

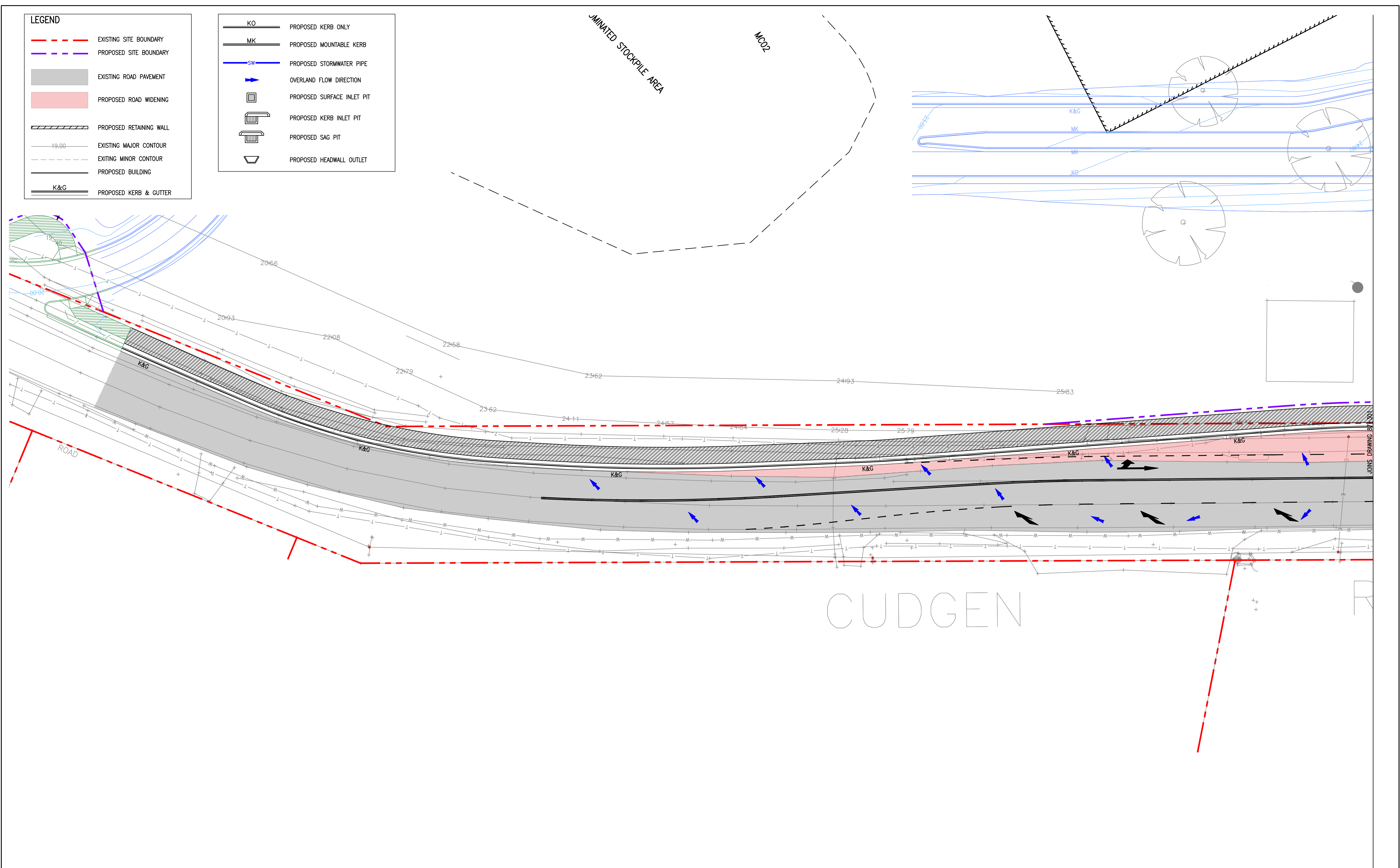
APPENDIX E

ACCESS AND INTERSECTION PLANS

LEGEND

- EXISTING SITE BOUNDARY
- PROPOSED SITE BOUNDARY
- EXISTING ROAD PAVEMENT
- PROPOSED ROAD WIDENING
- PROPOSED RETAINING WALL
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED BUILDING
- PROPOSED KERB & GUTTER

- PROPOSED KERB ONLY
- PROPOSED MOUNTABLE KERB
- PROPOSED STORMWATER PIPE
- OVERLAND FLOW DIRECTION
- PROPOSED SURFACE INLET PIT
- PROPOSED KERB INLET PIT
- PROPOSED SAG PIT
- PROPOSED HEADWALL OUTLET



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MAIN ENTRANCE - GENERAL ARRANGEMENT PLAN - SHEET 1 OF 3

Project: **TWEED VALLEY HOSPITAL
TWEED SHIRE, GREENFIELD SITE,
NORTHERN RIVERS, NSW 2485**

Scale at A1
AS SHOWN
Date
16.08.19

Drawn
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Designer
M.CLAVEL

Design Checker
D.RAVANDEH
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C.ROPE
Job Number
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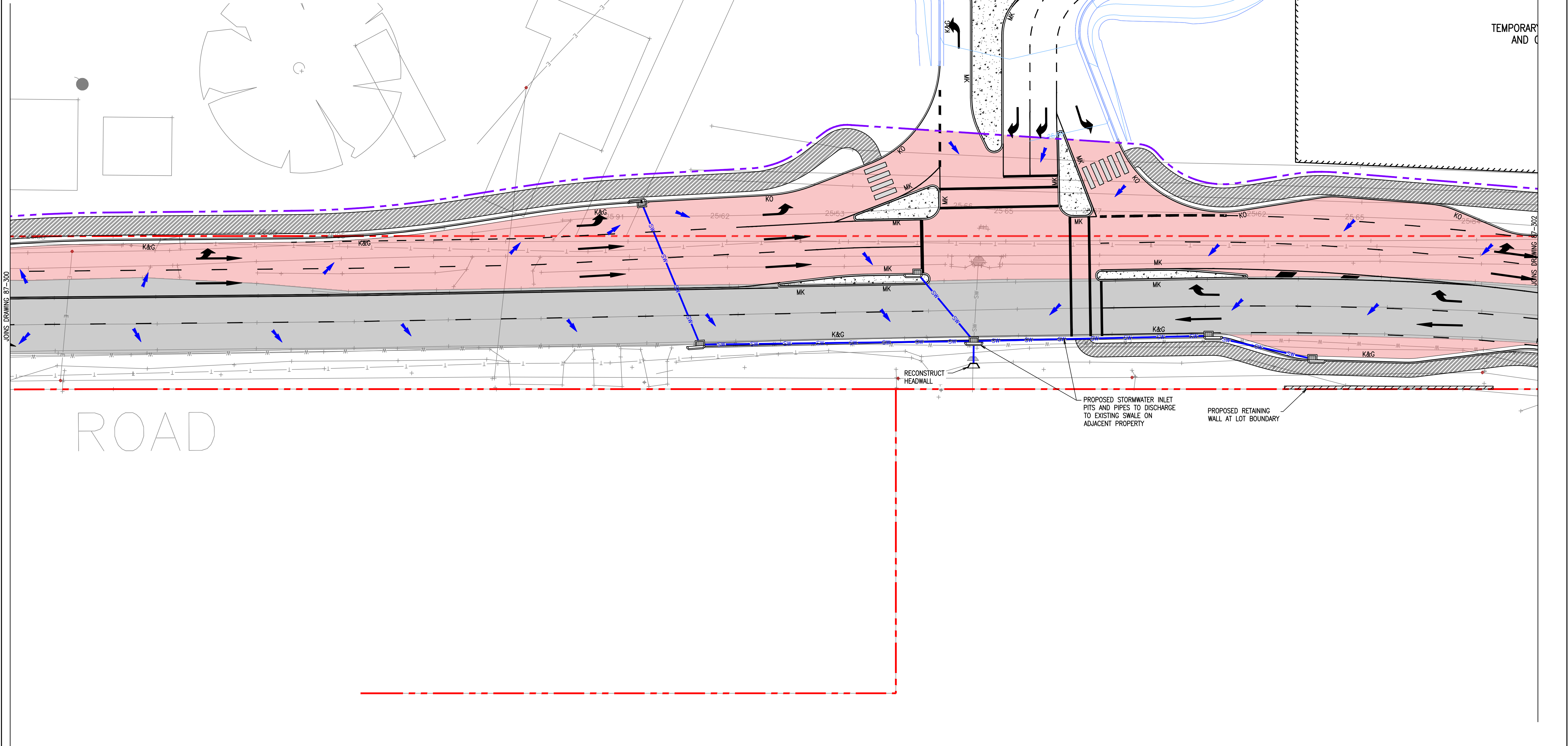
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LEGEND

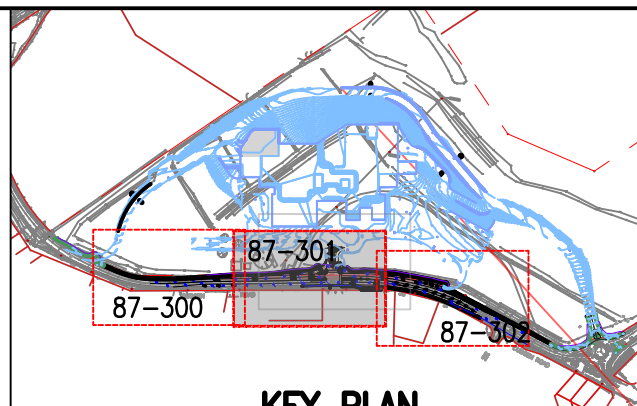
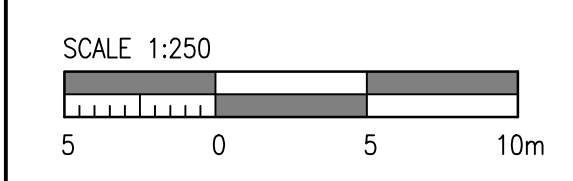
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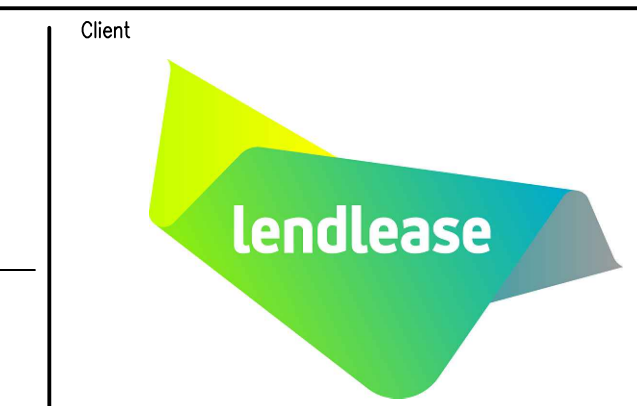
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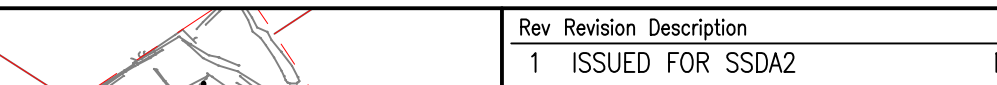
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MAIN ENTRANCE - GENERAL ARRANGEMENT PLAN - SHEET 2 OF 3

