

**ACCESS REPORT**  
**DEVELOPMENT APPLICATION**

**3 BERITH STREET**  
**WHEELER HEIGHTS**

**HOUSING FOR SENIORS OR**  
**PEOPLE WITH A DISABILITY**

Prepared by Mark Relf

15<sup>th</sup> October 2018

# Accessibility Report for Development Application 3 BERITH STREET, WHEELER HEIGHTS

## Development Overview

The following report has been prepared on behalf the Applicant to review the “accessibility” of a development application to develop a site at 3 Berith Street, Wheeler Heights to provide new seniors housing that consists of six (6) self-care dwellings and associated communal facilities.

The development proposes the following building elements.

- **Dwelling Mix** - The development proposes 4 X 3 bedroom apartments and 2 X 2 bedroom single storey designs with basement parking.
- **Communal Amenities** - Ground level pedestrian accessways, lifts, waste storage and visitor parking.
- **Parking** – The plans indicate;
  - Eight (8) resident parking spaces with six (6) accessible spaces, one for each apartment; and
  - Two (2) visitor spaces.

## Assessment Criteria

The assessment has considered the technical design standards of the State Environment Planning Policy: Housing for Seniors or People with a Disability (hereinafter *Housing for Seniors Policy*) and the relevant provisions of the Australian Standards. In particular, this report considers whether the proposed development will provide appropriate housing accessibility and adaptability in accordance with:

- (a) Housing for Seniors Policy, Clauses 26 and 38(a) concerning access to shops, services and public transport.
- (b) Housing for Seniors Policy, Schedule 3, Clauses 2-21 and 38(a)(b) concerning the self-contained dwellings and common amenities and clause 50(f) and (h).
- (c) Table D3.1 of the Building Code of Australia (2016) and related clauses D2.17, D3.2, D3.3, D3.8, E3.6 pertaining to the common areas of the development.
- (d) Relevant aspects Australian Standard AS1428.1 (2009) – Design for Access and Mobility, AS4299 (1995) – Adaptable Housing AS2890.6 (2009) – Off Street Parking for People with Disabilities as referenced by Schedule 3 and Clause 3(1) of the Housing for Seniors Policy.
- (e) Warringah Development Control Plan

DA Documentation - The appraised documents and plans relied upon for this report include: Issue DA architectural plans prepared by architects Barry Rush and Associates.

#### 3 BERITH STREET WHEELER HEIGHTS

##### LIST OF DRAWINGS

- A01 LOCATION DIAGRAM
- A02 SITE ANALYSIS PLAN
- A03 BASEMENT PLAN
- A04 FOOTPATH PLAN
- A05 SITE / GROUND FLOOR PLAN
- A06 FIRST FLOOR PLAN
- A07 ROOF PLAN
- A08 ELEVATIONS
- A09 ELEVATION & SECTION A-A
- A10 SHADOW DIAGRAMS
- A11 EXTERNAL COLOUR SCHEDULE
- A12 DEMOLITION PLAN

## Access Assessment

### Section 1 - Access to Public Transport and Services

#### Accessible facilities and services

- 1.1 With respect to the location of the development and provision of access to shops and services the following assessment is provided having regard to clauses 26 and 38 (a) of the Housing for Seniors Policy (SEPP HS).

Clauses 26 and 38(a) sets out the following criteria for determining site suitability with respect to access to shops and services.

#### **Clause 26 - Location and access to facilities**

- (1) *A consent authority must not consent to a development application made pursuant to this Chapter unless the consent authority is satisfied, by written evidence, that residents of the proposed development will have access that complies with subclause (2) to:*

- (a) shops, bank service providers and other retail and commercial services that residents may reasonably require, and*
- (b) community services and recreation facilities, and*
- (c) the practice of a general medical practitioner.*

- (2) *Access complies with this clause if:*

- (a) the facilities and services referred to in subclause (1) are located at a distance of not more than 400 metres from the site of the proposed development that is a distance accessible by means of a suitable access pathway and the overall average gradient for the pathway is no more than 1:14, although the following gradients along the pathway are also acceptable:*

