

Terraffic Pty Ltd

Traffic and Parking Consultants

ABN 83 078 415 871

30th September 2024 Ref: 24037

The General Manager Northern Beaches Council PO Box 82 Manly NSW 1655

Dear Sir/Madam,

12-14 GLADYS AVENUE, FRENCHS FOREST CONSTRUCTION TRAFFIC MANAGEMENT PLAN

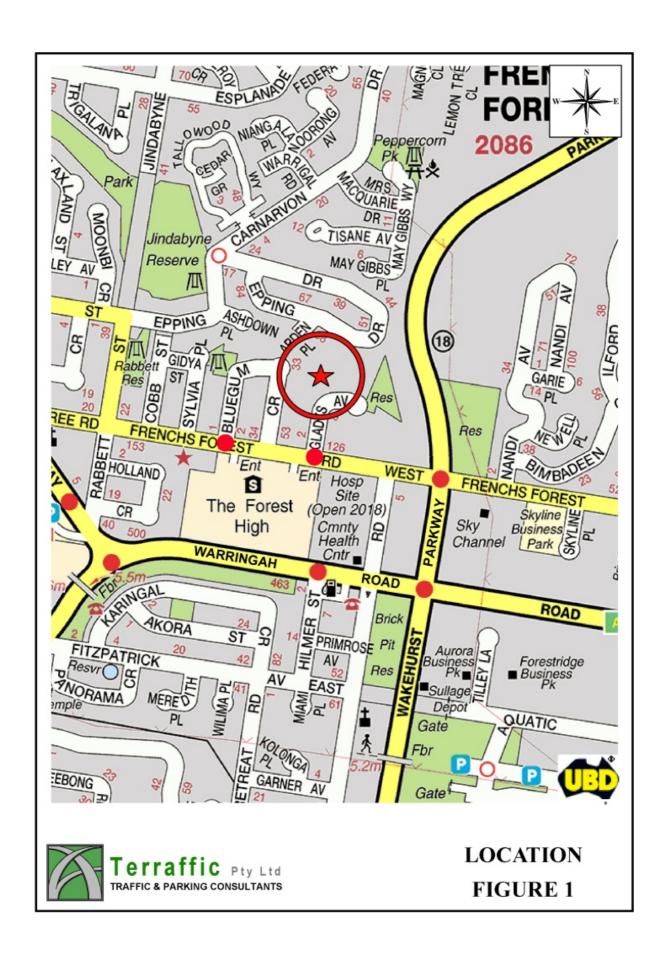
Terraffic Pty Ltd has been engaged by the Republic of Gladys to prepare the following Construction Traffic Management Plan (CTMP) to review the traffic arrangements to be implemented during the site works for the redevelopment of 12-14 Gladys Avenue, Frenchs Forest (Figures 1 and 2).



Aerial photograph of the site

I can confirm that I have completed the necessary RMS Accreditation to *Prepare a Work Zone Traffic Management Plan*. My SafeWork NSW Accreditation Number is TCT000577.

Terraffic Pty Ltd ABN 83 078 415 871 PO Box 563 Sylvania Southgate NSW 2224 Mob: 0411 129 346 Email: logan@terraffic.com.au Web: www.terraffic.com.au





Site Description

The development site is located on the western side of Gladys Avenue approximately 125m north of Frenchs Forest Road West. The site has a total area of 4,704m² with a frontage of 9.39m to Gladys Avenue.

The existing site development contains 2 dwellings (one on each lot). The dwellings gain vehicular access to Gladys Avenue via a single width accessway approximately 30m in length.



Photograph looking west from Gladys Avenue along the accessway

Proposed Development

The development proposal involves the demolition of the existing site development and construction of a Seniors Living development containing a total of 19 self contained dwellings.

The proposal will be served by a two level basement that gains vehicular access to Gladys Avenue via a two-way 5.5m wide combined entry/exit driveway. The dual width accessway narrows to a single lane approximately 16m into the site and extends for approximately 25m before widening again to a dual width access ramp that serves the basement carpark.