Project
**TWEED VALLEY HOSPITAL
TWEED SHIRE, GREENFIELD SITE,
NORTHERN RIVERS, NSW 2485**

Scale at A1 AS SHOWN Date 16.08.19	Drawn M.CLAVEL Designer M.CLAVEL	Design Checker D.RAVANDEH Approved C.ROPE Job Number 19005
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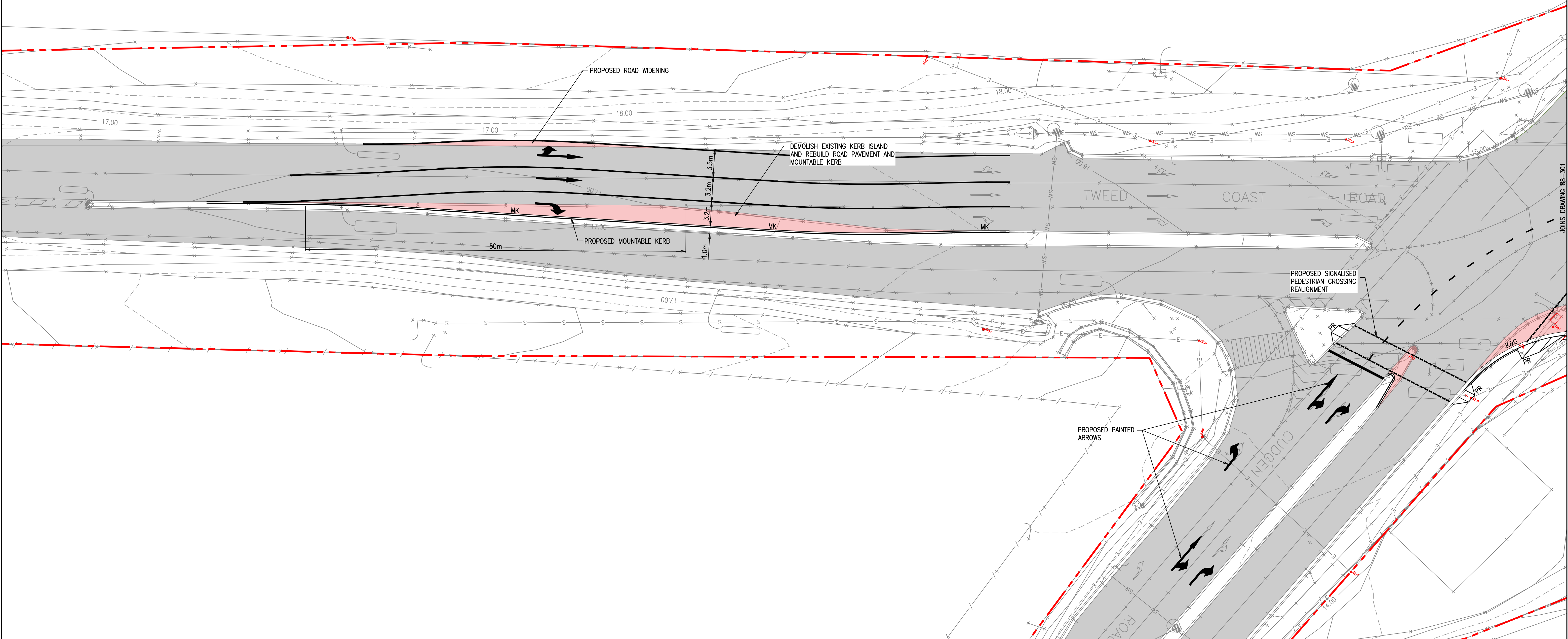
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PROPOSED MOUNTABLE KERB

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**TWEED COAST ROAD & CUDGEN
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SHEET 1 OF 3**

Project

**TWEED VALLEY HOSPITAL
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NORTHERN RIVERS, NSW 2485**

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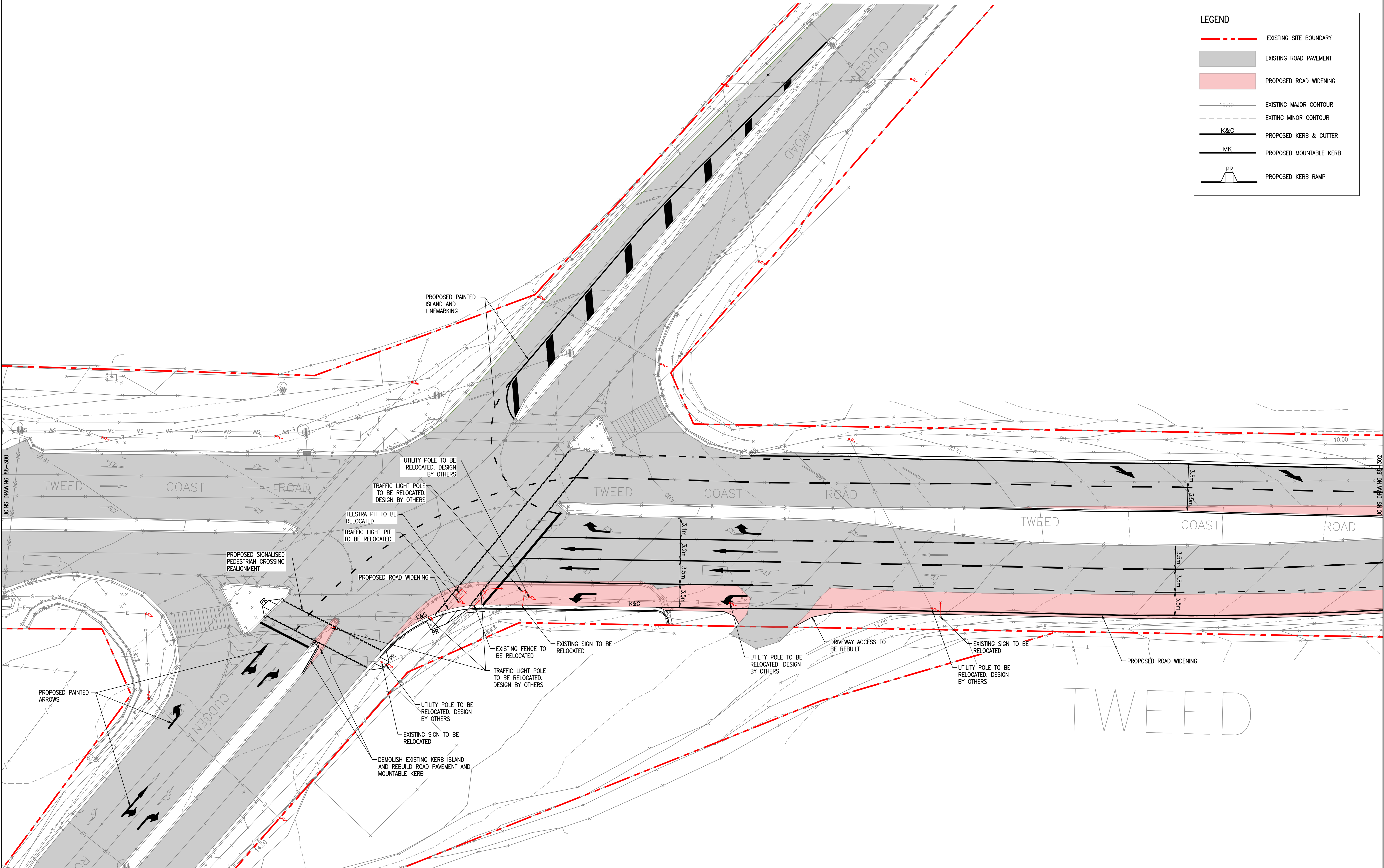
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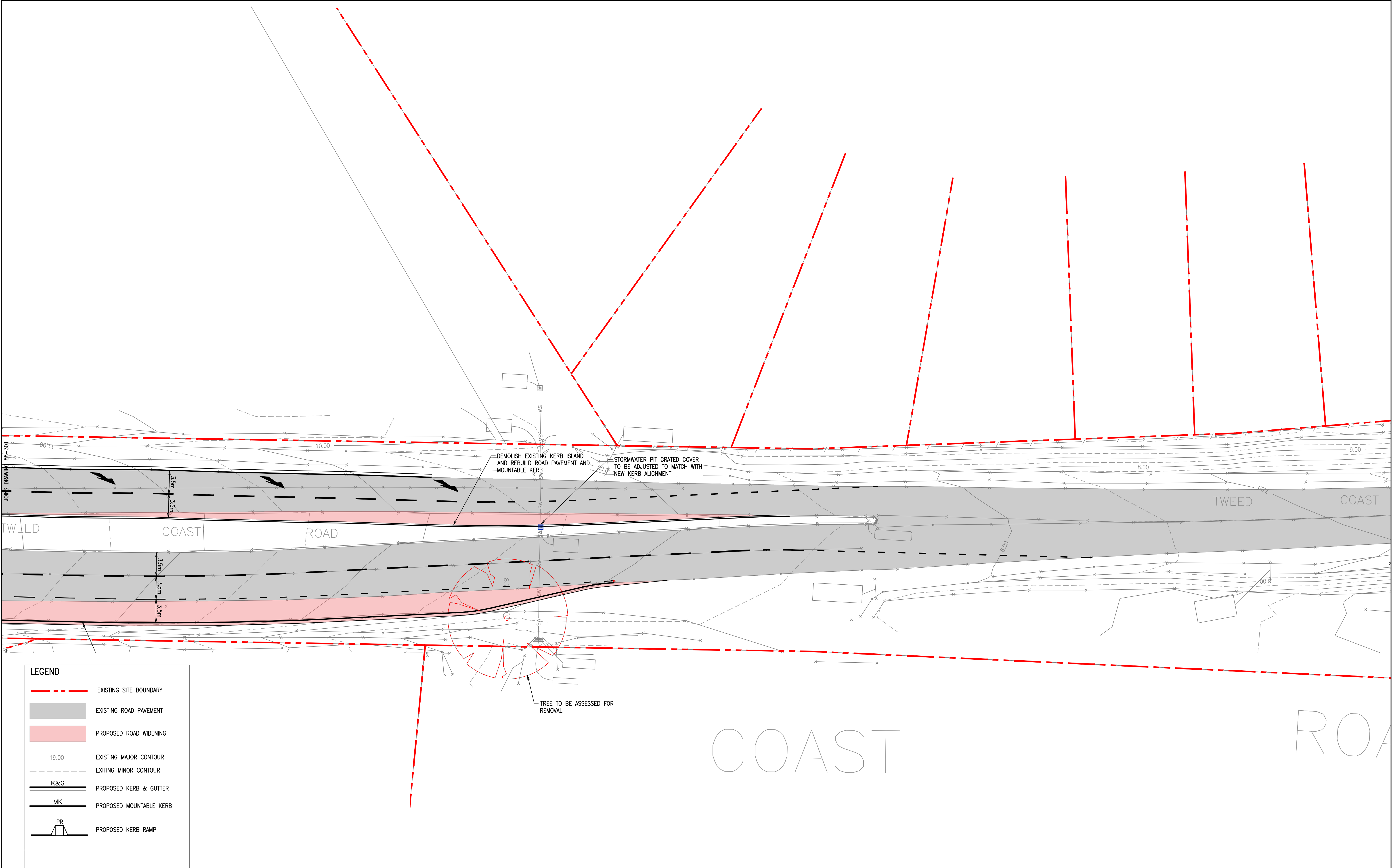
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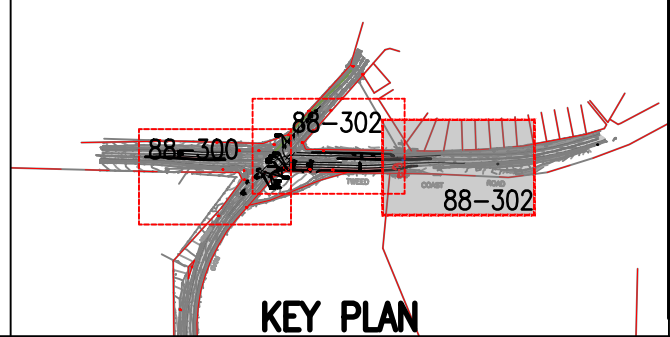
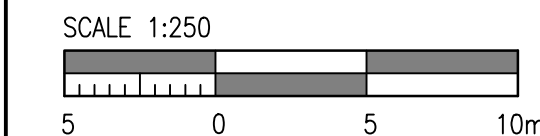
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TWEED COAST ROAD & CUDGEN ROAD INTERSECTION - GA - SHEET 3 OF 3

