------------|--|-----------------------------|--|
| Road Name | Location of Traffic Count | Per Dav | AM AM Peak - Peak Time VPH | PM PM Peak Time PM 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 |
| Briggs Road | South of Thomas Road | 3,829 | 08:00 – 449 | 15:15 – 411 | 3% | Mar 2022 | - |
| Thomas | West of Briggs Road | 11,373 | 08:00 - 1,020 | 15:15 – 1,040 | 8% | Mar 2022 | - |
| Road | East of Briggs Road | 8,362 | 08:00 - 671 | 15:15 – 689 | 10% | Mar 2022 | _ |

NO

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

2.7 Vehicular Crash Information

Is Crash Data Available on Main Roads WA website?

If YES, nominate important survey locations:

Location 1

Period of crash data collection

Comment

Briggs Road [SLK 1.20 – 1.53]

01/01/2017 - 31/12/2021

No crashes were reported for the above location in the 5-year collection period

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2.8 Vehicular Parking

Local Government Shire of Serpentine-Jarrahdale
Local Government Document Utilised Town Planning Scheme No. 2;

Draft Local Planning Scheme No. 3

Description of Parking Requirements in accordance with Scheme:

TPS No. 2:

Child Minding Centre - 1 space per 5 children accommodated

Draft LPS No. 3:

Child Care Premises - 1 per 10 children accommodated under maximum occupancy and 1 bay per employee* with a minimum of 3 spaces

Calculation of Parking in Accordance with TPS No. 2

| Requirements | Yield | Total Parking |
|-------------------------|---------------------------------|----------------|
| 1 space per 5 children | 104 | 21 |
| Total C | ar Parking Requirement | 21 |
| Total Volume of Parking | Provided by Proponent | 31 in Stage 1; |
| | | 29 in Stage 2 |
| | 1 space per 5 children Total C | • |

| Calculation of Parking in Accordance with Draft LPS No. 3 | | | | | | |
|---|--------------------------|--------------------------|----------------|--|--|--|
| Land Use | Requirements | Yield | Total Parking | | | |
| Childcare Centre | 1 space per 10 children; | 104 children; | 29 | | | |
| | 1 bay per employee | 18 staff members | | | | |
| | Total | Car Parking Requirement | 29 | | | |
| | Total Volume of Parki | ng Provided by Proponent | 31 in Stage 1; | | | |
| | | | 29 in Stage 2 | | | |

Justification

According to the Shire of Serpentine – Jarrahdale TPS No. 2 requirements, the proposed development requires 21 carparking bays.

According to the Draft Local Planning Scheme No.3 the proposed development would require 29 parking bays.

The subject development will propose 31 parking bays in stage 1 and 29 in Stage 2 (two bays will be deleted to allow for addition of a crossover).

Therefore, the proposed development will meet the requirement in both Stages and in accordance with both relevant parking rates.

Have Vehicle Swept Paths been checked for Parking? YES

If YES, provide description of performance:

The layout for the proposed development has been checked with a B99 Passenger Vehicle (5.2m) and a Service/Waste Vehicle (8.8m). The waste vehicle will have to enter the site after hours of operations as it will require to use the empty carparking bays for manoeuvring.

No navigability issues have been presented. Refer to Appendix 3 for swept path drawings.

2.9 Compliance with AS2890.1:2004 and AS2890.6

Number of Parking Bays on-site Are Austroads documents referenced?

If YES, Nominate:

29 YES

- Australian/New Zealand Standard, Parking facilities,
 Part 1: Off-street car parking Originated as AS 2890.1—1986.
- Australian/New Zealand Standard, Parking facilities,
 Part 6: Off-street parking for people with disabilities Originated as AS2890.6

Proposed development User Class

User Class 1A (Residential, domestic and employee parking) User Class 3 (visitors' parking)

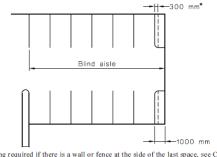
User Class 4

| AS2890.1:2004 Off-street car parking AS2890.6 Off-street parking for people with disabilities | | | | | | | |
|---|----------|----------|------------------------------------|------------------------------------|----------|----------|--|
| Parking Bay Type Parking Bay Length Parking Bay Width | | | | | | Vidth | |
| | Required | Proposed | Required | Proposed | Required | Proposed | |
| All bays at 90° (User Class 1A) | 5.4m | 5.4m | 2.4m | 2.4m | 5.8m | 6.2m | |
| All bays at 90° (User Class 3) | 5.4m | 5.4m | 2.6m | 2.6m | 5.8m | 6.2m | |
| ACROD Parking | 5.4m | 5.4m | 2.4m–ACROD 2.4m–shared space | 2.4m-ACROD 2.4m-shared space | 5.8m | 6.2m | |

Name the other requirements in the AS2890.1:2004 document.

'At blind aisles, the aisle shall be extended a minimum of 1 m beyond the last parking space, as shown in Figure 2.3, and the last parking space widened by at least 300 mm if it is bounded by a wall or fence.

In car parks open to the public, the maximum length of a blind aisle shall be equal to the width of six 90 degree spaces plus 1 m, unless provision is made for cars to turn around at the end and drive out forwards."