Road Network

The road hierarchy allocated to the road network in the vicinity of the site by the Roads and Maritime Services (RMS) is illustrated on Figure 3 and comprises the following:

State RoadsRegional RoadsForest WaynilWarringah RoadWakehurst Parkway

Naree Road and Frenchs Forest Road West are unclassified *Local Roads* that perform a sub-arterial road function that links Forest Way to the west with Warringah Road to the east.

Frenchs Forest Road West carries 4 lanes of traffic (2 in each direction) with 24/7 CLEARWAY restrictions generally applying along both sides of the road.

Gladys Avenue is an unclassified *Local Road* with a primary function of providing access to properties along its length. It has a pavement width of approximately 6.1m with a NO PARKING restriction along the eastern alignment to facilitate passing traffic. The western alignment is unrestricted.

The existing traffic and parking controls in the vicinity of the site are illustrated on Figure 4. As can be seen, the intersection of Frenchs Forest Road West and Gladys Avenue is signalised and also provides access to the Northern Beaches Hospital.

Construction Program

The first phase of the site works will be the demolition of the existing dwellings and the site establishment. The excavation and construction works are to be carried out in two (2) stages with the first stage comprising the building at the rear of the site and the second stage comprising the building at the front of the site towards the accessway.

Depending on weather conditions, the duration of the construction program is to be approximately 28 months as follows:

