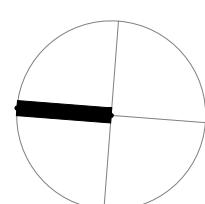


SRV - Small Rigid Vehicle	6.400m
Overall Length	2.330m
Overall Width	3.500m
Overall Body Height	0.398m
Min Body Ground Clearance	2.330m
Track Width	4.00s
Lock-to-lock time	7.100m
Curb to Curb Turning Radius	

AMDT	DATE	BY	DESCRIPTION	AMDT	DATE	BY	DESCRIPTION		

CIVIL • STRUCTURAL • BUILDING SERVICES



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CONSULTING ENGINEERS

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DESIGN :
DRAWN :
DATE :
DRG SIZE :
SCALE :
PROJECT MGR :

ER
A1
1:100
MB

CIVIL DESIGN
SWEEP PATH

DAPTO COMMUNITY
HEALTH CENTRE
4 MARSHALL STREET,
DAPTO NSW 2530
NBRS

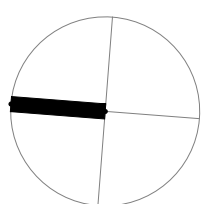
18010648
SP01



Development Application

Site Area:	1,344 m2
Gross Floor Area:	1,062 m2
Floor Space Ratio:	0.79 : 1
Building Height:	10.7 m

AMDT	DATE	BY	DESCRIPTION	AMDT	DATE	BY	DESCRIPTION



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DESIGN :
DRAWN : ER
DATE :
DRG SIZE : A1
SCALE : 1:100
PROJECT MGR : MB

CIVIL DESIGN
SWEPT PATH

DAPTO COMMUNITY
HEALTH CENTRE
4 MARSHALL STREET,
DAPTO NSW 2530
NBRS

18010648
SP02

Illawarra Shoalhaven Local Health District

Dapto HealthOne Community Health Centre Green Travel Plan (GTP)



Contents

Introduction	3
1.1 Background	3
1.2 Site Location and Context	4
1.3 What is a Green Travel Plan (GTP)?	4
2 Existing Travel Patterns and Infrastructure	5
2.1 Travel Patterns	5
2.2 Worker home location	5
2.3 Active Transport Accessibility	5
2.3.1 Walking	5
2.3.2 Cycling	6
2.4 Public Transport Accessibility	6
2.4.1 Bus	6
2.4.2 Train	7
3.0 Green Travel Plan Framework	8
3.1 Objectives	8
3.2 Proposed Green Travel Plan Measures	8
3.2.1 Green Travel Plan	8
3.2.2 Staff Induction	9
3.2.3 Cycling	10
3.2.4 Public Transport	10
3.2.5 Carpooling	10
3.3 Summary of Monitoring Mechanisms	11
4 Mode Share Targets	11
5 Ongoing Management	11
6 Conclusions	11

Version Control

Version	Date	Document Owner	Issued to
1.0	6 September 2019	ISLHD	Wollongong City Council
2.0	23 September 2019	ISLHD	Wollongong City Council

Introduction

1.1 Background

This Green Travel Plan (GTP) has been prepared in support of Development Application submission DA-2019/493 for the proposed Dapto HealthOne Community Health Centre ('Dapto HealthOne') facility located at 4 Marshall St, Dapto NSW 2530.

The Dapto HealthOne will provide a comprehensive range of primary and community health services to meet the needs of the growing local population while delivering contemporary models of care. The centre will ensure that clients and their families consistently receive timely, safe and high quality care. The Dapto HealthOne will replace the existing Dapto Community Health Centre and provide the ability to increase the capacity on site.

In light of the expansion of the services, the GTP aims to provide measures which positively influence transport demand and behaviours at the new facility with emphasis on reduction on the dependency on private vehicle use for staff and clients.

It is acknowledged that physical activity plays an important part in the prevention and management of obesity and related diseases of diabetes, heart disease, osteoporosis and a suite of other chronic health conditions. Unfortunately just over half of NSW adults and less than half of adults in Illawarra Shoalhaven Local Health District (ISLHD) meet the recommended amount of physical activity. Obesity is one of the world's largest and growing chronic health problems. Approximately half of NSW adults are overweight or obese and over half in ISLHD.