*Additional widening required if there is a wall or fence at the side of the last space, see Clause 2.4.1(b)(ii)

DIMENSIONS IN MILLIMETRES

FIGURE 2.3 BLIND AISLE EXTENSION

KCTT comment:

Blind aisle
Reversing bay

Does the parking area meet the requirements set in AS2890.1:2004?

Extended by a minimum of 1 m

Provided

KCTT reviewed the proposed development layout and concluded that dimensions of all car parking bays and aisle width comply with the Australian Standard AS/NZS 2890.1/2004.

Does the parking area meet the requirements set in AS2890.6?

YES

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2.10 Bicycle Parking

Local Government Shire of Serpentine-Jarrahdale

Reference Document Utilised Local Planning Policy 4.15: Bicycle Facilities Policy

Description of Parking Requirements in accordance with the Relevant Document:

No requirements

Justification

The Shire's Local Planning Policy 4.15: Bicycle Facilities Policy applies to the proposed development. LPP 4.15, Schedule 1 specifies rates for the provisions of bicycle parking facilities for certain land uses. A 'Child Minding Centre' is not included in Schedule 1.

Given the location of the proposed development, it is unlikely that the residents or staff members arrive to the Child Care Centre using bicycles.

2.11 ACROD Parking

Class of Building Class 9b

Does this building class require specific provision of ACROD Parking? YES

Reference Document Utilised Building Code of Australia

Description of Parking Requirements:

Class 9b — (b) Other assembly building — (i) up to 1000 carparking spaces; - 1 space for every 50 carparking spaces or part thereof

Parking Requirement in accordance with regulatory documents

| Land Use | Requirements | Yield | Total Parking |
|------------------|---|---------------|---------------|
| Childcare Centre | 1 space for every 50 carparking spaces or part thereof 29 | | 1 |
| | Total Volume of ACROD Parl | king Required | 1 |
| | Total Volume of ACROD Parking Provided | by Proponent | 1 |

Justification

The proposed development meets the requirement for 1 ACROD bay.

2.12 Delivery and Service Vehicles

Guideline Document used as reference

NSW RTA Guide to Traffic Generating Developments

Requirements

Other uses - 1 space per 2,000m2

Parking Requirement in accordance with regulatory documents

| Land Use | Minimum Requirements | Yield | Total Parking |
|------------------|-----------------------------|----------------------------------|---------------|
| Childcare Centre | 1 space per 2,000m2 | 615m ² | 1 |
| | Total Volume of Service and | Delivery Parking Required | 1 |
| | | | |

Total Volume of Service and Delivery Parking Provided by Proponent

Justification

The proposed development will not require a dedicated delivery parking bay.

Waste vehicle is expected to enter the development outside of hours of operation and turnaround on site using empty parking spaces.

N/A

2.13 Calculation of Development Generated / Attracted Trips

What are the likely hours of operation? 06:30 - 18:30

What are the likely peak hours of operation? AM peak 07:30 - 08:30

PM peak 16:30 - 17:30

Do the development generated peaks coincide with Y

existing road network peaks?

If YES, Which: Partially AM peak

Guideline Document Used NSW RTA Guide to Traffic Generating Developments

Rates from above document.

Child Day Care:

• 0.8 trips in AM Peak per child

0.7 trips in PM Peak per child

It should be noted that these rates are given for a 2-hour peak period. For the purposes of this report KCTT will use the worst-case scenario where the two-hour traffic volume will be attracted to the development within one hour.

Given that the WAPC Transport Assessment Guidelines and NSW RTA Guide to Traffic Generating Developments do not offer daily vehicular trip generation rate for these land uses KCTT have assumed the following to apply:

Childcare centres vehicular daily trips can be assumed to be 4 VPD per child and 2 VPD per employee. Each parent will make 2 vehicular trips when dropping off the child to the day care centre and 2 vehicular trips when picking the child up. Employees will make 1 vehicular trip arriving to work, and another vehicular trip when leaving work. For the calculations below, a conservative approach has been applied showing the theoretical maximum number of children, under assumption that all children are driven to school, there are no siblings in the centre and there are no sick children absent from the centre.

| Land Use Type | Rate above | Yield | Daily Traffic Generation | | ur Traffic ration PM |
|---------------------|---|----------------------------------|--------------------------------|----|----------------------------|
| Childcare Centre | 4 VPD per child+2 VPD per employee 0.8 VPH AM Peak per child 0.7 VPH PM Peak per child | 104 children 18 staff members | 452 | 83 | 73 |

Does the site have existing trip generation / attraction? YES

ILO

Single residence

9 vehicular trips per day;

1 vehicular trip per hour in both Peak Hours

What is the total impact of the new proposed development?

The proposed development is expected to generate 443 vehicular trips per day, 82 vehicle trips in the AM peak and 72 vehicular trips in the PM peak (deduction of existing traffic from the proposed traffic). According to WAPC this is considered as a moderate traffic impact to the surrounding road network.

2.14 Traffic Flow Distribution

How many routes are available for access / egress Two (2) to the site?