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APPENDIX F

GREEN TRAVEL PLAN

Tweed Valley Hospital Project

Preliminary Green Travel Plan (Planning Approval Phase)

NSW Health Infrastructure

23rd September 2019



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P3378.002 Tweed Valley Hospital Sustainable Transport Plan	F. Irony	A. Eke	A. Eke	09/08/2019	TSA Management
P3378.003 Tweed Valley Hospital Sustainable Transport Plan	F. Irony	A. Eke	A. Eke	16/08/2019	TSA Management
P3378.004 Tweed Valley Hospital Sustainable Transport Plan	F. Irony	A. Eke	A. Eke	23/09/2019	TSA Management

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

Tweed Valley Hospital Project: Green Travel Plan

Project: **P3378**

Version: **004**

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Figure 2.1: Tweed Valley Hospital Location

Figure 2.2: Tweed Shire Mode Share

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Figure 3.2: Public Transport Infrastructure Surrounding the Subject Site

Figure 3.3: Active Transport Network Surrounding the Subject Site

Figure 5.1: Potential Improved Public Transport Network in Tweed

Figure 5.2: TVH Transport Access Guide

Figure 5.3: Public Transport Concession Cards

Figure 5.4: Example of End of Trip Facilities

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PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

Appendices

Appendix A: Transport Access Guide

Appendix B: Travel Mode Survey – Staff

Appendix C: Travel Mode Survey – Non-Staff

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

Tweed Valley Hospital Project: Green Travel Plan

Project: **P3378**

Version: **004**

1. INTRODUCTION

1.1 Background

As part of the application process for the Tweed Valley Hospital (TVH) Bitzios Consulting was requested by NSW Government Department of Planning and Environment to prepare a Sustainable Transport Plan (STP), including a detailed Green Travel Plan (GTP).

The conditions of consent for the concept development application for the New Tweed Valley Hospital (SSD9575) – Part B Condition B22 (c) (i) states the following:

- “A Green Travel Plan (GTP) including recommendations of the Transport Access and Parking Working Group, target mode shares for both staff and visitors to reduce the reliance on private vehicles aligning with the targets in TfNSW’s ‘Regional NSW Services and Infrastructure Plan’”.

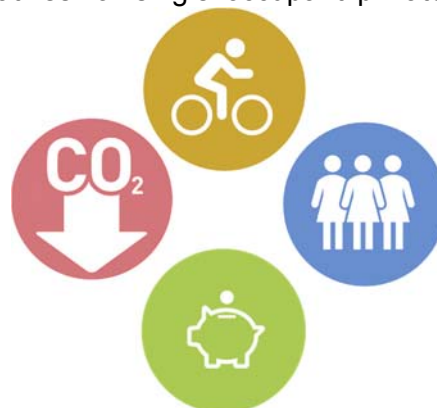
1.2 Purpose of a Green Travel Plan

A GTP is a document that identifies strategies to reduce the dependency on private vehicles and encourages travel mode behaviour change.

GTPs are used to endorse and encourage sustainable travel options such as cycling, walking, carpooling and public transport as viable and attractive alternatives for single occupant private vehicle trips whenever practicable.

Increased uptake of public transport and active transport can bring a number of benefits to employers, staff, local communities and the environment. These include:

- reduced congestion on surrounding roads
- reduced emissions associated with private vehicle usage
- a healthier, more active and more productive workforce
- a greater sense of community among employees
- reduction in car operating costs such as fuel and vehicle wear



The GTPs are designed to be used as ‘live document’. The document should be monitored and updated on a regular basis to monitor progress towards active transport mode share targets and review the success of current strategies.

1.3 About the Tweed Valley Hospital GTP

The Tweed Valley Hospital GTP develops strategies to support sustainable transport whilst considering and recognising the uniqueness of travel patterns at hospitals and the local context of the area where the hospital is situated at.

This GTP has been developed for the TVH with the aim of:

- reducing the number of private vehicles trips to and from the site
- reducing car parking demand for staff and visitors/patients
- encouraging use of transport modes that have a low environmental impact (i.e. active and public transport)
- reducing the vehicle-kilometres travelled.

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

In the process of developing the GTP, two (2) community reference group workshops were held on the 5th June 2019 at Tweed Shire Council – Tweed Heads Office. During the workshops, inputs about the existing active and public transport infrastructure, barriers and potential actions and solutions to be implemented by TVH were gathered. These inputs have been considered in the process of developing the GTP.

Figure 1.1 outlines the Tweed Valley Hospital GTP process.

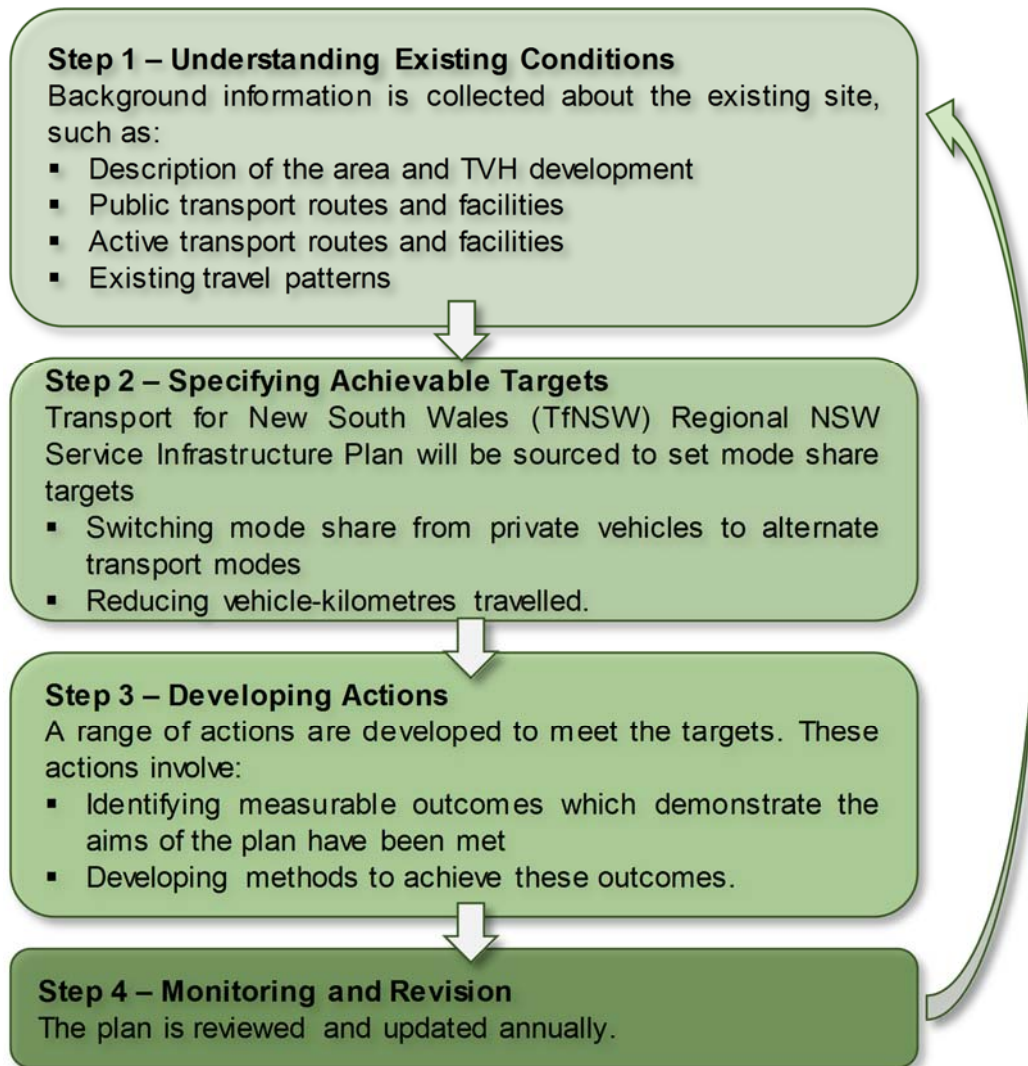


Figure 1.1: Green Travel Plan Process

2. EXISTING CONDITIONS

2.1 Site Location

The TVH site is located at 771 Cudgen Road, Cudgen NSW. The project site is formally described as Lot11 at DP1246853 and has a site area of 19.40ha. The future TCH locality is shown in Figure 2.1.