- (i) a gradient of no more than 1:12 for slopes for a maximum of 15 metres at a time,*
- (ii) a gradient of no more than 1:10 for a maximum length of 5 metres at a time,*
- (iii) a gradient of no more than 1:8 for distances of no more than 1.5 metres at a time, or*

- (2) *(b) In the case of a proposed development on land in a local government area within the Sydney Statistical Division—there is a public transport service available to the residents who will occupy the proposed development:*

- (i) that is located at a distance of not more than 400 metres from the site of the proposed development; and*
- (ii) that will take those residents to a place that is located at a distance of not more than 400 metres from the relevant facilities or services; and*
- (iii) that is available both to and from the proposed development at least once between 8am and 12pm per day and at least once between 12pm and 6pm each day from Monday to Friday (both days inclusive), and the gradient along the pathway from the site to the public transport services (and from the public transport services*

### Accessible facilities and services

to the facilities and services referred to in subclause (1) complies with subclause (3)

- (3) For the purposes of subclause (2)(b) and (c), the overall average gradient along a pathway from the site of the proposed development to the public transport services (and from the public transport services to the facilities and services referred to in subclause (1)) is to be no more than 1:14, although the following gradients along the distance are also acceptable:
- (i) a gradient of no more than 1:12 for slopes for a maximum of 15 metres at a time;
  - (ii) a gradient of no more than 1:10 for slopes for a maximum of 5 metres at a time;
  - (iii) a gradient of no more than 1:8 for slopes for a maximum of 1.5 metres at a time; or
- (4) For the purposes of subclause (2):
- (a) a **suitable access pathway** is a path of travel by means of a sealed footpath or other similar and safe means that is suitable for access by means of an electric wheelchair, motorised cart or the like, and
  - (b) distances that are specified for the purposes of that subclause are to be measured by reference to the length of any such pathway.
- (5) In this clause:
- Bank service provider** means a bank, credit union or building society or any post office that provides banking services.

### Clause 38 – Accessibility:

The proposed development should:

- (a) have obvious and safe pedestrian links from the site that provide access to public transport services and local facilities,

The following assessment has considered the above criteria and provides evidence regarding suitability of the location and surrounding environment.

### Access to shops and services – Distance & Footpath Access

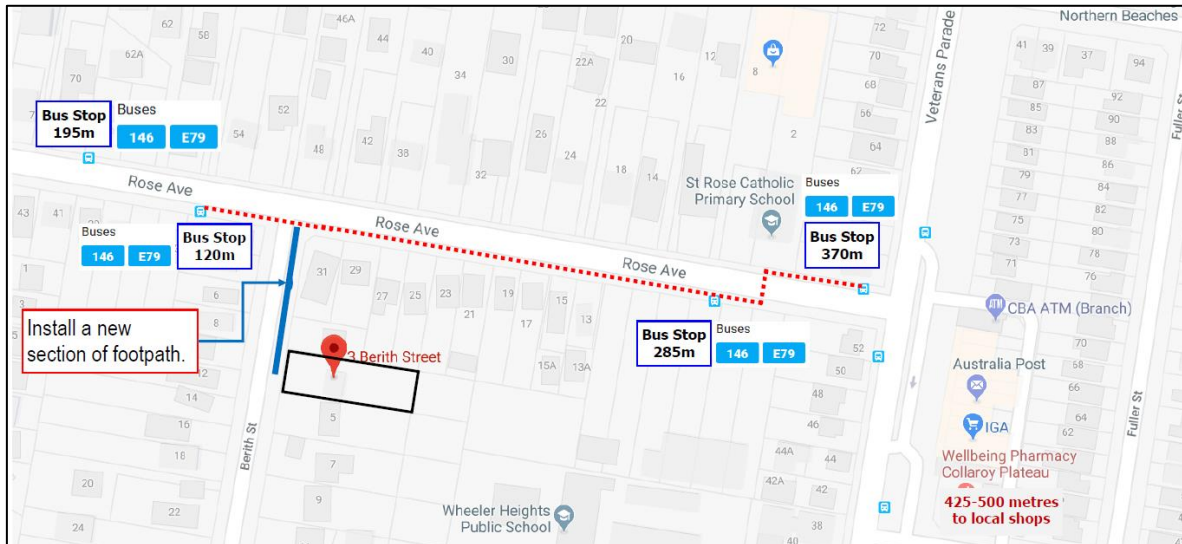
#### 1.2 Local Shopping Centre Access – The development site

on which enables a continuous accessible path of travel to and within all areas from both street frontages.