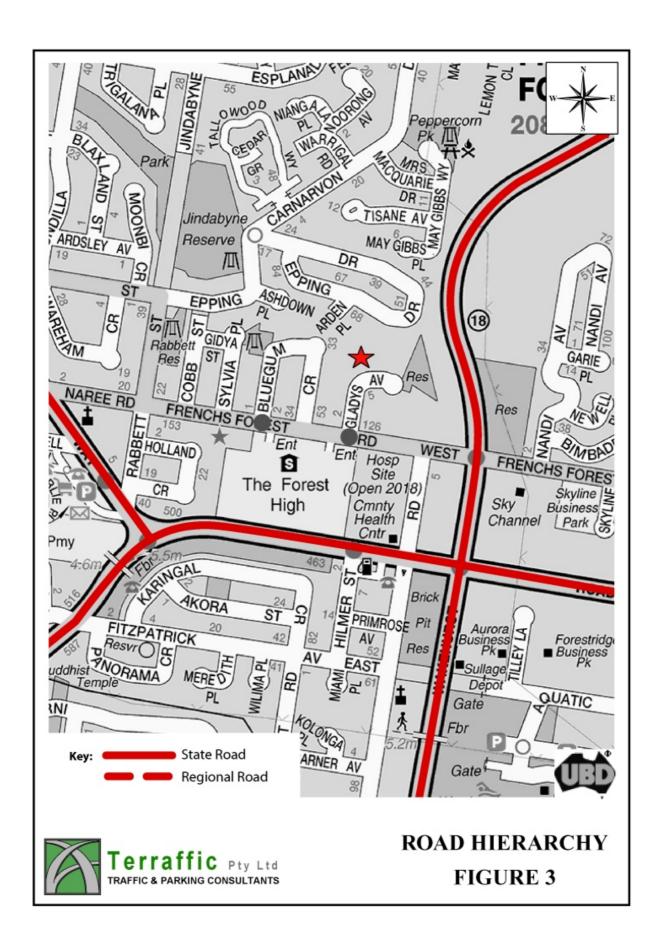
CONSTRUCTION PROGRAM

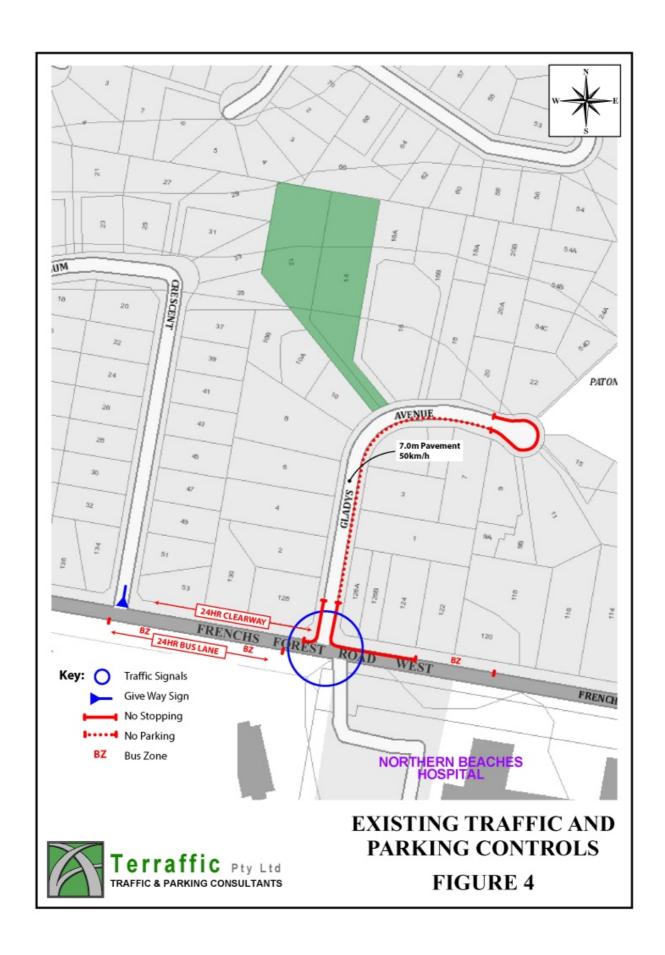
Phase	Work	Approximate Duration of Work
1	Demolition / site establishment	1 month
2	Stage 1 Excavation	1 month
3	Stage 1 Construction	12 months
4	Stage 2 Excavation	1 month
5	Stage 2 Construction	12 months

Subject to Council approval, all work on site (including demolition and earth works) must only occur between 7am and 5pm Monday to Saturday. No work is to be undertaken on Sundays or public holidays.

A Demolition Plan and an Excavation & Fill Plan are reproduced in Appendix A. The limits of the Stage 1 and Stage 2 works are also indicated on the Excavation & Fill Plan.

Prior to the start of the site works, an A-Class hoarding will be installed where necessary around the perimeter of the site with a 6.0m wide inward swinging gate installed at Gladys Avenue. The existing access driveway is to be utilised for access to the site.





Due to the relatively narrow width of Gladys Avenue and an existing power pole adjacent to the access driveway, vehicular access to the site is restricted to 12.5m long trucks. The site will not be accessed by 19m long truck and dogs. As is standard practice, the driveway will be protected with timber slats across the footpath to protect the Council infrastructure.

There is the capacity for trade vehicles to park on-site during both stages of the site works. Trades will park along the accessway and on the ground level during the Stage 1 works. Trades will also be able to park in the basement once the second stage is constructed.

Vehicle Swept Paths

The following swept paths of the Australian Standard AS2890.2:2018 8.8m long Medium Rigid Vehicle (MRV) and 12.5m Heavy Rigid Vehicle (HRV) are reproduced in Appendix B:

- 1. The HRV entering the site from Gladys Avenue
- 2. The HRV departing the site onto Gladys Avenue
- 3. The HRV manoeuvring on the site during the demolition and excavation works
- 4. The MRV manoeuvring on the Stage 2 construction site

As can be appreciated, truck paths are not required during the Stage 1 works as the vehicle has the majority of the Stage 2 site to manoeuvre and exit in a forward direction.

In addition, a 10m WORKS ZONE will be required adjacent to the Gladys Avenue access driveway to restrict kerbside parking and facilitate access by these large vehicles.

