Our Ref: 57035-001-01

QA: es

07 May 2024 Assessment Manager Burdekin Shire Council 145 Young Street AYR QLD 4807 Attention:

Development Assessment

Dear Sir/Madam,

DEVELOPMENT APPLICATION

Development Permit for Material Change of Use (Service Station)

7-9 Eighth Avenue, Home Hill

We act on behalf of the Applicant, Freeways Australia Pty Ltd, in relation to the

abovementioned application.

Please find enclosed a Development Application seeking a Development Permit for Material Change of Use (Service Station) at 7-9 Eighth Avenue, Home Hill on land formally described as Lot 8 on H61653.

In accordance with Burdekin Shire Council's schedule of fees and charges 2023/2024, the development application fee is \$2,631.00.

The fee will be paid directly to council by the applicant upon receipt of Council's

application reference number.

Thank you in advance and please do not hesitate in contacting the undersigned should you require further information.

Yours faithfully,

Emma Staines Town Planner

Brazier Motti Pty Ltd Encl.

Development Application

595 Flinders Street, Townsville Q 4810 P 07 4772 1144 E townsville@braziermotti.com.au W www.braziermotti.com.au

DE VELO PMEN T A PPL ICA TION DE VELO PMEN T PE RMI T FO R:

SEEKIN G A

Material Change of Use (Service Station) on behalf of FREEWAYS AUSTRALIA PTY LTD at 7-9 EIGHTH AVENUE, HOME HILL on LOT 8 ON H61653 Brazier Motti have prepared this report for the sole purposes of Freeways Australia Pty Ltd for the specific purpose

of a Development Application seeking a Development Permit for Material Change of Use (Service Station) at 7-9

Eighth Avenue, Home Hill.

In preparing this report we have assumed that all information and documents provided to us by others, such as the

client, other consultants acting on the client's behalf or government agencies, to be complete, accurate and current.

Signed on behalf of Brazier Motti Pty Ltd

EMMA STAINES Town Planner Brazier Motti Pty Ltd Signed by reviewer

ANNE ZAREH Senior Town Planner Brazier Motti Pty Ltd

BRAZIER MOTTI 595 Flinders Street Townsville Q 4810 Ph: 4772 1144 Final: May 2024

Prepared by: EJS

QA: es.az

Job No: 57035-001-01

CONTENTS 1.0
INTRODUCTION
2.0
THE SITE
3.0
THE PROPOSAL
4.0
RELEVANT LEGISLATION
5.0
6.0
7.0
4.1
COMMONWEALTH LEGISLATION
4.2
THE PLANNING ACT 2016
4.3
STATE ASSESSMENT AND REFERRALS
4.4
STATE PLANNING POLICY
4.5
NORTH QUEENSLAND REGIONAL PLAN
4.6
ASSESSMENT MANAGER AND PLANNING SCHEME
4.7
PUBLIC NOTIFICATION
THE PLANNING FRAMEWORK

LAND DESIGNATION

5.2
LEVEL OF ASSESSMENT, ASSESSABLE BENCHMARKS & APPLICABLE CODES
BURDEKIN SHIRE COUNCIL PLANNING SCHEME 2022
STRATEGIC FRAMEWORK
6.2
ZONE CODE PROVISIONS
6.3
DEVELOPMENT CODES
6.4
OVERLAY CODES
CONCLUSION
APPENDICES Appendix A:
DA form 1 - Development Application Details and Landowner's Consent
Appendix B:
Certificate of Title and Smart Map
Appendix C:
Proposed Site Plan 57035/001E prepared by Brazier Motti
Appendix D:
Traffic Impact Assessment prepared by Noble Consulting Engineers
Appendix E:
Preliminary Investigation (Flood Impact) Technical Memorandum prepared by Noble Consulting Engineers
Appendix F:
SARA Mapping
Appendix G:
Response to State Code 1: Development in a State Controlled Road Environment

INTRODUCTION

This town planning report has been prepared on behalf of the Applicant, Freeways Australia Pty Ltd, in support of a

Development Application seeking a Development Permit for Material Change of Use to establish a Service Station

on land at 7-9 Eighth Avenue, Home Hill, being formally described as Lot 8 on H61653.

The development application is made in accordance with section 51 of the Planning Act 2016 and contains the

mandatory supporting information specified in the applicable development application form, included in Appendix A.

The subject site is located within the Burdekin Shire Council local government area and the applicable planning

scheme for use by the Assessment Manager is the Burdekin Shire Council Planning Scheme 2022 ("the Planning Scheme").

In accordance with the Planning Scheme, the application is subject to impact assessment and therefore public notification will be required.

To assist in Council's determination of this development application, this planning report covers the following matters:

Section 2:-

A site description including the site characteristics and its immediate surrounds.

Section 3:-

A detailed description of the development proposal.

Section 4:-

A review of the relevant legislation provisions.

Section 5:-

A review of the planning framework.

Section 6:-

An assessment of the proposal against the Burdekin Shire Council Planning Scheme 2022.

Section 7:-

Conclusion and recommendation.

Freeways Australia Pty Ltd | 57035-001-01

3

THE SITE

The subject site is located at 7-9 Eighth Avenue, Home Hill approximately 12 kilometres south of Ayr. It is formally

described as Lot 8 on H61653 and has an area of 1,196m2.

The certificate of title confirming ownership of the site by Freeways Australia Pty Ltd is included Appendix B.

Figure 1 below shows an aerial of the site and its immediate surrounds. The Smart Map is included in Appendix B

which confirms the site area, tenure and surrounding cadastre.

Figure 1: Aerial image of the site and immediate surrounds

Source: Queensland Globe, 2024

The subject site is currently improved by a building that historically operated as a service station up until around

the year 2004. Since then, it has been used as a mechanical workshop (McKaig's Hiway Motors). The building has a

gross floor area (GFA) of approximately 600m2, which includes undercover parking and storage areas.

Access to the site is afforded via constructed driveways at three different locations. One off Second Street that is

approximately 9m wide, and the other two off Eighth Avenue being approximately 14m wide and 21m wide.

The site is included in Council's reticulated water and sewer service area and connected to all relevant infrastructure

that is appropriately managed to deal with the demand generated by the existing use. It is also serviced by an

existing overhead electricity supply located within Eighth Avenue.

The land is wholly contained within the Low Density Residential Zone for the purposes of the Planning Scheme.

Figure 3 below shows an extract of the Planning Scheme zone map.

Figure 2: Extract of Burdekin Shire Council Zone Map

Source: Burdekin Shire Council Planning Scheme, 2022

Overall, the pattern and zoning of development, in the vicinity of the site comprises a mix of commercial, community and residential type land uses.

To the east of the site, the land is characterised by low density residential and includes mainly single detached

dwellings and dual occupancies. Land to the south is zoned community facilities and includes a place of worship

(Greek Orthodox Parish & Community of St. Stephen) and indoor sport and recreation (Shim Jang Taekwondo, Home

Hill). On the western side of the Bruce Highway, the land is zoned low-medium density and comprises mainly single

detached dwellings. Directly opposite the subject site is the Burdekin Motor Inn.

THE PROPOSAL

This report details an application seeking a Development Permit for Material Change of Use to establish a service

station on the subject site described above. The use will be contained within the existing building and does not

involve any additional gross floor area (GFA).

3.1

DEFINITION OF PROPOSED USE

In accordance with Schedule 1.1 of the Planning Scheme, the proposed land use is defined as a Service Station as follows:

The use of premises for-

- (a) selling fuel, including, for example, petrol, liquid petroleum gas, automotive distillate or alternative fuels;
- (b) a food and drink outlet, shop, trailer hire, or maintaining, repairing, servicing or washing vehicles, if the use is ancillary to the use in paragraph (a).

 3.2

PROPOSED DEVELOPMENT

The Applicant proposes to refurbish a portion of the existing premises to reestablish a service station on site,

providing a service to the community.

It is proposed to retain and make use of all existing infrastructure except for the fuel dispensers which are to be

replaced. Part of the refuelling area will be located under the existing canopy which is to be extended to cover

additional refuelling area. The existing fuel tanks will be connected to the new dual sided dispensers via $\,$

underground pipework.

The site plan showing the location of the existing building and structures, on site carparking and extension to the

existing canopy is included in Appendix C. The proposal comprises:

- Retention of the existing building structures for storage and workshop;
- Removal of a small section of the existing building to accommodate new 30,000L above ground diesel tank;
- Conversion of part of the existing building to convenience store including kitchen facilities;
- Provision of six (6) fuel-filling positions; and
- Raise and extend the existing canopy to cover the fuel-filling positions and to accommodate fuel tanker

truck height.

Operation & Staff

The service station will comprise a small convenience store to sell goods that offer small scale vehicle maintenance

products such as gas, oil, and spare parts. The convenience store will also sell food, drinks, and other products. The

kitchen will be incorporated to serve hot and cold food and drink to customers, ancillary to the primary use.

The existing workshop will be retained for the maintaining, repairing, servicing and washing of vehicles. The

workshop will not operate independently and will be ancillary to the service station.

The service station will operate from 5:00am to 10:00pm, Monday to Sunday and on public holidays. It will be always

operated by up to two (2) staff.

Water, Sewer & Stormwater

The subject site is currently connected to Council's reticulated water and sewer infrastructure. It is not anticipated any new connections or upgrades will be required to service the proposed development. Stormwater will discharge to the existing kerb and channel at Eighth Avenue.

Freeways Australia Pty Ltd | 57035-001-01

6

Traffic, Access and Carparking

Seven (7) on-site parking spaces (inclusive of one (1) disabled parking bay) will be provided on site to service the development.

The three (3) existing access locations will be retained to service the proposed development. Both Access Driveway

1 and 2 will be designated as Ingress-only access driveways where the Access Driveway 3 will be designated as

Egress-only access driveway, to provide one-way traffic flow through the proposed service station.

A traffic impact assessment (TIA) including a road link capacity assessment (Eighth Avenue), an intersection

assessment (Eighth Avenue/Second Street Intersection) and a road safety assessment, has been undertaken by

Noble Consulting Engineers. The report is included in Appendix D. Waste Management

A designated refuse storage area is provided on site, suitable to accommodate two skip bins that will be collected

by a private waste collection company as required.

Signage

The existing sign in the south east corner of the site will be replaced with a digital price board.

RELEVANT LEGISLATION

4.1

COMMONWEALTH LEGISLATION

The application is not subject to assessment against Commonwealth legislation. It is not anticipated that development of this land will trigger assessment against the Environmental Protection and Biodiversity Conservation

Act 1999 (EPBC), as it is not anticipated that the development will significantly impact upon a matter of national environmental significance.

4.2

THE PLANNING ACT 2016

The Planning Act 2016 provides the framework for coordinating local, regional and state planning. Given the nature of the development, the application requires assessment against this legislation.

4.3

STATE ASSESSMENT AND REFERRALS

The Development Assessment Rules (DA Rules) incorporates a referral process, established through the Planning

Regulation 2017, enabling relevant State agencies to have input in the assessment process.

Consideration of the proposed development against Schedule 10 of the Planning Regulation 2017 determined that

the proposal triggers referral for the matters identified in Table 3 below. Table 3 - Referral Triggers MATTER

State Transport Infrastructure

STATUATORY TRIGGER

Schedule 10, Part 9, Division 4, Subdivision 2, Table 4, Item 1 Development application for a material change of use, other than an excluded material change of use, that is assessable development under a local categorising

- instrument, if all or part of the premises—
 (a) are within 25m of a State transport corridor; or
- (b) are a future State transport corridor; or
- (c) are-

(i)

adjacent to a road that intersects with a State-controlled road; and (ii)

within 100m of the intersection

For State Transport Infrastructure, referral will be undertaken to the State Assessment and Referral Agency (SARA).

Development will be guided by outcomes sought by the State Development Assessment Provisions to the extent

relevant for State Transport being State Code 1: Development in a State Controlled Road Environment.

A copy of the mapping is included in Appendix F and an assessment against State Code 1 is included in Appendix G.

4.4

STATE PLANNING POLICY

In accordance with section 1.2.1 – State planning policy of the Planning Scheme, the Planning Minister is satisfied

that the State Planning Policy (SPP) July 2017 is appropriately integrated into the Burdekin Shire Council Planning

Scheme in full. Hence, for the purposes of this development, we consider that assessment of the proposal against the provisions of the SPP is not required, and all relevant matters will be

the provisions of the SPP is not required, and all relevant matters will be dealt with under the provisions of the Planning Scheme.

Freeways Australia Pty Ltd | 57035-001-01

8

ASSESSMENT MANAGER AND PLANNING SCHEME

Burdekin Shire Council is nominated as the Assessment Manager for the application. The applicable planning scheme is the Burdekin Shire Council Planning Scheme 2022.
4.6

PUBLIC NOTIFICATION

Under the provisions of the Planning Act 2016, the proposed development at this location is subject to Public Notification. Public Notification will be carried out in accordance with Part 4 of the DA Rules.

Freeways Australia Pty Ltd | 57035-001-01

9

THE PLANNING FRAMEWORK

The Planning Scheme seeks to achieve outcomes through the identification of a number of overall outcomes,

performance outcomes and acceptable outcomes.

However, it should be noted that the Planning Scheme is performance based. That means that the acceptable

solutions are to be read as offering one way of achieving compliance with a code but do not prohibit alternate

solutions where the performance outcomes can be shown to be met.

Land identified within the Planning Scheme is categorised by a number of zones and precincts to guide development

across the region. The Planning Scheme further identifies a range of overlays that may impact the land, these are governed by overlay codes.

LAND DESIGNATION

In accordance with the Planning Scheme, the site is included within the Low Density Residential Zone and is

identified as affected by the following overlays:

- Acid sulfate soils overlay map (5 20m contour); and
- Flood hazard overlay map (medium high hazard).

As stated in Section 3.3.2 (4) Where development is proposed on premises partly affected by an overlay, the

category of development or assessment for the overlay only relates to the part of the premises affected by the

overlay. For the purposes of this development application, assessment is required against the Flood Hazard Overlay Code.

5.2

5.1

LEVEL OF ASSESSMENT, ASSESSMENT BENCHMARKS AND APPLICABLE CODES

Table 3.5.1 of the Planning Scheme identifies reconfiguring a lot as assessable development and is impact assessable

for the purposes of this development application.

The assessment table identifies that an application requires assessment against the Planning Scheme, hence the

Strategic Framework and the following codes:

- · Low Density Residential Zone Code;
- Development Works Code; and
- Flood Hazard Overlay Code.

BURDEKIN SHIRE COUNCIL PLANNING SCHEME 2022

A complete assessment of the proposed development against the Planning Scheme is provided below. $\ \ \,$

6.1

STRATEGIC FRAMEWORK

The strategic framework, described in Part 2 of the Planning Scheme provides sensible measures that are of

assistance in determining the suitability of development to meet the needs of the community.

It establishes four themes that represent the policy intent of the Scheme. The themes are:

- (a) Liveable communities and infrastructure
- (b) Economic growth
- (c) Safe and resilient communities
- (d) Natural resources, the environment and heritage

The themes, on balance, seek to create opportunities for a diversity of lifestyle options in settings that are efficiently

and affordably serviced, and that are respectful of environmental values.

The Framework establishes objectives to support the Shire's economy and community given its strong agricultural

base, quality land and abundant water resources. It also recognises that large parts of the Burdekin are subject to

some form of natural hazard and seeks the ensure new development is managed to reduce risk to life and property.

The proposed development does not require any changes to existing infrastructure arrangements, therefore

ensuring the safe, efficient and cost-effective provision and operation of existing infrastructure networks (S 2.3.5

(1)). The proposed development is also of a scale commensurate with the capacity of the road network and minor

changes to existing access arrangement on Second Street is proposed to improve safety and efficiency of the

network (S 2.3.5 (4)).

The proposed development is for a change of use in an existing building therefore does not worsen the severity of,

or exposure to, the hazard on-site or to other properties (S $2.5.1\ (4)$). No changes to the impermeable nature of the

site are proposed as part of this application to ensure flood flow conveyance paths and flood storage volumes of

the floodplain are maintained. (S 2.5.2 (1 and 5)). It is considered the proposed development mitigates the risk to an acceptable level.

The following planning grounds have been identified to support the application:

- the proposed development does not comprise any additional GFA and the built form will remain consistent
- with that established by the surrounding locality;
- \bullet the historic use of the premises has been for non-residential purposes and that contributes to the

established character of the area;

- there is long-term community understanding and acceptance of a non-residential use at this location;
- the proposal permits adaptive re-use of an premises along a major transport route;
- the development benefits the local community providing a service and generating economic activity;
- access, car parking and manoeuvring areas can reasonably be accommodated;
- the proposed development ensures cost-effective provision and operation of existing infrastructure networks; and

• the proposal does not increase the exposure of risk to people and property to natural hazards (flood).

The proposal further satisfies the lower order components of the Planning Scheme, i.e. zone codes, development codes and overlay codes. The assessment below demonstrates how the proposal satisfies the most applicable lower order components of the Planning Scheme.

ZONE CODE PROVISIONS

6.2.1 Low Density Residential Zone Code

The proposed development is nominated for assessment against the Low Density Residential Zone Code.

The purpose of the Low Density Residential Zone is to provide for-

- (a) a variety of low density dwelling types, including dwelling houses; and
- (b) community uses, and small-scale services, facilities and infrastructure, to support local residents.

The purpose of the zone will be achieved through the following overall outcomes—

(a) residential development in the low density residential zone consists of one and two storey dwelling houses

and dual occupancies;

- (b) non-resident workforce or rural workers' accommodation and rooming accommodation, do not establish in this zone;
- (c) development creates a high level of residential amenity and convenient accessibility for pedestrians and
- (d) small scale non-residential uses occur within the zone where they provide a local community service or

support the day-to-day needs of the immediate residential community and do not unreasonably detract

from the residential amenity of the area. These uses may include a community use, community care centre

childcare centre, a shop being a local convenience store and an office and health care service or veterinary

service that is limited to a single practitioner;

- (e) non-residential development:
- (i) is of a height and scale consistent with surrounding development;
- (ii) is oriented to the street front;
- (iii) maintains a consistent building alignment in the street;
- (iv) accommodates parking to the side or rear of buildings; and
- (v) minimises impacts on the amenity of nearby residential uses;
- (f) home based businesses occur at a scale that is consistent with the amenity and character of the surrounding area;
- (g) the function of the state controlled transport corridors is protected Response

The proposed development at this location provides a service to support local residents and the wider region. The

scale and nature of the proposal is consistent with what has historically operated on site and is a use anticipated by

adjoining landowners. A complete assessment against the relevant benchmarks of the code is provided below:

PO1 - Complies

No changes to the existing building height are proposed to remain consistent with the existing low-rise scale of the locality.

PO2 - Complies

All illumination coming from the subject site will not exceed 8 lux when measured at any point 1.5m outside of the

boundary of the property at any level from ground level up. This is consistent with the requirements of a commercial $\ensuremath{\mathsf{E}}$

use within the centre zone.

Lighting can be reasonably conditioned as part of an approval to ensure the development has no additional impact

on the surrounding amenity.

PO3 - Compiles

The establishment will retain its current connections to Council's reticulated water and sewer networks. The site

has frontage to Eighth Avenue (the Bruce Highway) with kerb and channelling.

This is confirmed in the TIA in

Freeways Australia Pty Ltd | 57035-001-01

12

Appendix D. Roof and surface water will continue to drain as per status quo.

Given there are no changes to the built

form or pavement on site, this is an acceptable outcome.

PO4 - PO7 - Not applicable

The proposal is not for a dwelling house or dual occupancy.

PO8 - PO13 - Not applicable

The proposal is not for a home-based business.

P014 - Complies

The historic use of the premises has been for non-residential purposes and that contributes to the established

character of the area. Furthermore, there is long-term community understanding and acceptance of non-residential

use at this location.

The site, given its location on a major transport corridor is suitable for a commercial use given road noise that would

impact amenity for a residential use.

P015 - Complies

The existing building is orientated to Eighth Avenue and is consistent with the alignment of the adjoining buildings

within the block to the south. Parking is provided to the front of the site which is consistent with the existing use

and with the proposed use, being a services station. This allows customers to enter, exit and manoeuvre the site with ease.

P016 - Not applicable

While the proposal is for commercial use, the site area is 1,196m2 which is capable of accommodating the proposed use.

P017 - Complies

The location of the on-site parking allows casual surveillance to the bin storage area. The signage and wayfinding

will be consistent with that of any service station as well as the location of the entrance in the centre of the building.

P018 - Complies

A landscape strip is included within the road reserve along the Eighth Avenue frontage. Given the nature of the

existing premises, no additional landscaping is proposed.

P019 - Complies

The proposed development is consistent with the nature of the subject site as it currently operates. It is not

anticipated the change of operation will increase existing noise, light, traffic it generates. The TIA in Appendix D

demonstrates traffic generated by the development is minimal.

P020 - Not applicable

The proposal is not for a sensitive land use.

Given the above, the proposed development is considered consistent with the purpose, overall outcomes and

performance outcomes of the Low Density Residential Zone Code. 6.3

DEVELOPMENT CODES

6.3.1 Development Works Code

The proposal is nominated for assessment against the Development works code.

The purpose of this code is to ensure that development provides services to a standard which is efficient, effective

and reflects community expectations, enhances the lifestyle of the community, and minimises impacts on

neighbours, the streetscape and the environment.

Response

The proposed development at this location provides a service to support local residents and the wider region. The

scale and nature of the proposal is consistent with what has historically operated on site and is a use anticipated by

adjoining landowners. A complete assessment against the relevant benchmarks of the code is provided below:

PO1 - PO11 - Not applicable

The proposal does not require filling or excavation.

P012 - Compiles

The establishment will retain its current connections to Council's reticulated water, sewer and stormwater

networks.

P013 - Compiles

No changes to the existing connections are proposed to facilitate the proposed development.

P014 - P016 - Not applicable

P017 - Complies

The site is connected to the nbn and Telstra telecommunications networks and is serviced by an existing Ergon

Energy overhead electricity supply located within Eighth Avenue.

P018 - Complies

No changes to the existing built surface are proposed to facilitate the development. Stormwater regime will remain

the same.