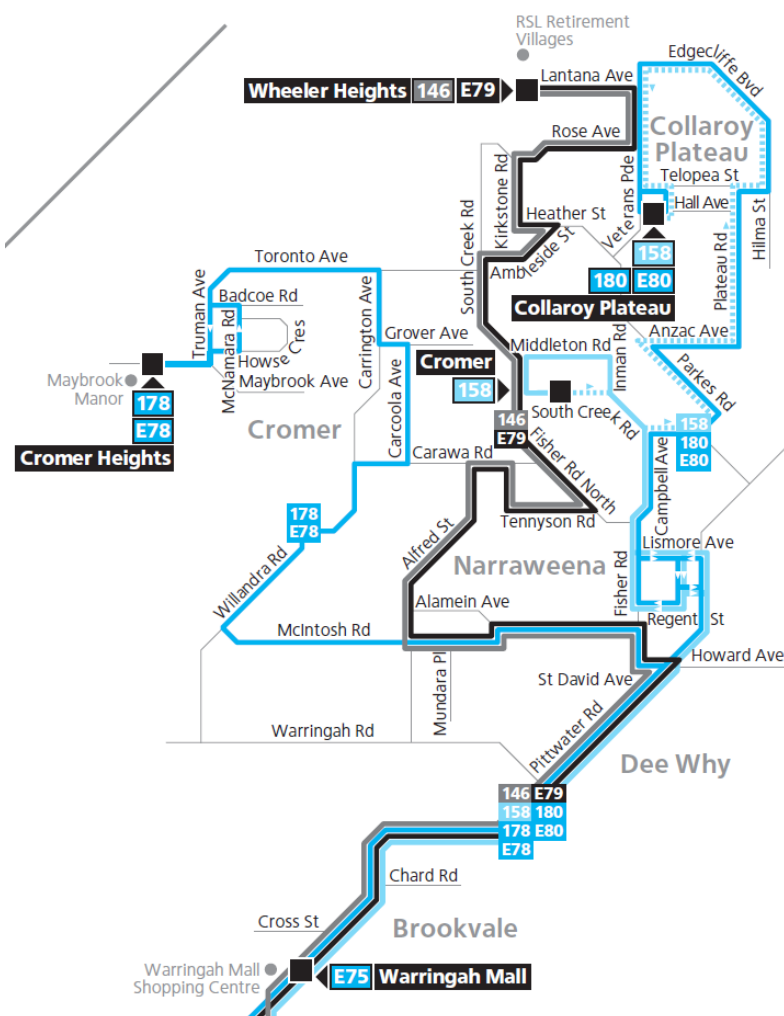
The Rose Avenue site is located;