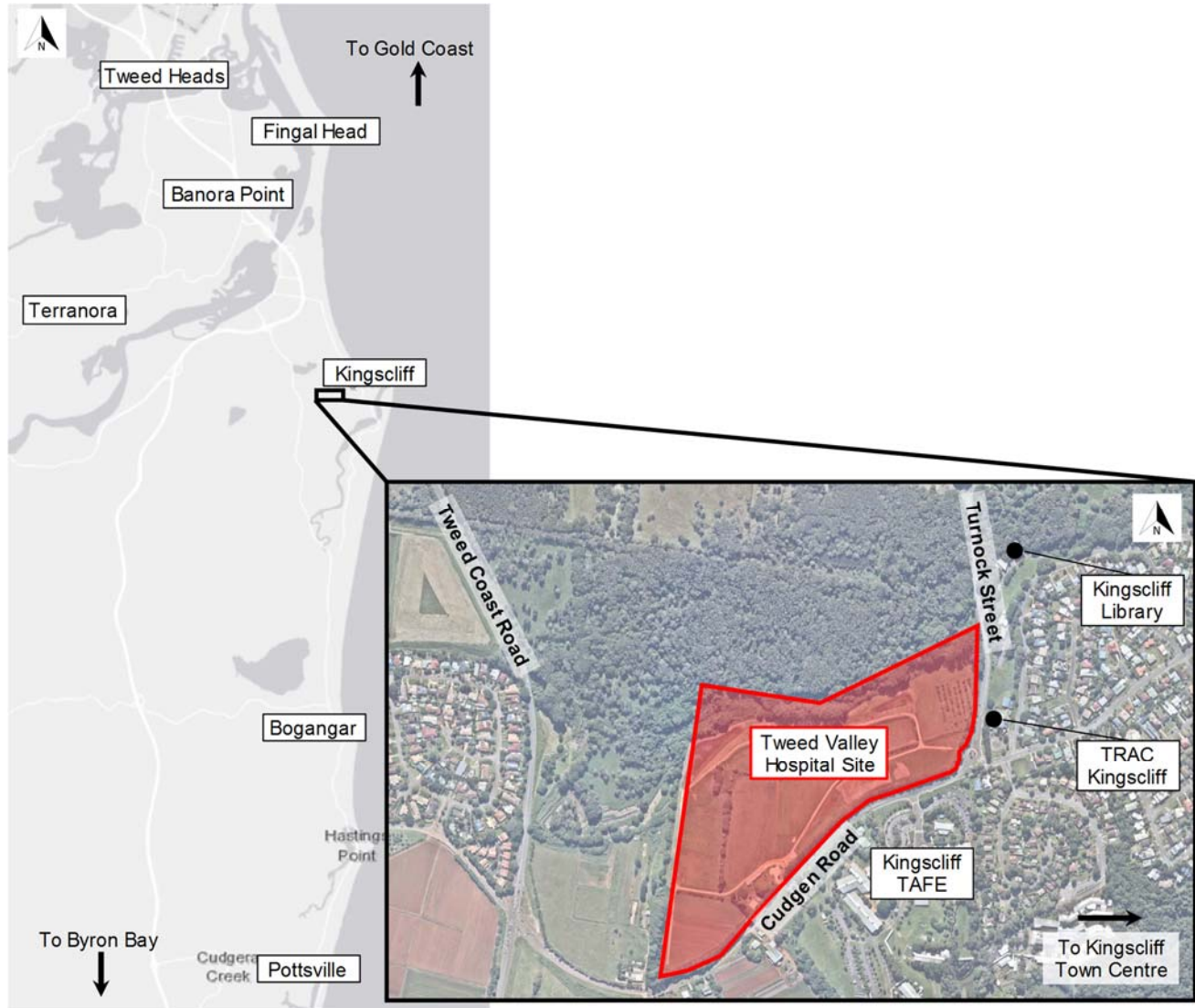


Figure 2.1: Tweed Valley Hospital Location

2.2 Existing Travel Patterns

Work travel modes were obtained from the Australian Bureau of Statistics (2016) Census, as reported by Profile Id. Approximately 75% of employees in the Tweed Shire commute daily by private vehicles, 3% commute to work walking, 1.5% use public transport as their primary mode of transport and less than 1% cycle to work.

Figure 2.2 outlines the existing mode share for the Tweed Shire.

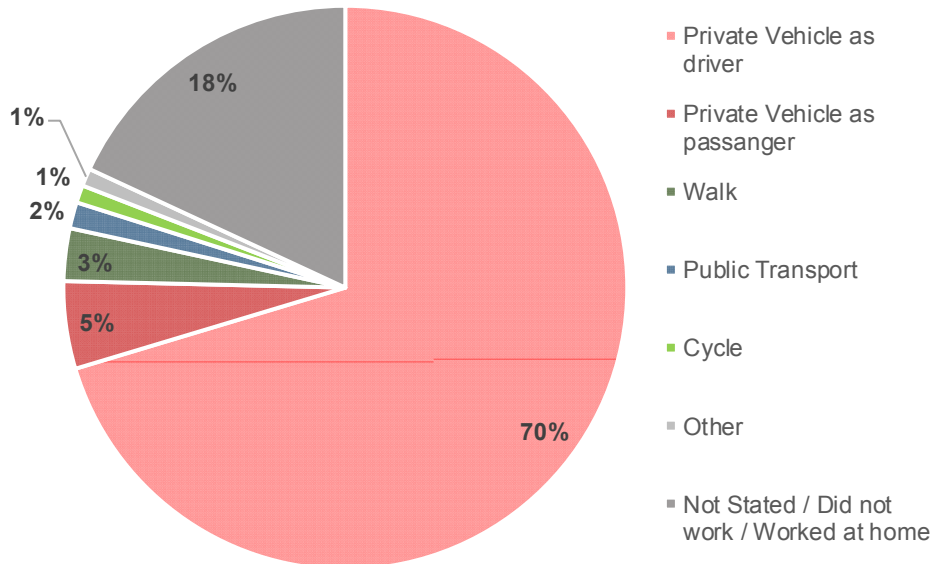


Figure 2.2: Tweed Shire Mode Share

In addition, the Roads and Maritime Service (RMS) Guide to Traffic Generating Development (2002) surveyed traffic generation in private hospitals. It is important to note that the surveyed hospitals were slightly different from the proposed TVH, all hospitals were private, with 30-99 beds and between 10-102 average staff per weekday day shift.

The survey found that the mean proportion of people who travelled to the site by private vehicles as approximately 90% and the average vehicle occupancy was 1.3 persons per private vehicle.

3. EXISTING INFRASTRUCTURE

3.1 Public Transport

Public transport for the Tweed region consists of bus services. The Tweed bus network is well established through eight routes. These services generally operate on hourly frequencies during the weekday with reduced services on weekends.

Kingscliff area is currently serviced by two (2) bus services. These services provide connection from Pottsville (to the south) and Tweed Heads (to the north) to Kingscliff.

There are two (2) existing bus stops located fronting the new TVH site at Cudgen Road and one (1) bus stop is located within Kingscliff TAFE. These stops currently service the adjacent Kingscliff TAFE Campus, Tweed Regional Aquatic Centre (TRAC) Kingscliff, Library and the surrounding residential catchment.

These bus stops provide connection to the existing pedestrian network via pedestrian footpaths and crossing point at Cudgen Road. and have shelter and seating.

The existing bus stops are serviced by the Route 601 and Route 603 on an hourly basis.

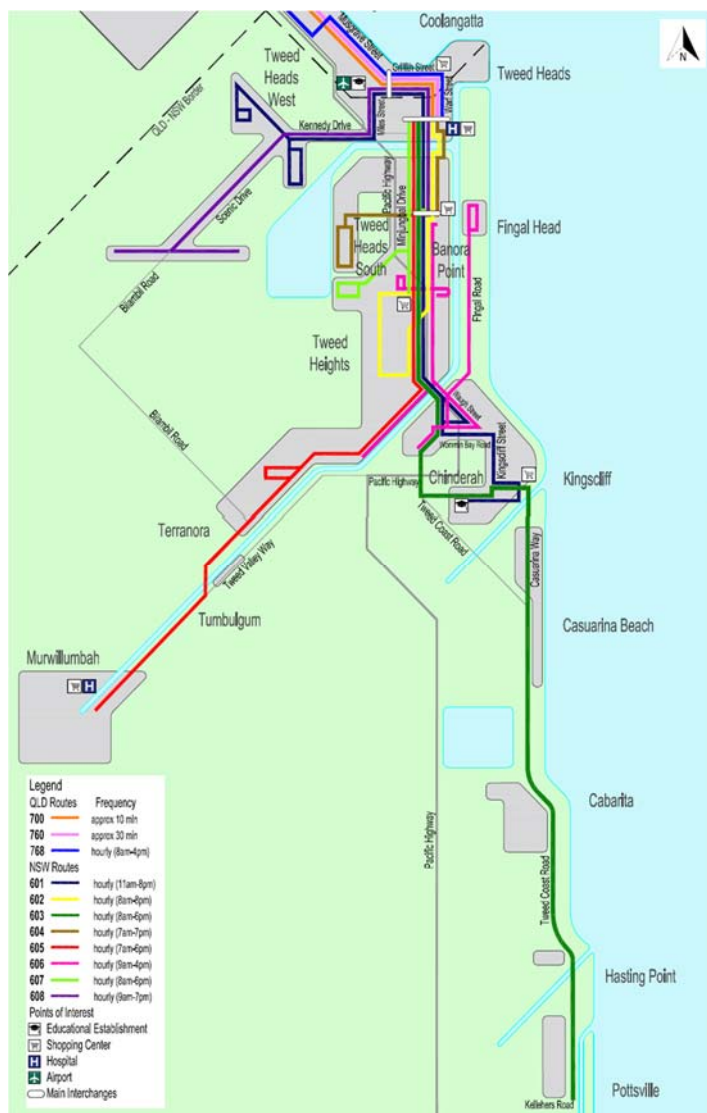


Figure 3.1: Surfside Bus Route Map

At present, Route 601 terminates within Kingscliff TAFE and does not continue past the TVH site. Surfside noted that issue with the service when the TAFE is closed, and the access is gated restricting buses from turning around on the site.