P019 - Complies

Stormwater run-off from the development site has been assessed by Noble Consulting Engineers which found:

 \bullet The proposed development utilises all the existing site features with no significant site modification or

changes to the existing site levels;

- At post-development, the increase of the overall site impervious area is considered insignificant (i.e. 1.2%); and
- The pre and post development stormwater regime will remain the same. For further information, refer to the technical memorandum in Appendix E. PO20 Complies

No clearing or earthworks are required to facilitate the development and no adverse changes to the impervious

surface is proposed. For further information, refer to the technical memorandum in Appendix ${\tt E}.$

PO21 - Complies

Stormwater infrastructure is located in the Eighth Avenue road corridor. most of the site catchment flows from

northeast/east towards west via overland sheet flow towards Eighth Avenue. The site stormwater runoff is then

intercepted by the existing kerb and channel fronting the subject site prior discharging into the underground

pits/pipes system at Eighth Avenue. For further information, refer to the technical memorandum in Appendix E.

P022 - Complies

The proposed development does not involve major excavation or filling that would otherwise disturb acid sulfate soils.

P023 - P029 - Complies

The subject site has frontage to Eighth Avenue (the Bruce Highway) which is a state-controlled road and secondary

frontage to Second Street which is a local road. The site is ideal for a service station given the location and high

traffic volumes.

A TIA including a road link capacity assessment (Eighth Avenue), an intersection assessment (Eighth Avenue/Second

Street Intersection) and a road safety assessment, has been undertaken by Noble Consulting Engineers. The report

is included in Appendix D.

The report confirms the proposed development is not expected to have any adverse impact on the safety or

operational efficiency of the road networks, at the Opening Year (2024) and throughout the 10 years design horizon period (2034).

The TIA considers the existing three (3) access locations to the site. Access driveway 1 is to be modified to maintain

a minimum clearance to the intersection give way line. No modifications to access driveways 2 or 3 are required.

These arrangements ensure adequate vehicle manoeuvrability ad swept paths can be provided on site and

demonstrates all vehicles can enter and exit in a forward direction.

The report provides recommendation multiple mitigation measures to improve the safety of pedestrians and

cyclists accessing and traversing the site.

On-site car parking requirements are considered in the TIA to ensure appropriate vehicle parking is provided on site

in accordance with table 6.2.1.3(e)-Vehicle parking rates and standards. For a "Service Station" the rate is as

follows:

- 1 space per fuel pump; and
- 1 space per 2 employees.

Seven (7) spaces are provided on site including one (1) all abilities space. The spaces are to be marked in accordance

with the relevant Australian Standards.

PO30 - Complies

Transport noise will not impact on the proposed development.

PO31 - Not applicable

No acoustic walls are proposed as part of the development.

P032 - Complies

Lighting will be provided for the canopy and on the building exterior. The site will also benefit from existing street

lighting along Eighth Avenue.

P033 - P034 Complies

A landscape strip is included within the road reserve along the Eighth Avenue frontage. Given the nature of the

existing premises, no additional landscaping is proposed. The amenity and environmental values of the site will not be impacted upon.

P035 - Complies

A designated refuse storage area is provided behind the proposed aboveground diesel storage tank as indicated on

the proposed site plan in Appendix C.

P036 - Complies

As with any service station, a spill kit will be provided on site it is necessary by law. The spill kit is used to contain

and clean up hydrocarbon spills. It is effective on fuels, oils, and hydraulic fluids.

PO37 - Complies

As above.

PO38 - PO40 - Not Applicable

The proposed development does not require access by common private title.

The proposed development is consistent with the purpose and overall outcomes of the Development works code.

6.4

OVERLAY CODES

6.4.1 Flood Hazard Overlay Code

The proposal is nominated for assessment against the Flood hazard overlay code.

The purpose of the code will be achieved through the following overall outcomes: (a) in an urban zone or rural residential zone, reconfiguration of land does not

result in additional lots on land subject to high or extreme flood hazard;

- (b) elsewhere, reconfiguration is designed to ensure each lot is provided with:
- (i) a building envelope to accommodate a dwelling house with floor levels above the defined flood

level; and

- (ii) vehicular access from a public road to the building envelope that is free of high or extreme flood hazard;
- (c) in the rural, low density residential, township or emerging community zones, new dual occupancies or more

intensive residential uses, or worker or tourist accommodation uses are not established on land subject to

medium, high or extreme flood hazard, and any redevelopment of an existing use does not substantially

increase the number of people accommodated or requiring evacuation from the site;

- (d) unless necessary to meet a significant community need:
- (i) new critical or vulnerable uses are not established in a flood hazard area;and
- (ii) any redevelopment of an existing use does not substantially increase the number of people

accommodated or requiring evacuation from the site;

- (e) development in a flood hazard area otherwise occurs in the way intended in the relevant zone;
- (f) development in a flood hazard area is designed to ensure the safety of people, reduce vulnerability to the

hazard and, for critical uses, minimise disruption to services;

(g) development involving the bulk storage or manufacture of hazardous materials does not increase the risk

to public safety or the environment in a flood hazard event;

- (h) development does not worsen the severity of, or exposure to, the hazard on other properties;
- (i) flood flow conveyance paths and flood storage volumes of the floodplain are maintained;
- (j) the cost to the public of measures to mitigate flood risks is minimised;
- (k) development supports effective and efficient disaster management capacity and capabilities.

Response

The subject site is identified in the low hazard flood area (river flood event). The extent of the mapping is minimal

and confined to the south east corner of proposed Lot 2. Freeways Australia Pty Ltd | 57035-001-01

16

No significant changes to the nature of the site are proposed to facilitate the

service state. Given no earthworks, filling or excavation is proposed, the development will not change inundation characteristics within or outside the

subject site in ways that would:

- (a) result in loss of flood storage or loss of, or changes to, flow paths;
- (b) adversely change the depth or behaviour of the hazard; or
- (c) reduce warning times; or
- (d) increase the duration of the hazard.

Furthermore, a preliminary flood impact investigation was undertaken by Noble Consulting Engineers. It found that

the pre and post development stormwater regime remain the same therefore the development will not result in

material worsening of flood impacts. The investigation found that a full Flood Impact Assessment is deemed not

required. However, any significant changes to the development layout or site levels may require a Flood Impact

Assessment to assess the flood level afflux in the surrounding area. Refer Appendix E.

The proposed development is consistent with the purpose and overall outcomes of the Flood hazard overlay code,

a detailed assessment against the code is not warranted.

CONCLUSION

This proposal details a development application to Burdekin Shire Council seeking a Development Permit for a

Material Change of Use to re-establish a service station within the existing premises, on land located at 7-9 Eighth

Avenue, Home Hill being formally described as Lot 8 on H61653.

An assessment against the relevant planning instruments confirms the proposal can be supported in this

circumstance, given:

- the proposed development does not comprise any additional GFA and the built form will remain consistent
- with that established by the surrounding locality;
- \bullet the historic use of the premises has been for non-residential purposes and that contributes to the

established character of the area;

- there is long-term community understanding and acceptance of a non-residential use at this location;
- the proposal permits adaptive re-use of a premises along a major transport route;
- the development benefits the local community providing a service and generating economic activity;
- access, car parking and manoeuvring areas can reasonably be accommodated;
- \bullet the proposed development ensures cost-effective provision and operation of existing infrastructure

networks; and

• the proposal does not increase the exposure of risk to people and property to natural hazards (flood).

Given the above facts and circumstances the proposal can be favourably considered and we recommend that

Council approve the development subject to reasonable and relevant conditions.

APPENDIX A
Development Application Form 1 & Land Owners Consent

DA Form 1 - Development application details

Approved form (version 1.4 effective 15 December 2023) made under section 282 of the Planning Act 2016.

This form must be used to make a development application involving code assessment or impact assessment,

except when applying for development involving only building work.

For a development application involving building work only, use DA Form 2 - Building work details.

For a development application involving building work associated with any other type of assessable development

(i.e. material change of use, operational work or reconfiguring a lot), use this form (DA Form 1) and parts 4 to 6 of

DA Form 2 - Building work details.

Unless stated otherwise, all parts of this form must be completed in full and all required supporting information must

accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient

space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development

application relating to strategic port land and Brisbane core port land under the Transport Infrastructure Act 1994,

and airport land under the Airport Assets (Restructuring and Disposal) Act 2008. For the purpose of assessing a

development application relating to strategic port land and Brisbane core port land, any reference to a planning

scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core

port land, or a land use plan for airport land.

Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

PART 1 - APPLICANT DETAILS

1) Applicant details

Applicant name(s) (individual or company full name)

Freeways Australia Pty Ltd c/- Brazier Motti Pty Ltd

Contact name (only applicable for companies)

Emma Staines

Postal address (P.O. Box or street address)

595 Flinders Street

Suburb

Townsville City

State

Oueensland

Postcode

4810

Country

Australia

Contact number

4772 1144

Email address (non-mandatory)

Emma.staines@braziermotti.com.au 0437 538 193

Mobile number (non-mandatory)
Fax number (non-mandatory)
Applicant's reference number(s) (if applicable)

57035-001-01

2) Owner's consent

2.1) Is written consent of the owner required for this development application? Yes — the written consent of the owner(s) is attached to this development application

No - proceed to 3)

```
PART 2 - LOCATION DETAILS
3) Location of the premises (complete 3.1) or 3.2), and 3.3) as applicable)
Note: Provide details below and attach a site plan for any or all premises part
of the development application. For further information, see DA
Forms Guide: Relevant plans.
3.1) Street address and lot on plan
Street address AND lot on plan (all lots must be listed), or
Street address AND lot on plan for an adjoining or adjacent property of the
premises (appropriate for development in
water but adjoining or adjacent to land e.g. jetty, pontoon. All lots must be
listed).
Unit No.
a)
b)
Street No.
Street Name and Type
Suburb
7-9
Eighth Avenue
Home Hill
Postcode
Lot No.
Plan Type and Number (e.g. RP, SP)
Local Government Area(s)
4806
8
H61653
Burdekin Shire Council
Unit No.
Street No.
Street Name and Type
Suburb
Postcode
Lot No.
Plan Type and Number (e.g. RP, SP)
```

3.2) Coordinates of premises (appropriate for development in remote areas, over part of a lot or in water not adjoining or adjacent to land

Local Government Area(s)

```
e.g. channel dredging in Moreton Bay)
Note: Place each set of coordinates in a separate row.
Coordinates of premises by longitude and latitude
Longitude(s)
Latitude(s)
Datum
Local Government Area(s) (if applicable)
WGS84
GDA94
Other:
Coordinates of premises by easting and northing
Easting(s)
Northing(s)
Zone Ref.
Datum
54
55
56
Local Government Area(s) (if applicable)
WGS84
GDA94
Other:
3.3) Additional premises
Additional premises are relevant to this development application and the details
of these premises have been
attached in a schedule to this development application
Not required
4) Identify any of the following that apply to the premises and provide any
relevant details
In or adjacent to a water body or watercourse or in or above an aguifer
Name of water body, watercourse or aquifer:
On strategic port land under the Transport Infrastructure Act 1994
Lot on plan description of strategic port land:
Name of port authority for the lot:
In a tidal area
Name of local government for the tidal area (if applicable):
Name of port authority for tidal area (if applicable):
On airport land under the Airport Assets (Restructuring and Disposal) Act 2008
Name of airport:
Page 2
DA Form 1 - Development application details
Version 1.4- 15 December 2023
```

Listed on the Environmental Management Register (EMR) under the Environmental Protection Act 1994 EMR site identification:

14645

Listed on the Contaminated Land Register (CLR) under the Environmental Protection Act 1994

CLR site identification:

5) Are there any existing easements over the premises? Note: Easement uses vary throughout Queensland and are to be identified correctly and accurately. For further information on easements and how they may affect the proposed development, see DA Forms Guide.

Yes – All easement locations, types and dimensions are included in plans submitted with this development application
No

PART 3 - DEVELOPMENT DETAILS
Section 1 - Aspects of development
6.1) Provide details about the first development aspect
a) What is the type of development? (tick only one box)
Material change of use

Reconfiguring a lot

Operational work

Building work

b) What is the approval type? (tick only one box) Development permit

Preliminary approval

Preliminary approval that includes a variation approval

c) What is the level of assessment? Code assessment

Impact assessment (requires public notification)

d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots):

Service station

e) Relevant plans

Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see DA Forms guide: Relevant plans.

Relevant plans of the proposed development are attached to the development application

6.2) Provide details about the second development aspect a) What is the type of development? (tick only one box) Material change of use

Reconfiguring a lot

Operational work

Building work

b) What is the approval type? (tick only one box) Development permit

Preliminary approval

Preliminary approval that includes a variation approval

c) What is the level of assessment? Code assessment

Impact assessment (requires public notification)

- d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots):
- e) Relevant plans

Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see DA Forms Guide: Relevant plans.

Relevant plans of the proposed development are attached to the development application

6.3) Additional aspects of development

Additional aspects of development are relevant to this development application and the details for these aspects

that would be required under Part 3 Section 1 of this form have been attached to this development application Not required

Page 3

DA Form 1 - Development application details

Version 1.4- 15 December 2023

Section 2 - Further development details 7) Does the proposed development application involve any of the following? Material change of use Yes - complete division 1 if assessable against a local planning instrument Reconfiguring a lot Yes - complete division 2 Operational work Yes - complete division 3 Building work Yes - complete DA Form 2 - Building work details Division 1 - Material change of use Note: This division is only required to be completed if any part of the development application involves a material change of use assessable against a local planning instrument. 8.1) Describe the proposed material change of use Provide a general description of the proposed use Provide the planning scheme definition (include each definition in a new row) Number of dwelling units (if applicable) Gross floor area (m2) (if applicable) Service Station The use of premises for-(a) selling fuel, including, for example, petrol, liquid petroleum gas, automotive distillate or alternative fuels; (b) a food and drink outlet, shop, trailer hire, or maintaining, repairing, servicing or washing vehicles, if the use is ancillary to the use in paragraph (a). 8.2) Does the proposed use involve the use of existing buildings on the premises? Yes No Division 2 - Reconfiguring a lot Note: This division is only required to be completed if any part of the development application involves reconfiguring a lot. 9.1) What is the total number of existing lots making up the premises? 9.2) What is the nature of the lot reconfiguration? (tick all applicable boxes)

Subdivision (complete 10))

Dividing land into parts by agreement (complete 11))

Boundary realignment (complete 12))

Creating or changing an easement giving access to a lot from a constructed road (complete 13))

10) Subdivision

10.1) For this development, how many lots are being created and what is the intended use of those lots: Intended use of lots created

Residential

Commercial

Industrial

Other, please specify: Rural Residential

Number of lots created 10.2) Will the subdivision be staged? Yes – provide additional details below No

Page 4 DA Form 1 – Development application details Version 1.4— 15 December 2023

```
How many stages will the works include?
What stage(s) will this development application
apply to?
11) Dividing land into parts by agreement – how many parts are being created and
what is the intended use of the
parts?
Intended use of parts created
Residential
Commercial
Industrial
Other, please specify:
Number of parts created
12) Boundary realignment
12.1) What are the current and proposed areas for each lot comprising the
premises?
Current lot
Lot on plan description
Proposed lot
Area (m2)
Lot on plan description
Area (m2)
12.2) What is the reason for the boundary realignment?
13) What are the dimensions and nature of any existing easements being changed
and/or any proposed easement?
(attach schedule if there are more than two easements)
Existing or
proposed?
Width (m)
Length (m)
Purpose of the easement? (e.g.
pedestrian access)
Identify the land/lot(s)
benefitted by the easement
Division 3 - Operational work
Note: This division is only required to be completed if any part of the
development application involves operational work.
14.1) What is the nature of the operational work?
Road work
Drainage work
Landscaping
Stormwater
Earthworks
Signage
```

Water infrastructure

Sewage infrastructure Clearing vegetation

Other - please specify:

14.2) Is the operational work necessary to facilitate the creation of new lots? (e.g. subdivision)

Yes - specify number of new lots:

No

14.3) What is the monetary value of the proposed operational work? (include GST, materials and labour) \$

PART 4 - ASSESSMENT MANAGER DETAILS

Burdekin Shire Council

16) Has the local government agreed to apply a superseded planning scheme for this development application?

Yes - a copy of the decision notice is attached to this development application

Page 5

DA Form 1 - Development application details

Version 1.4- 15 December 2023

The local government is taken to have agreed to the superseded planning scheme request - relevant documents attached No PART 5 - REFERRAL DETAILS 17) Does this development application include any aspects that have any referral requirements? Note: A development application will require referral if prescribed by the Planning Regulation 2017. No, there are no referral requirements relevant to any development aspects identified in this development application - proceed to Part 6 Matters requiring referral to the Chief Executive of the Planning Act 2016: Clearing native vegetation Contaminated land (unexploded ordnance) Environmentally relevant activities (ERA) (only if the ERA has not been devolved to a local government) Fisheries - aquaculture Fisheries - declared fish habitat area Fisheries - marine plants Fisheries - waterway barrier works Hazardous chemical facilities Heritage places - Queensland heritage place (on or near a Queensland heritage place) Infrastructure-related referrals - designated premises Infrastructure-related referrals - state transport infrastructure Infrastructure-related referrals - State transport corridor and future State transport corridor Infrastructure-related referrals - State-controlled transport tunnels and future state-controlled transport tunnels Infrastructure-related referrals - near a state-controlled road intersection Koala habitat in SEQ region - interfering with koala habitat in koala habitat areas outside koala priority areas Koala habitat in SEQ region - key resource areas Ports - Brisbane core port land - near a State transport corridor or future State transport corridor Ports - Brisbane core port land - environmentally relevant activity (ERA) Ports - Brisbane core port land - tidal works or work in a coastal management district Ports - Brisbane core port land - hazardous chemical facility Ports – Brisbane core port land – taking or interfering with water Ports - Brisbane core port land - referable dams Ports - Brisbane core port land - fisheries Ports - Land within Port of Brisbane's port limits (below high-water mark) SEQ development area SEQ regional landscape and rural production area or SEQ rural living area tourist activity or sport and recreation activity SEQ regional landscape and rural production area or SEQ rural living area community activity SEQ regional landscape and rural production area or SEQ rural living area indoor recreation SEQ regional landscape and rural production area or SEQ rural living area urban activity SEQ regional landscape and rural production area or SEQ rural living area combined use SEQ northern inter-urban break - tourist activity or sport and recreation activity SEQ northern inter-urban break - community activity

SEQ northern inter-urban break – indoor recreation SEQ northern inter-urban break – urban activity SEQ northern inter-urban break – combined use

Tidal works or works in a coastal management district Reconfiguring a lot in a coastal management district or for a canal Erosion prone area in a coastal management district Urban design

Page 6 DA Form 1 – Development application details Version 1.4— 15 December 2023 Water-related development - taking or interfering with water

Water-related development - removing quarry material (from a watercourse or

Water-related development - referable dams

Water-related development -levees (category 3 levees only)

Wetland protection area

Matters requiring referral to the local government:

Airport land

Environmentally relevant activities (ERA) (only if the ERA has been devolved to local government)

Heritage places - Local heritage places

Matters requiring referral to the Chief Executive of the distribution entity or transmission entity:

Infrastructure-related referrals - Electricity infrastructure Matters requiring referral to:

- The Chief Executive of the holder of the licence, if not an individual
- The holder of the licence, if the holder of the licence is an individual

Infrastructure-related referrals – Oil and gas infrastructure

Matters requiring referral to the Brisbane City Council:

Ports - Brisbane core port land

Matters requiring referral to the Minister responsible for administering the Transport Infrastructure Act 1994:

Ports - Brisbane core port land (where inconsistent with the Brisbane port LUP for transport reasons)

Ports - Strategic port land

Matters requiring referral to the relevant port operator, if applicant is not port operator:

Ports - Land within Port of Brisbane's port limits (below high-water mark) Matters requiring referral to the Chief Executive of the relevant port authority:

Ports - Land within limits of another port (below high-water mark)

Matters requiring referral to the Gold Coast Waterways Authority:

Tidal works or work in a coastal management district (in Gold Coast waters)

Matters requiring referral to the Queensland Fire and Emergency Service:

Tidal works or work in a coastal management district (involving a marina (more than six vessel berths))

18) Has any referral agency provided a referral response for this development application?

Yes - referral response(s) received and listed below are attached to this development application

Referral requirement

Referral agency

Date of referral response

Identify and describe any changes made to the proposed development application that was the subject of the

referral response and this development application, or include details in a schedule to this development application (if applicable).

PART 6 - INFORMATION REQUEST

19) Information request under Part 3 of the DA Rules

I agree to receive an information request if determined necessary for this development application

I do not agree to accept an information request for this development application Note: By not agreeing to accept an information request I, the applicant, acknowledge:

that this development application will be assessed and decided based on the information provided when making this development

application and the assessment manager and any referral agencies relevant to the

development application are not obligated under the DA

Page 7 DA Form 1 – Development application details Version 1.4— 15 December 2023 Rules to accept any additional information provided by the applicant for the development application unless agreed to by the relevant parties

•

Part 3 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules.

Further advice about information requests is contained in the DA Forms Guide.

PART 7 - FURTHER DETAILS

20) Are there any associated development applications or current approvals? (e.g. a preliminary approval)

Yes — provide details below or include details in a schedule to this development application

No

List of approval/development application references

Reference number

Assessment manager

Date

Approval

Development application

Approval

Development application

21) Has the portable long service leave levy been paid? (only applicable to development applications involving building work or operational work)

Yes - a copy of the receipted QLeave form is attached to this development application

 ${\tt No}$ – I, the applicant will provide evidence that the portable long service leave levy has been paid before the

assessment manager decides the development application. I acknowledge that the assessment manager may

give a development approval only if I provide evidence that the portable long service leave levy has been paid

Not applicable (e.g. building and construction work is less than \$150,000 excluding GST)

Amount paid

Date paid (dd/mm/yy)

QLeave levy number (A, B or E)

\$

22) Is this development application in response to a show cause notice or required as a result of an enforcement notice?

Yes – show cause or enforcement notice is attached

23) Further legislative requirements

Environmentally relevant activities

23.1) Is this development application also taken to be an application for an environmental authority for an

Environmentally Relevant Activity (ERA) under section 115 of the Environmental Protection Act 1994?

Yes – the required attachment (form ESR/2015/1791) for an application for an environmental authority

accompanies this development application, and details are provided in the table below

No

Note: Application for an environmental authority can be found by searching "ESR/2015/1791" as a search term at www.qld.gov.au. An ERA requires an environmental authority to operate. See www.business.qld.gov.au for further information.

Proposed ERA number:

Proposed ERA threshold:

Proposed ERA name:

Multiple ERAs are applicable to this development application and the details have been attached in a schedule to this development application.

Hazardous chemical facilities
23.2) Is this development application for a hazardous chemical facility?