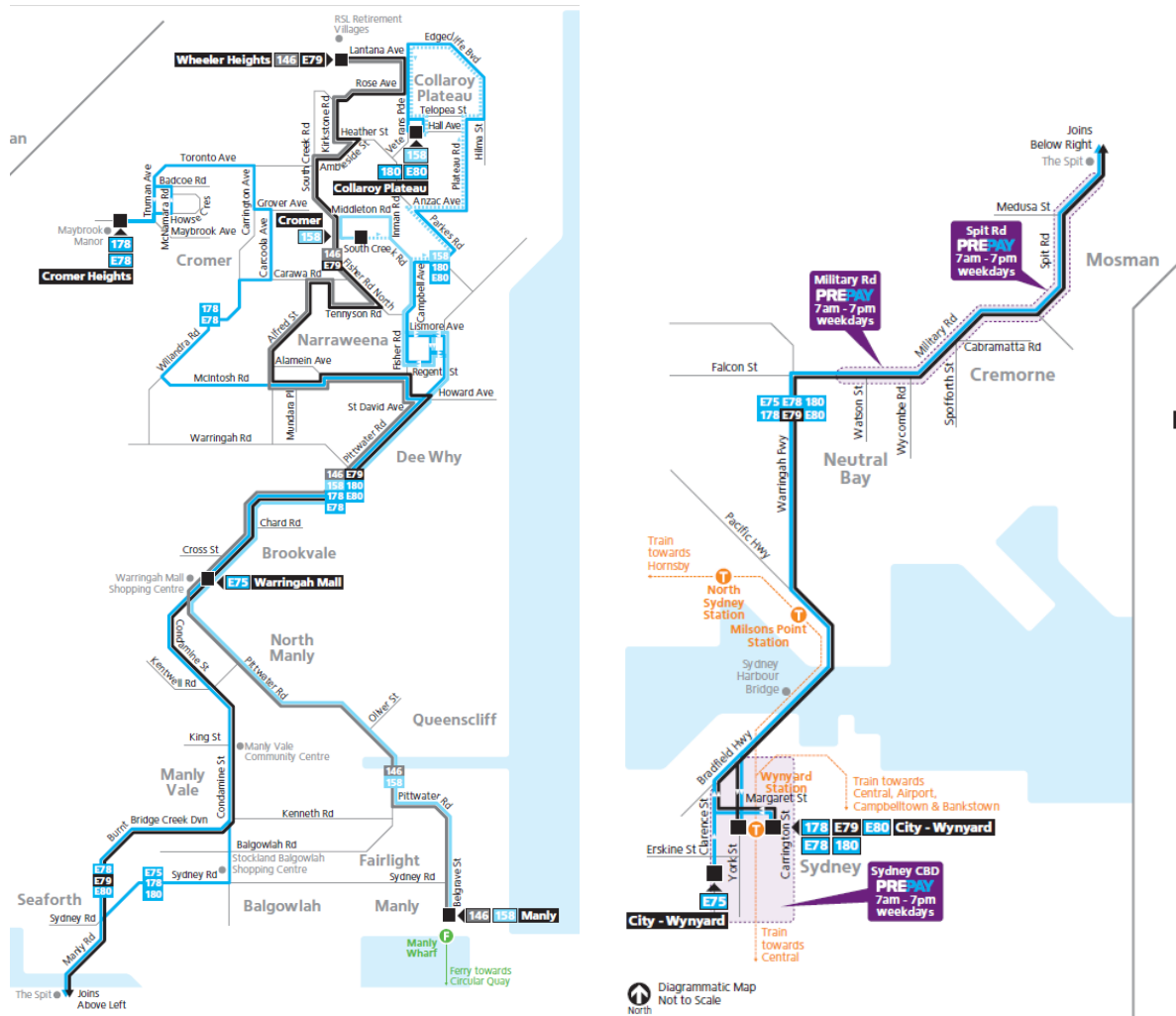
- Approximately 425 metres to the commencement of the Collaroy Plateau shopping centre; and
- 120 to 370 metres to several bus stops on Rose Avenue to access bus routes 146/E79 which travel to Dee Why, Brookvale, Warringah Mall and Military Road to Sydney City.

While the 425 metre distance to the commencement of the Collaroy Plateau shopping centre complies with the provisions of the SEPP Seniors Housing the development relies upon access to public transport services to access a wider range retail, commercial, community and recreational services at the abovementioned destinations to satisfy clause 26 of the SEPP Seniors Housing.



Location Map & Transport Services





### 1.3 Footpath Access to Bus Routes 146/E79

With respect to the footpath access from the site to the Rose Avenue bus services I noted the following observations during a site inspection.