Route 1 / Movement 1

Provide details for Route No 1 To/from the north via Briggs Road

Percentage of Vehicular Movements via Route No 1 60% [271 VPD; AM 50 VPH; PM 44 VPH]

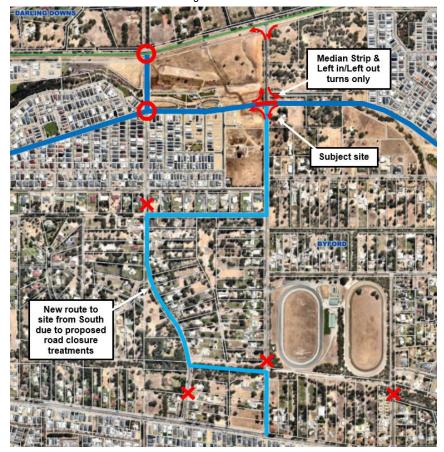
Route 2 / Movement 2

Provide details for Route No 2 To/from the south via Briggs Road

Percentage of Vehicular Movements via Route No 2 40% [181 VPD; AM 33 VPH; PM 29 VPH]

Note* - The distribution is likely to change after complete development of the Local Structure Plan and Subdivisions, including the extension of Indigo Parkway. Furthermore, based on the information from the Shire of Serpentine-Jarrahdale, a median is expected to be constructed on Indigo Parkway, allowing only LILO movements from/to Briggs Road. This amendment would change the traffic distribution to future routes which would be available for reaching the site. For example, for reaching Thomas Road, vehicles would go through via Indigo Parkway and via future extension of Malarkey Road.

However, the timeframe of this amendment is currently unknown and there is limited information on how the traffic would reroute to reach the site. Therefore, this report and Appendix 2 show the traffic distribution with a full movement intersection of Briggs Road and Indigo Parkway (extended driveway). Below is a screenshot showing the future amendments to the surrounding road network.



Screenshot received from the Shire of Serpentine-Jarrahdale.

2.15 Surrounding Area Developments

Nominate the significant developments in the vicinity of the proposed development.

Future Childcare centre for 110 children on Lots 367 to 373 of the Byford Meadows Stage 7 Development Plan.

This lots are fronting Indigo Parkway (west of Briggs Road), Briggs Road and Caspian Chase

This proposed development will be located directly across the proposed childcare centre which is the subject of this report.

What is the expected traffic impact from the nominated development

As per Shawmac's TIS report (February 2023), the proposed childcare will generate up to 450 vehicular trips per day and 87 vehicular trips per hour in peak hours.

Will the peak hours of the developments coincide?

Yes. The two childcare centres will have similar traffic impact and given it is the same land use, peak hours will coincide.

Impact on Briggs Road

KCTT believe that having two childcare centres on opposite sides of Briggs Road will not have a negative impact on the traffic flow conditions and traffic safety of this road section. Both childcare centres will have their access points away from Briggs Road.

The childcare centre west of Briggs Road will have two crossovers and two connections with Briggs Road:

- 1 LILO crossover from/to Indigo Parkway
- 1 full movement crossover from/to Caspian Chase.

Therefore, traffic will be dispersed from Indigo Parkway / Briggs Road intersection as vehicles will have to use Caspian Chase crossover to reach Briggs Road.

KCTT believe that Briggs Road will successfully absorb both childcare centres' generated traffic.

After the expected addition of median on Indigo Parkway (timeframe unknown), traffic volume on Briggs Road will significantly decrease as there will be no direct route via Briggs Road to Thomas Road.

Conclusion

2.16 Vehicle Crossover Requirements

Are vehicle crossovers required onto existing road networks?

YES

How many existing crossovers?

One (1)

How many proposed crossovers?

One full movement crossover will be proposed in the Stage 1 (before the completion of the entire Structure Plan area)

One additional full movement is envisioned for the ultimate

scenario.

How close are proposed crossovers to existing

More than 50m

intersections?

YES

Does this meet existing standards?

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2.17 Public Transport Accessibility

| How many bus routes are within 400 metres of the subject site? | One (1) |
|---|---------|
| How many rail routes are within 800 metres of the subject site? | None |
| | |

| Bus Route | Description | Peak Frequency | Off-Peak Frequency |
|-----------|---|----------------|--------------------|
| 254 | Armadale Station – Byford via Kardan Boulevard | 15 minutes | 60 minutes |

Walk Score Rating for Accessibility to Public Transport

22 | Minimal Transit. It is possible to get on a bus.

2.18 Pedestrian Infrastructure

Describe existing local pedestrian infrastructure within a 400m radius of the site:

Currently there is no pedestrian path on Briggs Road.

It is expected that pedestrian path will be added within Byford Area D works on both existing Briggs Road and Indigo Parkway extension.

What is the Walk Score Rating?