Yes - Form 69: Notification of a facility exceeding 10% of schedule 15 threshold is attached to this development application

Page 8

No

DA Form 1 - Development application details Version 1.4— 15 December 2023 Note: See www.business.qld.gov.au for further information about hazardous chemical notifications.

Clearing native vegetation

23.3) Does this development application involve clearing native vegetation that requires written confirmation that

the chief executive of the Vegetation Management Act 1999 is satisfied the clearing is for a relevant purpose under

section 22A of the Vegetation Management Act 1999?

Yes — this development application includes written confirmation from the chief executive of the Vegetation

Management Act 1999 (s22A determination)

Nο

Note: 1. Where a development application for operational work or material change of use requires a s22A determination and this is not included,

the development application is prohibited development.

2. See https://www.qld.gov.au/environment/land/vegetation/applying for further information on how to obtain a s22A determination.

Environmental offsets

23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on

a prescribed environmental matter under the Environmental Offsets Act 2014? Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as

having a significant residual impact on a prescribed environmental matter No

Note: The environmental offset section of the Queensland Government's website can be accessed at www.qld.gov.au for further information on environmental offsets.

Koala habitat in SEQ Region

23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work

which is assessable development under Schedule 10, Part 10 of the Planning Regulation 2017?

Yes – the development application involves premises in the koala habitat area in the koala priority area

Yes – the development application involves premises in the koala habitat area outside the koala priority area

Note: If a koala habitat area determination has been obtained for this premises and is current over the land, it should be provided as part of this development application. See koala habitat area guidance materials at www.des.qld.gov.au for further information.

Water resources

23.6) Does this development application involve taking or interfering with underground water through an

artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking

overland flow water under the Water Act 2000?

Yes – the relevant template is completed and attached to this development application and I acknowledge that a

relevant authorisation or licence under the Water Act 2000 may be required prior to commencing development

Note: Contact the Department of Natural Resources, Mines and Energy at www.dnrme.gld.gov.au for further information.

DA templates are available from https://planning.dsdmip.qld.gov.au/. If the development application involves:

•

.

Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1

Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2

Taking overland flow water: complete DA Form 1 Template 3.

Waterway barrier works

23.7) Does this application involve waterway barrier works? Yes – the relevant template is completed and attached to this development application

No

DA templates are available from https://planning.dsdmip.qld.gov.au/. For a development application involving waterway barrier works, complete DA Form 1 Template 4.

Marine activities

23.8) Does this development application involve aquaculture, works within a declared fish habitat area or removal, disturbance or destruction of marine plants?

Page 9

DA Form 1 – Development application details Version 1.4— 15 December 2023 Yes - an associated resource allocation authority is attached to this development application, if required under

the Fisheries Act 1994

No

Note: See guidance materials at www.daf.qld.gov.au for further information.

Quarry materials from a watercourse or lake

23.9) Does this development application involve the removal of quarry materials from a watercourse or lake

under the Water Act 2000?

Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development

Note: Contact the Department of Natural Resources, Mines and Energy at www.dnrme.qld.gov.au and www.business.qld.gov.au for further information.

Quarry materials from land under tidal waters

23.10) Does this development application involve the removal of quarry materials from land under tidal water

under the Coastal Protection and Management Act 1995?

Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development
No

Note: Contact the Department of Environment and Science at www.des.qld.gov.au for further information.

Referable dams

23.11) Does this development application involve a referable dam required to be failure impact assessed under

section 343 of the Water Supply (Safety and Reliability) Act 2008 (the Water Supply Act)?

Yes – the 'Notice Accepting a Failure Impact Assessment' from the chief executive administering the Water

Supply Act is attached to this development application

Note: See guidance materials at www.dnrme.qld.gov.au for further information.

Tidal work or development within a coastal management district

23.12) Does this development application involve tidal work or development in a coastal management district?

Yes - the following is included with this development application:

Evidence the proposal meets the code for assessable development that is prescribed tidal work (only required

if application involves prescribed tidal work)

A certificate of title

Nο

Note: See guidance materials at www.des.qld.gov.au for further information.

Queensland and local heritage places

23.13) Does this development application propose development on or adjoining a place entered in the Queensland

heritage register or on a place entered in a local government's Local Heritage Register?

Yes — details of the heritage place are provided in the table below ${\sf No}$

Note: See guidance materials at www.des.qld.gov.au for information requirements regarding development of Queensland heritage places.

Name of the heritage place:

Place ID:

Brothels

23.14) Does this development application involve a material change of use for a brothel?

Yes – this development application demonstrates how the proposal meets the code for a development $% \left(1\right) =\left(1\right) +\left(1\right) +$

application for a brothel under Schedule 3 of the Prostitution Regulation 2014 No

Decision under section 62 of the Transport Infrastructure Act 1994 23.15) Does this development application involve new or changed access to a state-controlled road?

Page 10 DA Form 1 - Development application details Version 1.4— 15 December 2023 Yes – this application will be taken to be an application for a decision under section 62 of the Transport

Infrastructure Act 1994 (subject to the conditions in section 75 of the Transport Infrastructure Act 1994 being satisfied)

No

Walkable neighbourhoods assessment benchmarks under Schedule 12A of the Planning Regulation

23.16) Does this development application involve reconfiguring a lot into 2 or more lots in certain residential zones

(except rural residential zones), where at least one road is created or extended?

Yes - Schedule 12A is applicable to the development application and the assessment benchmarks contained in

schedule 12A have been considered

No

Note: See guidance materials at www.planning.dsdmip.qld.gov.au for further information.

PART 8 - CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist

I have identified the assessment manager in question 15 and all relevant referral

requirement(s) in question 17

Yes

Note: See the Planning Regulation 2017 for referral requirements

If building work is associated with the proposed development, Parts 4 to 6 of DA Form 2 -

Building work details have been completed and attached to this development application

Yes

Not applicable

Supporting information addressing any applicable assessment benchmarks is with the

development application

Note: This is a mandatory requirement and includes any relevant templates under question 23, a planning report

and any technical reports required by the relevant categorising instruments (e.g. local government planning

schemes, State Planning Policy, State Development Assessment Provisions). For further information, see DA

Forms Guide: Planning Report Template.

Yes

Relevant plans of the development are attached to this development application Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see DA Forms Guide: Relevant plans.

Yes

The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21)

development permit 13 133ded (3ee 21

Yes

Not applicable

25) Applicant declaration

By making this development application, I declare that all information in this development application is true and correct

Where an email address is provided in Part 1 of this form, I consent to receive future electronic communications

from the assessment manager and any referral agency for the development application where written information

is required or permitted pursuant to sections 11 and 12 of the Electronic Transactions Act 2001

Note: It is unlawful to intentionally provide false or misleading information.

 $\label{lem:privacy-Personal} \ \ information \ \ collected \ \ in \ this \ form \ will \ be \ used \ by \ the \ assessment \ \ manager \ \ and/or \ \ chosen$

assessment manager, any relevant referral agency and/or building certifier (including any professional advisers

which may be engaged by those entities) while processing, assessing and deciding the development application.

All information relating to this development application may be available for inspection and purchase, and/or

published on the assessment manager's and/or referral agency's website. Personal information will not be disclosed for a purpose unrelated to the Planning Act 2016, Planning

Regulation 2017 and the DA Rules except where:

• such disclosure is in accordance with the provisions about public access to documents contained in the Planning

Act 2016 and the Planning Regulation 2017, and the access rules made under the Planning Act 2016 and

Planning Regulation 2017; or

- required by other legislation (including the Right to Information Act 2009); or
- otherwise required by law.

Page 11

DA Form 1 – Development application details Version 1.4— 15 December 2023 This information may be stored in relevant databases. The information collected will be retained as required by the Public Records Act 2002.

Page 12 DA Form 1 - Development application details Version 1.4— 15 December 2023 PART 9 - FOR COMPLETION OF THE ASSESSMENT MANAGER - FOR OFFICE USE ONLY Date received:

Reference number(s):

Notification of engagement of alternative assessment manager Prescribed assessment manager Name of chosen assessment manager Date chosen assessment manager engaged Contact number of chosen assessment manager Relevant licence number(s) of chosen assessment manager QLeave notification and payment Note: For completion by assessment manager if applicable

Description of the work QLeave project number Amount paid (\$)

Date paid (dd/mm/yy)

Date receipted form sighted by assessment manager Name of officer who sighted the form

Page 13 DA Form 1 – Development application details Version 1.4— 15 December 2023

Company consent to the making of a development application under the Planning Act 2016 I,
Muhammad Ali
Director of the company mentioned below. and I,
Director/Secretary of the company mentioned below. Of: FREEWAYS AUSTRALIA PTY LTD A.C.N. 627 677 105 as owner of the premises identified as follows: 7-9 Eighth Avenue, Home Hill Lot 8 on H61653 consent to the making of a development application under the Planning Act 2016 by: Brazier Motti Pty Ltd on the premises described above for:
Material Change of Use (Service Station)
Signature of Director
Signature of Director/Secretary
08 04 - 2024

Date

Date

The Planning Act 2016 is administered by the Department of Local Government, Infrastructure and Planning, Queensland Government.

595 Flinders Street, Townsville Q 4810 P 07 4772 1144 E townsville@braziermotti.com.au W www.braziermotti.com.au

APPENDIX B Current Title Search and Smart Map

Current Title Search Queensland Titles Registry Pty Ltd ABN 23 648 568 101 Title Reference:

50279339

Search Date:

08/04/2024 14:47

Date Title Created:

02/09/1999

Request No:

47632109

Previous Title:

40021349

ESTATE AND LAND Estate in Fee Simple LOT 8

CROWN PLAN H61653

Local Government: BURDEKIN

REGISTERED OWNER Dealing No: 722531496

09/06/2023

FREEWAYS AUSTRALIA PTY LTD A.C.N. 627 677 105 UNDER INSTRUMENT 722531496

TRUSTEE

EASEMENTS, ENCUMBRANCES AND INTERESTS 1

Rights and interests reserved to the Crown by Deed of Grant No. 40021349 (Lot 8 on CP H61653)

ADMINISTRATIVE ADVICES
NIL
UNREGISTERED DEALINGS
NIL
** End of Current Title Search **

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Page 1/1

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H61611
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19°40'08".426
1315m²
4
RP729141
FΗ
219m²
147°25'05".949
103
H61611
1012m²
3
RP729141
2
RP729141
80
FΗ
19°40'08".426
FΗ
RP729141
945m<sup>2</sup>
13
EIG
Т
FΗ
804m²
нт
Н
ND
CO
ST
```

E RE H61624 AV SE EN 653m² UE 12 H61624

05

19 H61611 19°40'10"

FΗ

1267m²

11 H61624

FH

19°40'10"

FΗ

9

H61653

1214m²

20

H61611

05

FΗ

8 H61653

1267m²

FΗ

FΗ

FΗ

1821m² 7825

00

6

H61626

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Н
7824
FΗ
95 0 m N
Ε
NU
113
H61611
1206m²
1214m²
Ε
\mathsf{AV}
FΗ
FΗ
FΗ
1206m<sup>2</sup>
FΗ
1189m²
19°40'13".762
1206m²
147°25'05".949
543
0
75 0m E
543
20
40
60
80
80
100
HORIZONTAL DATUM:GDA94
ZONE:55
```

SCALE 1 : 1000

ΗТ

SUBJECT PARCEL DESCRIPTION

CLIENT SERVICE STANDARDS

147°25'03".562 19°40'11".094 1.04 KM

GDA

SmartMap
An External Product of
SmartMap Information Services

MAP WINDOW POSITION & NEAREST LOCATION

HOME HILL

1629m² 95

147°25'01".175

STANDARD MAP NUMBER 8358-12424

FΗ

5

H61626

1214m²

115

H61611

19°40'13".762

00

FΗ

114

H61611

1206m²

4

H61624

FΗ

EIG

112 H61611

7825

7

H61626

```
1196m<sup>2</sup>
FΗ
1206m<sup>2</sup>
1629m<sup>2</sup>
1204m<sup>2</sup>
111
H61611
PRINTED 08/04/2024
DCDB
Lot/Plan
8/H61653
Area/Volume
1196m<sup>2</sup>
Tenure
FREEHOLD
Local Government
BURDEKIN SHIRE
Locality
HOME HILL
Segment/Parcel
35690/41
DCDB
Based upon an extraction from the
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APPENDIX C Proposed Site Plan 57035/001E prepared by Brazier Motti PROPOSED KITCHEN

PROPOSED NEW CONVENIENCE STORE

CUSTOMER PARKING

CUSTOMER PARKING

CUSTOMER PARKING

BIN YARD

EXISTING WORKSHOP TO RETAIN

CANOPY OVER

CROSSOVER

STAFF PARKING

SECOND STREET

PROPOSED STORAGE

EXISTING FUEL VENTS THROUGH ROOF TO BE UTILIZED

EXTEND CANOPY TO
COVER NEW PUMPS
INSTALL NEW HOOP
BOLLARDS
W/ PRODUCT BOARD
(TYP. 2-NO.)
EXISTING REMOTE FUEL
POINTS TO BE UTILIZED
CROSSOVER

1.5

REMOVE ONE SMALL SHOP AND INSTAL 30000L ABOVEGROUND DIESEL TANK

EXTEND CANOPY TO COVER NEW PUMPS

EXISTING U/G FUEL TANKS TO BE UTILIZED

EXISTING CANOPY TO BE UTILIZED

LANDSCAPE

EIGHTH AVENUE

CR0SS0VER **PROPOSED EXISTING SIGN** TRAFFIC TO BE **BOLLARD** REPLACED WITH DIGITAL PRICE BOARD Date: 25th March, 2024

А3

Scale: 1:150 Drawn: MJM

Job No: 57035/001-01

Plan No:

57035/001 E

braziermotti.com.au This plan is conceptual and for discussion purposes only. All areas, dimensions and land uses are preliminary, subject to investigation, survey, engineering, and Local Authority and Agency approvals.

SURVEYING TOWNPLANNING PROJECTMANAGEMENT MAPPING&GIS

3m

APPENDIX D
Traffic Impact Assessment prepared by Noble Consulting Engineers

7-9 EIGHTH AVENUE, HOME HILL PROPOSED SERVICE STATION DEVELOPMENT

Traffic Impact Assessment Freeways Australia

NOBLE CONSULTING ENGINEERS Project No.:

240116/01

Reference No.:

FN0152

Date:

30/04/2024

240116/01_7-9 EIGHTH AVENUE, HOME HILL PROPOSED SERVICE STATION DEVELOPMENT TRAFFIC IMPACT ASSESSMENT

Controlled Copy no.: 1
Revisions: C
Revision Record:

Review

Description

Prepared

Checked

Approved

Fei Ngoo

Fei Ngoo

Date

Α

2/04/2024

Issued for Client Comment

Fei Ngoo

В

8/04/2024

Added roadway capacity assessment

Fei Ngoo

С

30/04/2024

For submission

Fei Ngoo

P a g e |2

240116/01_7-9 EIGHTH AVENUE, HOME HILL PROPOSED SERVICE STATION DEVELOPMENT TRAFFIC IMPACT ASSESSMENT

TABLE OF CONTENTS 1.0 1.1 1.2 2.0 2.1 2.2 2.3 2.4 3.0 3.1 3.2 3.3 3.4 3.5 3.6
INTRODUCTION
5 BACKGROUND
5
AIM 5
EXISTING CONDITIONS
6
SUBJECT SITE
6
ACCESS 7
ROAD NETWORK
ACTIVE AND PUBLIC
TRANSPORT
DEVELOPMENT
14 DEVELOPMENT
LAYOUT 14
OPERATION
VEHICULAR ACCESS ARRANGEMENT
15 ON-SITE CAR PARKING
ACCESS DRIVEWAY SIGHT DISTANCE (ACCESS DRIVEWAY 3 - EGRESS-ONLY)
4.0
SITE
INSPECTION

32
5.0
ASSESSMENT METHODOLOGY
6.0
TRAFFIC ASSESSMENT
6.1 6.2 6.3 7.0 7.1 7.2 8.0 8.1 8.2 8.3 8.4 8.5 8.6 9.0
BACKGROUND TRAFFIC
EXISTING SITE TRAFFIC
36 DEVELOPMENT GENERATED TRAFFIC
AVENUE)
40 ROADWAY CAPACITY
INTERSECTION ASSESSMENT (EIGHTH AVENUE/SECOND STREET INTERSECTION)
43 SECOND STREET BACKGROUND TRAFFIC (PEAK HOUR)
43 DEVELOPMENT TRAFFIC (PEAK HOUR)
OVERALL TRAFFIC GENERATION
TURN TREATMENT WARRANT ASSESSMENT
INTERSECTION

ANALYSIS 53
STACKING
CAPACITY
57
10.0 ROAD SAFETY
ASSESSMENT
59 10.1 CRASH DATA
10.2 SAFE INTERSECTION SIGHT DISTANCE (EIGHTH AVENUE/SECOND STREET INTERSECTION)
10 2 DISK ASSESSMENT (DDODOSED DEVELODMENT ACCESS
DRIVEWAYS) 61
11.0 PRE-LODGEMENT ADVICE
DISCUSSION

P a g e |3

240116/01_7-9 EIGHTH AVENUE, HOME HILL PROPOSED SERVICE STATION DEVELOPMENT TRAFFIC IMPACT ASSESSMENT

11.1 PEDESTRIAN SAFETY
11.3 BLOCKED ACCESS/QUEUING ISSUES ONTO EIGHTH AVENUE
12.0 CONCLUSION AND CERTIFICATION STATEMENT
68 12.1 CONCLUSION
12.2 CERTIFICATION
APPENDICES: Appendix A
Proposed Development Layout
Appendix B
SIDRA Movement Summary
P a g e 4

240116/01_7-9 EIGHTH AVENUE, HOME HILL PROPOSED SERVICE STATION DEVELOPMENT TRAFFIC IMPACT ASSESSMENT

1.0

INTRODUCTION

1.1

Background

Noble Consulting Engineers has been commissioned by Freeways Australia to undertake a traffic

impact assessment for a proposed service station development at 7-9 Eighth Avenue, Home Hill.

The location of the subject site is shown on Figure 1.1.

To Ayr

Subject Site

To Inkerman

Figure 1.1: Site Locality (Source: QLD Globe)

1.2

Aim

The purpose of this report is to evaluate the proposed development in terms of its likely peak hour

traffic generation, impact on the surrounding roads network and to identify any external works

required to mitigate potential adverse traffic impacts.

This study is to provide information to the Department of Transport and Main Roads (DTMR) and

Burdekin Shire Council (BSC) to assist with the assessment of the development application.

P a g e |5

240116/01_7-9 EIGHTH AVENUE, HOME HILL PROPOSED SERVICE STATION DEVELOPMENT TRAFFIC IMPACT ASSESSMENT

2.0

EXISTING CONDITIONS

2.1

Subject Site

The subject site is described as Lot 8/H61653 and is located within the Home Hill Township, in the

Burdekin Shire Region. The subject site comprises a total area of approximately 1,196m2. The

subject site is shown in Figure 2.1.

Subject Site Boundary

Figure 2.1: Subject Site (Source: QLD Globe)

The subject site is bounded as follows:

•

to the north by Second Street;

•

to the east and south by residential; and

•

to the west by Eighth Avenue (Bruce Highway).

According to the BSC Planning Scheme Zoning Map, the subject site is zoned as "Low Density Residential".

P a g e | 6

The subject site currently contains a mechanic workshop as shown in Figure 2.1.

It shall be noted that the previous use of the subject site was a service station. The service station was operated up until or around the year 2004.

2.2

Access

The access to the subject site is currently via the three (3) existing driveways as follow:

•

Driveway 1 - 9m wide (approx.) bitumen sealed access driveway via Second Street;

•

Driveway 2 - 14m wide (approx.) concrete access driveway via Eighth Avenue; and

•

Driveway 3 - 21m wide (approx.) concrete access driveway via Eighth Avenue.

The subject site current access driveways are shown in Figure 2.2.

Subject Site Boundary

Figure 2.2: Subject Site Access Driveways (Source: QLD Globe)

P a g e | 7

The existing access driveways also illustrated in Figures 2.3, 2.4 and 2.5.

≈ 9.0m wide

Figure 2.3: Access Driveway 1 (Bitumen Sealed)

≈ 14.0m wide

Figure 2.4: Access Driveway 2 (Concrete)

P a g e |8

≈ 21.0m wide

Figure 2.5: Access Driveway 3 (Concrete)

Access Driveway 1 is deemed as all-movement access driveway.

Both Access Driveways 2 and 3 are currently configured as Left In/Left Out access only due to existing double barrier line and chevron pavement marking at Eighth Avenue channelised right turn traffic lane, as shown in Figure 2.6.

Chevron Pavement Marking

Existing double Barrier Line

Figure 2.6: Eighth Avenue/Second Street Intersection – Channelised Right turn
P a g e |9

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240116/01_7-9 EIGHTH AVENUE, HOME HILL
PROPOSED SERVICE STATION DEVELOPMENT
TRAFFIC IMPACT ASSESSMENT
2.3
Road Network
2.3.1
Key Roads
Key attributes of the surrounding road networks in the proximity of the subject
site are summarised
in Table 2.1.
Table 2.1: Key Roads Attributes
Attribute
Eighth Avenue
Second Street
(10K Bruce Highway (BowenAyr))
Road Hierarchy
Highway (State-Controlled Road)
Local Street
Jurisdiction
DTMR
BSC
Posted Speed (km/h)
60km/h
Unsigned
(Default to 50km/h)
Predominant Land Use
Commercial
Residential
Kerb and Channel
Yes
```

No

On-street Parking

Yes

Yes (road verge)

Concrete Footpath

Yes (eastern side only)

```
No
Principal Cycle Network
Yes
No
Bicycle Lane
No
No
Bus Route
No
No
Traffic count data for the adjacent section of Eighth Avenue fronting the
subject site, was obtained
from DTMR 2012-2022 Traffic Census Data. The TMR traffic count site (Site 91439)
is located at
the Bruce Highway, approximately 1.17km north of the subject site.
The TMR traffic count site is illustrated in Figure 2.7 and the 2022 traffic
data is summarised below:
Annual Average Daily Traffic (AADT): 7,384 vehicle per day (vpd)
Heavy Vehicle % (HV%): 11.15%
Annual segment growth:
➤ Growth last year: 3.29%
> Growth last 5 years: 1.44%
> Growth last 10 years: 0.66%
Page | 10
```

Traffic Count Site 91439

Subject Site

Figure 2.7: DTMR Traffic Count Site 91439 (Source: QLD Government Open Portal Data)

In accordance with TMR 2020 AADT Segment Report (Count Site 91439), the weekdays AM and

PM peak period at the Eighth Avenue section in vicinity to the subject site were generally occurs

between 8am - 9am and 3pm - 4pm.