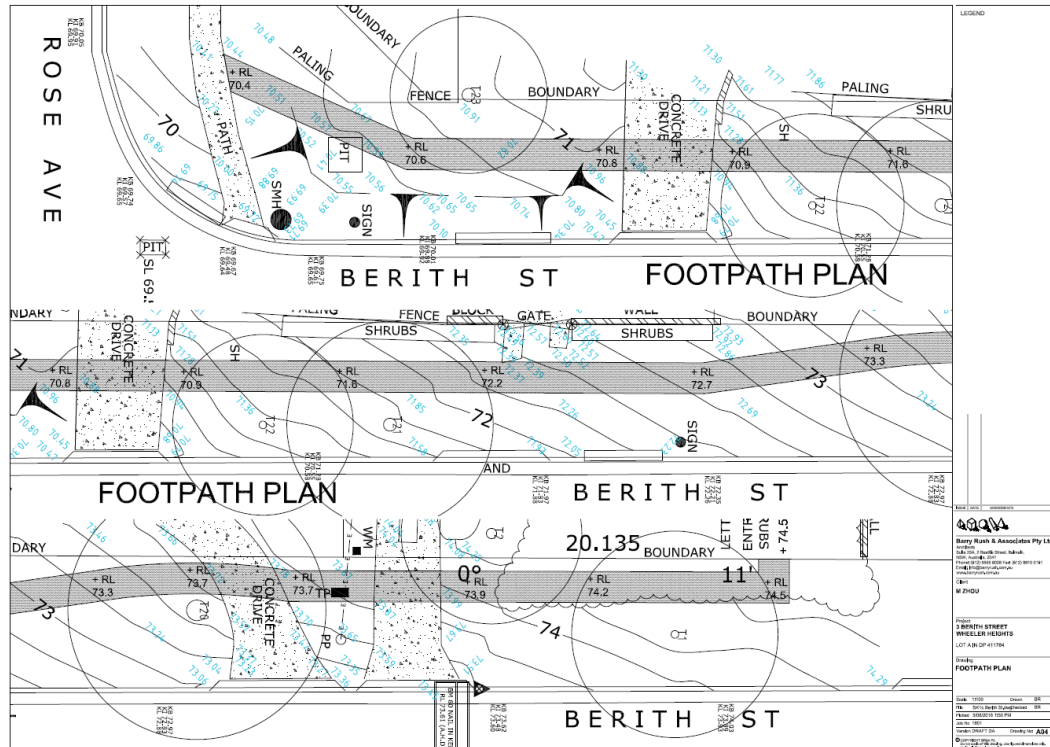
3 Berith Street Site Entrance

The pedestrian verge on Berith Street provides gradient slopes that comply with Clause 26(2) of the SEPP HS. However, to achieve appropriate pedestrian access the development will be required to install a section of footpath from the site entrance to connect with the existing footpath on the southern side of Rose Avenue which



continues to the southbound bus stop approximately 285 metres from the site, which will comply with Clauses 26(2)(4) of the SEPP HS.

1.4



Proposed footpath works to comply clause 26 of the SEPP HS

1.5



Corner of Rose Avenue and Berith Street

1.6

To ensure appropriate pedestrian safety and access Rose Avenue has a marked pedestrian crossing approximately 310 metres from the site that enables safe access to the north bound return services from Dee Why, Brookvale, Warringah Mall, Military Road and Sydney City which satisfies clauses 26(2) and 38 of the SEPP HS.

The gradients along this section of Rose Avenue also comply with Clause 26(2) of the SEPP HS.



1.7



*Rose Avenue Bus stops approximately 285 and 370 metres from the site*



1.8

Veterans Parade Access to the Collaroy Plateau Shopping Centre



1.9

While the Collaroy Plateau shopping centre is just over 400 metres from the proposed development it is noted that there is a footpath connection from Rose Avenue to Veterans Parade and along Veterans Parade providing a variable slope that approximates 1:14 to 1:16 with a 1:8 kerb ramps to cross the roadway at a marked pedestrian crossing, which is consistent with Clauses 26(2) and (4) of the SEPP HS.

1.10

#### **Bus Stop Accessibility**

The various local bus stops on Rose Avenue provide appropriate spatial access for boarding and alighting in accordance with ASI428.1 and the DDA Transport Standard to satisfy clauses 26(2) and (4) of the SEPP HS.