Figure 3.2 presents the public transport infrastructure surrounding TVH.



Figure 3.2: Public Transport Infrastructure Surrounding the Subject Site

In February 2019, TfNSW has announced changes to the existing public transport network which have direct impact to the TVH, as follows:

- Route 601 to be upgraded to provide 30min services during the day as well as extended times from 5:00am to 9:00pm. This service will be the key spine service for the Tweed linking key destinations and also connections to other bus routes across the Tweed Shire and onto the Gold Coast
- Route 601 will directly connect the new Hospital site via the bus stops on Cudgen Road to the existing site at Tweed Heads, along with extending into Coolangatta and West Tweed Heads.
- A new service linking Murwillumbah directly to Kingscliff is also planned to be operational.

These upgrades to the public transport network will further improve the public transport services to the new Hospital.

3.2 Active Transport

Cycling and pedestrians' movements in the Kingscliff region are primarily associated with short recreational rips or trips to/from places of education.

The area surrounding the TVH site is generally well serviced by active transport infrastructure. An existing off-road shared path is provided along the Project Site frontage. The pathway connects to residential areas west of Tweed Coast Road and to Kingscliff city centre to the east. That the off-road cycleways shown in the figure are shared pathways suitable for pedestrians.

Figure 3.3 overleaf presents the active transport facilities surrounding TVH.



Source: Tweed Shire Council Footpaths and Cycleway Map

Figure 3.3: Active Transport Network Surrounding the Subject Site

Website 'Walk Score' provides a walkability index to any city in the Australian territory. The score is based on a mathematical model to produce a walkability rate, Kingscliff has a Walk Score rate of 52, which puts Kingscliff as a "Somewhat walkable" area. It is nonetheless noted that the area surrounding the future TVH provides the highest number of footpaths and shared paths in the Kingscliff area.



Kingscliff is Somewhat Walkable

Some errands can be accomplished on foot.

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

3.3 Carpooling

Tweed Shire Council participates on the Northern Rivers Carpool (NRC) initiative. The NRC is a free online service to link drivers and passengers via the web and phone app. To be able to join the initiative it is mandatory to belong to a registered company/Council within the Northern Rivers area. The NRC has been jointly funded by NSW Transport and Infrastructure, six Northern Rivers Council (including Tweed Shire Council), Southern Cross University and North Coast Area Health Service.



At present there are approximately 2,700 car-poolers registered in the NRC initiative.

3.4 Point to Point Services

There is a Taxi Rank / Taxi Zone spot in Kingscliff approximately 1.5km from the TVH site. In addition, a number of ridesharing providers operate in the Tweed region. The point-to-point service provides a convenient and accessible transport option.



3.5 Community Transport Services

Tweed Byron and Ballina Community Transport (TBBCT) is a non-for-profit organisation funded to provide a range of transport services to people who live in the Tweed, Byron, and Ballina Shires on the far north coast of NSW.



TBBCT provides transport services to assist older people, people with a disability and other who have difficulty accessing public transport. Bookings can be made either via e-mail (admin@community-transport.org.au) or phone: 1300 875 895) and a minimum two (2) working days' notice is requested to coordinate the trip.

3.6 Available Transport Information

Various websites for trip planning include:

- TfNSW Trip Planner – a website to plan public transport travel and look up stops and route details
- Live Traffic NSW – a website to review road incidents, closures, works, planned events and weather. A live traffic viewer and traffic camera feeds are also available.
- Going Places – a website which provides public transport, taxi, community transport and other transport information through northern NSW.

There are also a number of free and paid transport apps that allow users to plan bus and carpool trips around Kingscliff areas. TfNSW recommends the following transport apps:

- abil.io (iOS)
- AnyTrip (Android)
- Auto (iOS)
- Citymapper (iOS, Android)
- Commuter NSW (iOS)
- Feedback2Go (iOS, Android)
- Live Traffic NSW (iOS, Android)
- Metarove (Android)
- Moovit (iOS, Android)
- NextThere (iOS)
- Snarl (iOS, Android)
- Speed Adviser (iOS, Android)
- Transit (iOS, Android)
- Triptastic (iOS)
- TripView (iOS, Android).



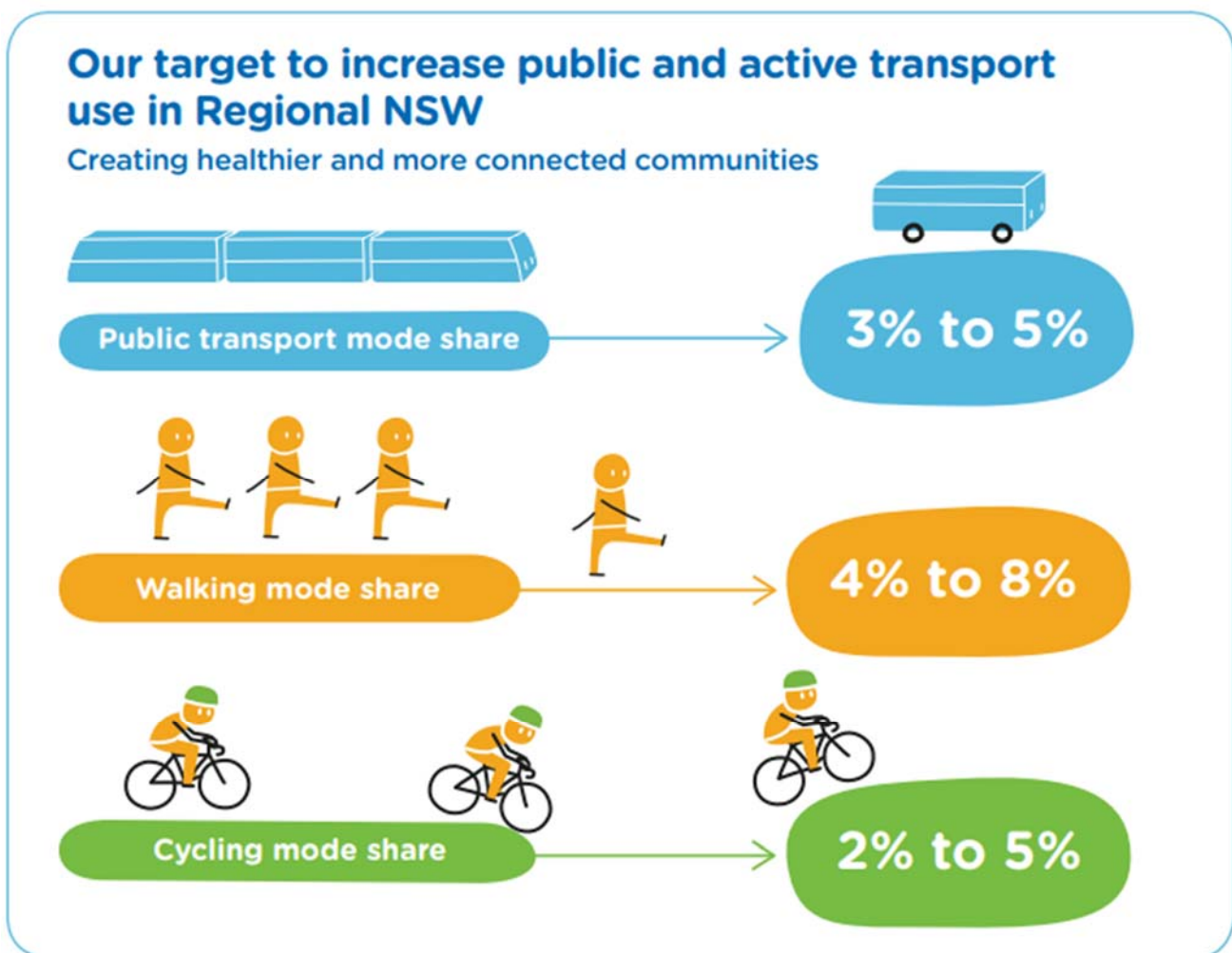
It is noted that the existing TVH website does not provide a logical and direct information on how to get to the hospital other than by private vehicle.

4. TARGETS

Progress toward targets will be measured using an annual tailored travel survey of employees. The survey results will be compared with the outlined targets of this GTP to determine the success of the plan and potentially develop new actions.

The targets of this plan focus on reducing the reliance on private vehicle and increasing the number of public and active transport trips. The targets are aligned with the transport goals set in the TfNSW's *Regional NSW Services and Infrastructure Plan*.

The targets for this GTP, aligned with TfNSW aspirational targets for regional NSW over the next 10 years are:



Source: TfNSW's Regional NSW Services and Infrastructure Plan

5. POTENTIAL ACTIONS

5.1 Private Vehicle

A range of potential actions may be implemented to reduce private vehicle usage. These actions are focused on staff, visitors, patients and potential non-users of the hospital intending to park on the TVH parking area and using nearby land-uses.

It is also acknowledged that depending on the patient condition driving can be the only reasonable mode of transport to access the TVH.

Management of car parking facilities is important to reduce non-essential parking demands to the site. Where parking is not managed or restricted, there is a greater utilisation of private vehicles which can hinder alternate mode of transport use.

5.1.1 Long-Term Paid Parking

Investigate the introduction of paid parking for medium and long-term parking on-site. Health Infrastructure NSW policy for new car parking facilities in rural and regional Local Health Districts is that fees will be introduced to fund the new car park costs.

Aim:

- Reduce private vehicle usage for work related trips
- Reduce private vehicle usage for hospital visitors
- Reduce the total number of non-users of TVH parking on-site.

Measure:

- Review impacts and associated parking profile shifts to surrounding on-street and external off-street in consultation with Council and surrounding land holders
- Monitor usage rates and satisfaction using travel survey tool.

Timing:

- Review monthly in the first two (2) months progressing to every six (6) months.



5.1.2 Staff Carpooling

Implement an online carpool register to connect those interested in sharing car rides to work. This action should be implemented in partnership with the Northern Rivers Carpool initiative. The carpooling initiative is focused on staff and should be disclosed to existing and new staff of the TVH.

Aim:

- Encourage staff to carpool and reduce the total number of private vehicle trips
- Reduce private vehicle trips by increasing vehicle mode share
- Reduce car parking demands and allows for cost sharing amongst staff.

Measure:

- Monitor staff level of awareness of carpooling initiative through the travel survey tool
- Monitor the staff carpooling usage to commute daily to TVH
- Review as part of routine utilisation survey and ticket data.