Active Transport, which includes walking, cycling, foot-powered scooter and public transport, benefits individuals by increasing physical activity and employers through higher productivity. Increasing participation in active travel to work in health settings represents an opportunity to increase physical activity.

The GTP will detail strategies and actions that will be discussed and made available to staff members at the new development that will encourage them to use alternate transport. The following key strategies are likely to increase the proportion of staff that walk, use public or shared transport options or cycle to work at Dapto Health One:

- Develop an active travel policy at Dapto HealthOne including promotion through wellbeing programs or environmental sustainability programs;
- Staff well-being committee to work together to advocate for and implement change in active transport to work options;
- Local staff-based education campaigns using 'champions' to encourage active travel;
- Link active travel options to health promotion or charity events;
- Education around road rules and culture change messaging to promote to staff the viability of active transport to work;
- Implementing communication strategies encouraging the use of public or shared transport, cycling and walking to work as a viable and possible option for many people;
- Advocate for employer salary packaging, similar to motor vehicle novated leases, whereby employees purchase bikes, associated safety and travel gear and running costs like bike services and repair costs are included; and
- Develop active travel maps to promote safer routes to walk or cycle to Dapto HealthOne facility. This will include use of direct public transport routes and improved integration with cycling.

Once the plan is fully implemented, it is likely to have important health benefits for staff related to physical activity, mental health and air quality improvements.

1.2 Site Location and Context

The proposed Dapto HealthOne is located at 4 Marshall Street Dapto as shown in the map below.



Figure 1: Site Location

The site is 2 minutes walking from the Dapto Train Station and less than a 1 minutes' walk to the closest bus stop, located on Bong Bong St. The site is centrally located to both the local CBD and adjacent to main road vehicular access to the site.

The new site has been designed with facilities to encourage health and wellbeing. This includes the provision of end of trip facilities such as staff shower and change facilities, clothes lockers and secure bike racks.

1.3 What is a Green Travel Plan (GTP)?

A GTP is a package of measures implemented by an employer to encourage more sustainable travel whilst commuting to work and also during the course of work. It is a means for an organisation to demonstrate a commitment to a more proactive approach in improving the environment of its activities.

More generally, the principles of a GTP are applied to all people travelling to and from site. It is a means for an organisation to demonstrate a commitment and take a pro-active step towards improving the environmental sustainability of its activities.

For this site in particular, it will also serve to promote healthier transport options and improve environmental outcomes by:

- Encouraging a higher rate of uptake on public transport, cycling and walking;
- Reducing private vehicle trips to the site; and
- Managing Business related travel.

Although the majority of the measures are targeted towards staff, given the nature of the services provided at the HealthOne facility and in consideration of the client demographic, client and visitors will also be encouraged to travel by sustainable means.

The GTP is recognised as an essential element of the world's most liveable cities and provides wide ranging benefits which include:

- Improved health to participants in the plan;
- Reduced environmental impacts from car usage such as noise and pollution; and
- Reduced traffic congestion

2 Existing Travel Patterns and Infrastructure

2.1 Travel Patterns

2016 Journey to Work Census data for the area surrounding the Dapto HealthOne shown in Figure 1 indicated that the vast majority of people travel by car (76.6%), active transport (2.68%) and public transport (2.1%).