Second Street daily traffic data was not available at the time of this traffic impact assessment.

2.3.2

Key Intersection

The key intersection in proximity to the subject site, which form part of the access route to the proposed development site were Eighth Avenue/Second Street intersection.

The existing Eighth Avenue/Second Street intersection is a 3-way T-intersection with give-way control, as shown in Figure 2.8.

Subject Site

Figure 2.8: Eighth Avenue/Second Street Intersection (Source: QLD Globe)

The existing configuration of the intersection is summarised below:

•

Eighth Avenue (N) northern approach

- ➤ 3.5m wide through lane;
- > 3.5m wide dual right turn lane; and
- > 5.1m (eastern side) and 5.4m (western side) sealed shoulder.

•

Eighth Avenue (S) southern approach

- ➤ 3.5m wide through lane; and
- \succ 3.5m wide channelised right turn lane (approximately 50m long including taper); and
- > 5.4m sealed shoulder.

•

Second Street (E) eastern approach

- > 5.5m wide (average) bitumen sealed roadway; and
- > 12m wide (both side) grass verge.

2.4

Active and Public Transport Pedestrians and Cyclists

Pedestrian concrete footpaths are located along the subject site frontage.

As indicated in Table 2.1, Eighth Avenue form part of the Principal Cycle Network Plan. However,

there are no cyclist facilities in the vicinity of the subject site or the key roads.

Public Transport

There are currently no public transport facilities (i.e. bus stops and trains stations) in the vicinity of the subject site or key roads.

3.0

PROPOSED DEVELOPMENT

3.1

Development Layout

The development application seeks approval for a Material Change of Use for a small-scaled familyowned service station. The proposal comprises the following components:

•

Retention of the existing building structures for storage and workshop;

•

Removal small section of the existing building to accommodate new 30,000L above ground diesel tank;

•

Convert part of the existing building to convenience store including kitchen facilities;

•

Provision of six (6) fuel-filling positions;

•

Raise and extends existing canopy to cover the six (6) fuel-filling positions and to accommodate fuel tanker truck height; and

•

Provision of seven (7) on-site parking spaces (inclusive of one (1) disabled parking bay) including four (4) cover parking spaces inside the existing building.

The layout of the proposed development is illustrated in Figure 3.1 and included in Appendix A.

Figure 3.1: Overall Development Layout (Source: Brazier Motti)

3.2

Operation

It is anticipated that the proposed service station will commence operation in mid to end-2024,

subject to BSC/DTMR development approval and construction program being finalised.

The proposed trading hours of the service station is 5am to 10pm, 7 days a week.

3.3

Vehicular Access Arrangement

It is proposed to retain the existing three (3) site access points to service the proposed development.

Both Access Driveway 1 and 2 will be designated as Ingress-only access driveways where the

Access Driveway 3 will be designated as Egress-only access driveway, to provide one-way traffic

flow through the proposed service station, as shown in Figure 3.2.

Subject Site Boundary

Traffic Flow Direction

Figure 3.2: Proposed Access Driveways (Source: QLD Globe)

No new access location to the external road network is proposed.

3.3.1

Access Driveway 1 (Second Street)

The Access Driveway 1 at Second Street is approximately 9.0m wide and is located approximately

2.1m from the Eighth Avenue/Second Street intersection give way line, as shown in Figure 3.3.

Existing Road Edge (Indicative)

Existing Driveway Edge (Indicative) TP Point

Existing Edge line marking

Figure 3.3: Proposed Access Driveway 1 Location

The Access Driveway 1 location does not comply with the Australian Standard AS2890.1:2004

Parking Facilities - Part 1: Off-Street Car Parking - Access Driveway Location requirement, as shown in Figure 3.4.

Figure 3.4: Prohibited Locations of Access Driveways (Source: AS2890.1:2004, Figure 3.1)

It is proposed to reduce the existing Access Driveway 1 width to 5.1m (approximately) to maintain the minimum 6m clearance from the Eighth Avenue/Second Street intersection give way line. The revised Access Driveway 1 configuration is illustrated in Figure 3.5.

Existing road edge (Indicative)

TP Point

Proposed new driveway edge (Indicative)

Existing driveway edge (Indicative)

Existing edge line marking

Existing bitumen sealed surface to be removed, topsoiled and grass seeded.

Figure 3.5: Proposed Access Driveway 1 Location (Modified)

3.3.2

Access Driveway 2 (Eighth Avenue)
The Access Driveway 2 at Eighth Avenue is approximately 14.0m wide and is located approximately
6.0m from the Eighth Avenue/Second Street intersection TP point, as shown in Figure 3.6.

TP Point

Existing driveway edge (Indicative)

Existing kerb line (Indicative)
Existing edge line marking

Figure 3.6: Proposed Access Driveway 2 Location

The Access Driveway 2 location comply with the Australian Standard AS2890.1:2004 Parking Facilities – Part 1: Off-Street Car Parking - Access Driveway Location requirement (refer Figure 3.4).

No modification works to the Access Driveway 2 is proposed.

3.3.3

Access Driveway 3 (Eighth Avenue)
The Access Driveway 3 at Eighth Avenue is approximately 21.0m wide and is located approximately
31.5m from the Eighth Avenue/Second Street intersection TP point, as shown in Figure 3.7.

TP Point

Existing kerb line (Indicative)

Existing edge line marking

Existing driveway edge (Indicative)

Figure 3.7: Proposed Access Driveway 3 Location

The Access Driveway 3 location comply with the Australian Standard AS2890.1:2004 Parking Facilities - Part 1: Off-Street Car Parking - Access Driveway Location requirement (refer Figure 3.4).

No modification works to the Access Driveway 3 is proposed.

3.4

On-Site Car Parking

3.4.1

Parking Assessment

The required on-site parking bays associated with the proposed development has been assessed

in accordance with BSC Planning Scheme – Vehicle Parking Rates and Standards – Table

6.1.2.3(e), using the following parking rates for "Service Station":

1 space per fuel pump; and

•

1 space per 2 employees.

In accordance with National Construction Code (NCC) - Table D3.5, the number of car parking

spaces required for people with a disability is 1 space for every 50 carparking spaces for service

station (Building Class 6).

Freeways Australia has advised that there will be maximum of two (2) employees operating the service station daily.

Based on two (2) employees and six (6) fuel-filling positions, a total of seven (7) car parking spaces is required to cater for the development needs.

The proposed service station provides seven (7) car parking bays (inclusive of one (1) disabled

parking bay), which complied with the BSC Planning Scheme requirements. The proposed one (1)

disabled parking bay complied with the NCC requirements.

3.4.2

Proposed Parking Layout

The proposed layout of on-site parking area is generally consistent with the requirements of

 ${\sf AS2890.1-Off\textsc{-}Street}$ Parking, in terms of bay dimensions, aisle widths, vehicle circulation and

manoeuvring. This is typified by:

•

User Class 3A - Short term, high turnover parking;

•

Parking spaces dimensioned 2.6m wide by 5.4m long;

•

PWD spaces dimensioned 2.4m wide and 5.4m long with an adjacent 2.4m wide shared area; and

•

Parking aisle dimensioned a minimum 6.2m wide.

P a g e | 21

3.4.3

Pedestrian Safety

It is recommended that the following measures to be provided at the proposed service station to

improve the safety of the pedestrian traversing the site:

Provide chevon pavement marking with bollard in vicinity of the existing garden bed as a designated walking path for the pedestrian; and

•

Trim the vegetation at the existing garden bed to maintain a maximum of 600mm height from the ground level to improve the entering traffic sight line to the pedestrian traversing the site and vice versa.

The proposed safety measures are illustrated in Figure 3.8.

Proposed traffic bollard Proposed chevron pavement marking

Trim existing garden bed vegetation to maintain a maximum of 600mm height from the ground level

Proposed traffic bollard

Pedestrian walking path (Indicative)

Figure 3.8: Proposed Pedestrian Safety Measures

3.4.4

Swept Path Analysis (Parking Bays) Swept path analysis at the proposed parking bays has been conducted using a 5.2m passenger car as shown in Figure 3.9.

Figure 3.9: Swept Path Analysis (5.2m Passenger Car)

The swept path analysis demonstrated that the 5.2m passenger car can safely manoeuvre in and out at the proposed parking bays.

3.5

Servicing

3.5.1

Bulk Tank Re-fuelling Upon discussion with Freeways Australia, the largest service vehicles assessing the site for bulk fuelling will be a 19m long articulated vehicle (AV) which generated from Townsville.

The 19m long AV will be accessing the development site via Eighth Avenue. The swept path analysis

of a 19m AV accessing and egressing the development site via Eighth Avenue access driveways

(i.e. Access Driveways 1 and 2) is shown in Figure 3.10.

Figure 3.10: 19m AV Swept Path Analysis

Based on Figure 3.10, the 19m AV would stand on the western side of the canopy, thus restricting $\,$

access to the western bowser positions. However, re-fuelling is expected to occur outside of peak

times and this arrangement is not expected to significantly affect operations and safety at the site access.

3.5.2

Refuse Collection

A 10.22m rear-lift refuse collection vehicle (RCV) is expected to follow a similar path to the 19m AV,

as demonstrated in Figure 3.10, and would stand at the area fronting the proposed aboveground $% \left(1\right) =\left(1\right) +\left(1$

diesel tank while refuse is collected.

The swept path analysis of a 10.22m RCV service arrangement is shown in Figure 3.11.

Proposed aboveground diesel tank area

Figure 3.11: 10.22m RCV Swept Path Analysis

Based on Figure 3.11, the 10.22m RCV can safely reverse into the area for refuse collection and $\frac{1}{2}$

exit the site in a forward manner. It is noted that the $10.22m\ RCV$ may impact the traffic flow of the

service station, however, refuse collection is expected to occur outside of peak times and this

arrangement is not expected to significantly affect operations and safety at the site access.

3.6

Access Driveway Sight Distance (Access Driveway 3 - Egress-only)

3.6.1

Sight Distance to Pedestrian

The pedestrian sight line assessment was conducted in accordance with the TMR Guideline – $\,$

Treatment Options to Improve Safety of Pedestrians, Bicycle Riders and Other Path User at Driveways.

The TMR sight distance requirements at driveways are illustrated in Figures 3.12 and 3.13.

Figure 3.12: Sight Lines for Path Users Based on Bicycle Stopping Distances

Figure 3.13: Dimensions of Splays to Provide Sight Lines at Driveways (Flat Gradients)

The pedestrian sight line assessment conducted for the Access Driveway 3 (Egress-only access driveway) at Eighth Avenue.

Considering that Eight Avenue is designated as Principal Cycle Network path, the following

'Desirable' criteria (refer Figure 3.13) is adopted to assess the driveway's sightline:

•

X = 5.0m

•

Y = 13.0m

The assessed sight triangle requirement at the Access Driveway 3 is illustrated in Figure 3.14.

Pedestrian walking path (Indicative)

Pedestrian Sight Triangle

Existing vegetation

Figure 3.14: Sight Triangle Requirements at Access Driveway 3 (Egress-only)

The exiting traffic sight line to the pedestrian at Access Driveway 3 is generally complied with the

TMR Guideline – Treatment Options to Improve Safety of Pedestrians, Bicycle Riders and Other

Path User at Driveways requirements, however, the exiting traffic sight line may be impacted by the

existing vegetation at the corner of the property line as shown in Figures 3.14 and 3.15.

Existing vegetation

Figure 3.15: Existing Vegetation at Site Property Corner

It is recommended that the existing vegetation at the corner of the site property (as highlighted in Figure 3.15) to be removed to improve the exiting traffic sight line to the pedestrian.

3.6.2

Stopping Sight Distance at Access Driveway Exits
The Stopping Sight Distance (SSD) requirements for access driveway, in
accordance with the
Australian Standard AS2890.1:2004 Parking Facilities - Part 1: Off-Street Car
Parking, is illustrated
in Figure 3.16.

Figure 3.16: Sight Distance Requirements at Access Driveways

For a $60\,\mathrm{km/h}$ speed environment, the minimum required sight distance for the Eighth Avenue through traffic is ranged from $65\,\mathrm{m}$ to $83\,\mathrm{m}$.

The minimum SSD at Access Driveway 3 is illustrated in Figure 3.17.

Desirable 5s Gap Sight Triangle

Figure 3.17: Access Driveway 3 SSD Assessment

Based on Figure 3.17, the Eighth Avenue through traffic has sufficient sight line to observe a vehicle

on the access driveway or the conflict point, and to decelerate to a stop before reaching the collision

point, if required. The available sight distances at the driveway/conflict point are consistent with

AS2890.1 requirements and is expected to be adequate.

4.0

SITE INSPECTION

As indicated in Section 2.3.1.1, the Eighth Avenue weekdays peak periods occurs between 8am - 9am and 3pm - 4pm.

Noble Consulting Engineers has conducted a site inspection on Thursday morning (14/03/24),

between 8am to 9.30am, to gain better understanding of the AM peak hour traffic operation at the

Eighth Avenue/Second Street intersection.

Please see below site observation/findings:

Minimal traffic generated to/from Second Street at the Eighth Avenue/Second

intersection, i.e. only twelve (12) vehicles generated to/from Second Street at the

intersection between 8am - 9am;

•

No vehicle conducting left turn from Second Street onto Eight Avenue during the AM peak;

•

Minimal pedestrian activity was observed at the Eighth Avenue/Second Street intersection and the subject site; and

•

One (1) pedestrian is observed traversing the intersection and the subject site.

The Eighth Avenue/Second Street intersection traffic count were collected between 8am - 9am and illustrated in Figure 4.1.

Figure 4.1: 2024 AM Peak (Field Counts)

5.0

ASSESSMENT METHODOLOGY

The overall methodology adopted for the traffic impact assessment is outlined below:

•

Assess the Eighth Avenue background daily and peak hour traffic generation;

•

Assess the existing subject site daily and peak hour traffic generation;

•

Assess the development daily and peak hour traffic generation associated with the propsoed service station;

•

Assess the additional development traffic generation;

•

Conduct 5% impact threshold assessment on Eighth Avenue including roadway capacity assessment;

•

Assess the background and development peak hour traffic generation and distribution at Eighth Avenue/Second Street intersection;

•

Eighth Avenue/Second Street intersection turn treatment warrants assessment;

•

Analyse and assess the performance of the Eighth Avenue/Second Street intersection using SIDRA 9.1 software package for AM/PM peak hour traffic (i.e. Degree of Saturation (DoS), Level of Service (LOS), Average Delay and queue length etc.);

•

Conduct road safety assessment (i.e. historical crash analysis, intersection sight distance and access driveways risk assessment);

•

Determine the impact (if any) of the development traffic on Eighth Avenue/Second Street intersection, in terms of traffic operation and safety; and

•

```
Determine the mitigation measures (if required).

As indicated in Section 3.2, the proposed service station is expected to commence operation in mid to end-2024. The impact assessment has considered the following scenarios:

2024 AM/PM Peak (Background);

2024 AM/PM Peak (Background + Development);

2034 AM/PM Peak (Background); and

2034 AM/PM Peak (Background + Development).

P a g e | 33
```

```
240116/01_7-9 EIGHTH AVENUE, HOME HILL
PROPOSED SERVICE STATION DEVELOPMENT
TRAFFIC IMPACT ASSESSMENT
6.0
TRAFFIC ASSESSMENT
6.1
```

Background Traffic

6.1.1

Eighth Avenue (Bruce Highway) As indicated in Section 2.3.1.1, the Eighth Avenue 2022 AADT fronting the subject site were 7,384 vpd.

The Eighth Avenue peak rates were obtained from TMR 2020 AADT Segment Report and summarised in Table 6.1.

Table 6.1: Eighth Avenue Peak Rates Day

Peak Rate AM Peak

PM Peak

Monday

- 8.0%
- 8.0%

Tuesday

- 8.0%
- 9.0%

Wednesday

- 8.5%
- 9.0%

Thursday

- 8.0%
- 9.0%

Friday

- 9.0%
- 10.5%
- 8.3%
- 9.1%

Average

A 1.0% growth per annum has been adopted with a compound growth pattern, to project the 2022 background traffic to year 2024 and 2034.

The projected 2024 and 2034 Eight Avenue traffic is summarised in Table 6.2.

```
Table 6.2: Eighth Avenue Projected Background Traffic Year
```

Daily Traffic
PH Traffic

(Two-way)

(Two-way)

(vpd)

(vph) AM Peak

PM Peak

2024

7,532

625

685

2034

8,320

691

757

Note: PH - Peak Hour; vpd - vehicle per day; vph - vehicle per hour

6.1.2

Second Street

The daily and peak hour traffic for Second Street were estimated using 1st principal method with the

recommended trip generation rates stipulated in TMR Road Planning and Design Manual (RPDM)

- Chapter 3: Road Planning and Design Fundamentals, Appendix 3A.

The recommended daily and peak rate for detached dwelling, stipulated in TMR RPDM guideline were:

•

Daily Rate: 6 - 10 vpd per dwelling; and

•

Peak Rate: 0.8 to 0.85 vph per dwelling.

A daily rate of "6 vpd per dwelling" and peak rate of "0.8 vph per dwelling" has been adopted to estimate the daily and peak hour traffic for Second Street section in vicinity of the subject site.

The estimated Second Street catchment is illustrated in Figure 6.1.

Traffic catchment boundary (35 dwellings)

Figure 6.1: Second Street Traffic Catchment

Based on 35 dwellings, the estimated Second Street daily and peak hour traffic is estimated to be:

•

Daily traffic: 35×6.0 vpd per dwelling = 210 vpd (two-way)

•

Peak hour traffic: 35×0.6 vph per dwelling = 28 vph (two-way)

6.2

Existing Site Traffic

The existing mechanic workshop traffic generation were estimated based on the following

discussion with the business owners and site observation:

Operational hours: 7am to 5pm on weekdays;

•

Three (3) staff including the business owner were observed working at the workshop;

•

Number of customers per day: 6 to 10 customers daily;

•

Customer generally dropping off their vehicle for service/repairs around 7am to 8am; and

•

Customer generally picking up their vehicle after service/repairs around 4pm to 5pm.

The existing site traffic generation were estimated based on the following assumptions:

•

All staff arriving at the workshop using private vehicle = $3 \times 2 \text{ vpd} = 6 \text{ vpd}$ (two-way)

•

Average of 8 customers per day = $8 \times 2 \text{ vpd} = 16 \text{ vpd} \text{ (two-way)};$

•

Adjustment to customer daily traffic = $16 \text{ vpd } \times 2 = 32 \text{ vpd (two-way)};$

•

The adjustment of the customer daily traffic is to allow for the following:

> some customer picking up by other vehicle after dropping-off their cars for service/repairs; and
> some customer dropping off by other vehicle to pick-up their cars after

 ${\scriptstyle \succ}$ some customer dropping off by other vehicle to pick-up their cars after service/repairs.

Based on the above, the estimated site daily traffic generation were 6 vpd \pm 32 vpd \pm 38 vpd (twoway).

It is assumed that 8.7% (i.e. average of Eighth Avenue AM and PM peak factors) of the site daily

traffic generated during the Eighth Avenue peak periods. The estimated site peak hour traffic was

38 vpd x 8.7% = 4.0 vph (two-way).

Development Generated Traffic

6.3.1

Construction Traffic

All traffic related to constructing the proposed facility including workforces is expected to use Eighth

Avenue to access the site. Given that any construction traffic is likely to be temporary in nature, it is

expected that there will be no substantial impact on the operation of the state-controlled and local

roads due to the movement of the additional construction traffic.

All required state and local regulations will be observed during construction, including obtaining any

appropriate permits (if required) prior to the transportation of heavy equipment or construction

machinery for example.

Prior to the commencement of construction, the requirement to produce Traffic Management Plans

 (TMP) and Traffic Control Plans (TCP) will be discussed with TCC and DTMR. If required, a TMP

and appropriate TCPs will be developed. These documents identify the likely traffic impacts of the

road works and potential mitigation measures. Any TMP and/or TCPs will be developed in reference

to Manual of Uniform Traffic Control Devices (MUTCD). Potential mitigation measures could include

a reduced speed limit and/or additional signage while the works are being undertaken.

6.3.2

Development Traffic

Traffic generation rates for the proposed service station were sourced from the ITE Trip Generation

Manual 10th Edition, using "Gasoline/Service Station with Convenience Store (945)" land use as a reference.

The trip rates which were used to estimate the traffic generation for the propsoed development are as follows:

•

Weekday daily: 205.36 vpd per bowser

•

Weekday AM peak hour: 12.47 vph per bowser

•

Weekday PM peak hour: 13.99 vph per bowser

Using the daily rate of 205.36 vpd per bowser and average peak rate of 13.23 vph per bowser, the

estimated traffic generation for the service station development are:

•

Weekday daily: 205.36×6 fuel-filling positions = 1,232 vpd

•

Weekday peak hour: 13.23×6 fuel-filling positions = 79×10^{-2}

Considering the proposed service station is located on the southern end of the township, smallscaled family-owned service station and adjacent large scale service stations such as United

Petroleum and Liberty Oil (under construction) as shown in Figure 6.2, the development traffic

generation in fact would be lower compared to a standard large scaled service station.

Future Liberty Oil Service Station (under construction)

Existing United Petroleum Service Station

Proposed Development

Figure 6.2: Adjacent Large Scaled Service Stations (Source: QLD Globe)

Therefore, a 25% reduction factor is applied to the above daily and peak hour traffic generation. The revised traffic generation for the service station development is estimated to

be:

Weekday daily: 1,232 vpd x 75% = 924 vpd

•

Weekday peak hour: 79 vph x 75% = 60 vph

For this development, 60% passing trade is assumed (in accordance ITE Trip Generation Manual 10th Edition) for the proposed service station.

The 2024 net addition of the traffic when accounting for passing trade and existing site traffic is +332 vpd (daily traffic) and +20 vph (peak hour), calculated as follows:

Daily traffic: $924 - (924 \times 60\%) - 38 = 332 \text{ vpd}$

•

Peak hour traffic: $60 - (60 \times 60\%) - 4 = 20 \text{ vph}$

The projected 2034 net addition of the development traffic, based on 1% growth per annum with a compound growth pattern, is estimated to be +366 vpd (daily traffic) and +22 vph (peak hour).