Timing:

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL
 Commence upon opening and monitor annually.

Tweed Valley Hospital Project: Green Travel Plan

Project: P3378

Version: 004

5.2 Public Transport

The actions described aim to increase public transport usage. These actions are focused on making public transport a more convenient mode of transport particularly for staff, but also for patients and visitors of the TVH.

5.2.1 Improve Public Transport Accessibility

Liaise with Surfside and TfNSW to market and promote improved bus routes (namely Route 601 and new Route 609 between Murwillumbah and Kingscliff) and to provide a simpler new payment and ticketing system for public transport in Tweed.

Aim:

- Make public transport a more convenient mode of transport
- Increase public transport coverage to / from TVH
- Increase public transport usage to / from TVH.

Measure:

- Monitor public transport usage rates using travel survey tool
- Monitor public transport usage rates using TfNSW and Surfside data.

Timing:

- Commence upon opening and monitor annually.

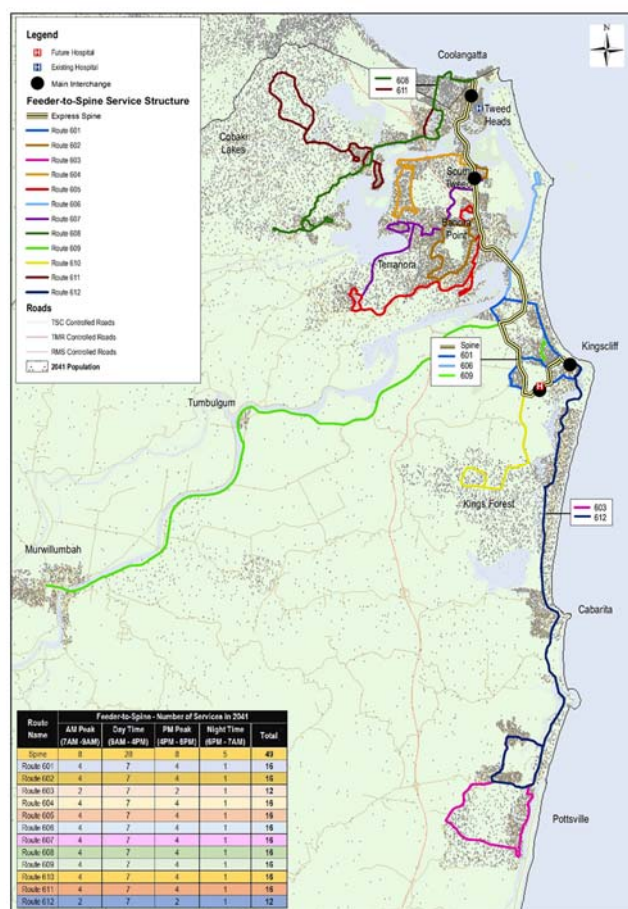


Figure 5.1: Potential Improved Public Transport Network in Tweed

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

5.2.2 Public, Active and Community Transport Access Guide

Provide all staff with a Transport Access Guide information map. The map should also be available for visitors and patients to the TVH at common areas such as lobbies, stair wells, lifts and cafes. The map should display information on public transport routes, bus stops, timetable, active transport infrastructure, end of trip facilities and community transport providers, as well as referral for further information and related websites and smartphone applications.

Aim:

- To provide easily accessible information on public and active transport modes to all staff, visitor and patients.

Measure:

- Confirm the distribution of the 'staff map' for existing and new employees
- Provide Access Guide Maps in common areas of the TVH for visitors and patients
- Provide Access Guide Maps on the TVH website and at various health facilities across Tweed and Byron Shires.

Timing:

- Commence upon opening and monitor annually.

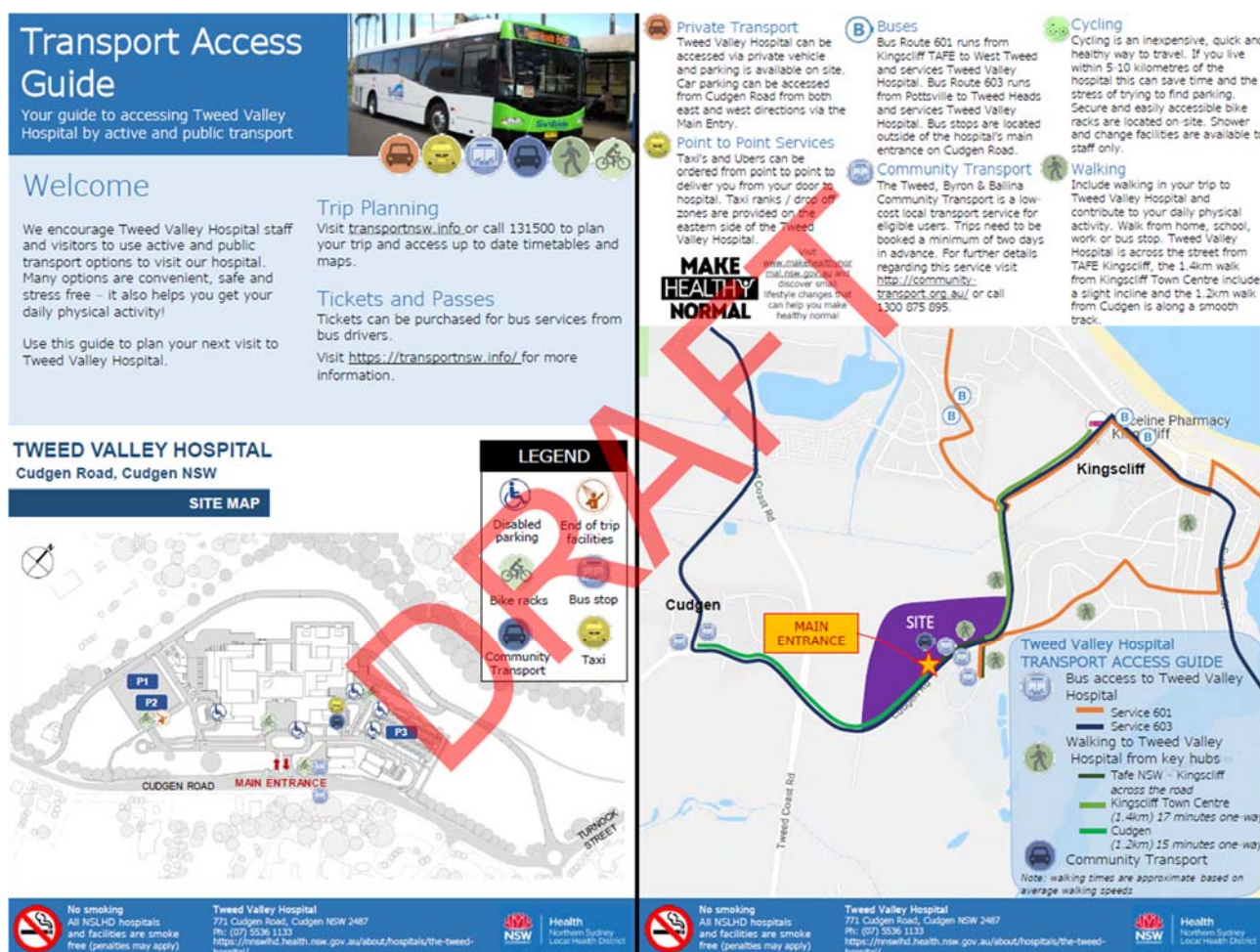


Figure 5.2: TVH Transport Access Guide

The detailed TVH Transport Access Guide is presented in **Appendix A**.

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

5.2.3 Public Transport Concession for Staff

Work with TfNSW and transport providers on the ability to provide public transport concession card for staff that use bus to commute daily to work.

Aim:

- To provide a cheaper public transport fare for TVH staff
- To increase public transport usage and reduce traffic and parking pressures.

Measure:

- Monitor staff level of awareness of public transport concession through the travel survey tool
- Monitor the staff public transport usage to commute daily to TVH.

Timing:

- Commence upon opening and monitor annually.



Figure 5.3: Public Transport Concession Cards

5.3 Active Transport

The actions described aim to increase active transport usage. These actions are focused on making active transport a more convenient and desirable mode of transport particularly for staff, but also for patients and visitors of the TVH.

5.3.1 End of Trip Facilities

Provide easily accessible, visible and secure end of trip facilities on site, including:

- Security Level C bicycle parking spaces for staff
- Security Level B bicycle parking spaces for visitors
- Showers and toilets
- Changing room facilities
- Lockers.

All the bicycle facilities shall be provided in accordance with AS2890.

Aim:

- Encourage staff and visitors to commute cycling by improving convenience
- Increase public transport usage amongst staff and visitors.

Measure:

- Monitor awareness of end of trip facilities through the travel survey tool
- Monitor active transport usage rates using travel survey tool.

Timing:

- Commence upon opening and monitor annually.



Source: <http://krismoreau.com/tend>

Figure 5.4: Example of End of Trip Facilities

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

5.3.2 Healthy Habits Initiatives

Promote healthy habit initiatives amongst staff such as:

- Car-Free Days (celebrated yearly on 22nd September encourages motorists to give up their cars for a day)
- 10,000 Steps program / Pedometer Challenge (encourages participants to achieve 10,000 steps daily)
- Display motivational and informative posters / brochure about benefits of physical activity and tips on using active transport to commute daily.

Aim:

- Encourage staff to walk and cycle to work
- Promote active transport as a practical mode of transport
- Increase active transport usage amongst staff.

Measure:

- Monitor awareness of healthy habits initiatives through the travel survey tool
- Monitor healthy habit initiative uptake through the travel survey tool
- Monitor active transport usage rates using travel survey tool.

Timing:

- Commence upon opening and monitor annually.



Source: Otago Regional Council

Figure 5.5: Healthy Habits Initiative – Car Free Day

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

Appendix A: TVH Transport Access Guide

PROPOSED ACTIONS AND INITIATIVES HAVE NOT YET BEEN CONFIRMED AND ARE SUBJECT TO FURTHER INVESTIGATION AND APPROVAL

Tweed Valley Hospital Project: Green Travel Plan

Project: **P3378**

Version: **004**

Transport Access Guide

Your guide to accessing Tweed Valley Hospital by active and public transport



Welcome

We encourage Tweed Valley Hospital staff and visitors to use active and public transport options to visit our hospital. Many options are convenient, safe and stress free – it also helps you get your daily physical activity!

Use this guide to plan your next visit to Tweed Valley Hospital.