Construction Vehicle Activity

The anticipated construction vehicle activity for each stage of the development is as follows:

Phase 1 Demolition and Site Establishment

Approximately 600m³ of material will be removed from the site during the demolition phase and will be removed by bogie trucks with a 30m³ capacity. This process will involve approximately 20 truck loads over a 4 week period. It is unlikely that more than 2 trucks will access the site on a given day during the demolition phase of the site works.

Phase 2 Stage 1 Excavation

There will be approximately 3,280m³ of spoil removed from the site prior to Stage 1 construction. Excavated spoil will again be removed by bogie trucks with a 30m³ capacity. It is estimated that there will be approximately 110 truckloads of spoil removed from the site over the 1 month period. This will equate to approximately 6 trucks a day

accessing the site during this phase of Stage 1. These trucks will be able to enter and exit the site in a forward direction.

Phase 3 Stage 1 Construction

Vehicular activity during the construction phase can vary from the occasional delivery of materials, to the concentrated delivery of concrete during a major pour. Depending on the size of the pour, it is possible to generate up to 6 concrete trucks per day to the site.

In addition to the accessway that has the capacity to store 3 standard concrete trucks, delivery vehicles and concrete trucks will have the majority of the Stage 2 site to queue.



Photograph of a typical 51m concrete boom pump that will Be utilised during the concrete pour phase



Photograph of a typical concrete delivery truck that will be utilised during the concrete pour phase

Phase 4 Stage 2 Excavation

There will be approximately 4,680m³ of spoil removed from the site prior to the Stage 2 construction. It is estimated that there will be approximately 160 truckloads of spoil removed from the site over the 1 month period. This will equate to approximately 8 trucks a day accessing the site during this phase of Stage 2.

Phase 5 Stage 2 Construction

As noted above, vehicular activity during a construction phase can vary from the occasional delivery of materials, to the concentrated delivery of concrete during a major pour. Depending on the size of the pour, it is possible to generate up to 6 concrete trucks per day to the site.

As indicated on the swept path diagram, there is scope to store 2 delivery vehicles and provide sufficient space for an MRV to manoeuvre and exit in a forward direction.

In addition, the accessway has the capacity to store 3 standard concrete trucks. Drivers will also be radioed to the site when required in order to reduce any likelihood of vehicle queuing on local streets.

Construction Truck Routes

The Site Manager will ensure all construction vehicles approach and depart via the higher road network and utilise the truck routes illustrated on Figure 5. As can be seen, the larger trucks will not turn left into Gladys Avenue from Frenchs Forest Road West.

Proposed Traffic and Pedestrian Safety Measures

As all vehicles will enter and exit in a forward direction, it will not be necessary to prepare a TRAFFIC GUIDANCE SCHEME to control vehicle movements on Gladys Avenue. If deemed necessary, the Site Manager may station a controller at the Gladys Avenue access driveway to control vehicle movements.

Furthermore, the 9.4m wide accessway provides clear sight lines to pedestrians in accordance with Figure 3.3 of the Australian Standard AS/NZS2890.1:2004. To that end pedestrian safety is optimised.

Circulation roadway or domestic driveway—

Sight triangles are not required on this side if the driveway is two-lane, two way—