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240116/01_7-9 EIGHTH AVENUE, HOME HILL
PROPOSED SERVICE STATION DEVELOPMENT
TRAFFIC IMPACT ASSESSMENT
7.0
ROAD LINK CAPACITY ASSESSMENT (EIGHTH AVENUE)
7.1
5% THRESHOLD IMPACT ASSESSMENT
In accordance with DTMR Guide to Traffic Impact Assessment - Section 6.4, all
road links where
the development traffic exceeds 5% of the base traffic (background traffic)
deemed to have an
impact on the road network.
The 5% threshold impact assessment based on the daily traffic is summarised in
Table 7.1.
Table 7.1: 5% Threshold Impact Assessment
Roads
2024 AADT
2034 AADT
2024
2034
Development Impacts
(Background)
(Background)
Development
Development
(%)
(vpd)
(vpd)
Traffic
Traffic
2024
2034
(Net
(Net
```

(Opening

(10 Years

Addition)

```
Addition)
Year)
Design
(vpd)
(vpd)
332
366
Eighth Avenue
7,532
8,320
Horizon)
4.41%
4.39%
Based on the assessment, the overall estimated development daily traffic is less
than 5% of the
Eighth Avenue (Bruce Highway) background traffic. Therefore, the development
traffic is deemed
to have minimal impact on the traffic operation or capacity of Eighth Avenue
(Bruce Highway).
7.2
Roadway Capacity
DTMR RPDM (1st edition) Chapter 5 - Traffic Parameters and Human Factors provide
a guidance
of road capacity and Level of Services (LOS). The overall relation between the
LOS and their
associated roadway capacity (expressed as vehicle per hour per lane) is
summarised in Table 7.2.
Table 7.2: LOS and Capacity
LOS
Peak Lane Capacity
Description
(vph)
< 700
Drivers can travel at their own free speed with little interference.
В
700 - 1000
Drivers have reasonable freedom to select their speed.
С
```

```
1000 - 1500
```

Drivers are restricted in their freedom to select speed or manoeuvre, but speeds are still at or above optimum speed.

D

1500 - 1800

Appropriate to flows near tolerable capacity.

Ε

1800 - 2000

At or near actual capacity.

Austroads Guide to Traffic Management (AGTM) Part 3 – Traffic Studies and Analysis provides guidance to calculate the capacity of a single traffic lane, as follows:

C = 1800 fW fHV

where:

C = capacity in veh/h under prevailing roadway and traffic conditions fW = adjustment factor for narrow lanes and lateral clearances (refer AGTM Part 3 - Table 4.1)

fHV = adjustment factor for heavy vehicles = 1/[1+ PHV (EHV - 1)]

PHV = the proportion of heavy vehicles in the traffic stream, expressed as a decimal

EHV = the average passenger car equivalents for heavy vehicles (refer AGTM Part 3 - Table 4.2)

AGTM Part 3 - Tables 4.1 and 4.2 are illustrated in Figure 7.1.

Figure 7.1: fW and EHV Values (Source: AGTM Part 3)
Based on the following conservative assumptions (worst case scenario), the
calculated single lane
traffic capacity was 972 vph:

fW = 0.6, assuming 3.2m lane width with 0m lateral clearances on each side;

PHV = 0.1115 (DTMR AADT segment reports indicated Eight Avenue HV% were $\approx\!11.15\%);$ and

EHV = 2.0, assuming 'Level'.

At post-development and throughout the 10-year design horizon, the two-way peak hour traffic along

Eighth Avenue (refer Figures 8.7 and 8.8) is estimated to be:

•

2024 AM Peak: 713 veh/hr (or 357 veh/lane/hr);

•

2024 PM Peak: 773 veh/hr (or 387 veh/lane/hr);

•

2034 AM Peak: 787 veh/hr (or 394 veh/lane/hr); and

•

2034 PM Peak: 854 veh/hr (or 427 veh/lane/hr).

The Eighth Avenue overall peak hour traffic is less than 700 vph peak lane capacity which indicates

LOS of A. The Eighth Avenue overall peak hour traffic is also below the 972 vph single lane traffic

capacity. Thus, the development traffic impact on Eighth Avenue is considered minimal.

```
240116/01_7-9 EIGHTH AVENUE, HOME HILL
PROPOSED SERVICE STATION DEVELOPMENT
TRAFFIC IMPACT ASSESSMENT
8.0
INTERSECTION
ASSESSMENT
(EIGHTH
AVENUE/SECOND
STREET
INTERSECTION)
8.1
Eight Avenue Background Traffic (Peak Hour)
As indicated in Table 6.2, the Eighth Avenue peak hour traffic were:
2024 AM Peak - 625 vph (two-way)
2024 PM Peak - 685 vph (two-way)
2034 AM Peak - 691 vph (two-way)
2034 PM Peak - 757 vph (two-way)
Based on the TMR 2022 traffic census data, the HV% were 11.15%.
Assuming a 50/50 directional split, the Eighth Avenue northbound and southbound
peak hour traffic
is calculated as follow:
8.2
2024 AM Peak - 312.6 vph (northbound) / 312.6 vph (southbound)
2024 PM Peak - 342.7 vph (northbound) / 342.7 vph (southbound)
2034 AM Peak - 345.3 vph (northbound) / 345.3 vph (southbound)
2034 PM Peak - 378.6 vph (northbound) / 378.6 vph (southbound)
Second Street Background Traffic (Peak Hour)
As indicated in Section 6.1.2, the estimated 2024 peak hour traffic generation
at Second Street
```

were 28 vph (two-way).

The following assumptions (in conjunction with site observation) has been made in assessing the

Second Street peak hour traffic generation and distribution at the Eighth Avenue/Second Street

intersection:

•

During AM peak:

> 60% of the peak hour traffic leaving the catchment with the following traffic movement split:

٦٢ -

10% LEFT OUT to Eighth Avenue

•

90% RIGHT OUT to Eighth Avenue

 \succ 40% of the peak hour traffic entering the catchment with the following traffic movement split:

•

80% LEFT IN from Eighth Avenue

•

20% RIGHT IN from Eighth Avenue

•

During PM peak:

> 40% of the peak hour traffic leaving the catchment with the following traffic movement split:

•

10% LEFT OUT to Eighth Avenue

•

90% RIGHT OUT to Eighth Avenue

 \succ 60% of the peak hour traffic entering the catchment with the following traffic movement split:

•

80% LEFT IN from Eighth Avenue

•

20% RIGHT IN from Eighth Avenue

A 1.0% HV has been assumed for the Second Street peak hour traffic.

A 1.0% traffic growth per annum has been assumed and adopted to project the Second Street peak hour traffic to year 2034.

The Second Street 2024 and 2034 peak hour traffic generation and distribution at the Eighth Avenue/Second Street intersection is illustrated in Figures 8.1 and 8.2.

Figure 8.1: 2024 Peak Hour Traffic (Second Street)

Figure 8.2: 2034 Peak Hour Traffic (Second Street)

8.3

Development Traffic (Peak Hour)

As indicated in Section 6.3.2, the estimated 2024 development peak hour traffic were 60 vph (twoway).

The following assumptions has been made in assessing the development peak hour traffic

generation and distribution at the Eighth Avenue/Second Street intersection:

•

50% of the peak hour traffic entering the proposed service station via Access Driveway 2

(i.e. STRAIGHT THROUGH from Eighth Avenue (N));

•

50% of the peak hour traffic entering the proposed service station via Access Driveway 1

(i.e. RIGHT IN from Eighth Avenue (S));

•

Assumed same development traffic generation and distribution for both AM and PM peak

periods; and

•

All traffic exiting the proposed service station via Access Driveway 3 (i.e. not traversing the Eighth Avenue/Second Street intersection).

A 1.0% traffic growth per annum has been assumed and adopted to project the development peak hour traffic to year 2034.

The 2024 and 2034 development peak hour traffic generation and distribution at the Eighth Avenue/Second Street intersection is illustrated in Figures 8.3 and 8.4.

Figure 8.3: 2024 Peak Hour Traffic (Development)

Figure 8.4: 2034 Peak Hour Traffic (Development)

8.4

Overall Traffic Generation
Building on the data and assumptions outlined above, the traffic generation and distribution figures
adopted for the Eighth Avenue/Second Street intersection assessment were derived.

The resulting overall 2024 and 2034 AM/PM peak hour traffic volumes, at the Eighth Avenue/Second Street intersection, adopted for the assessment are shown in Figures 8.5, 8.6, 8.7 and 8.8.

Figure 8.5: 2024 Peak Hour Traffic (Background)

Figure 8.6: 2034 Peak Hour Traffic (Background)

Figure 8.7: 2024 Peak Hour Traffic (Background + Development)

Figure 8.8: 2034 Peak Hour Traffic (Background + Development)

8.5

Turn Treatment Warrant Assessment Intersection turns warrant assessment were conducted in accordance with DTMR Supplement to Austroads Guide to Road Design Part 4A: Unsignalised and Signalised Intersections.

As indicated earlier in Section 2.3, the speed limit of Eighth Avenue section in vicinity of the Second Street intersection is 60km/h.

The assessment of the warrants is based on the Extended Design Domain (EDD) criteria for a road with a design speed $\leq 70 \, \text{km/h}$.

The major road traffic volumes (QM) for the assessment were calculated in accordance with Figure 8.7.

Figure 8.7: Calculation of the Major Road Traffic Volumes (Source: DTMR)

The calculated traffic volumes at the intersection are summarised in Table 8.1.

Table 8.1: Turn Warrant Traffic Volumes 2024 Peak Hour (vph)

2034 Peak Hour (vph)

AM

PΜ

AM

PΜ

QT1

312.6

342.7

345.3

378.6

QT2

342.4

372.5

378.2

411.5

QL

9.0

13.4

9.9

14.8

QR

32

33.1

35.4

36.6

QM (Right Turn)

663.9

728.7

```
733.4
804.9
QM (Left Turn)
342.4
372.5
378.2
411.5
Parameters
The turn warrant assessment was conducted using the Warrant Chart illustrated in
Figure 8.8, with
the 2024/2034 PM peak hour traffic.
Figure 8.8: Turn Treatment Warrants (Source: DTMR)
Based on the assessment, the Eighth Avenue/Second Street intersection warrants:
At post development (2024) - Basic Right/Basic Left (BAR/BAL)
10 years design horizon (2034) - Channelised Right (Short)/Basic Left
(CHR(s)/BAL)
Page | 51
```

The existing Eighth Avenue/Second Street intersection only consists of channelised right turn

treatment (as illustrated in Figure 2.6) and is not consistent with the assessment findings. However,

in saying that, the current 5.1m wide sealed road shoulder can be utilised by the Eighth Avenue

southbound left turning traffic onto Second Street if needed or safe to do so.

It shall be noted all Eighth Avenue southbound development traffic will be accessing the proposed

service station via Access Driveway 1, which is located south of the existing Eighth Avenue/Second Street intersection.

8.6

Intersection Analysis

8.6.1

General

The existing Eighth Avenue/Second Street intersection has been modelled against the following scenarios:

•

2024 AM/PM Peak (Background);

•

2024 AM/PM Peak (Background + Development);

•

2034 AM/PM Peak (Background); and

•

2034 AM/PM Peak (Background + Development).

The existing intersection has been analysed using the SIDRA 9.1 software package. This software $\,$

package calculates the operation of intersections based on input parameters, including geometry

and traffic volumes. As an output, SIDRA 9.1 provides values for the Degree of Saturation (DoS),

Average Delays, Queue Length and Level of Service (LOS) as defined below:

Degree of Saturation (DoS) – is the ratio of demand flow (or number of vehicles) to the

physical capacity of the intersection or approach and is usually represented by a value that

lies between zero and one. A DoS in excess of 1.0 indicates that the intersection will operate $\,$

above capacity and that long delays and congestion will occur.

•

Average Delay - is usually defined as the difference in time between interrupted and uninterrupted travel times through an intersection.

•

Queue Length - is the 95th percentile back of queue length. This is the length to the back of the queue for a particular approach which 95% of all observed queue lengths fall

below.

•

Level of Service (LOS) – an index of the operational performance of traffic on traffic lane,

approach, intersection, route or network, based on measures such as delay, degree of

saturation, density, speed, congestion coefficient, speed efficiency or travel time index

during a given flow period. This provides a quantitative stratification of a performance

measure or measures that represent the quality of service, measured on an A to F scale,

with LOS A representing the best operating conditions from the traveller's perspective and $% \left(1\right) =\left(1\right) \left(1$

LOS F the worst.

```
240116/01_7-9 EIGHTH AVENUE, HOME HILL
PROPOSED SERVICE STATION DEVELOPMENT
TRAFFIC IMPACT ASSESSMENT
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```
8.6.2
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Intersection Performance Assessment Criteria The four (4) key performance measurements adopted to assess the intersection operational conditions were Degree of Saturation (DoS), delay, Level of Service (LOS) and queue length. In general, the intersection capacity DoS, where it is considered that the operation of the intersection is constrained, are: 0.80 (80%) for un-signalised intersections; 0.85 (85%) for roundabouts; and 0.90 (90%) for signalised intersections. The typical LOS, its characteristics and rating are defined in Table 8.2. Table 8.2: LOS Characteristic and Rating 8.6.3 LOS Description Rating Α Free, unrestrictive flow Very good Mostly free flow, few disruptions Very Good Stable flow Good Mostly stable flow, some delays

Ε

Acceptable

Congested

Bad

F

Forced flow

Bad

SIDRA Modelling

This section summarises the SIDRA assessment outputs (DoS and LOS) of the existing intersection.

The detailed SIDRA outputs (Movement Summary) are included in Appendix B.

The configuration of the existing Eighth Avenue/Second Street intersection is shown in Figure 8.9.

Figure 8.9: Eighth Avenue/Second Street Intersection

The summary of the SIDRA assessment results for the four (4) scenarios during AM/PM peak hours is shown in Tables 8.3 and 8.4.

Table 8.3: 2024 AM/PM Peak (Summary of Results)

Table 8.4: 2034 AM/PM Peak (Summary of Results)

The SIDRA analysis results indicated that the existing intersection with development, the maximum

overall DoS is approximately 0.244 during PM peak in year 2034, with a surplus capacity of 60%

before roundabout upgrade (i.e. DoS of 0.85).

The maximum average delay difference at the intersection approaches, at pre and $\operatorname{\mathsf{post}}$

development is 1.0 secs to 1.3 secs (i.e. Second Street (E) approach during year 2024 and 2034

PM peak - Right Turning Movement) which is considered minimal and acceptable.

At post-development, all approaches turning movements are operating at LOS A/B throughout the

10 years design horizon and the increase of queue length is less than one (1) car length.

Overall, at post-development (2024) and throughout the 10 years design horizon (2034), the existing

intersection is operating under "mostly free flow with few disruptions" condition.

9.0

STACKING CAPACITY

The stacking capacity of the service station and queue analysis at the fuel-filling points have been

assessed in more detail to investigate the impacts of higher-than-average site patronage during

peak weekday operational periods (i.e., "cheap fuel days"). This sensitivity analysis was undertaken

in order to confirm the capacity of the service station to operate satisfactorily under amplified traffic activity conditions.

As indicated in Section 6.3.2, the estimated 2024 development peak hour traffic were 60 vph (twoway). The projected 2034 development traffic, based on 1% growth per annum with a compound

growth pattern, is estimated to be $66\ \text{vph}$ (33 inbound / 33 outbound). It is assumed that all bowsers

will be in operation during the peak period.

The 33 inbound trips during the peak hour across 6 fuel-filling points result in six (6) cars being

serviced per fill point in one hour (i.e. 33 veh / 6 fill points = 6 veh per fill point). This results in an

average of 10 minutes for each car at each fill point to be serviced (i.e. $60 \, \text{min} / 6 \, \text{veh} = 10 \, \text{min} \, \text{per}$

veh). However, practical experience indicates that the typical rate of service per fill point (time taken

for a vehicle to arrive, park at a fill point, get fuel, pay for fuel and leave the fill point and service

station site) is usually around 3 minutes during peak times.

If conservatively a 5 minutes service time is adopted, then up to twelve (12) cars can be serviced

per fill point within one hour (i.e. 60 min / 5 min per veh per fill points = 12 veh per hour per fill point)

which in turn results in up to seventy two (72) cars in total serviced in one hour within the service

station (12 veh per hour per fill point $x \in fill$ points = 72 veh per hour).

This analysis indicates that conservatively the service station can service 39 more vehicles than the

highest peak hour trip rate. However, as evident from Figure 9.1, in addition to the six (6) vehicles

parked at the bowsers, at least another four (4) vehicles can comfortably be stacked behind the cars

filling up at the bowsers without impacting the traffic circulations within the site to access the uncover parking bays.

Figure 9.1: Stacking Analysis

Therefore, it is anticipated that under peak operating conditions, no stacking or queue backs onto Eighth Avenue are expected.

10.0

ROAD SAFETY ASSESSMENT

10.1

Crash Data

Crash history data from QLD Globe indicates that there have been NIL crashes reported at the $\,$

Eighth Avenue/Second Street intersection or in vicinity of the subject site access driveways, as shown in Figure 10.1.

Subject Site

Figure 10.1: QLD Globe Historical Crash (Source: QLD Globe)

10.2

Safe Intersection Sight Distance (Eighth Avenue/Second Street Intersection) A Safe Intersection Sight Distance (SISD) has been conducted on the existing Eighth

Avenue/Second Street intersection.

The SISD was assessed in accordance with Austroads - Guide to Road Design Part 4A:

Unsignalised and Signalised Intersections (AGRD Part 4A), Section 3.2.2.

For a 60km/h speed environment (i.e. 70km/h advisory speed), the desirable SISD is 151m. The $\,$

desirable SISD and sight line is illustrated in Figure 10.2.

Conflict Point

Sight line to vehicle on side road

Subject Site

Desirable SISD 151m

Figure 10.2: SISD Assessment

Based on Figure 10.2, the Eighth Avenue through traffic has sufficient sight line to observe a vehicle on Second Street and to decelerate to a stop before reaching the collision point, if required. The SISD at Eighth Avenue is consistent with AGRD Part 4A requirements and is expected to be adequate.

10.3

Risk Assessment (Proposed Development Access Driveways)

A road safety risk assessment has been undertaken in accordance with TMR's Guide to Traffic

Impact Assessment (GTIA) (2018). The GTIA outlines that:

"Safety is not readily quantifiable as efficiency and is scored based on expert opinion on the changes

to likelihood and/or consequence of a risk being realized.

The condition of road cannot be defined absolutely as being safe or unsafe. Rather, road safety is

a relative measure benchmarked against an existing condition or an acceptable risk threshold."

The traffic safety risks were identified and then scored using the risk scoring matrix outlined in the

GTIA, as shown in Figure 10.3. These identified risks relate to the traffic movements at the proposed

access driveways associated with the development.

Figure 10.3: Safety Risk Score Matrix (Source: TMR's GTIA)

The risk assessment has been conducted for the proposed development access driveways which

specifically address the:

Item 1 - Left turns into the site (rear-end crash with left turn entry);

•

Item 2 - Left turns into the site (pedestrian crash upon entering a driveway);

•

Item 3 - Right turns into the site (rear-end crash with right turn entry);

•

Item 4 - Right turns into the site (pedestrian crash upon entering a driveway);

•

Item 5 - Right turns out of the site (side-swipe crashes with adjacent through
movements);
and

Item 6 - Right turns out of the site (pedestrian crash upon exiting a driveway).

```
The results of the risk assessment are summarised in Tables 10.1, 10.2 and 10.3.
Table 10.1: Road Safety Risk Assessment (Access Driveway 1 - Ingress-only)
With
L
2
1
Mitigation Measures
Risk Score
1
Consequence
& Mitigation
Likelihood
Consequence
Item 1: Left turns into
development
Risk Score
Risk Item
Likelihood
Development
Risk Score
Development
Consequence
With
Likelihood
Without
L
Second Street through traffic has sufficient sight
```

```
the site
line to development left turn traffic into access
(rear-end crash with left
driveway due to relatively straight and flat road
turn entry)
geometry along Second Street.
No action required.
Item 2 - Left turns into
1
2
L
2
2
Left-In development traffic has wide view to the
the site
surrounding area prior turning into the driveway.
(pedestrian crash upon
Please also note that during the site inspection,
entering a driveway)
minimal public pedestrian activity was observed in
the area (refer Section 4.0).
No action required.
Item 3 - Right turns
```

```
1
L
2
1
L
Eighth Avenue turning traffic onto Second Street
into the site
has sufficient SSD to the development traffic
(rear-end crash with
waiting for turning into the driveway.
right turn entry)
Refer also Section 10.2 for SISD assessment.
No action required.
Item 4 - Right turns into
1
2
L
2
2
Right-In development traffic has wide view to the
the site
surrounding prior turning into the driveway.
(pedestrian crash upon
Please also note that during the site inspection,
entering a driveway)
minimal public pedestrian activity was observed in
the area (refer Section 4.0).
No action required.
Page | 62
```

1

```
PROPOSED SERVICE STATION DEVELOPMENT
TRAFFIC IMPACT ASSESSMENT
Table 10.2: Road Safety Risk Assessment (Access Driveway 2 - Ingress-only)
With
L
2
1
Risk Score
1
Mitigation Measures
Consequence
1
& Mitigation
Likelihood
Consequence
Item 1: Left turns into
development
Risk Score
Risk Item
Likelihood
Development
Risk Score
Development
Consequence
With
Likelihood
Without
L
Eighth Avenue through traffic has sufficient sight
```

240116/01_7-9 EIGHTH AVENUE, HOME HILL

1

```
2
L
the site
line to development left turn traffic into access
(rear-end crash with left
driveway due to relatively straight and flat road
turn entry)
geometry along Eighth Avenue.
Refer also Section 10.2 for SISD assessment.
No action required.
Item 2 - Left turns into
1
2
L
2
2
L
Trim existing raised garden bed vegetation to
the site
maintain a maximum of 600mm height from the
(pedestrian crash upon
ground level to improve the entering vehicle sight
entering a driveway)
line to the pedestrian traversing inside the service
Please also note that during the site inspection,
minimal public pedestrian activity was observed in
```

the area (refer Section 4.0).

```
240116/01_7-9 EIGHTH AVENUE, HOME HILL
PROPOSED SERVICE STATION DEVELOPMENT
TRAFFIC IMPACT ASSESSMENT
Table 10.3: Road Safety Risk Assessment (Access Driveway 3 - Egress-only)
With
L
2
1
Risk Score
1
Mitigation Measures
Consequence
1
& Mitigation
Likelihood
Consequence
Item 5 - Right turns out
development
Risk Score
Risk Item
Likelihood
Development
Risk Score
Development
Consequence
With
Likelihood
Without
L
Eighth Avenue through traffic has sufficient SSD to
```

1

```
2
of the site
exiting development traffic.
(side-swipe crashes
Refer also Section 3.6.2 for SSD assessment.
with adjacent through
movements)
Item 6 - Right turns out
No action required.
1
2
L
2
2
L
Trim existing raised garden bed vegetation to
of the site
maintain a maximum of 600mm height from the
(pedestrian crash upon
ground level to improve the exiting vehicle sight line
exiting a driveway)
to the pedestrian traversing along Eighth Avenue
road shoulder (refer Section 3.4.3).
Trim existing vegetation at the corner of the site
property to improve the exiting traffic sight line to
the pedestrian (refer Section 3.6.1).
The proposed development will increase the likelihood of crashes at the
development site accesses,
compared to the pre-development case, however, this increase in likelihood is
not expected to have
a significant impact on road safety with the following recommended measures:
Trim existing raised garden bed vegetation to maintain a maximum of 600mm height
from the
ground level to improve the exiting vehicle sight line to the pedestrian
traversing along Eighth
Avenue road shoulder; and
```

Trim existing vegetation at the corner of the site property to improve the exiting traffic sight line to the pedestrian.