Trip Planning

Visit transportnsw.info or call 131500 to plan your trip and access up to date timetables and maps.

Tickets and Passes

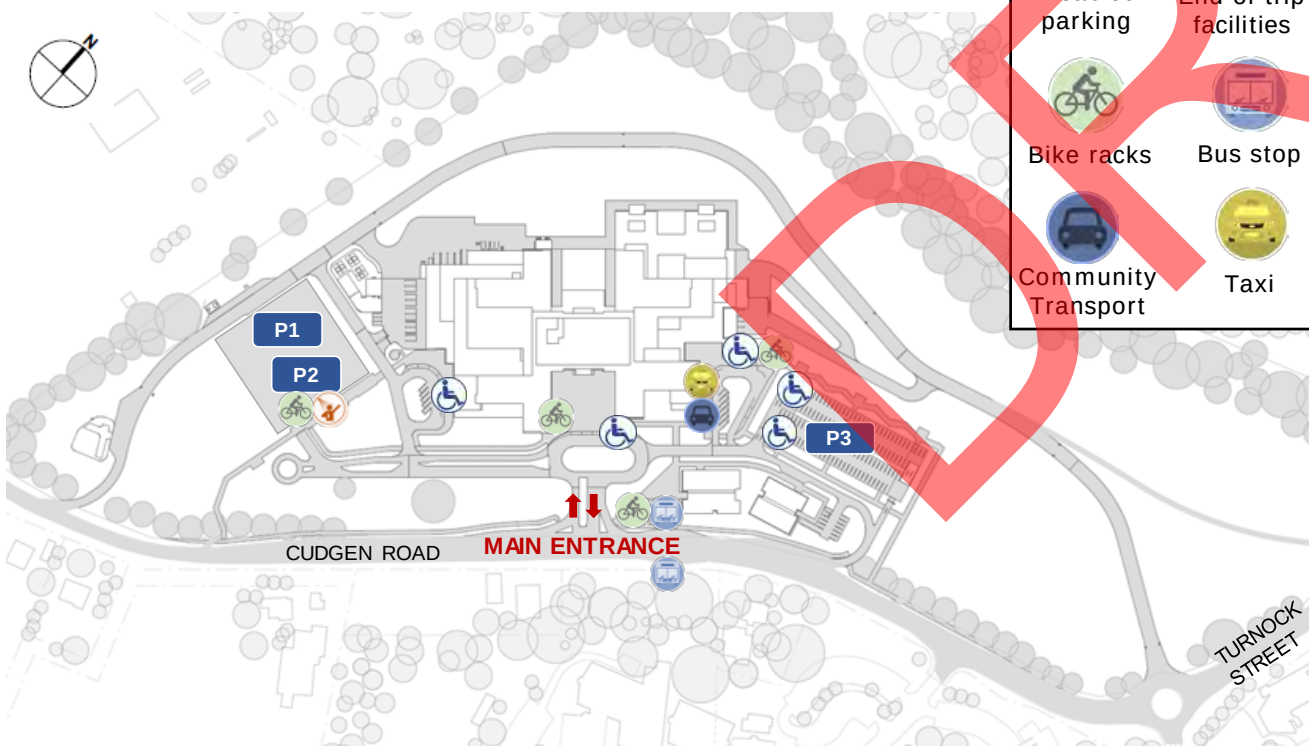
Tickets can be purchased for bus services from bus drivers.

Visit <https://transportnsw.info/> for more information.

TWEED VALLEY HOSPITAL

Cudgen Road, Cudgen NSW

SITE MAP



No smoking
All NSWHL hospitals and facilities are smoke free (penalties may apply)

Tweed Valley Hospital
771 Cudgen Road, Cudgen NSW 2487
Ph: (07) 5536 1133
<https://nswhl.health.nsw.gov.au/about/hospitals/the-tweed-hospital/>



Health
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Private Transport

Tweed Valley Hospital can be accessed via private vehicle and parking is available on site. Car parking can be accessed from Cudgen Road from both east and west directions via the Main Entry.



Point to Point Services

Taxi's and Ubers can be ordered from point to point to deliver you from your door to hospital. Taxi ranks / drop off zones are provided on the eastern side of the Tweed Valley Hospital.

**MAKE
HEALTHY
NORMAL**

Visit www.makehealthynormal.nsw.gov.au and discover small lifestyle changes that can help you make healthy normal



Buses

Bus Route 601 runs from Kingscliff TAFE to West Tweed and services Tweed Valley Hospital. Bus Route 603 runs from Pottsville to Tweed Heads and services Tweed Valley Hospital. Bus stops are located outside of the hospital's main entrance on Cudgen Road.



Community Transport

The Tweed, Byron & Ballina Community Transport is a low-cost local transport service for eligible users. Trips need to be booked a minimum of two days in advance. For further details regarding this service visit <http://community-transport.org.au/> or call 1300 875 895.



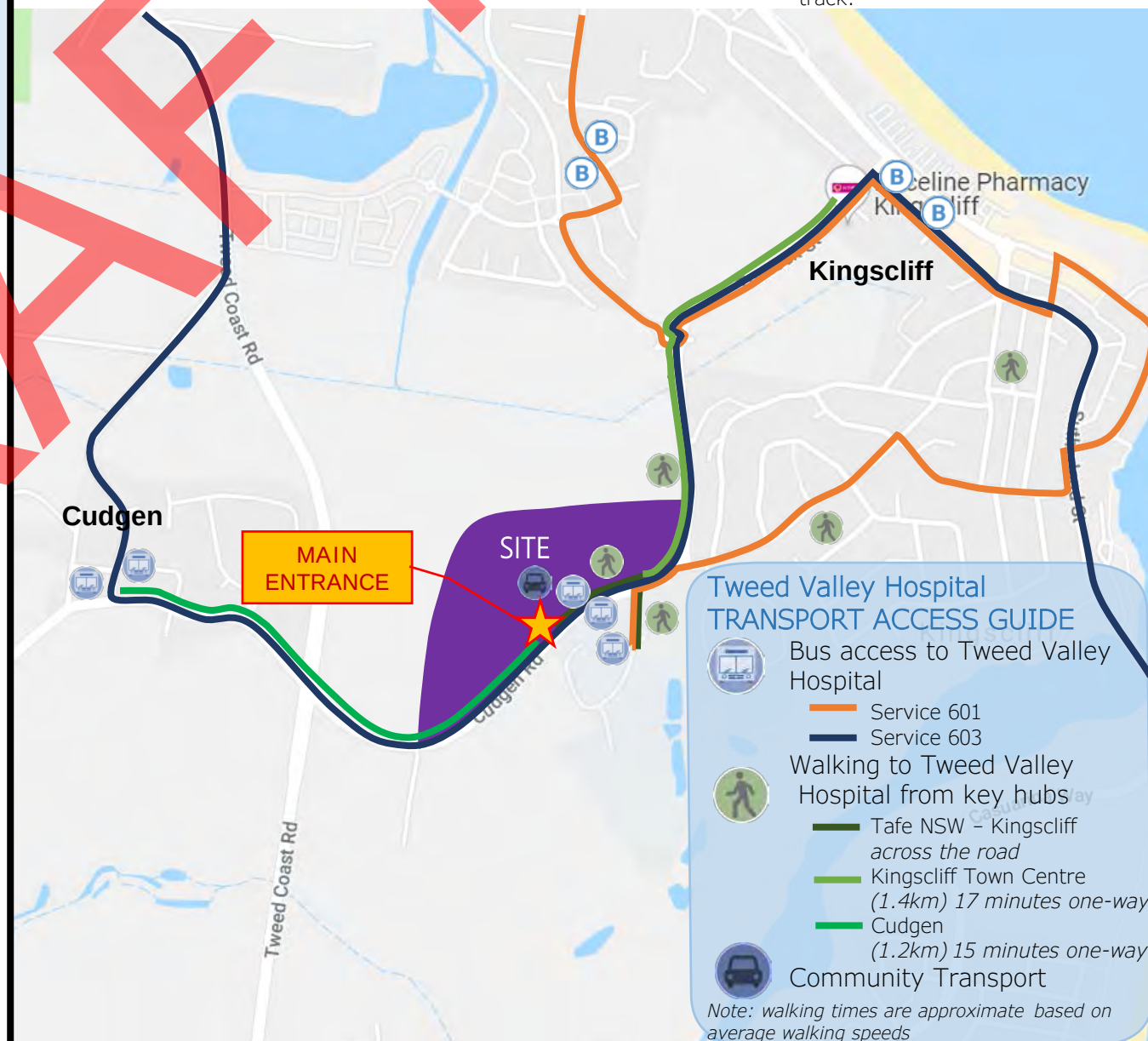
Cycling

Cycling is an inexpensive, quick and healthy way to travel. If you live within 5-10 kilometres of the hospital this can save time and the stress of trying to find parking. Secure and easily accessible bike racks are located on-site. Shower and change facilities are available to staff only.



Walking

Include walking in your trip to Tweed Valley Hospital and contribute to your daily physical activity. Walk from home, school, work or bus stop. Tweed Valley Hospital is across the street from TAFE Kingscliff, the 1.4km walk from Kingscliff Town Centre includes a slight incline and the 1.2km walk from Cudgen is along a smooth track.



No smoking
All NSWHL hospitals and facilities are smoke free (penalties may apply)

Tweed Valley Hospital
771 Cudgen Road, Cudgen NSW 2487
Ph: (07) 5536 1133
<https://nswhl.health.nsw.gov.au/about/hospitals/the-tweed-hospital/>



Health
Northern Sydney
Local Health District

Appendix B: Travel Mode Survey - Staff

Tweed Valley Hospital – Staff Travel Mode Survey

First Name: _____

Last Name: _____

Date of Birth: _____

Date: _____

Please select the most appropriate answer for each question

1. What is your role within Tweed Valley Hospital (choose one)?

- a. Doctor
- b. Admin
- c. Catering and kitchen
- d. Property Manager
- e. Cleaner
- f. Other (please specify): _____

2. How do you usually travel to Tweed Valley Hospital (choose one)?

- a. Walk
- b. Cycle
- c. Public transport
- d. Car (alone)
- e. Carpool
- f. Other (please specify): _____

3. Estimate your travel distance from your home to Tweed Valley Hospital (choose one)

- a. Less than 1km
- b. 1-2km
- c. 2-5km
- d. 5-10km
- e. 10-15km
- f. More than 15km

4. How long does your journey usually takes (choose one)?
- a. Less than 15 minutes
 - b. 15-30 minutes
 - c. 30-45minutes
 - d. 45-60minutes
 - e. More than 60 minutes
5. If you drive to work, what are the main reasons for doing so? Please tick all that apply
- a. Distance
 - b. Time available
 - c. Cost
 - d. Weather conditions
 - e. Family commitments
 - f. Health / fitness condition
 - g. Personal / road safety
 - h. Need to carry work equipment
 - i. Other (please specify): _____
6. How do you consider your awareness / knowledge of Public Transport services around Tweed Valley Hospital (choose one)?
- a. Good
 - b. Sufficient
 - c. Insufficient
 - d. Poor
7. Are you aware of any Public Transport Concession for Tweed Valley Hospital Staff (choose one)?
- a. Yes
 - b. No

8. Is there any actions Tweed Valley Hospital can undertake to increase public transport usage for staff?

a. Yes (please specify): _____

b. No

9. How do you consider your knowledge about active transport infrastructure (i.e. pedestrian footpaths, bicycle paths) surrounding Tweed Valley Hospital (choose one)?