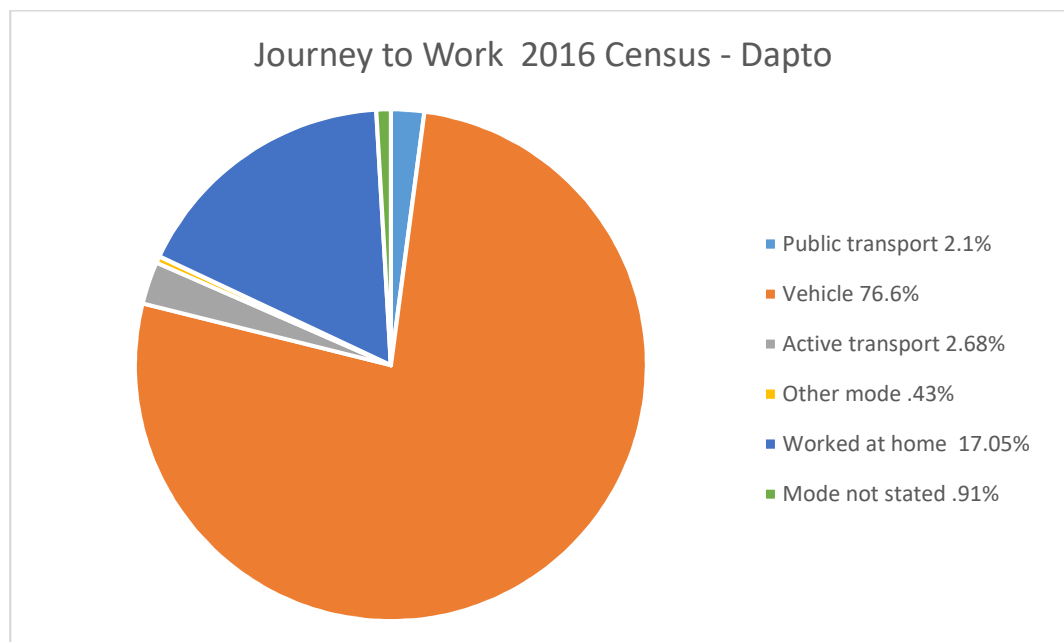


Figure 2: Existing mode share for the area surrounding Dapto HealthOne.

2.2 Worker home location

The main locations from which people are travelling from to the Dapto area are from suburbs such as Fairy Meadow, Wollongong, Figtree, Warrawong, Cringila, Berkeley, Lake Heights, Kembla Heights and Oak Flats. Given the proximity of these locations to public transport routes, public transport is a viable travel option for most staff, whereas for some of the staff cycling could also be considered as a viable alternative.

2.3 Active Transport Accessibility

2.3.1 Walking

The location of the Dapto HealthOne is conveniently located. The proposed centre is within 1-2 minutes' walk to public transport hubs.

2.3.2 Cycling

Dapto is connected via major arterial roads to the northern and southern suburbs which support cycling options. In addition, the proximity to the Dapto train station provides the opportunity for both staff and patient access to the centre via a cycling option. Bicycle routes within Dapto identified in the Roads and Maritime Services (RMS) Cycleway Finder are illustrated in the figure below, with the subject site indicated by the red arrow and cycleways indicated in green.

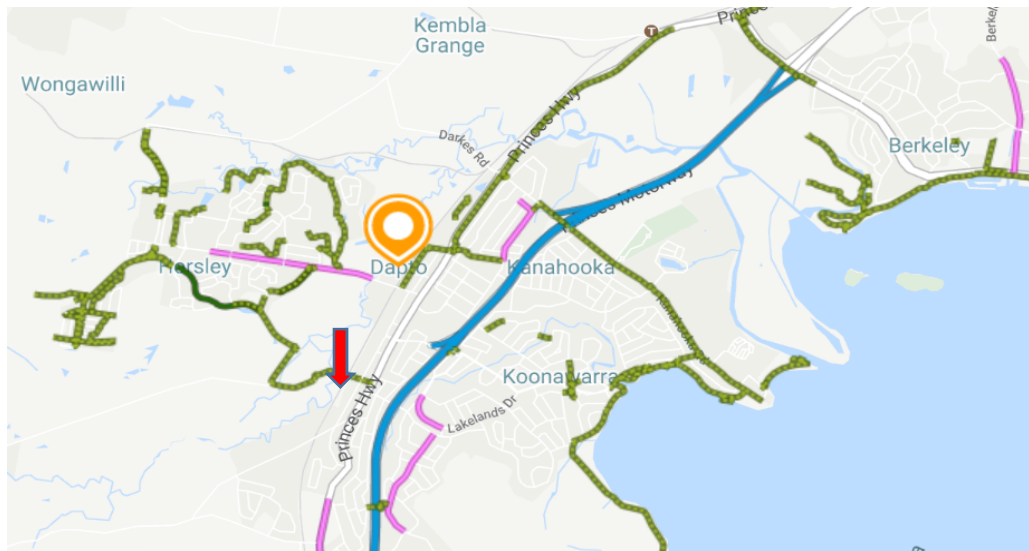


Figure 3: Cycle Network

2.4 Public Transport Accessibility

The proximity of the Dapto HealthOne to public transport hubs, train and bus support the opportunity for staff and clients to access the service via public transport means.