11.0

PRE-LODGEMENT ADVICE DISCUSSION

In accordance with the SARA's pre-lodgement advice, there were concerns raised regards the

pedestrian safety, the existing Eighth Avenue access driveway crossover width (i.e. Access

Driveways 2 and 3) and blocked access/queuing issues onto Eighth Avenue, as stipulated below:

"The existing crossovers are very wide and don't take into consideration pedestrian safety. The

widths should be reduced to cater for only the largest design vehicle to minimise the extent of

crossover provided. The crossovers are also not to current standards. Any application should

update/amend the access into the site so that they are consistent with current council and DTMR standards.

The existing onsite layout, parking arrangement, and workshop location may cause onsite conflicts

which would then result in a blocked access/queuing issues onto the SCR. This is required to be

address in any future application."

11.1

Pedestrian Safety Refer to Sections 3.4.3, 3.6.1 and 10.3 pedestrian safety assessment and findings including proposed safety measures.

11.2

Access Driveway Crossover Width

It is understood that there is no set standard of concrete driveway crossover profile available from

BSC or DTMR. In general, any driveway crossover design should be able to accommodate the

design vehicle turning movements, regardless the width.

As shown in Figure 3.9, the width of existing Access Driveways 2 and 3 is deemed required to

accommodate the 19m AV enter and exit manoeuvres at the subject site and any further width

reduction may jeopardised the 19m AV turning movements.

development along Eighth Avenue. i.e. United Petroleum (located 330m north of the subject site), as shown in Figure 11.1.

United Petroleum Service Station

Figure 11.1: United Petroleum Service Station Access Driveways Width (Source: QLD Globe)

In addition:

•

The proposed service station access driveways configuration promotes one-way traffic flow within the site, which is believed to be safer, and introduce less conflict points due to no development traffic will be entering and exiting simultaneously via a same access driveway;

and

Crash history data from QLD Globe indicates NIL crashes reported in vicinity of the subject

site access driveways in the past ten (10) years) which indicated that the road users are

familiar with the traffic condition in the area.

Refer also to Section 10.3 for access driveway risk assessment.

Considering the above, it is proposed that the existing access driveway crossovers width at ${\sf Eighth}$

Avenue to remain as it is, and driveway modification works is deemed not required.

11.3

Blocked Access/Queuing Issues onto Eighth Avenue

As indicated in Section 6.2, the mechanic workshop operated between 7am to 5pm. Majority of the workshop patrons traffic will be arriving at the site between 7am – 8am for dropping

off their vehicles for repair/service and picking up their vehicles between 4pm – 5pm after

repair/service.

The workshop patrons traffic is generally generated outside the Eighth Avenue peak periods, i.e.

8am – 9am and 3pm – 4pm. It shall also be noted that the workshop patrons appointment is

managed via booking system to avoid overload or outweighed capacity.

Considering the above, the risk of onsite conflict between the service station and mechanic workshop patrons is deemed low.

Refer also to Section 9.0 for development stacking capacity assessment and findings.

12.0

CONCLUSION AND CERTIFICATION STATEMENT

12.1

Conclusion

The proposed service station development has been evaluated in terms of its site accesses

arrangement, on-site parking, impact on the surrounding road network and safety. The mains points

to note are:

•

The proposed small-scaled family-owned service station development comprises of:

- Retention of the existing building structures for storage and workshop;
- \succ Removal small section of the existing building to accommodate new 30,000L above

ground diesel tank;

- > Convert part of the existing building to convenience store including kitchen facilities;
- > Provision of six (6) fuel-filling positions;
- \succ Raise and extends existing canopy to cover the six (6) fuel-filling positions and to

accommodate fuel tanker truck height; and

> Provision of seven (7) on-site parking spaces (inclusive of one (1) disabled parking

bay) including four (4) cover parking spaces inside the existing building.

•

It is anticipated the proposed development will commence operation in mid to late 2024,

subject to development approval and construction;

•

Access to the development site is proposed via existing three (3) site access driveways;

- > Driveway 1 9m wide (approx.) bitumen sealed access driveway via Second Street;
- > Driveway 2 14m wide (approx.) concrete access driveway via Eighth Avenue;
- > Driveway 3 21m wide (approx.) concrete access driveway via Eighth Avenue.

•

It is proposed to reduce the existing Access Driveway 1 width to 5.1m (approximately) to maintain the minimum 6m clearance from the Eighth Avenue/Second Street intersection give way line;

•

Both Access Driveways 2 and 3 location complies with the Australian Standard AS2890.1:2004 Parking Facilities – Part 1: Off-Street Car Parking - Access Driveway Location requirement;

•

The proposed layout of on-site parking area is generally consistent with the requirements of AS2890.1 - Off-Street Parking;

•

The proposed service station provides seven (7) car parking bays (inclusive of one (1) disabled parking bay), which complied with the BSC Planning Scheme requirements;

•

It is recommended that the following measures to be provided at the proposed service station

to improve the safety of the pedestrian traversing the site:

> Provide chevon pavement marking with bollard in vicinity of the existing garden bed

as a designated walking path for the pedestrian; and

 \succ Trim the vegetation at the existing garden bed to maintain a maximum of 600mm height from the ground level to improve the entering traffic sight line to the pedestrian

traversing the site and vice versa.

•

The swept path analysis demonstrated that the 5.2m passenger car can safely manoeuvre

in and out at the proposed parking bays;

•

The swept path analysis demonstrated that the 19m AV can safely manoeuvre in and out of $\,$

the proposed service station Access Driveways 2 and 3;

•

The 19m AV would stand on the western side of the canopy, thus restricting access to the western bowser positions. However, re-fuelling is expected to occur outside of peak times and this arrangement is not expected to significantly affect operations and safety at the site

access;

•

The swept path analysis demonstrated that the 10.22m RCV safely reverse into the area for $\,$

refuse collection and exit the site in a forward manner;

•

The "sight distance to pedestrian" at Access Driveway 3 (Egress only access driveway) is consistent with the DTMR requirements. It is recommended that the existing vegetation at the corner of the site property to be removed to improve the exiting traffic sight line to the pedestrian;

•

The SSD at Access Driveway 3 consistent with the AS2890.1:2004 Parking Facilities - Part

1: Off-Street Car Parking requirement;

•

Site inspection findings:

> Minimal traffic generated to/from Second Street at the Eighth Avenue/Second Street

intersection between 8am - 9am;

- > No vehicle conducting left turn from Second Street onto Eight Avenue during the AM peak;
- Minimal pedestrian activity was observed at the Eighth Avenue/Second Street intersection and the subject site; and
- > One (1) pedestrian is observed traversing the intersection and the subject

site.

•

The estimated existing site daily and peak hour traffic generation were 38.0 vpd and 4.0 vpd respectively;

•

The revised traffic generation (with 25% reduction) for the service station development is

estimated to be:

- > Weekday daily: 1,232 vpd x 75% = 924 vpd
- > Weekday peak hour: 79 vph x 75% = 60 vph

•

The 2024 net addition of the development traffic when accounting for passing trade (60%) and existing site traffic is +332 vpd (daily traffic) and +20 vph (peak hour)

•

The projected 2034 net addition of the development traffic, based on 1% growth per annum with a compound growth pattern, is estimated to be +366 vpd (daily traffic) and +22 vph (peak hour);

•

The estimated average daily traffic of the "New attracted development traffic" (i.e. 332-366 vpd) is less than 5% of Eighth Avenue (or Bruce Highway) 2024/2034 background traffic (i.e. 7,532-8,320 vpd);

•

Turn warrant assessment indicated that Eighth Avenue/Second Street intersection warrants:

- > At post development (2024) Basic Right/Basic Left (BAR/BAL)
- > 10 years design horizon (2034) Channelised Right (Short)/Basic Left (CHR(s)/BAL)

•

The existing Eighth Avenue/Second Street intersection only consists of channelised right

turn treatment. The current 5.1m wide sealed road shoulder can be utilised by the Eighth

Avenue southbound left turning traffic onto Second Street if needed or safe to do so;

•

It shall be noted all Eighth Avenue southbound development traffic will be accessing the proposed service station via Access Driveway 1, which is located south of the existing Eighth Avenue/Second Street intersection;

•

SIDRA analysis indicated that, at post-development (2024) and throughout the 10 years design horizon (2034), the existing Eighth Avenue/Second Street intersection is operating under "mostly free flow with few disruptions" condition";

•

The proposed service station stacking capacity analysis indicated that under peak operating conditions, no stacking or queue backs onto Eighth Avenue are expected;

•

Crash history data from QLD Globe indicates that there have been NIL crashes reported at the Eighth Avenue/Second Street intersection or in vicinity of the subject site

access
driveways;

•

The SISD at Eighth Avenue/Second Street intersection consistent with AGRD Part 4A requirements;

•

The proposed development will increase the likelihood of crashes at the development site $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

accesses, compared to the pre-development case, however, this increase in likelihood is not

expected to have a significant impact on road safety with the following recommended

measures:

 \succ Trim existing raised garden bed vegetation to maintain a maximum of 600mm height

from the ground level to improve the exiting vehicle sight line to the pedestrian

traversing along Eighth Avenue road shoulder; and

 \succ Trim existing vegetation at the corner of the site property to improve the exiting traffic

sight line to the pedestrian.

•

No modification works is proposed to Access Driveways 2 and 3 considering:

 \succ The width of existing Access Driveways 2 and 3 is deemed required to accommodate

the 19m AV enter and exit manoeuvres at the subject site and any further width reduction may jeopardized the 19m AV turning movements;

reduction may jeopardized the 19m AV turning movements; > The width of existing Access Driveways 2 and 3 is consistent with other previous

approved service station development along Eighth Avenue. i.e. United Petroleum (located 330m north of the subject site);

> The proposed service station access driveways configuration promotes one-way traffic flow within the site, which is believed to be safer, and introduce less conflict

points due to no development traffic will be entering and exiting simultaneously via a

same access driveway;

Crash history data from QLD Globe indicates NIL crashes reported in vicinity of the

subject site access driveways in the past ten (10) years) which indicated that the road

users are familiar with the traffic condition in the area;

> Trim existing raised garden bed vegetation to maintain a maximum of 600mm height

from the ground level to improve the exiting vehicle sight line to the pedestrian

traversing along Eighth Avenue road shoulder; and

 \succ Trim existing vegetation at the corner of the site property to improve the exiting traffic

sight line to the pedestrian.

Based on the assessment (in conjunction with the recommendation), the proposed development is

not expected to have any adverse impact on the safety or operational efficiency of the road

networks, at the Opening Year (2024) and throughout the 10 years design horizon period (2034)

In conclusion, the findings of this Traffic Impact Assessment are supportive of the proposed development.

12.2

Certification

This traffic impact assessment report has been prepared by Fei Ngoo (RPEQ No 23918), a civil

/traffic engineer with 15+ years' experience in the planning, design and implementation of urban

residential, industrial and commercial land development including preparation of traffic impact

assessments for developments.

Fei Ngoo - Principal Civil Engineer (RPEQ No 23918), Noble Consulting Engineers

APPENDIX A Proposed Development Layout

PROPOSED KITCHEN

PROPOSED NEW CONVENIENCE STORE

CUSTOMER PARKING

CUSTOMER PARKING

CUSTOMER PARKING

BIN YARD

EXISTING WORKSHOP TO RETAIN

CANOPY OVER

CROSSOVER

STAFF PARKING

SECOND STREET

PROPOSED STORAGE

EXISTING FUEL VENTS THROUGH ROOF TO BE UTILIZED

EXTEND CANOPY TO
COVER NEW PUMPS
INSTALL NEW HOOP
BOLLARDS
W/ PRODUCT BOARD
(TYP. 2-NO.)
EXISTING REMOTE FUEL
POINTS TO BE UTILIZED
CROSSOVER

1.5

REMOVE ONE SMALL SHOP AND INSTAL 30000L ABOVEGROUND DIESEL TANK

EXTEND CANOPY TO COVER NEW PUMPS

EXISTING U/G FUEL TANKS TO BE UTILIZED

EXISTING CANOPY TO BE UTILIZED

LANDSCAPE

EIGHTH AVENUE

CR0SS0VER **PROPOSED EXISTING SIGN** TRAFFIC TO BE **BOLLARD** REPLACED WITH DIGITAL PRICE BOARD Date: 25th March, 2024

А3

Scale: 1:150 Drawn: MJM

Job No: 57035/001-01

Plan No:

57035/001 E

braziermotti.com.au This plan is conceptual and for discussion purposes only. All areas, dimensions and land uses are preliminary, subject to investigation, survey, engineering, and Local Authority and Agency approvals.

SURVEYING TOWNPLANNING PROJECTMANAGEMENT MAPPING&GIS

3m

APPENDIX B SIDRA Movement Summary

```
Site: 101 [2024 AM Peak (Background) (Site Folder: General)]
Output produced by SIDRA INTERSECTION Version: 9.1.6.228
Eighth Avenue/Second Street Intersection
Site Category: Existing Design
Give-Way (Two-Way)
Vehicle Movement Performance
Mov
ID
Turn Mov
Class
Demand
Arrival
Flows
Flows
[ Total HV ] [ Total HV ]
veh/h % veh/h %
South: Eighth Avenue (S)
Deg.
Satn
v/c
sec
2
T1 All MCs
329 11.2
0.179
0.0
3
R2 All MCs
Approach
329 11.2
Aver. Level of
Delay Service
95% Back Of
Queue
[ Veh.
Dist ]
veh
m
Prop.
Que
Eff.
Stop
Rate
Aver.
```

MOVEMENT SUMMARY

No. of

Cycles Aver. Speed LOS A 0.0 0.0

0.00

0.00

0.00

59.9

km/h

2 1.0

2 1.0

0.002

6.6

LOS A

0.0

0.1

0.41

0.55

0.41

37.7

331 11.1

331 11.1

0.179

0.1

NA

0.0

0.1

0.00

0.00

0.00

East: Second Street (E) L2 All MCs 2 1.0 2 1.0 0.034 5.7 LOS A 0.1 0.8 0.58 0.73 0.58 34.0 6 R2 All MCs 16 1.0 16 1.0 0.034 10.1 LOS B 0.1 0.8 0.58 0.73 0.58 31.9 18 1.0 18 1.0

0.034

LOS A

```
0.1
0.8
0.58
0.73
0.58
32.1
Approach
North: Eighth Avenue (N)
L2 All MCs
9 1.0
9 1.0
0.184
5.6
LOS A
0.0
0.0
0.00
0.02
0.00
50.9
8
T1 All MCs
329 11.2
329 11.2
0.184
0.0
LOS A
0.0
0.0
0.00
0.02
0.00
```

```
59.3
Approach
339 10.9
339 10.9
0.184
0.2
NA
0.0
0.0
0.00
0.02
0.00
59.0
All Vehicles
688 10.7
688 10.7
0.184
0.4
NA
0.1
0.8
0.02
0.03
0.02
58.0
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified
in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle
movements.
NA (TWSC): Level of Service is not defined for major road approaches or the
intersection as a whole for Two-Way Sign Control
(HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue
at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akcelik M3D).
```

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model

Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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```
MOVEMENT SUMMARY
Site: 101 [2024 AM Peak (Background+Dev) (Site Folder:
General)]
Output produced by SIDRA INTERSECTION Version: 9.1.6.228
Eighth Avenue/Second Street Intersection
Site Category: Existing Design
Give-Way (Two-Way)
Vehicle Movement Performance
Mov
ID
Turn Mov
Class
Demand
Arrival
Flows
Flows
[ Total HV ] [ Total HV ]
veh/h % veh/h %
South: Eighth Avenue (S)
Deg.
Satn
v/c
sec
2
T1 All MCs
329 11.2
0.179
0.0
3
R2 All MCs
34 1.0
34 1.0
0.028
363 10.2
363 10.2
0.179
Approach
329 11.2
Aver. Level of
Delay Service
95% Back Of
Queue
[ Veh.
```

Dist] veh m

Prop. Que

Eff. Stop Rate

Aver. No. of Cycles

Aver. Speed

LOS A

0.0

0.0

0.00

0.00

0.00

59.9

6.8

LOS A

0.1

0.8

0.44

0.62

0.44

37.5

0.6

NA

0.1

0.8

0.04

0.06

0.04

```
km/h
East: Second Street (E)
L2 All MCs
2 1.0
2 1.0
0.037
5.9
LOS A
0.1
0.9
0.61
0.75
0.61
33.2
6
R2 All MCs
16 1.0
16 1.0
0.037
11.0
LOS B
0.1
0.9
0.61
0.75
0.61
31.1
18 1.0
18 1.0
0.037
```

10.5

LOS B

```
0.1
0.9
0.61
0.75
0.61
31.3
Approach
North: Eighth Avenue (N)
L2 All MCs
9 1.0
9 1.0
0.201
5.6
LOS A
0.0
0.0
0.00
0.02
0.00
50.9
8
T1 All MCs
360 11.2
360 11.2
0.201
0.0
LOS A
0.0
0.0
0.00
0.02
0.00
```

```
59.3
Approach
370 10.9
370 10.9
0.201
0.2
NA
0.0
0.0
0.00
0.02
0.00
59.1
All Vehicles
750 10.3
750 10.3
0.201
0.6
NA
0.1
0.9
0.03
0.05
0.03
56.5
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified
in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle
movements.
NA (TWSC): Level of Service is not defined for major road approaches or the
intersection as a whole for Two-Way Sign Control
(HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue
at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akcelik M3D).
```

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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```
MOVEMENT SUMMARY
Site: 101 [2024 PM Peak (Background) (Site Folder: General)]
Output produced by SIDRA INTERSECTION Version: 9.1.6.228
Eighth Avenue/Second Street Intersection
Site Category: Existing Design
Give-Way (Two-Way)
Vehicle Movement Performance
Mov
ID
Turn Mov
Class
Demand
Arrival
Flows
Flows
[ Total HV ] [ Total HV ]
veh/h % veh/h %
South: Eighth Avenue (S)
Deg.
Satn
v/c
sec
2
T1 All MCs
361 11.2
0.196
0.0
3
R2 All MCs
Approach
361 11.2
Aver. Level of
Delay Service
95% Back Of
Queue
[ Veh.
Dist ]
veh
m
Prop.
Que
Eff.
Stop
Rate
Aver.
```

No. of

Cycles Aver. Speed LOS A 0.0 0.0

0.00

0.00

59.9

km/h

4 1.0

4 1.0

0.003

6.8

LOS A

0.0

0.1

0.43

0.57

0.43

37.6

364 11.1

364 11.1

0.196

0.1

NA

0.0

0.1

0.00

0.01

0.00

```
1 1.0
1 1.0
0.025
5.9
LOS A
0.1
0.6
0.61
0.74
0.61
33.2
East: Second Street (E)
L2 All MCs
R2 All MCs
Approach
11 1.0
11 1.0
0.025
11.0
LOS B
0.1
0.6
0.61
0.74
0.61
31.0
12 1.0
12 1.0
0.025
```

```
LOS B
0.1
0.6
0.61
0.74
0.61
31.3
North: Eighth Avenue (N)
L2 All MCs
14 1.0
14 1.0
0.204
5.6
LOS A
0.0
0.0
0.00
0.02
0.00
50.7
8
T1 All MCs
361 11.2
361 11.2
0.204
0.0
LOS A
0.0
0.0
0.00
0.02
```

```
59.1
Approach
375 10.8
375 10.8
0.204
0.2
NA
0.0
0.0
0.00
0.02
0.00
58.7
All Vehicles
751 10.8
751 10.8
0.204
0.3
NA
0.1
0.6
0.01
0.03
0.01
58.2
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified
in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle
movements.
NA (TWSC): Level of Service is not defined for major road approaches or the
intersection as a whole for Two-Way Sign Control
(HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue
at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akcelik M3D).
```

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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```
MOVEMENT SUMMARY
Site: 101 [2024 PM Peak (Background+Dev) (Site Folder:
General)]
Output produced by SIDRA INTERSECTION Version: 9.1.6.228
Eighth Avenue/Second Street Intersection
Site Category: Existing Design
Give-Way (Two-Way)
Vehicle Movement Performance
Mov
ID
Turn Mov
Class
Demand
Arrival
Flows
Flows
[ Total HV ] [ Total HV ]
veh/h % veh/h %
South: Eighth Avenue (S)
Deg.
Satn
v/c
sec
2
T1 All MCs
361 11.2
0.196
0.0
3
R2 All MCs
35 1.0
35 1.0
0.030
396 10.3
396 10.3
0.196
Approach
361 11.2
Aver. Level of
Delay Service
95% Back Of
Queue
[ Veh.
```

Dist] veh m

Prop. Que

Eff. Stop Rate

Aver. No. of Cycles

Aver. Speed

LOS A

0.0

0.0

0.00

0.00

0.00

59.9

7.0

LOS A

0.1

0.9

0.46

0.63

0.46

37.4

0.6 NA

0.1

0.9

0.04

0.06

0.04

```
km/h
East: Second Street (E)
L2 All MCs
1 1.0
1 1.0
0.028
6.0
LOS A
0.1
0.7
0.64
0.77
0.64
32.4
6
R2 All MCs
11 1.0
11 1.0
0.028
12.0
LOS B
0.1
0.7
0.64
0.77
0.64
30.2
12 1.0
12 1.0
```

0.028

11.4

LOS B