- a. Good
- b. Sufficient
- c. Insufficient
- d. Poor

10. Are you aware of the end-of-trip facilities (i.e. bicycle lockers, showers, changing rooms) at Tweed Valley Hospital (choose one)?

- a. Yes
- b. No

11. Is there any actions Tweed Valley Hospital can undertake to increase bicycle and walking modes usage?

a. Yes (please specify): _____

b. No

12. Are you aware of the Tweed Valley Hospital Carpooling scheme (choose one)?

- a. Yes
- b. No

13. Is there any actions Tweed Valley Hospital can undertake to increase carpooling usage?

a. Yes (please specify): _____

b. No

14. Do you have any other comments on how to increase green travel mode usage (i.e. public transport, walking, carpool) to Tweed Valley Hospital?

Appendix C: Travel Mode Survey – Non-Staff

Tweed Valley Hospital – Non-staff Travel Mode Survey

First Name: _____

Last Name: _____

Date of Birth: _____

Date: _____

Please select the most appropriate answer for each question

1. What is your reason for visiting the Tweed Valley Hospital (choose one)?

- a. Acute patient
- b. Ambulatory patient
- c. Outpatient
- d. Visitor
- e. Career
- f. Other (please specify): _____

2. How did you travel to Tweed Valley Hospital (choose one)?

- a. Walk
- b. Cycle
- c. Public transport
- d. Car (alone)
- e. Carpool
- f. Other (please specify): _____

3. Estimate your travel distance from your home to Tweed Valley Hospital (choose one)

- a. Less than 1km
- b. 1-2km
- c. 2-5km
- d. 5-10km
- e. 10-15km
- f. More than 15km

4. How long did your journey take (choose one)?
- a. Less than 15 minutes
 - b. 15-30 minutes
 - c. 30-45minutes
 - d. 45-60minutes
 - e. More than 60 minutes
5. Are you aware of the Tweed Valley Hospital Transport Access Guide provided at the Hospital hall and at the Tweed Valley Hospital Website (choose one)?
- a. Yes
 - b. No
6. Do you consider Tweed Valley Hospital provided you with enough information on how to get to the Hospital by different transport modes?
- a. Yes
 - b. No (please specify): _____

7. Are you aware of the community transport providers in the Tweed Valley Hospital area and how to contact them?
- a. Yes
 - b. No
8. Are you aware of end-of-trip facilities (i.e. bicycle lockers, showers, changing rooms) at Tweed Valley Hospital (choose one)?
- a. Yes
 - b. No

9. Is there any actions Tweed Valley Hospital can undertake to decrease private vehicle usage?

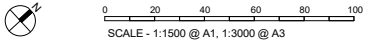
a. Yes (please specify): _____

b. No

10. Do you have any other comments on how to improve information on how to get to the hospital by different transport modes (i.e. public transport, walking, community transport) to Tweed Valley Hospital?

APPENDIX G

PEDESTRIAN ACCESS PLAN



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4	16.08.2019	FOR INFORMATION	AR	MC
3	09.08.2019	FOR INFORMATION	AR	MC
2	02.08.2019	FOR INFORMATION	AR	MC
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Client

NSW GOVERNMENT | **Health** Infrastructure | **Health** Northern NSW Local Health District

Project

TWEED VALLEY HOSPITAL DEVELOPMENT

Drawing Title

Pathway Network Plan

Drawing Status

SSD2

Scale	@A1	Plot Date	Revision
Project No.	1719	Drawing No.	LS-DWG -10-002
			6

NOT FOR CONSTRUCTION

LEGEND

- | | | | | |
|-------------------------------|-------------------|---|--|-----------------------------------|
| Existing On-road Shared Path | Existing Crossing | Main Pedestrian Route
Drop-off + Bus Stop to Entry | Connector Pedestrian Route
Connections between paths to form circuits | Gathering & Social Spaces |
| Existing Off-road Shared Path | Proposed Crossing | Secondary Pedestrian Route
Car Parking to Entry | Access from Car Parking | Civic Spaces |
| Proposed Off-road Shared Path | Cycle Route | Pedestrian Route
Street to Entry | Bus Stop | Cycle End of Trip
Bike Storage |

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APPENDIX H

TRANSPORT ACCESS GUIDE

Transport Access Guide

Your guide to accessing Tweed Valley Hospital by active and public transport



Welcome

We encourage Tweed Valley Hospital staff and visitors to use active and public transport options to visit our hospital. Many options are convenient, safe and stress free – it also helps you get your daily physical activity!

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Tickets and Passes

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TWEED VALLEY HOSPITAL

Cudgen Road, Cudgen NSW

SITE MAP



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Health
Northern Sydney
Local Health District



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**MAKE
HEALTHY
NORMAL**

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Community Transport

The Tweed, Byron & Ballina Community Transport is a low-cost local transport service for eligible users. Trips need to be booked a minimum of two days in advance. For further details regarding this service visit <http://community-transport.org.au/> or call 1300 875 895.



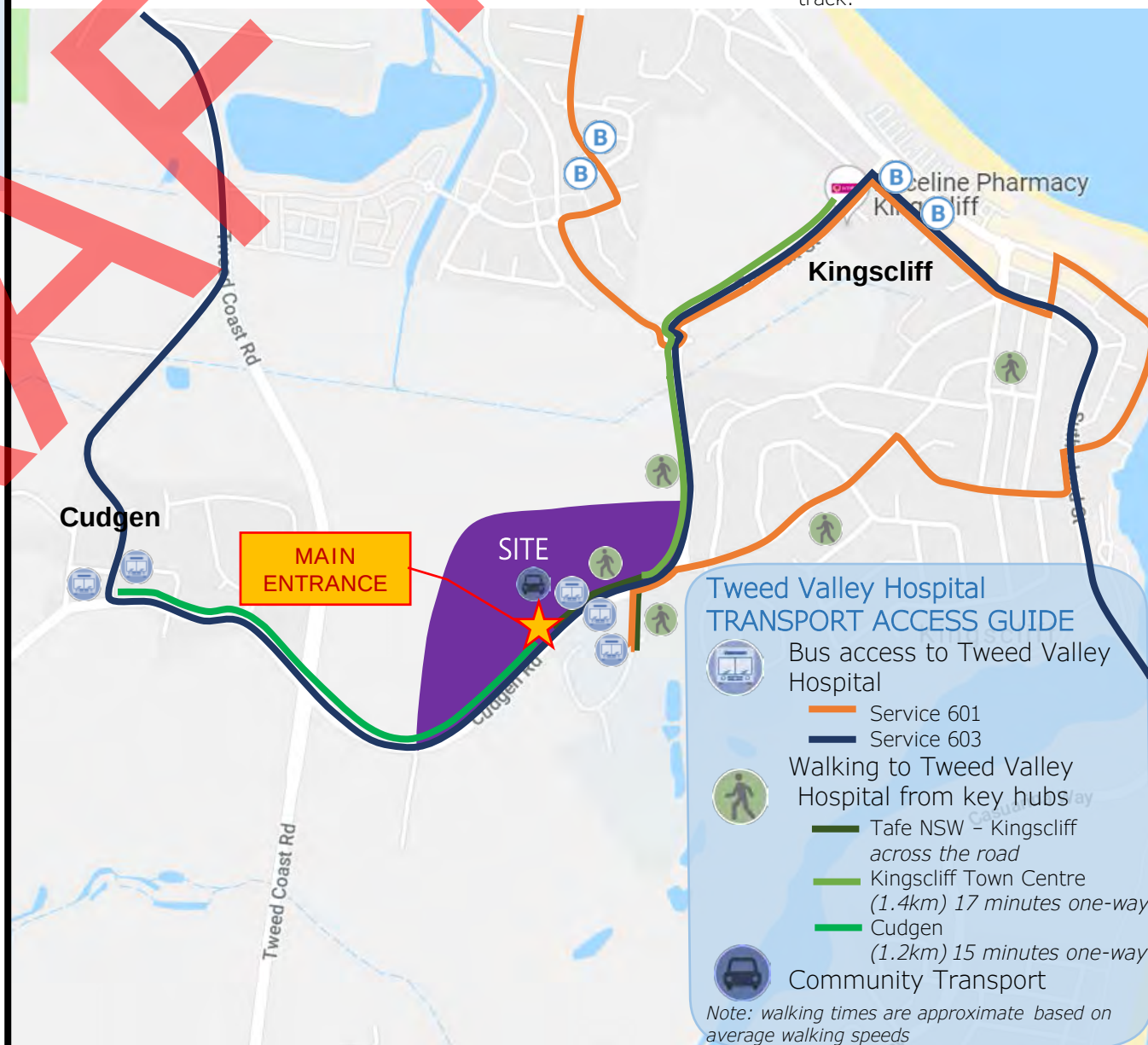
Cycling

Cycling is an inexpensive, quick and healthy way to travel. If you live within 5-10 kilometres of the hospital this can save time and the stress of trying to find parking. Secure and easily accessible bike racks are located on-site. Shower and change facilities are available to staff only.



Walking

Include walking in your trip to Tweed Valley Hospital and contribute to your daily physical activity. Walk from home, school, work or bus stop. Tweed Valley Hospital is across the street from TAFE Kingscliff, the 1.4km walk from Kingscliff Town Centre includes a slight incline and the 1.2km walk from Cudgen is along a smooth track.



No smoking
All NSWHL hospitals and facilities are smoke free (penalties may apply)

Tweed Valley Hospital
771 Cudgen Road, Cudgen NSW 2487
Ph: (07) 5536 1133
<https://nswhl.health.nsw.gov.au/about/hospitals/the-tweed-hospital/>



Health
Northern Sydney
Local Health District