Property boundary

AS/NZS 2896.1:2004

These areas to be kept clear of obstructions to visibility

Property boundary

Property boundary

DIMENSIONS IN METRES

-2.0 m

FIGURE 3.3 MINIMUM SIGHT LINES FOR PEDESTRIAN SAFETY

-Pedestrian

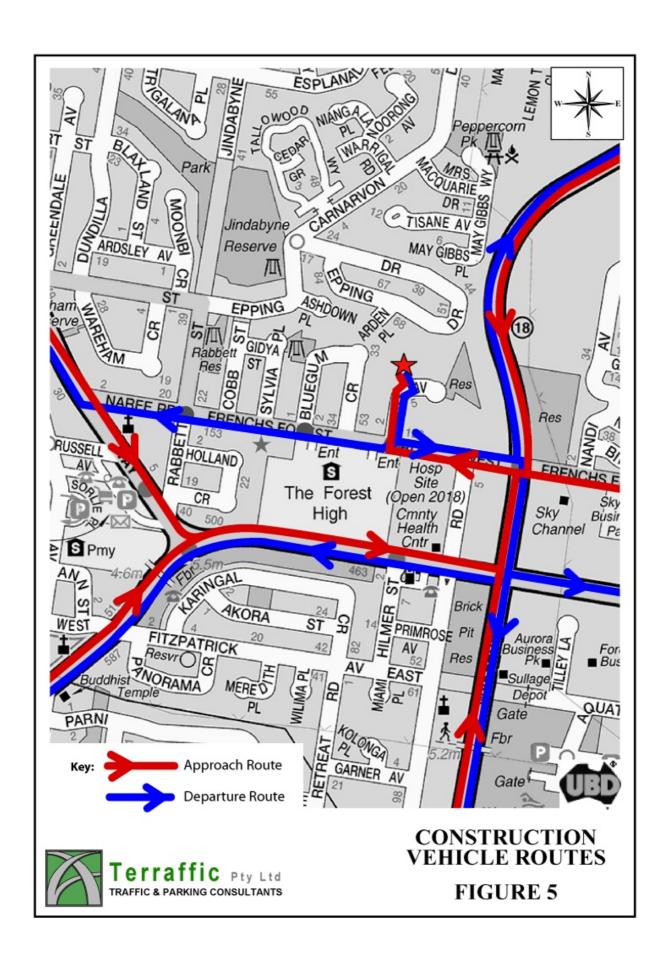
I trust this advice satisfies your requirements and will remain available during office hours should you require any further information.

Yours Faithfully,

Michael Logan MTraff (Monash University)

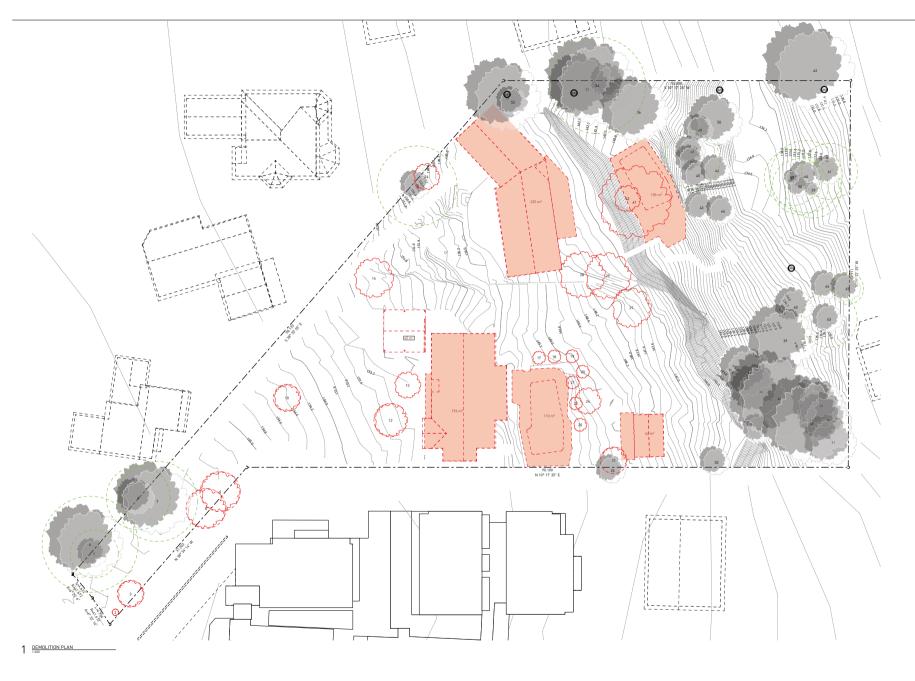
Director

Terraffic Pty Ltd



APPENDIX A

CONSTRUCTION PLANS



NOTES

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 construction values designated.