```
0.1
0.7
0.64
0.77
0.64
30.4
Approach
North: Eighth Avenue (N)
L2 All MCs
14 1.0
14 1.0
0.221
5.6
LOS A
0.0
0.0
0.00
0.02
0.00
50.7
8
T1 All MCs
392 11.2
392 11.2
0.221
0.0
LOS A
0.0
0.0
0.00
0.02
```

```
59.1
Approach
406 10.8
406 10.8
0.221
0.2
NA
0.0
0.0
0.00
0.02
0.00
58.8
All Vehicles
814 10.4
814 10.4
0.221
0.6
NA
0.1
0.9
0.03
0.05
0.03
56.9
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified
in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle
movements.
NA (TWSC): Level of Service is not defined for major road approaches or the
intersection as a whole for Two-Way Sign Control
(HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue
at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akcelik M3D).
```

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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```
MOVEMENT SUMMARY
Site: 101 [2034 AM Peak (Background) (Site Folder: General)]
Output produced by SIDRA INTERSECTION Version: 9.1.6.228
Eighth Avenue/Second Street Intersection
Site Category: Existing Design
Give-Way (Two-Way)
Vehicle Movement Performance
Mov
ID
Turn Mov
Class
Demand
Arrival
Flows
Flows
[ Total HV ] [ Total HV ]
veh/h % veh/h %
South: Eighth Avenue (S)
Deg.
Satn
v/c
sec
2
T1 All MCs
363 11.2
0.198
0.0
3
R2 All MCs
Approach
363 11.2
Aver. Level of
Delay Service
95% Back Of
Queue
[ Veh.
Dist ]
veh
m
Prop.
Que
Eff.
Stop
Rate
Aver.
```

No. of

Cycles Aver. Speed LOS A 0.0 0.0

0.00

0.00

59.9

km/h

3 1.0

3 1.0

0.002

6.7

LOS A

0.0

0.1

0.43

0.56

0.43

37.6

366 11.1

366 11.1

0.198

0.1

NA

0.0

0.1

0.00

0.00

0.00

```
5.9
LOS A
0.1
1.0
0.61
0.77
0.61
33.1
East: Second Street (E)
L2 All MCs
2 1.0
2 1.0
0.042
R2 All MCs
18 1.0
18 1.0
0.042
11.2
LOS B
0.1
1.0
0.61
0.77
0.61
30.9
20 1.0
20 1.0
0.042
10.6
LOS B
```

```
0.1
1.0
0.61
0.77
0.61
31.2
Approach
North: Eighth Avenue (N)
L2 All MCs
10 1.0
10 1.0
0.203
5.6
LOS A
0.0
0.0
0.00
0.02
0.00
50.8
8
T1 All MCs
363 11.2
363 11.2
0.203
0.0
LOS A
0.0
0.0
0.00
0.02
0.00
```

```
59.3
Approach
374 10.9
374 10.9
0.203
0.2
NA
0.0
0.0
0.00
0.02
0.00
59.0
All Vehicles
760 10.7
760 10.7
0.203
0.4
NA
0.1
1.0
0.02
0.03
0.02
57.9
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified
in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle
movements.
NA (TWSC): Level of Service is not defined for major road approaches or the
intersection as a whole for Two-Way Sign Control
(HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue
at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akcelik M3D).
```

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model

Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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```
MOVEMENT SUMMARY
Site: 101 [2034 AM Peak (Background+Dev) (Site Folder:
General)]
Output produced by SIDRA INTERSECTION Version: 9.1.6.228
Eighth Avenue/Second Street Intersection
Site Category: Existing Design
Give-Way (Two-Way)
Vehicle Movement Performance
Mov
ID
Turn Mov
Class
Demand
Arrival
Flows
Flows
[ Total HV ] [ Total HV ]
veh/h % veh/h %
South: Eighth Avenue (S)
Deg.
Satn
v/c
sec
2
T1 All MCs
363 11.2
0.198
0.0
3
R2 All MCs
37 1.0
37 1.0
0.032
401 10.2
401 10.2
0.198
Approach
363 11.2
Aver. Level of
Delay Service
95% Back Of
Queue
[ Veh.
```

Dist] veh m

Prop. Que

Eff. Stop Rate

Aver. No. of Cycles

Aver. Speed

LOS A

0.0

0.0

0.00

0.00

0.00

59.9

7.0

LOS A

0.1

0.9

0.46

0.64

0.46

37.4

0.7 NA

0.1

0.9

0.04

0.06

0.04

```
km/h
East: Second Street (E)
L2 All MCs
2 1.0
2 1.0
0.047
6.1
LOS A
0.2
1.1
0.65
0.81
0.65
32.1
6
R2 All MCs
18 1.0
18 1.0
0.047
12.3
LOS B
0.2
1.1
0.65
0.81
0.65
30.0
20 1.0
20 1.0
0.047
```

11.6

LOS B

```
0.2
1.1
0.65
0.81
0.65
30.2
Approach
North: Eighth Avenue (N)
L2 All MCs
10 1.0
10 1.0
0.222
5.6
LOS A
0.0
0.0
0.00
0.02
0.00
50.9
8
T1 All MCs
398 11.2
398 11.2
0.222
0.0
LOS A
0.0
0.0
0.00
0.02
0.00
```

```
59.3
Approach
409 10.9
409 10.9
0.222
0.2
NA
0.0
0.0
0.00
0.02
0.00
59.1
All Vehicles
829 10.3
829 10.3
0.222
0.7
NA
0.2
1.1
0.04
0.06
0.04
56.4
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified
in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle
movements.
NA (TWSC): Level of Service is not defined for major road approaches or the
intersection as a whole for Two-Way Sign Control
(HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue
at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akcelik M3D).
```

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity

Constraint effects.

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```
MOVEMENT SUMMARY
Site: 101 [2034 PM Peak (Background) (Site Folder: General)]
Output produced by SIDRA INTERSECTION Version: 9.1.6.228
Eighth Avenue/Second Street Intersection
Site Category: Existing Design
Give-Way (Two-Way)
Vehicle Movement Performance
Mov
ID
Turn Mov
Class
Demand
Arrival
Flows
Flows
[ Total HV ] [ Total HV ]
veh/h % veh/h %
South: Eighth Avenue (S)
Deg.
Satn
v/c
sec
2
T1 All MCs
399 11.2
0.217
0.0
3
R2 All MCs
Approach
399 11.2
Aver. Level of
Delay Service
95% Back Of
Queue
[ Veh.
Dist ]
veh
m
Prop.
Que
Eff.
Stop
Rate
Aver.
```

No. of

Cycles Aver. Speed LOS A 0.0 0.0

0.00

0.00

0.00

59.9

km/h

4 1.0

4 1.0

0.003

6.9

LOS A

0.0

0.1

0.46

0.58

0.46

37.5

402 11.1

402 11.1

0.217

0.1

NA

0.0

0.1

0.00

0.01

0.00

East: Second Street (E) L2 All MCs 1 1.0 1 1.0 0.031 6.0 LOS A 0.1 0.8 0.65 0.79 0.65 32.1 R2 All MCs 12 1.0 12 1.0 0.031 12.3 LOS B 0.1 0.8 0.65 0.79 0.65 29.9 13 1.0 13 1.0

0.031

11.7

LOS B

```
0.1
0.8
0.65
0.79
0.65
30.1
Approach
North: Eighth Avenue (N)
L2 All MCs
16 1.0
16 1.0
0.225
5.6
LOS A
0.0
0.0
0.00
0.02
0.00
50.7
8
T1 All MCs
399 11.2
399 11.2
0.225
0.0
LOS A
0.0
0.0
0.00
0.02
0.00
```

```
59.0
Approach
414 10.8
414 10.8
0.225
0.2
NA
0.0
0.0
0.00
0.02
0.00
58.7
All Vehicles
829 10.8
829 10.8
0.225
0.3
NA
0.1
0.8
0.01
0.03
0.01
58.2
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified
in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle
movements.
NA (TWSC): Level of Service is not defined for major road approaches or the
intersection as a whole for Two-Way Sign Control
(HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue
at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akcelik M3D).
```

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model

Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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```
MOVEMENT SUMMARY
Site: 101 [2034 PM Peak (Background+Dev) (Site Folder:
General)]
Output produced by SIDRA INTERSECTION Version: 9.1.6.228
Eighth Avenue/Second Street Intersection
Site Category: Existing Design
Give-Way (Two-Way)
Vehicle Movement Performance
Mov
ID
Turn Mov
Class
Demand
Arrival
Flows
Flows
[ Total HV ] [ Total HV ]
veh/h % veh/h %
South: Eighth Avenue (S)
Deg.
Satn
v/c
sec
2
T1 All MCs
399 11.2
0.217
0.0
3
R2 All MCs
39 1.0
39 1.0
0.035
437 10.3
437 10.3
0.217
Approach
399 11.2
Aver. Level of
Delay Service
95% Back Of
Queue
[ Veh.
```

Dist] veh m

Prop. Que

Eff. Stop Rate

Aver. No. of Cycles

Aver. Speed

LOS A

0.0

0.0

0.00

0.00

0.00

59.9

7.2

LOS A

0.1

1.0

0.48

0.66

0.48

37.3

0.7

NA

0.1

1.0

0.04

0.06

0.04

```
km/h
East: Second Street (E)
L2 All MCs
1 1.0
1 1.0
0.035
6.2
LOS A
0.1
0.8
0.69
0.82
0.69
31.0
6
R2 All MCs
12 1.0
12 1.0
0.035
13.6
LOS B
0.1
0.8
0.69
0.82
0.69
28.9
13 1.0
13 1.0
0.035
```

12.9

LOS B

```
0.1
0.8
0.69
0.82
0.69
29.1
Approach
North: Eighth Avenue (N)
L2 All MCs
16 1.0
16 1.0
0.244
5.6
LOS A
0.0
0.0
0.00
0.02
0.00
50.7
8
T1 All MCs
433 11.2
433 11.2
0.244
0.0
LOS A
0.0
0.0
0.00
0.02
```

```
59.1
Approach
449 10.8
449 10.8
0.244
0.2
NA
0.0
0.0
0.00
0.02
0.00
58.8
All Vehicles
899 10.4
899 10.4
0.244
0.6
NA
0.1
1.0
0.03
0.05
0.03
56.8
Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified
in the Parameter Settings dialog (Options tab).
Vehicle movement LOS values are based on average delay per movement.
Minor Road Approach LOS values are based on average delay for all vehicle
movements.
NA (TWSC): Level of Service is not defined for major road approaches or the
intersection as a whole for Two-Way Sign Control
(HCM LOS rule).
Two-Way Sign Control Capacity Model: SIDRA Standard.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue
at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akcelik M3D).
```

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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APPENDIX E Preliminary Investigation (Flood Impact) Technical Memorandum prepared by Noble Consulting Engineers Technical Memorandum Pages

Tο

Freeways Australia

CC

Brazier Motti

Subject

7-9 Eighth Avenue, Home Hill – Proposed Service Station – Flooding Impact Preliminary Investigation

From

Noble Consulting Engineers

Project No/Ref No.

240116-01/TM-FN0155

1.0

Date

14

30/04/2024

BACKGROUND

Noble Consulting Engineers has been commissioned by Freeways Australia to conduct a

preliminary investigation of the flooding impact associated with the proposed service station

development at 7 - 9 Eighth Avenue, Home Hill.

The purpose of this preliminary investigation is to inform whether a full Flooding Impact

Assessment (FIA) is required to further assess the worsening effect of stormwater, flooding

or drainage impacts caused by the proposed development to the surrounding area.

This technical memo is prepared in response to the SARA Pre-lodgement advice, stipulated $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

below:

"Stormwater, drainage and flooding:

The subject site is currently developed, and the proposed development will result in an

intensification of the site. As part of a future development application, the Applicant will be

required to provide a Stormwater Management Plan, including a Flood Impact Assessment

and drainage concept plan prepared by a suitably qualified Registered Professional Engineer

of Queensland (RPEQ) that demonstrates that any onsite changes required to facilitate the

development will not result in an actionable nuisance or worsening of stormwater, flooding,

or drainage impacts in an existing or future state-controlled road."

Please note that stormwater quality assessment does not form part of this preliminary investigation.

April 30, 2024

EXISTING CONDITIONS

2.1

Subject Site

The subject site is described as Lot $8/\mathrm{H}61653$ and is located within the Home Hill Township,

in the Burdekin Shire Region, as shown in Figure 2.1.

To Ayr

Subject Site

To Inkerman

Figure 2.1: Subject Site (Source: QLD Globe)

The subject lot size is approximately 1,196m2 and bounded as follows:

to the north by Second Street;

•

to the east and south by residential; and

•

to the west by Eighth Avenue (Bruce Highway).

In accordance with Burdekin Shire Council (BSC) Planning Scheme Flood Hazard Overlay

Mapping (i.e. OM7.7(a) Home Hill), the subject site is located within the "Medium Hazard" zone, as shown in Figure 2.2.

April 30, 2024

Subject Site

Figure 2.2: Flood Hazard Overlay (Source: Burdekin Shire Council)

2.2

Existing Features and Site Terrain

The subject site consists of a mechanic workshop and the outdoor area is fully paved (i.e.

concrete surface) except the minor area to the northeast and southeast corner of the subject

site is covered by grassed/graveled surface.

The existing site features are shown in Figure 2.3.

April 30, 2024