2 Car-Dependent. Almost all errands require a car.

2.19 Cyclist Infrastructure

| Are there any PBN Routes within an 800m radius of the subject site? | YES |
|---|-----|
|---|-----|

If YES, describe:

| , | | | |
|---|--|--|--|
| Classification | Road Name | | |
| " Other Shared Path (Shared by Pedestrians and Cyclists |)" Thomas Road | | |
| " Good Road Riding Environment" | Masters Road | | |
| Are there any PBN Routes within a 400m radius of the s | subject site? | | |
| Does the site have existing cyclist facilities? | NO | | |
| Does the site propose to improve cyclist facilities? | The bicycle infrastructure is likely to improve with the completion of the entire Byford Area D. | | |

2.20 Site-Specific Issues and Proposed Remedial Measures

How many site-specific issues need to be discussed?

Site-Specific Issue No 1

Remedial Measure / Response

One (1)

Traffic Impact

As stated above the additional traffic attracted to the subject site is expected to increase by a maximum of 452 vehicular trips per day and 83 vehicular trips in the peak hour.

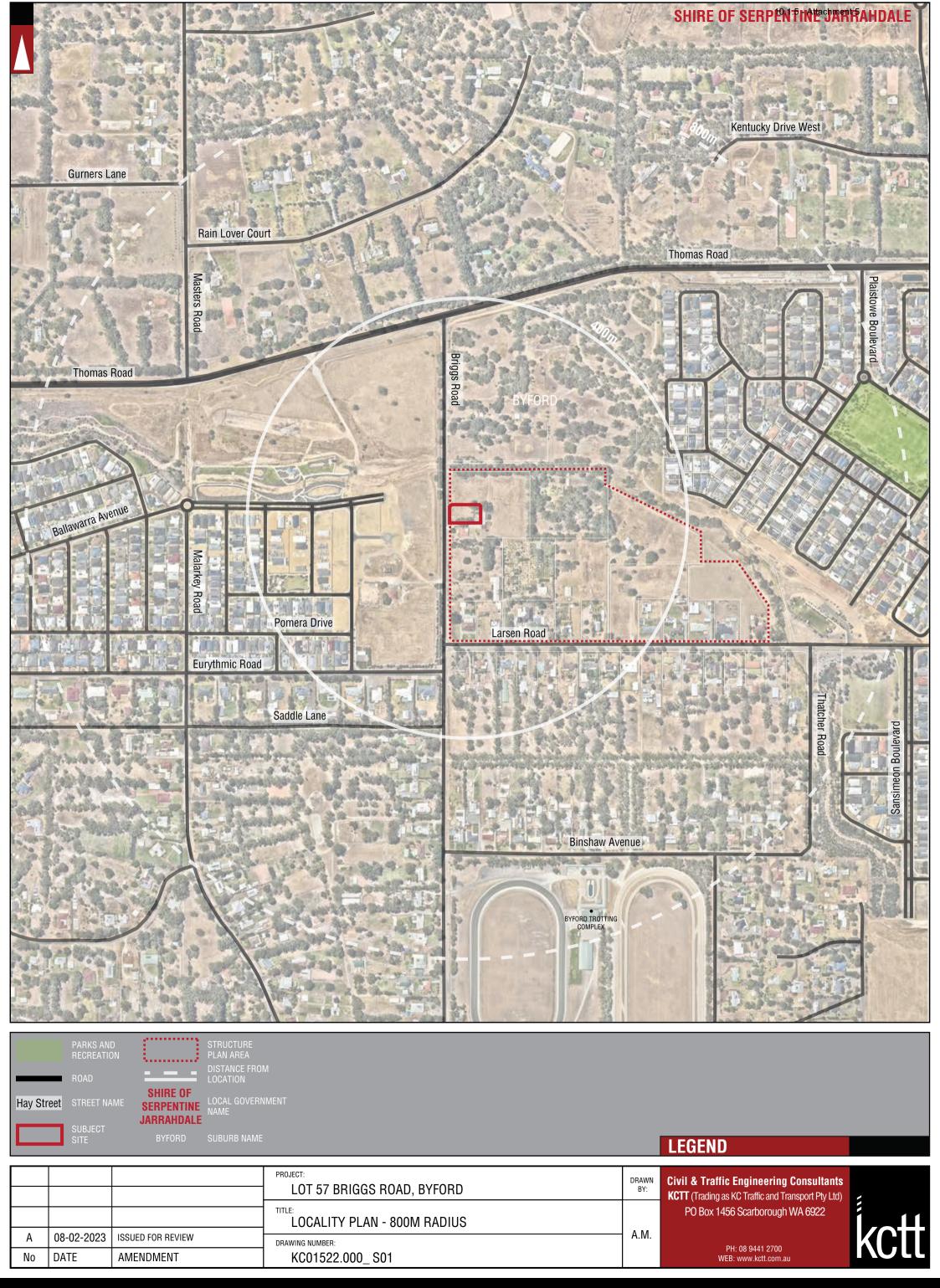
Briggs Road is classified as Local Distributor as per MRWA classification with the maximum desirable volume of 6,000 vehicles per day. Available traffic counts show approximately 3,900 VPD on Briggs Road south of Thomas Road. Therefore, with the added traffic from the subject site the street would remain well under the maximum desirable traffic volume for Local Distributor roads.