I.11



Rose Avenue northbound



Rose Avenue southbound

### I.12 **Summary of Footpath Upgrade Works**

It is my opinion the proposed works to install a footpath on Berith Street from the site to Rose Avenue will enable the access to public transport to fully comply with clauses 26(2) and (4) of the SEPP HS.

### I.13 **Destination Accessibility of Bus Routes 146 and E79**

The destinations of bus routes 146 and E79 at Dee Why, Brookvale, Warringah Mall, Manly Vale, Balgowlah and Military Road strip shops at Mosman, Cremorne, Neutral Bay, North Sydney and Sydney City provide a wide range of services to readily satisfy Clause 26(1) and 26(5) of the SEPP HS, exemplified by the various Banks, Pharmacies, Medical Centres, Dentists, Post Office, supermarkets, cafes, restaurants, hair salons, recreation opportunities, etc.

I.14 The abovementioned centres provide satisfactory pedestrian and wheelchair access from the bus services to various shops and services to satisfy clauses 26(2), (4) and (5) of the SEPP HS.

## **Frequency and Destinations of Bus Services**

I.15 **Bus Routes** that provide transport connections between the subject site and the abovementioned shopping centres include;

- Route 146 provides 32 outbound services daily Monday to Friday with 12 services from 06.25am to 12.00 noon and a further 20 services after 12.00 noon up to 12.00pm midnight;
- Route 146 provides 32 return services daily Monday to Friday with 12 services arriving from 12.00 noon to 6.00pm and a further 9 services up to 12.00pm midnight.
- Route E79 provides 8 outbound services daily Monday to Friday from 06.11am to 08.10 and 10 return services daily Monday to Friday arriving 17.20 to 20.30pm.

The 146 timetable also indicates; 31 services on Saturday and Sunday that travel the same routes and destinations.

- I.16 The timetables also confirm that the abovementioned bus routes provide services on Saturday and Sunday to ensure a comprehensive array of public transport.

A small sample of the timetable is attached at Appendix B of this report to illustrate the above frequencies.

Overall, the abovementioned services provide an appropriate range of services and choice of destinations to access a wide range of shops and services to satisfy clause 26 (2)(a) and (b) of the SEPP HS.

<b>Summary of Access to Services, Bus Stops and Bus Services</b>
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- I.17 In summary it is evident that;

- That the development can provide appropriate pedestrian and wheelchair access to public transport in accordance with clause 26(2)(3)(4) of the SEPP HS, subject to the installation of a footpath connection on Berith Street from the subject site to the existing footpath on Rose Avenue as articulated above.
- The available bus services provided by Bus Routes 146 and E79 to Dee Why, Brookvale, Warringah Mall, Manly Vale, Balgowlah and Military Road strip shops at Mosman, Cremorne, Neutral Bay, North Sydney and Sydney City in conjunction with the abovementioned pedestrian infrastructure, will provide appropriate access to services in a manner consistent with clause 26(2)(b) of the SEPP HS.
- The 146 and E79 bus routes destination shopping centres and services at Dee Why, Brookvale, Warringah Mall, Manly Vale, Balgowlah and Military Road strip shops at Mosman, Cremorne, Neutral Bay, North Sydney and Sydney City provide a comprehensive range of services to readily satisfy Clause 26(1) and 26(5) of the SEPP HS.



## Section 2 - Development Standards - Self-Contained Dwellings

This section provides an accessibility review of the self-contained dwellings and common amenities in accordance with the requirements of;

- Part D3 of the Building Code of Australia (BCA).
- Housing for Seniors Policy, Schedule 3, Clauses 2-21 and 38(a)(b) concerning the self-contained dwellings and common amenities and clause 50(f) and (h).
- Relevant aspects Australian Standard AS1428.1 (2009) – Design for Access and Mobility, AS4299 (1995) – Adaptable Housing and AS2890.6 (2009) – Off Street Parking for People with Disabilities as referenced by Schedule 3 and Clause 3(1) of the Housing for Seniors Policy.
- Seniors Living Urban Design Guideline and Clause 31.