Refer to the notes page for a legend that includes further notes and an explanation of abbreviations.

NOTES REGARDING DEVELOPMENT APPLICATION

DRAWINGS
Minor changes to form and configuration may be required when dra subsequently prepared for construction purposes after the grant of development consent.

LEGEND



EXISTING TREE TO BE RETAINED X REFERRES TO TREE ID IN ARBORIST REPORT



EXISTING TREE TO BE RETAINED WITH TREE PROTECTION ZONE X REFERRES TO TREE ID IN ARBORIST REPORT



EXISTING TREE TO BE REMOVED PENDING COUNCIL APPROVAL



EXISTING STRUCTURE TO BE DEMOLISHED

VERSION FOR FINAL COORDINATION

DEMOLITION PLAN

Developed Design

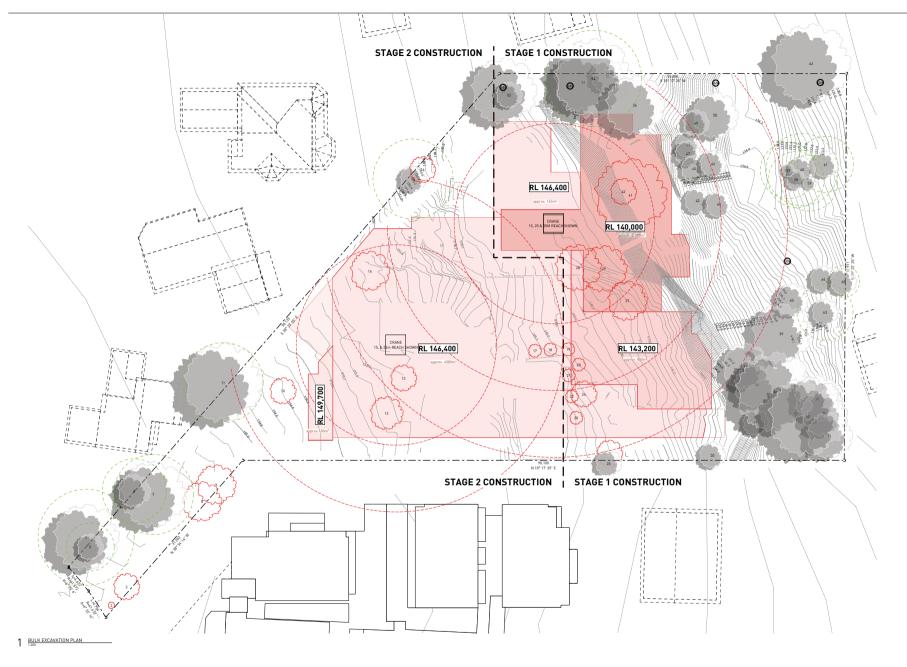
Seniors Housing

12-14 Gladys Avenue Frenchs Forest

Lot A & B DP393276 88 Republic of Gladys

ARCHITECTURE URBAN PLANNING M1/147 McEvoy St Alexandria NSW 2015 P 02 9516 2022 E email@smithtzannes.com





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EXISTING TREE TO BE REMOVED PENDING COUNCIL APPROVAL



AREA OF BULK EXCAVATION RL DEPTH INDICATED ON PLAN



AREA OF BULK EXCAVATION RL DEPTH INDICATED ON PLAN



AREA OF BULK EXCAVATION RL DEPTH INDICATED ON PLAN

VERSION FOR FINAL COORDINATION

REV 26 09 24

EXCAVATION & FILL PLAN

Developed Design

Seniors Housing

12-14 Gladys Avenue Frenchs Forest

Lot A & B DP393276 88 Republic of Gladys

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APPENDIX B

CONSTRUCTION VEHICLE
MANOEUVRING PATHS