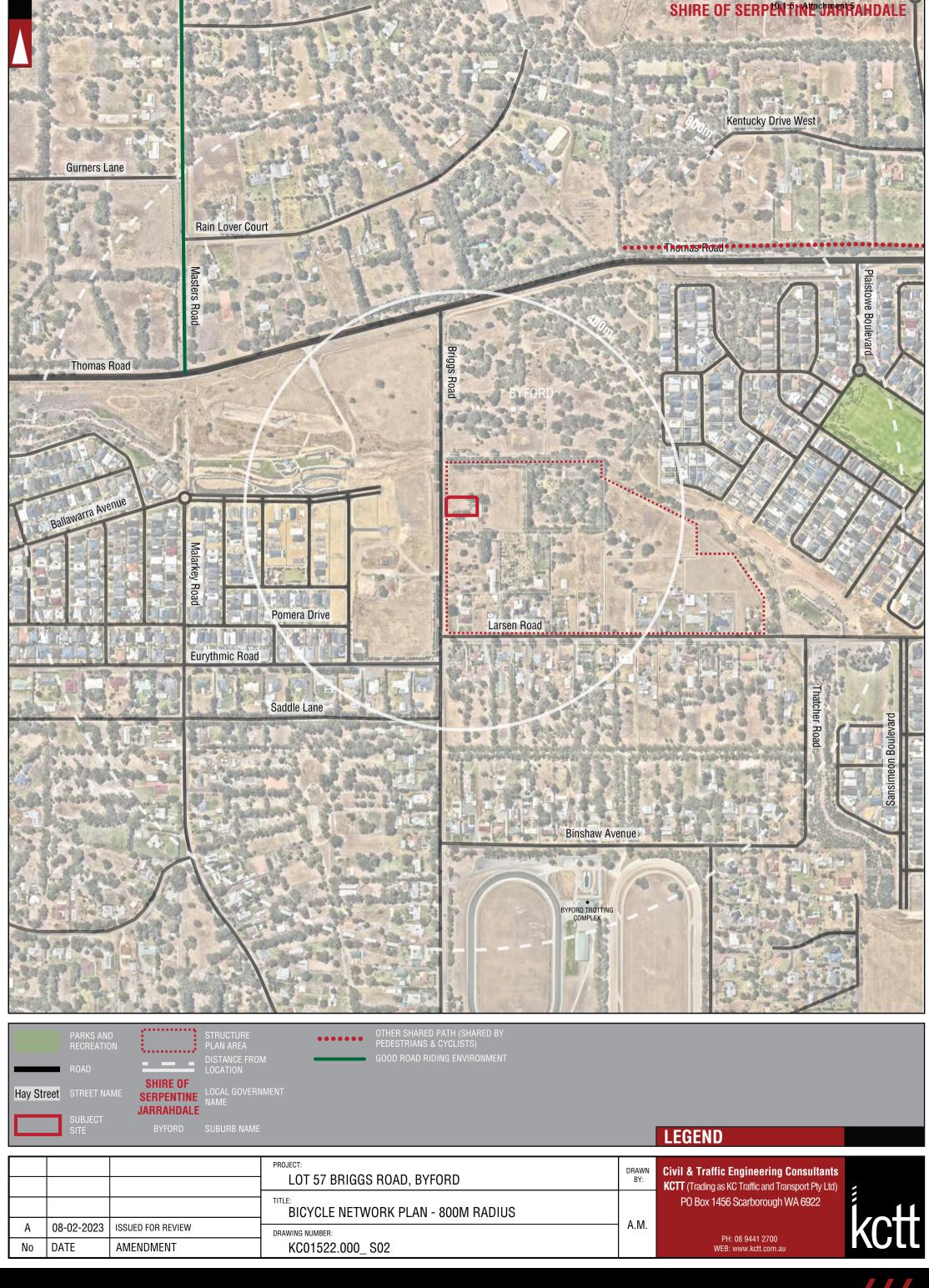
Other surrounding roads would absorb significantly less traffic than Briggs Road, moreover, the traffic would be dispersed so that the impact can be considered negligible.