There is also a Taxi rank located on Bong Bong Rd which is approximately 100m from the proposed site

2.4.1 Bus

Dapto is serviced by bus services to the local and northern suburbs. During business hours, bus services regularly service the CBD, which is a 4 mins walk from the Dapto HealthOne site via pedestrian walk ways.

Route Number	Route	Peak Frequency	
		AM Peak	PM Peak
31 - 33	Wollongong to Dapto via Unanderra (Loop Service)	20 minutes	60 minutes
41	University of Wollongong to Dapto via Figtree, West Wollongong (Loop Service)	60 minutes	60 minutes
43	Port Kembla to Dapto via Warrawong, Berkeley (Loop Service)	50 minutes	60 minutes

Table 1: Available Public Bus Routes (Source: Transport NSW)

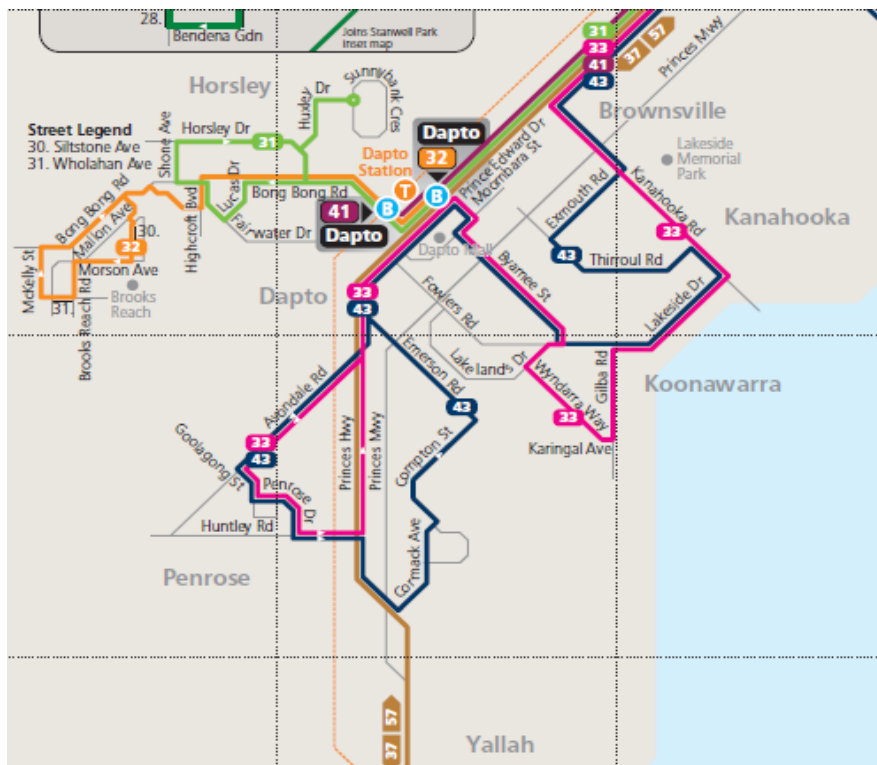


Figure 4: Bus Routes accessing the site

2.4.2 Train

The Dapto Train station is located within a 2 minute walk from the Dapto HealthOne site. Dapto is serviced by regular train services to the northern and southern suburbs.