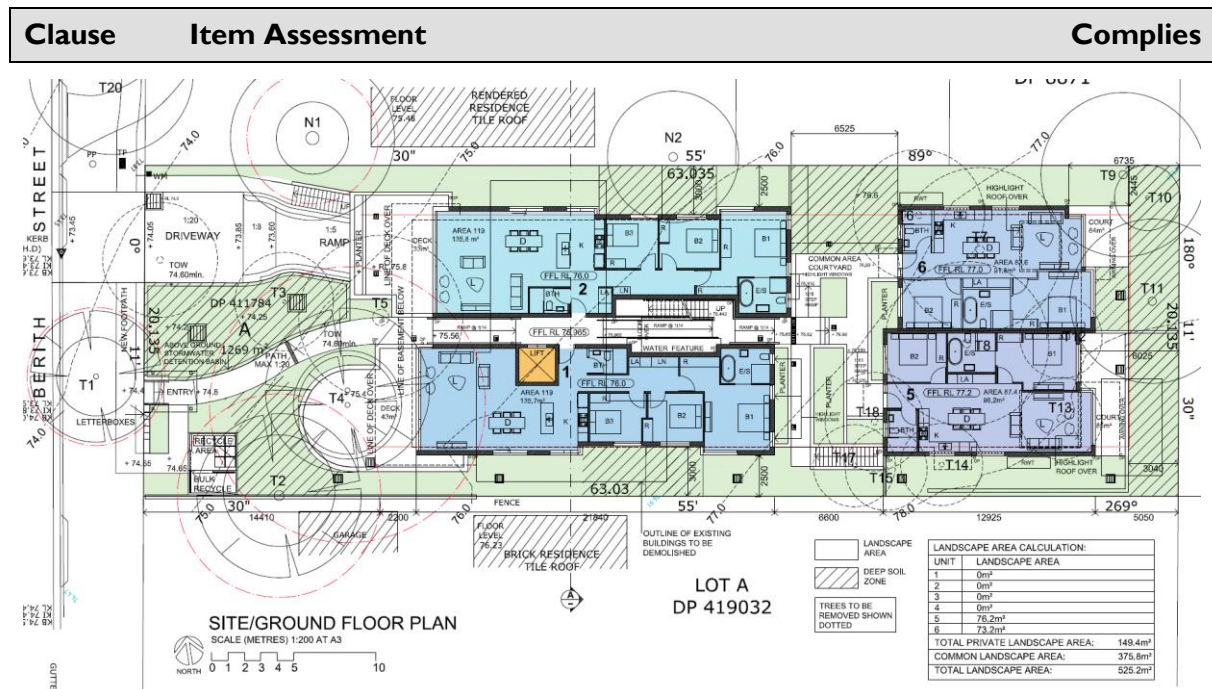


Table D3.1  
& Part D3.2  
of the BCA

### Site Entry Access

The principal site entrance on Berith Street provides a 1:20 walkway from the front boundary along a common accessway to the front building which incorporates 1:14 ramps and 1:10 step ramps to access dwelling entrances and the lift at the ground floor level in accordance with AS1428.1 to satisfy Part D3.2 of the BCA and clause 2 of the Seniors Housing Policy.

The layout of the 1600mm width walkway and lift landing will inherently provide Turning Areas in accordance with AS1428.1 to satisfy Parts D3.2 and D3.3 of the BCA.

Several T-junctions in the pathways will also facilitate Passing while a 1800mm width X 2000mm length passing area can be included at RL75.50 to comply with Parts D3.2 and D3.3 of the BCA.