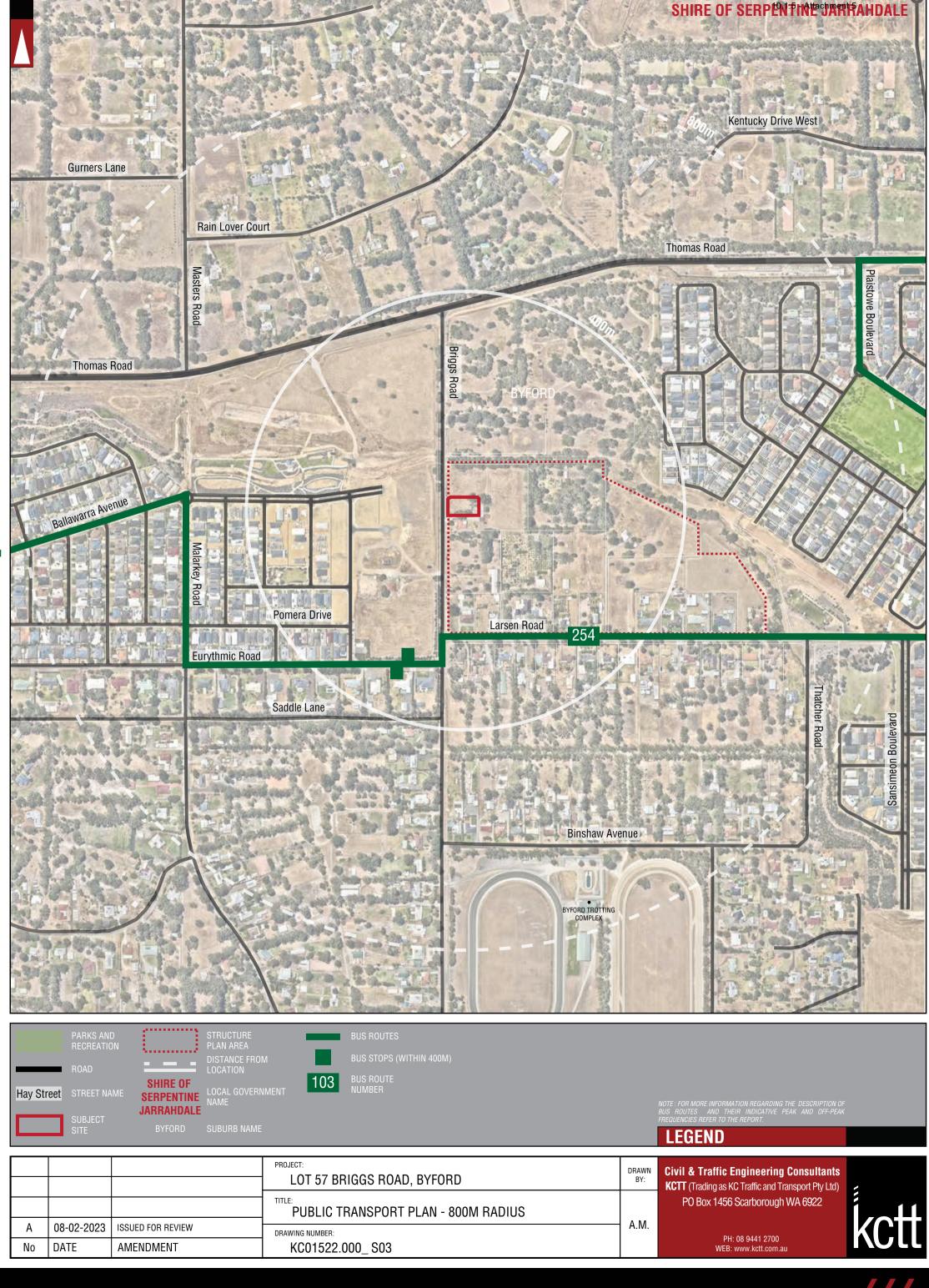
Appendix 2

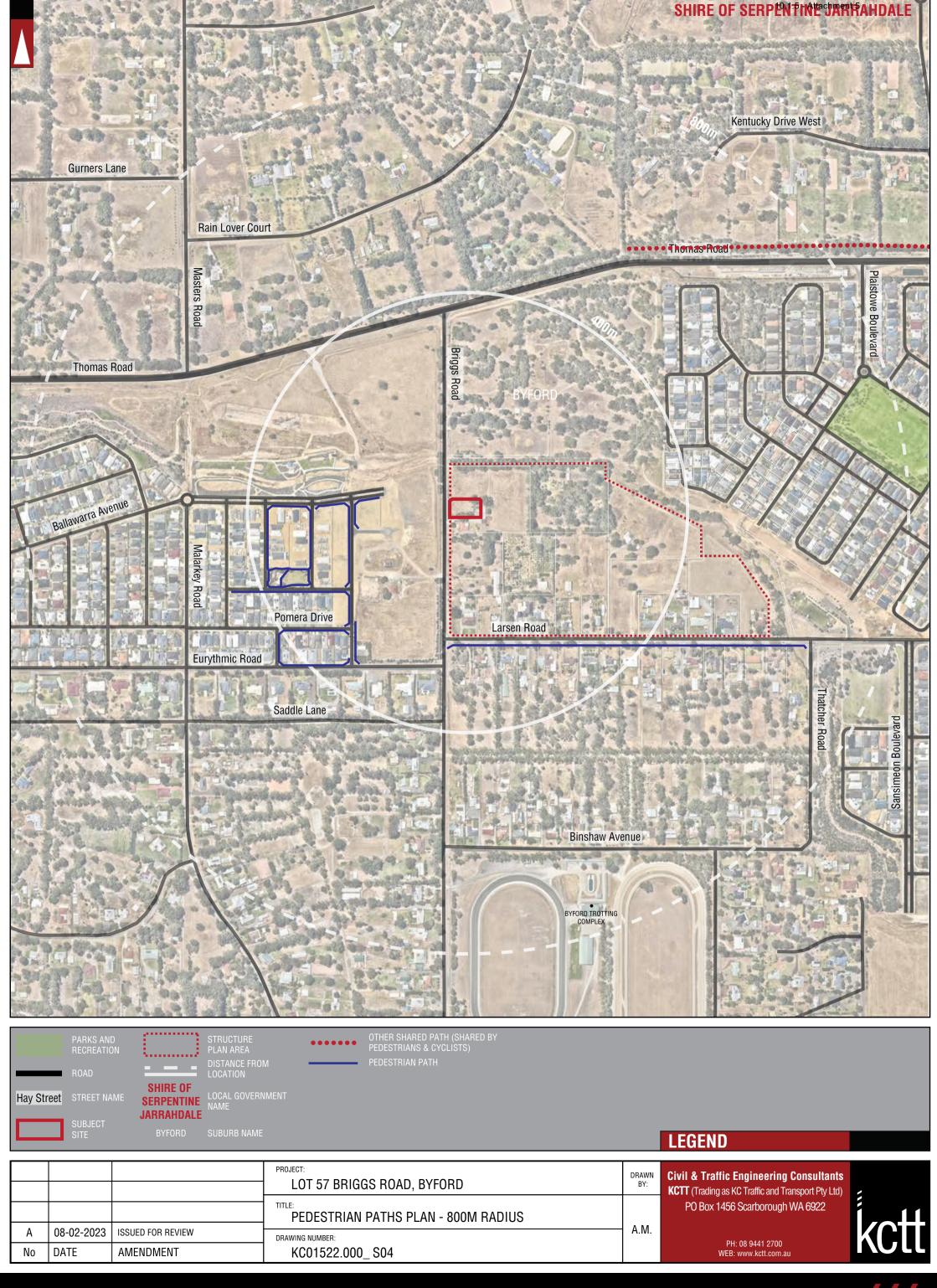
Transport Planning and Traffic Plans