	Route	Peak Frequency	
		AM Peak	PM Peak
SCO	Thirroul to Dapto via Wollongong Coniston, Unanderra	20 minutes	60 minutes
SCO	Kiama to Dapto via Shellharbour Junction, Oak Flats, Albion Park	30 minutes	60 minutes

Table 2: Available Public Train Routes – South Coast Line (SCO) (Source: Transport NSW)



Figure 5: Train network

3.0 Green Travel Plan Framework

3.1 Objectives

The main objectives of the GTP are to encourage travel mode behaviour change by promoting the use of more sustainable means of transport.

The more specific objectives include:

- Improved mode share for public transport, cycling, carpooling and walking to work journeys;
- Ensuring adequate facilities are provided at the proposed Dapto HealthOne to enable staff and clients to commute by sustainable transport modes;
- Facilitate the sustainable and safe travel of all staff; and
- Raise awareness of sustainable transport amongst staff and clients.

3.2 Proposed Green Travel Plan Measures

3.2.1 Green Travel Plan

Description of measure

Despite being located within a 2 minute walking distance of Dapto Train Station and having access to bus services stops along Bong Bong St and Princes Highway, only 2.1% of people working in the area currently travel by public transport. The ISLHD is committed to promoting the use of public transport for staff and clients in consideration of the operational hours of the site and the availability and accessibility of public transport. As a result, this GTP will be implemented to promote the uptake of public transport, walking and cycling by staff and clients. Strategies include:

- Develop an active travel policy at Dapto HealthOne including promotion through wellbeing programs or environmental sustainability programs

- Staff well-being committee to work together to advocate for and implement change in active transport to work options. This group could also progress local transport options and address issues as they arise.
- Local staff-based education campaigns using 'champions' to encourage active travel
- Link active travel options to health promotion or charity events such as "September" (a sponsored daily step count charity event that challenges people to take 10,000 steps a day to raise money for sufferers of Cerebral Palsy)
- Education around road rules and culture change messaging to promote to staff the viability of active transport to work. This may include promoting the health and environmental benefits, giving tips on undertaking it within lifestyle constraints and seasonal variances and capitalising on the strong recreational cycling interest to shift attitudes.
- Implementing communication strategies encouraging the use of public or shared transport, cycling and walking to work as a viable and possible option for many people. For instance, providing advice to employees on the local and extensive Uber/taxi services, Public transport initiatives across rail and bus routes providing discounted journeys to weekly and out of peak time travellers.
- Develop active travel maps to promote safer routes to walk or cycle to Dapto HealthOne facility. This will include use of direct public transport routes and improved integration with cycling.

Monitoring Mechanisms

- Engagement of the ISLHD Health Promotions Team and local managers to oversee and track implementation of the GTP;
- Obtain feedback from staff as to the effectiveness and usefulness of the GTP; and
- Surveys of staff and visitors to be conducted to understand more detailed travel patterns and trends of people travelling to and from the Dapto HealthOne.

3.2.2 Staff Induction

Description of Measure

The Dapto HealthOne will return a number of staff and services to a new site. This is an opportunity to ensure all staff are aware of the GTP and will include:

- Promotion of the GTP and the required deliverables;
- Orientation of the site and amenities which support alternate means of transport;
- Promotion of public transport options;
- Promotion of safe cycle routes in the area, including location of bicycle parking and end of trip facilities on the site;
- Public transport information, including a map showing areas served by bus;
- Carpooling initiatives and how to connect with other potential car-poolers;
- Information around the benefits (including health and financial) of active travel; and
- Promotion of the Fitness Passport.

Monitoring mechanisms

- ISLHD to maintain records of the number of staff inducted on the GTP process; and
- ISLHD to monitor the number of staff travelling to Dapto HealthOne by non-car modes through staff surveys.

3.2.3 Cycling

Description of Measure

The Dapto HealthOne will deliver 10 bicycle parking spaces for staff via a secure compound, located toward the back of the facility within the undercroft carpark. The design and installation of the bicycle rails will be in accordance with AS 2890.3.

End of trip facilities will be provided for staff, including a shower and 16 personal lockers within the staff office zone on Level 1 of the facility.