```
Grassed Area
Subject Site Boundary
Existing Mechanic
Workshop
Concrete Area
Grassed/Graveled Area
Figure 2.3: Site Features (Source: QLD Globe)
The various surface extents and approximate areas is shown in Figure 2.4 and
summarised
below:
Mechanic workshop roof area: 601m2
Concrete paved surface: 432m2
Grassed surface (northeast corner): 61m2
Grassed/graveled surface (southeast corner): 102m2
The overall pervious and impervious areas of the subject site were 1,033m2 (i.e.
601m2 +
432m2) and 163m2 (i.e. 61m2 + 102m2), respectively.
April 30, 2024
4
```

Grassed Area ≈ 61m2

Mechanic Workshop Roof Area ≈ 601m2

Concrete Area ≈432m2

Grassed/Graveled Area ≈ 102m2

Figure 2.4: Various Surface Extents within Subject Site

The existing site and surrounding areas digital elevation LIDAR data were sourced from $\,$

ELVIS (Elevation Information System), using data from Queensland Government. The subject site and surrounding areas elevation contours are illustrated in Figure 2.5.

April 30, 2024

Land Fall

Localised low spots

Subject Site Boundary

Figure 2.5: LIDAR Contours (Source: ELVIS)

According to the LIDAR contours, the subject site slope is generally less than 1.3% with

existing ground levels ranging from 10.35m AHD to 10.60m AHD. The subject site generally

falls from east to west towards Eighth Avenue.

2.3

Existing Stormwater Regime

The existing stormwater structures in vicinity of the subject site were sourced from Before

You Dig Australia (BYDA). In accordance with the BSC data, there is an underground

pits/pipe system located along the northern and western side of the subject site as shown in Figure 2.6.

April 30, 2024

Subject Site

Figure 2.6: BSC Stormwater Drainage System (Source: BYDA)

As shown in Figure 2.5, most of the site catchment flows from northeast/east towards west

via overland sheet flow towards Eighth Avenue. The site stormwater runoff is then intercepted

by the existing kerb and channel fronting the subject site prior discharging into the

underground pits/pipes system at Eighth Avenue.

The existing site stormwater regime is illustrated in Figure 2.7.

April 30, 2024

Overland Flow Culvert Headwall

Kerb Flow

Stormwater Manhole

Underground Drainage Pipe

Kerb Inlet Pit

Figure 2.7: Subject Site Stormwater Regime

April 30, 2024

3.0

PROPOSED DEVELOPMENT

The proposed development comprises of the following components:

•

Retention of the existing building structures for storage and workshop;

•

Removal small section of the existing building to accommodate new 30,000L above ground diesel tank;

•

Convert part of the existing building to convenience store including kitchen facilities;

•

Provision of six (6) fuel-filling positions;

•

Raise and extends existing canopy to cover the six (6) fuel-filling positions and to accommodate fuel tanker truck height; and

•

Provision of seven (7) on-site parking spaces.

The overall development layout is illustrated in Figure 3.1 and attached in Attachment 1.

Figure 3.1: Proposed Development Layout (Source: Brazier Motti)

It is understood that the proposed service station will utilise all existing site features to service

the development and subsequently there will be minimal site modification or changes to the

existing site levels. The only site modification is to provide additional concrete area to the

southern side of the subject site to cater for the on-site parking bays as shown in Figure 3.2.

April 30, 2024

Additional concrete surface area to accommodate parking bays (≈12.5m2)

Figure 3.2: Additional Concrete Surface Areas

At post development, the service station stormwater regime will maintain at predevelopment level with no new stormwater measures proposed.

April 30, 2024

SITE IMPERVIOUS AREA ASSESSMENT

As indicated in Section 2.2, at pre-development, the overall pervious and impervious areas

of the existing site were 1,033m2 and 163m2, respectively.

At post development, with the incorporation of the additional concrete area (i.e. 12.5m2) to

cater for the parking bay area, the subject site impervious area increased from 1,033m2 to

1045.5m2.

The overall increase of the impervious area at the subject site is approximately 1.2% (i.e.

12.5m2 / 1,033m2) which is considered minimal.

5.0

ASSESSMENT FINDINGS/RECOMMENDATION

Based on the preliminary assessment, the development impact to the surrounding area

stormwater, flooding or drainage is deemed minimal considering:

•

The proposed development utilises all the existing site features with no significant site modification or changes to the existing site levels;

•

At post-development, the increase of the overall site impervious area is considered insignificant (i.e. 1.2%); and

•

The pre and post development stormwater regime remain the same.

Considering the above, it is anticipated that a full Flood Impact Assessment is deemed not

required. However, any significant changes to the development layout or site levels may

require a Flood Impact Assessment to assess the flood level afflux in the surrounding area.

April 30, 2024

CERTIFICATION STATEMENT AND AUTHORISATION

This technical memorandum has been prepared by Fei Ngoo (RPEQ No 23918), a Principal $\,$

Civil Engineer with 15+ years' experience in local government, urban/rural infrastructures

and stormwater assessment.

Fei Ngoo - Principal Civil Engineer (RPEQ No 23918)

April 30, 2024

Attachment 1 Proposed Development Layout

April 30, 2024

PROPOSED KITCHEN

PROPOSED NEW CONVENIENCE STORE

CUSTOMER PARKING

CUSTOMER PARKING

CUSTOMER PARKING

BIN YARD

EXISTING WORKSHOP TO RETAIN

CANOPY OVER

CROSSOVER

STAFF PARKING

SECOND STREET

PROPOSED STORAGE

EXISTING FUEL VENTS THROUGH ROOF TO BE UTILIZED

EXTEND CANOPY TO
COVER NEW PUMPS
INSTALL NEW HOOP
BOLLARDS
W/ PRODUCT BOARD
(TYP. 2-NO.)
EXISTING REMOTE FUEL
POINTS TO BE UTILIZED
CROSSOVER

1.5

REMOVE ONE SMALL SHOP AND INSTAL 30000L ABOVEGROUND DIESEL TANK

EXTEND CANOPY TO COVER NEW PUMPS

EXISTING U/G FUEL TANKS TO BE UTILIZED

EXISTING CANOPY TO BE UTILIZED

LANDSCAPE

EIGHTH AVENUE

CR0SS0VER **PROPOSED EXISTING SIGN** TRAFFIC TO BE **BOLLARD** REPLACED WITH DIGITAL PRICE BOARD Date: 25th March, 2024

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Scale: 1:150 Drawn: MJM

Job No: 57035/001-01

Plan No:

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braziermotti.com.au This plan is conceptual and for discussion purposes only. All areas, dimensions and land uses are preliminary, subject to investigation, survey, engineering, and Local Authority and Agency approvals.

SURVEYING TOWNPLANNING PROJECTMANAGEMENT MAPPING&GIS

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APPENDIX F SARA Mapping

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Matters of Interest for all selected Lot Plans

Water resource planning area boundaries State-controlled road Area within 25m of a State-controlled road

Matters of Interest by Lot Plan Lot Plan: 8H61653 (Area: 1196 m 2) Water resource planning area boundaries State-controlled road Area within 25m of a State-controlled road

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APPENDIX G

Response to State Code 1: Development in a State Controlled Road Environment

State code 1: Development in a state-controlled road environment

Table 1.1 Development in general Performance outcomes

Acceptable outcomes

Buildings, structures, infrastructure, services and utilities PO1 The location of the development does not create a AO1.1 Development is not located in a state-controlled safety hazard for users of the state-controlled road. road.

Response

Complies with A01.1

The development is not located in a state-controlled road.

AND

AND

A01.2 Development can be maintained without requiring access to a state-controlled road.

PO2 The design and construction of the development does not adversely impact the structural integrity or physical condition of the state-controlled road or road transport infrastructure.

No acceptable outcome is prescribed.

PO3 The location of the development does not obstruct road transport infrastructure or adversely impact the operating performance of the statecontrolled road.

No acceptable outcome is prescribed.

PO4 The location, placement, design and operation of advertising devices, visible from the state-controlled road, do not create a safety hazard for users of the state-controlled road.

No acceptable outcome is prescribed.

P05 The design and construction of buildings and structures does not create a safety hazard by distracting users of the state-controlled road.

A05.1 Facades of buildings and structures fronting the state-controlled road are made of non-reflective materials.

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Complies with A01.2 No additional access to a state-controlled road is required as part of this development. Complies

The development has been designed within the extent of the existing building. The existing canopy will be extended to cover the new pumps however it is not anticipated this work will adversely impact the structural integrity of the road. Complies

A traffic impact assessment has been prepared by Noble Consulting Engineers which confirms the proposed development is not expected to have any adverse impact on the safety or operational efficiency of the road networks. The report is included in Appendix D.

Complies

The existing sign in the south east corner of the site is to be replaced with a digital price board, servicing the development only. The sign will operate in accordance Transport and main Roads Practitioner Manual Roadside Advertising Manual Edition 4 Assessment Volume (December 2023).

Complies

No reflective materials are to be used on the existing building or proposed extension to the canopy. This will Page 1 of 17

Acceptable outcomes

Response

AND

ensure no reflection of light is directed into oncoming traffic.

A05.2 Facades of buildings and structures do not direct or reflect point light sources into the face of oncoming traffic on the state-controlled road.

Standard conditions to safeguard these aspects are expected.

AND

A05.3 External lighting of buildings and structures is not directed into the face of oncoming traffic on the state-controlled road.

AND

P06 Road, pedestrian and bikeway bridges over a state-controlled road are designed and constructed to prevent projectiles from being thrown onto the statecontrolled road. Landscaping
P07 The location of landscaping does not create a

P07 The location of landscaping does not create a safety hazard for users of the state-controlled road.

A05.4 External lighting of buildings and structures does not involve flashing or laser lights.

A06.1 Road, pedestrian and bikeway bridges over the state-controlled road include throw protection screens in accordance with section 4.11 of the Design Criteria for Bridges and Other Structures Manual, Department of Transport and Main Roads, 2020.

A07.1 Landscaping is not located in a state-controlled

road.

A07.2 Landscaping can be maintained without requiring access to a state-controlled road.

A07.3 Landscaping does not block or obscure the sight lines for vehicular access to a state-controlled road.

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Not applicable

No roads or pedestrian and bikeway bridges are proposed as part of this development.

Alternate solution

The existing landscaping located within the statecontrolled road corridor, fronting the development site will be retained as it does not adversely impact the operating performance of the road.

A traffic impact assessment has been prepared by Noble Consulting Engineers which confirms the proposed development is not expected to have any adverse impact on the safety or operational efficiency of the road networks. The report is included in

Appendix D.

Page 2 of 17

Acceptable outcomes

Response

The landscaping is to be regularly maintained to ensure it does not obstruct sight lines for users of the road. Particularly, the existing raised garden bed vegetation must maintain a maximum of 600mm height from the ground level to improve the exiting vehicle sight line to the pedestrian traversing along Eighth Avenue road shoulder.

Stormwater and overland flow PO8 Stormwater run-off or overland flow from the development site does not create or exacerbate a safety hazard for users of the state-controlled road.

P09 Stormwater run-off or overland flow from the development site does not result in a material worsening of the operating performance of the statecontrolled road or road transport infrastructure.
P010 Stormwater run-off or overland flow from the

P010 Stormwater run-off or overland flow from the development site does not adversely impact the structural integrity or physical condition of the statecontrolled road or road transport infrastructure.

PO11 Development ensures that stormwater is lawfully discharged.

No acceptable outcome is prescribed.

No acceptable outcome is prescribed.

Complies

Stormwater run-off from the development site has been assessed by Noble Consulting Engineers which found that it is not anticipated that the development will create any hazards for users of the state-controlled road, given:

- The proposed development utilises all the existing site features with no significant site modification or changes to the existing site levels;
- At post-development, the increase of the overall site impervious area is considered insignificant (i.e. 1.2%); and
- The pre and post development stormwater regime remain the same.

Refer to the technical memorandum in Appendix E. Complies As above.

No acceptable outcome is prescribed.

Complies As above.

A011.1 Development does not create any new points of discharge to a state-controlled road.

Complies with A011.1 No additional discharge points to the state-controlled road are required to facilitate the development.

AND

AND State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Page 3 of 17

Acceptable outcomes

A011.2 Development does not concentrate flows to a state-controlled road.

AND

A011.3 Stormwater run-off is discharged to a lawful point of discharge.

AND

A011.4 Development does not worsen the condition of an existing lawful point of discharge to the statecontrolled road.

Flooding

PO12 Development does not result in a material worsening of flooding impacts within a state-controlled road.

A012.1 For all flood events up to 1% annual exceedance probability, development results in negligible impacts (within +/- 10mm) to existing flood levels within a state-controlled road.

AND

A012.2 For all flood events up to 1% annual exceedance probability, development results in negligible impacts (up to a 10% increase) to existing peak velocities within a state-controlled road.

Response

Complies with A011.2

No major change to the impermeable nature of the site is required to facilitate the development. $\ensuremath{\mathsf{AND}}$

Complies with A011.3

Stormwater will continue to be discharged to the existing lawful point of discharge. The proposal is not anticipated to worsen the condition of the existing points of discharge as demonstrated in the preliminary flood impact Investigation was undertaken by Noble Consulting Engineers included in Appendix E. Complies with A012.1

A preliminary flood impact Investigation was undertaken by Noble Consulting Engineers. It found that the pre and post development stormwater regime remain the same therefore the development will not result in material worsening of flood impacts. The investigation found that a full Flood Impact Assessment is deemed not required. However, any significant changes to the development layout or site levels may require a Flood Impact Assessment to assess the flood level afflux in the surrounding area. Refer Appendix E.

AND

A012.3 For all flood events up to 1% annual exceedance probability, development results in negligible impacts (up to a 10% increase) to existing time of submergence of a state-controlled road. Drainage Infrastructure

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Acceptable outcomes

P013 Drainage infrastructure does not create a safety hazard for users in the state-controlled road.

A013.1 Drainage infrastructure is wholly contained within the development site, except at the lawful point of discharge.

Response

AND

P014 Drainage infrastructure associated with, or within, a state-controlled road is constructed, and designed to ensure the structural integrity and physical condition of existing drainage infrastructure and the surrounding drainage network.

A013.2 Drainage infrastructure can be maintained without requiring access to a state-controlled road. No acceptable outcome is prescribed.

Complies

No changes to the existing drainage infrastructure is proposed to facilitate the development.

Table 1.2 Vehicular access, road layout and local roads Performance outcomes Acceptable outcomes

Response

Vehicular access to a state-controlled road or within 100 metres of a state-controlled road intersection
P015 The location, design and operation of a new or
No acceptable outcome is prescribed.
changed access to a state-controlled road does not
compromise the safety of users of the state-controlled
road.

Complies

A traffic impact assessment has been prepared by
Noble Consulting Engineers which confirms the
vehicular access arrangements to and from the site.
It is proposed to retain the existing three (3) site access
points to service the proposed development. Both
Access Driveway 1 and 2 will be designated as Ingressonly access driveways where
the Access Driveway 3 will
be designated as Egress-only access driveway, to
provide one-way traffic flow through the proposed
service station.
No new access location or change to the existing
access location to the state-controlled road is
proposed.
The report is included in Appendix D.

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Page 5 of 17

Acceptable outcomes

Response

P016 The location, design and operation of a new or changed access does not adversely impact the functional requirements of the state-controlled road. P017 The location, design and operation of a new or changed access is consistent with the future intent of the state-controlled road.

PO18 New or changed access is consistent with the access for the relevant limited access road policy:

- LAR 1 where direct access is prohibited; or
- 2. LAR 2 where access may be permitted, subject to assessment.

P019 New or changed access to a local road within 100 metres of an intersection with a state-controlled road does not compromise the safety of users of the statecontrolled road.

No acceptable outcome is prescribed.

Not applicable

No new or changed accesses to a state-controlled road are proposed as part of this development.

Not applicable

No new or changed accesses to a state-controlled road are proposed as part of this development.

Not applicable

The site is not located on a limited access road.

public passenger services and active transport

P020 New or changed access to a local road within 100 metres of an intersection with a state-controlled road does not adversely impact on the operating performance of the intersection.

Public passenger transport and active transport P021 Development does not compromise the safety of users of public passenger transport infrastructure,

infrastructure.
PO22 Development maintains the ability for people to access public passenger transport infrastructure, public passenger services and active transport infrastructure.

No acceptable outcome is prescribed.

PO23 Development does not adversely impact the operating performance of public passenger transport

No acceptable outcome is prescribed.

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Complies

Details on the proposed changes to the access arrangement off Second Street (within 100m of the intersection) are provided in the traffic impact assessment prepared by Noble Consulting Engineers in Appendix D. The current access does not comply therefore it is proposed to reduce the existing Access Driveway 1 width to 5.1m (approximately) to maintain the minimum 6m clearance from the Eighth Avenue/Second Street intersection give way line. Complies

The changes to Access Driveway 1 are proposed to improve safety and operating performance of the intersection. Refer Appendix D.

Not applicable

No public passenger transport infrastructure, public passenger services or active transport infrastructure is located within the vicinity of the site.

Not applicable

No public passenger transport infrastructure, public passenger services or active transport infrastructure is located within the vicinity of the site.

Not applicable

Page 6 of 17

Acceptable outcomes

Response

No acceptable outcome is prescribed.

No public passenger transport infrastructure, public passenger services or active transport infrastructure is located within the vicinity of the site.

Not applicable

No public passenger transport infrastructure, public passenger services or active transport infrastructure is located within the vicinity of the site.

infrastructure, public passenger services and active transport infrastructure.
P024 Development does not adversely impact the structural integrity or physical condition of public passenger transport infrastructure and active transport infrastructure.

Table 1.3 Network impacts Performance outcomes

Acceptable outcomes

Response

PO25 Development does not compromise the safety of users of the state-controlled road network.

No acceptable outcome is prescribed.

PO26 Development ensures no net worsening of the operating performance of the state-controlled road network.

No acceptable outcome is prescribed.

PO27 Traffic movements are not directed onto a statecontrolled road where they can be accommodated on the local road network.

No acceptable outcome is prescribed.

P028 Development involving haulage exceeding 10,000 tonnes per year does not adversely impact the pavement of a state-controlled road.
P029 Development does not impede delivery of planned upgrades of state-controlled roads.

No acceptable outcome is prescribed.

Complies

A traffic impact assessment has been prepared by Noble Consulting Engineers which confirms the proposed development is not expected to have any adverse impact on the safety or operational efficiency of the road networks, at the Opening Year (2024) and throughout the 10 years design horizon period (2034). The report is included in Appendix D. Complies

A traffic impact assessment has been prepared by Noble Consulting Engineers which confirms the proposed development is not expected to have any adverse impact on the safety or operational efficiency of the road networks, at the Opening Year (2024) and throughout the 10 years design horizon period (2034). The report is included in Appendix D. Complies

A traffic impact assessment has been prepared by Noble Consulting Engineers which demonstrates traffic movements. The report is included in Appendix D. Not applicable

No acceptable outcome is prescribed.

Complies

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Page 7 of 17

Acceptable outcomes

Response

PO30 Development does not impede delivery of corridor improvements located entirely within the state-controlled road corridor.

No acceptable outcome is prescribed.

Complies

Table 1.4 Filling, excavation, building foundations and retaining structures Performance outcomes
Acceptable outcomes
P031 Development does not create a safety hazard for users of the state-controlled road or road transport infrastructure.

No acceptable outcome is prescribed.

PO32 Development does not adversely impact the operating performance of the state-controlled road.

No acceptable outcome is prescribed.

PO33 Development does not undermine, damage or cause subsidence of a state-controlled road.

No acceptable outcome is prescribed.

PO34 Development does not cause ground water disturbance in a state-controlled road.

No acceptable outcome is prescribed.

PO35 Excavation, boring, piling, blasting and fill compaction do not adversely impact the physical condition or structural integrity of a state-controlled road or road transport infrastructure.

No acceptable outcome is prescribed.

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Response Complies

No filling, excavation, building foundations or retaining structures required to facilitate the development that would otherwise cause impact on the operating performance of the state-controlled road and intersection.

Complies

No filling, excavation, building foundations or retaining structures required to facilitate the development that would otherwise cause impact on the operating performance of the state-controlled road and intersection.

Complies

No filling, excavation, building foundations or retaining structures required to facilitate the development that

would otherwise cause impact on the operating performance of the state-controlled road and intersection.

Complies

No filling, excavation, building foundations or retaining structures required to facilitate the development that would otherwise cause impact on the operating performance of the state-controlled road and intersection.

Complies

No filling, excavation, building foundations or retaining structures required to facilitate the development that would otherwise cause impact on the operating performance of the state-controlled road and intersection.

Page 8 of 17

Acceptable outcomes

Response

P036 Filling and excavation associated with the construction of new or changed access do not compromise the operation or capacity of existing drainage infrastructure for a state-controlled road.

No acceptable outcome is prescribed.

Complies

The changes to Access Driveway 1 are detailed in the Traffic Impact Assessment prepared by Noble Consulting Engineers. It requires the existing bitumen sealed surface to be removed and topsoiled and grassed. Those works will not compromise the existing drainage infrastructure associated with the state controlled road.

Table 1.5 Environmental emissions Statutory note: Where a state-controlled road is co-located in the same transport corridor as a railway, the development should instead comply with Environmental emissions in State code 2: Development in a railway environment.

Performance outcomes

Acceptable outcomes

Response

Reconfiguring a lot Involving the creation of 5 or fewer new residential lots adjacent to a statecontrolled road or type 1 multi-modal corridor PO37 Development minimises free field noise intrusion AO37.1 Development provides a noise barrier or earth Not applicable from a state-controlled road. mound which is designed, sited and constructed: The development is for Material Change of Use. 1. to achieve the maximum free field acoustic levels in reference table 2 (item 2.1); 2. in accordance with: a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. A037.2 Development achieves the maximum free field acoustic levels in reference table 2 (item 2.1) by alternative noise attenuation measures where it State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Acceptable outcomes

Response

is not practical to provide a noise barrier or earth mound. ΩR A037.3 Development provides a solid gap-free fence or other solid gap-free structure along the full extent of the boundary closest to the state-controlled road. Involving the creation of 6 or more new residential lots adjacent to a statecontrolled road or type 1 multi-modal corridor PO38 Reconfiguring a lot minimises free field noise A038.1 Development provides noise barrier or earth Not applicable intrusion from a state-controlled road. mound which is designed, sited and constructed: The development is for Material Change of Use. 1. to achieve the maximum free field acoustic levels in reference table 2 (item 2.1); 2. in accordance with: a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. A038.2 Development achieves the maximum free field acoustic levels in reference table 2 (item 2.1) by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound. Material change of use (accommodation activity) Ground floor level requirements adjacent to a state-controlled road or type 1 multi-modal corridor PO39 Development minimises noise intrusion from A039.1 Development provides a noise barrier or earth a state-controlled road in private open space. mound which is designed, sited and constructed: State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment Not applicable The development is for a commercial use (service

Page 10 of 17

station).

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Performance outcomes
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Acceptable outcomes 1.

2.

Response

to achieve the maximum free field acoustic levels in reference table 2 (item 2.2) for private open space at the ground floor level; in accordance with: a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020.

0R

A039.2 Development achieves the maximum free field acoustic level in reference table 2 (item 2.2) for private open space by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound. PO40 Development (excluding a relevant residential A040.1 Development (excluding a relevant residential building or relocated building) minimises noise intrusion building or relocated building) provides a noise barrier from a state-controlled road in habitable rooms at the or earth mound which is designed, sited and facade. constructed:

- 1. to achieve the maximum building façade acoustic level in reference table 1 (item 1.1) for habitable rooms;
- 2. in accordance with:
- a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013;
- b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Not applicable The development is for a commercial use (service station).

Page 11 of 17

Performance outcomes Acceptable outcomes С. Response Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. OR PO41 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in reference table 3 (item 3.1). A040.2 Development (excluding a relevant residential building or relocated building) achieves the maximum building façade acoustic level in reference table 1 (item 1.1) for habitable rooms by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound. No acceptable outcome is provided. Not applicable The development is for a commercial use (service station). Above ground floor level requirements (accommodation activity) adjacent to a state-controlled road or type 1 multi-modal corridor PO42 Balconies, podiums, and roof decks include: No acceptable outcome is provided. Not applicable 1. a continuous solid gap-free structure or balustrade The development is for a commercial use (service (excluding gaps required for drainage purposes to station). comply with the Building Code of Australia); 2. highly acoustically absorbent material treatment for the total area of the soffit above balconies, podiums, and roof decks. PO43 Habitable rooms (excluding a relevant residential No acceptable outcome is provided. Not applicable building or relocated building) are designed and The development is for a commercial use (service constructed using materials to achieve the maximum station). internal acoustic level in reference table 3 (item 3.1). Material change of use (other uses) Ground floor level requirements (childcare centre, educational establishment, hospital) adjacent to a state-controlled road or type 1 multi-modal corridor PO44 Development: No acceptable outcome is provided. Not applicable 1. provides a noise barrier or earth mound that is The development is for a commercial use (service designed, sited and constructed: station). a. to achieve the maximum free field acoustic

level in reference table 2 (item 2.3) for all State Development Assessment Provisions v3.0

State code 1: Development in a state-controlled road environment

Acceptable outcomes

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outdoor education areas and outdoor play
areas;
b.in accordance with:
i. Chapter 7 integrated noise barrier
design of the Transport Noise
Management Code of Practice:
Volume 1 (Road Traffic Noise),
Department of Transport and Main
Roads, 2013;
ii. Technical Specification-MRTS15 Noise
Fences, Transport and Main Roads,
2019;
iii. Technical Specification-MRTS04
General Earthworks, Transport and
Main Roads, 2020; or
2. achieves the maximum free field acoustic level in
reference table 2 (item 2.3) for all outdoor
education areas and outdoor play areas by
alternative noise attenuation measures where it
is not practical to provide a noise barrier or earth
PO45 Development involving a childcare centre
or educational establishment:
1. provides a noise barrier or earth mound that is
designed, sited and constructed:
2. to achieve the maximum building facade
acoustic level in reference table 1 (item 1.2);
3. in accordance with:
a. Chapter 7 integrated noise barrier design of
the Transport Noise Management Code of
Practice: Volume 1 (Road Traffic Noise),
Department of Transport and Main Roads,
2013;
b. Technical Specification-MRTS15 Noise
Fences, Transport and Main Roads, 2019;
State Development Assessment Provisions v3.0
State code 1: Development in a state-controlled road environment
No acceptable outcome is provided.
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Response

Not applicable The development is for a commercial use (service station).

Page 13 of 17

Acceptable outcomes

Response

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c. Technical Specification-MRTS04 General
Earthworks, Transport and Main Roads, 2020;
4. achieves the maximum building facade acoustic
level in reference table 1 (item 1.2) by
alternative noise attenuation measures where it
is not practical to provide a noise barrier or earth
mound.
PO46 Development involving:
No acceptable outcome is provided.
Not applicable
1. indoor education areas and indoor play areas; or
The development is for reconfiguring a lot.
2. sleeping rooms in a childcare centre; or
3. patient care areas in a hospital achieves the
maximum internal acoustic level in reference table
3 (items 3.2-3.4).
Above ground floor level requirements (childcare centre, educational
establishment, hospital) adjacent to a state-controlled road or type 1 multi-
modal corridor
PO47 Development involving a childcare centre or
No acceptable outcome is provided.
Not applicable
educational establishment which have balconies,
The development is for a commercial use (service
podiums or elevated outdoor play areas predicted to
station).
exceed the maximum free field acoustic level in
reference table 2 (item 2.3) due to noise from a statecontrolled road are
provided with:
1. a continuous solid gap-free structure or balustrade
(excluding gaps required for drainage purposes to
comply with the Building Code of Australia);
2. highly acoustically absorbent material treatment
for the total area of the soffit above balconies or
elevated outdoor play areas.
PO48 Development including:
No acceptable outcome is provided.
Not applicable
1. indoor education areas and indoor play areas in a
The development is for a commercial use (service
childcare centre or educational establishment; or
station).
2. sleeping rooms in a childcare centre; or
3. patient care areas in a hospital located above
ground level, is designed and constructed to
achieve the maximum internal acoustic level in
reference table 3 (items 3.2-3.4).
Air, light and vibration
State Development Assessment Provisions v3.0
State code 1: Development in a state-controlled road environment
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Acceptable outcomes

PO49 Private open space, outdoor education areas and outdoor play areas are protected from air quality impacts from a state-controlled road.

A049.1 Each dwelling or unit has access to a private open space which is shielded from a state-controlled road by a building, solid gap-free fence, or other solid gap-free structure.

Response

Not applicable

The development is for a commercial use (service station).

ΩR

A049.2 Each outdoor education area and outdoor play area is shielded from a state-controlled road by a building, solid gap-free fence, or other solid gap-free

A050.1 Hospitals are designed and constructed to ensure vibration in the patient treatment area does not exceed a vibration dose value of 0.1m/s1.75.

P050 Patient care areas within hospitals are protected from vibration impacts from a state-controlled road or type 1 multi-modal corridor.

Not applicable

The development is for a commercial use (service station).

AND

A050.2 Hospitals are designed and constructed to

ensure vibration in the ward of a patient care area does

not exceed a vibration dose value of 0.4m/s1.75.

PO51 Development is designed and sited to ensure light No acceptable outcomes are prescribed.

from infrastructure within, and from users of, a statecontrolled road or type 1 multi-modal corridor, does

- 1. intrude into buildings during night hours (10pm to 6am);
- 2. create unreasonable disturbance during evening hours (6pm to 10pm).

Table 1.6: Development in a future state-controlled road environment Performance outcomes Acceptable outcomes P052 Development does not impede delivery of a future state-controlled road.

A052.1 Development is not located in a future statecontrolled road.

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Not applicable

The development is for a commercial use (service station).

Response Not applicable

Page 15 of 17

Acceptable outcomes

Response

OR ALL OF THE FOLLOWING APPLY:

The development is not located within a future statecontrolled road environment.

A052.2 Development does not involve filling and excavation of, or material changes to, a future statecontrolled road. AND

A052.3 The intensification of lots does not occur within a future state-controlled road.
AND

P053 The location and design of new or changed access does not create a safety hazard for users of a future state-controlled road.
P054 Filling, excavation, building foundations and retaining structures do not undermine, damage or cause subsidence of a future state-controlled road.
P055 Development does not result in a material worsening of stormwater, flooding, overland flow or drainage impacts in a future state-controlled road or road transport infrastructure.
P056 Development ensures that stormwater is lawfully discharged.

A052.4 Development does not result in the landlocking of parcels once a future state-controlled road is delivered.

A053.1 Development does not include new or changed access to a future state-controlled road. No acceptable outcome is prescribed.

No acceptable outcome is prescribed.

A056.1 Development does not create any new points of discharge to a future state-controlled road.

Not applicable

The development is not located within a future statecontrolled road environment.

Not applicable

The development is not located within a future statecontrolled road environment.

Not applicable

The development is not located within a future statecontrolled road environment.

Not applicable

The development is not located within a future statecontrolled road environment.

AND

A056.2 Development does not concentrate flows to a future state-controlled road.

State Development Assessment Provisions v3.0

State code 1: Development in a state-controlled road environment

Page 16 of 17

Acceptable outcomes

Response

AND

A056.3 Stormwater run-off is discharged to a lawful point of discharge.

AND

A056.4 Development does not worsen the condition of an existing lawful point of discharge to the future state-controlled road.

State Development Assessment Provisions v3.0 State code 1: Development in a state-controlled road environment

Page 17 of 17