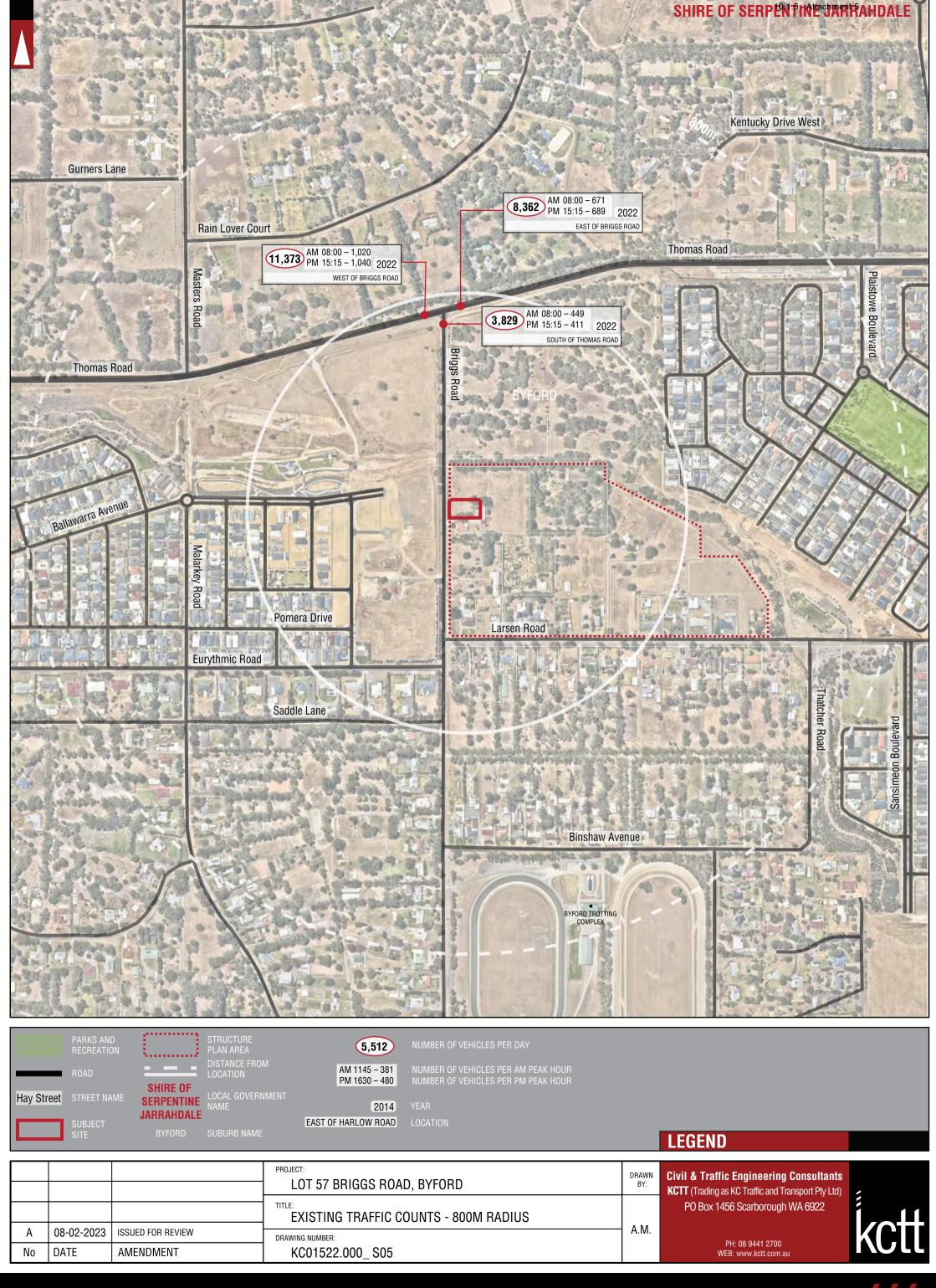
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LOCATION BOUNDARY