Awareness of safe cycle routes in the area around Dapto HealthOne could increase the use of cycling by staff as a mode of transport. Further strategies include:

- Events such as Sydney to Gong, national Bike Week, Bike2Works days will be used to promote cycling as a mode of transport.
- Advocate for employer salary packaging, similar to motor vehicle novated leases, whereby employees purchase bikes, associated safety and travel gear and running costs like bike services and repair costs are included.
- Supporting the use of technology such as step trackers, electric bikes which enable some to be physically active with assistance.

Monitoring Mechanisms

- ISLHD to monitor the demand for bicycle parking at Dapto HealthOne through staff survey and observations.
- ISLHD to monitor the percentage of staff cycling to Dapto HealthOne through staff survey.

3.2.4 Public Transport

Description of Measure

The 2016 Census data indicated that approximately 2.1% of staff travel to Dapto by public transport. Promoting the use of public transport given the close proximity of services to the new Dapto HealthOne represents an opportunity for staff driving long distances. Proposed measures to encourage travel by public transport include:

- Provision of maps with locations and walk distances to public transport stops and stations;
- Promote and provide information to staff and clients regarding on-demand bus services; and
- Review of wayfinding and signage between Dapto Train Station, nearby bus stops and the Dapto HealthOne, and liaise with authorities for improvements where required.

Monitoring Mechanisms

- ISLHD to monitor the percentage of staff taking public transport via staff survey

3.2.5 Carpooling

Description of Measure

There is an opportunity to promote the use of carpooling programs which could involve a poster in a prominent location within the facility, such as on the staff noticeboard. The Dapto HealthOne would also promote online services such as www.hospitalcarshare.com.au which allows staff members at a number of hospitals connect with other staff across the website to carpool. The ISLHD could actively promote carpooling as a sustainable and cost saving measure.

As an incentive for staff, the Dapto HealthOne will provide 4 carpooling spaces. This provision of dedicated parking spaces will assist staff in finding a space onsite and encourages carpooling use. To be eligible for a carpooling space at Dapto HealthOne, it is proposed that the baseline requirement would be a minimum of 3 people travelling in a single car. This measure would contribute to achieving the mode share target identified below in Section 4.

Monitoring Mechanisms

- ISLHD to monitor the usage of these spaces and carpooling system through occupancy surveys.

3.3 Summary of Monitoring Mechanisms

- Feedback from staff as to the effectiveness and usefulness of the GTP;
- Travel survey of staff and visitors to understand travel patterns and trends of people moving to and from the Dapto HealthOne;
- Recording the number of staff inducted through the updated process as a way of understanding their exposure to the GTP; and
- Monitoring the demand for bicycle parking at the Dapto HealthOne through on-site observations.

4 Mode Share Targets

The implementation of the measures identified in the GTP will encourage staff currently driving to and from the Dapto HealthOne to use more sustainable travel modes. It is estimated that with the measures put in place and with appropriate encouragement, it may be possible to achieve a mode share shift away from single-occupancy private vehicle use by 10%.

This target will be applicable to all staff.

5 Ongoing Management

While the main objective of the GTP to “educate” staff, clients and visitors to facilitate sustainable modes of travel will not change, it may be that over time specific targets are defined or re-defined.

This GTP will be reviewed regularly and updated as required. It is recommended that an annual review would be an appropriate update schedule. It is intended that the review will include an updated travel mode survey to receive feedback from staff, clients and visitors, with adjustments to initiatives and targets as required.

To ensure that the ongoing review of this Plan is carried out as expected, responsibility of this task should be allocated to a specific staff member.

6 Conclusions

The encouragement of sustainable and active transportation options is a major objective for health facilities across the NSW and is a focus of the ISLHD. The GTP has identified opportunities to reduce car dependency and encourage travel to the Dapto HealthOne through sustainable, alternative modes, by taking advantage of the close proximity of public transport options, cycling options and carpooling opportunities.

A number of measures have been proposed in this GTP to promote the alternate modes and reinforces the ISLHD’s commitment to promoting more sustainable transport options for staff.

This GTP is a framework based on a current review of existing travel networks, investigations and habits. It is anticipated that the GTP will develop and be refined over time through regular feedback and monitoring.