ROAD (VARIED WITH ROAD WIDTH)



Lewis Road ROAD NAME



Total Expected Traffic Generation from the proposed development



Total Expected Traffic Generation from Subject Site on the specific section of road - IN and OUT direction



LEGEND

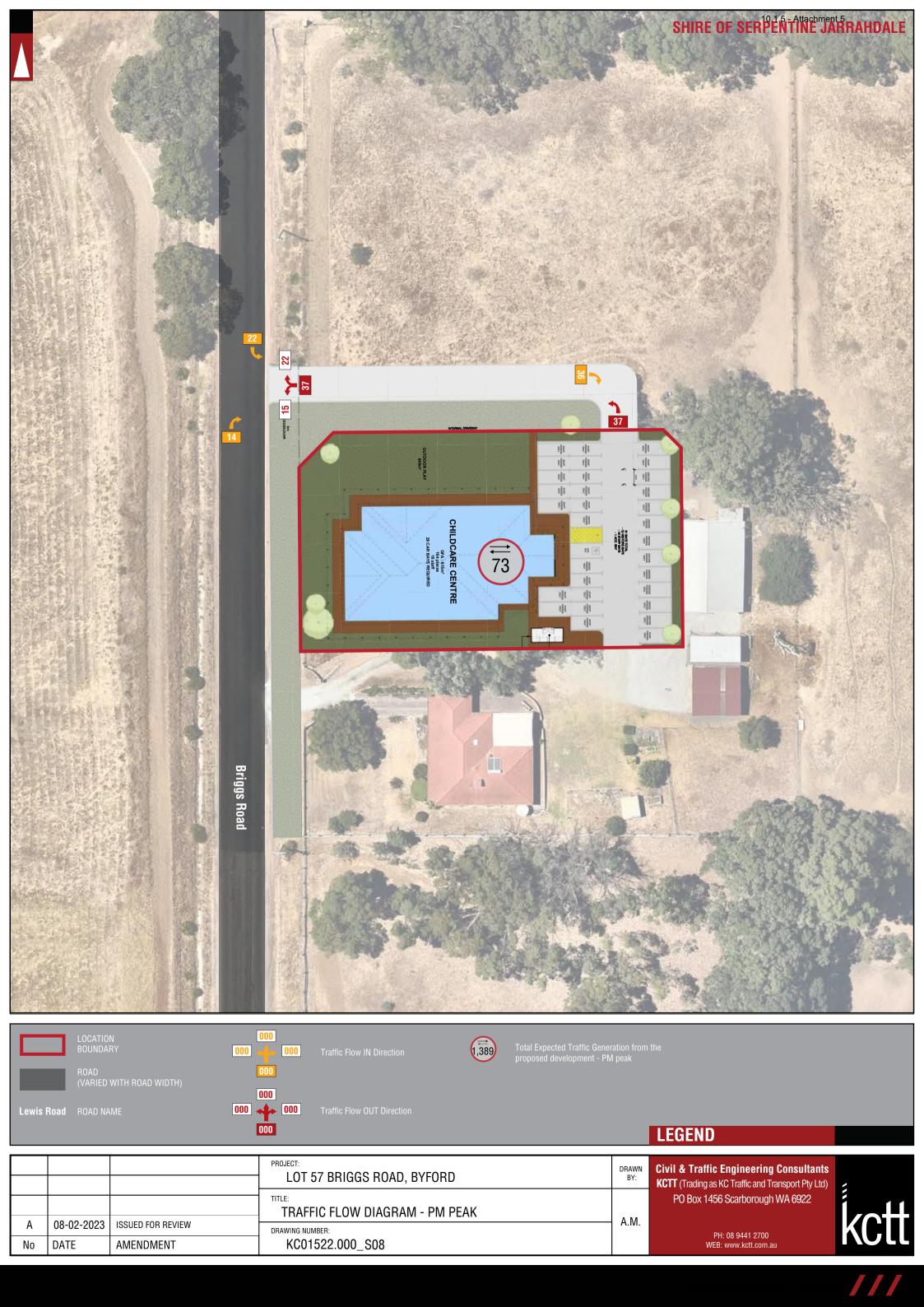
| | | | PROJECT: LOT 57 BRIGGS ROAD, BYFORD | DRAWN BY: |
|----|------------|-------------------|-------------------------------------|--------------|
| | | | TITLE: TRAFFIC FLOW DIAGRAM | |
| Α | 08-02-2023 | ISSUED FOR REVIEW | DRAWING NUMBER: | A.M. |
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Appendix 3

Vehicle Turning Circle Plan

Transport Impact Statement | KC01522.000 Lot 57 Briggs Road, Byford