Clause	Item Assessment	Complies
Table D3.1 & Part D3.3 of the BCA	<b>First Floor Access</b>  While the lift provides equitable access to the first floor the 1600mm width walkway and lift landing will inherently provide appropriate access to apartment doorways, including level thresholds and Turning Areas in accordance with AS1428.1 to satisfy Part D3.3 of the BCA.	YES
Schedule 3, Clause 2(1)(2)	<b>Site Access – Wheelchair Access</b>  The development proposes an accessible principal pedestrian entrance and intrasite walkways that enable wheelchair access to all dwellings, the lift and incorporate doorway landings with appropriate circulation spaces and accessible thresholds that comply with AS1428.1 to enter the dwellings and satisfy the SEPP HS.	YES
Clause 31 & Seniors Urban Design Guideline	<b>Internal Site Amenity</b>  <b>Pedestrian Accessways</b>  The development provides on-grade pedestrian walkways that have no interface with vehicle movements at the ground plane to enable appropriate safe access for older people and people with disabilities consistent with the Guideline objectives.  <b>Communal Open Space</b>  The communal open spaces for resident access along the common walkways generally satisfies the Urban Design Guideline and D3.3 of the BCA.	YES  YES
Parts D3.3, D2.14 and D3.8 of the BCA	<b>Common Stairways &amp; Ramps</b>  The plans show several common stairways and ramps that will be detailed to provide handrails on both sides and with extensions at landings for safer access and luminance contrasting stair nosings in accordance with AS1428.1 to satisfy Part D3.3 and D2.14 of the BCA.  The stairways can be appropriately set back 600mm from transverse accessways to allow the installation of tactile indicators which will be confirmed at the construction certificate stage.	YES Can Comply





Clause	Item Assessment	Complies
Design Guideline	safe pedestrian access while the provision of at least one (1) accessible resident parking space for every dwelling provides an appropriate outcome consistent with the SEPP HS and Urban Design Guideline.	
	Visitor Parking – The development provides two (2) visitor parking spaces to satisfy the objectives of clause 38(b) and the Urban Design Guideline.	YES
Schedule 3 Clause 6	<b>Accessible entry</b> – The plans confirm that the entry doorway landings for each dwelling provide 1550mm X 1550mm minimum circulation space with 530mm minimum latch side clearance in accordance with AS4299.	YES
	The internal foyer areas also provide at least 1650mm X 1550mm circulation space with the required 530mm latch side clearance in accordance with AS4299 and the Housing for Seniors Policy.	YES
	Details of 920mm entry doors and lever door handles can be confirmed at construction documentation stage.	Can Comply
Schedule 3 Clause 7	<b>Interior: general</b> – The plans show that all internal corridors on the accessible ground floor areas shall be 1240mm minimum width to facilitate side-on doorway circulation spaces in accordance with Figure 31(a)(b) of AS1428.1 to satisfy clause 7 of schedule 3.	YES
	Where front-on approaches to doorways is provided then the doorway circulation space shall provide at least 1600mm width with 530mm minimum latch side clearance in accordance with Figure 31(d)(h) of AS1428.1 to satisfy clause 7 of schedule 3.	
Schedule 3 Clause 8	<b>Main bedroom</b> – The plans show a main bedroom on the accessible entry level that provides an area large enough to accommodate a queen sized bed with the required circulation spaces to enter/exit the room or access the ensuite in accordance with AS1428.1.	YES
	Generally, the main bedrooms provide 1200mm minimum clearance at the foot of a queen bed and 1000mm minimum on each side with doorway access to the robe, ensuite and exit from the room that comply with AS1428.1.	
Schedule 3 Clause 9	<b>Bathroom</b> – The plans show a bathroom on the accessible entry level of each dwelling that will provide at least 3100mm X 2300mm with a layout that can comply with AS4299/1428.1 and the provisions of the SEPP HS in the following manner:	YES
	<ul style="list-style-type: none"> <li>▪ Toilet in a recessed corner to enable retrofitting of grabrails and provide 1250mm clearance in front of the pan,</li> </ul>	YES at CC stage

Clause	Item Assessment	Complies
	<ul style="list-style-type: none"> <li>Vanity washbasin that will have plumbing that can be adapted to comply with A1428.1.</li> </ul>	YES at CC stage
	<ul style="list-style-type: none"> <li>1600mm X 1100mm minimum shower area with 1250mm X 1600mm minimum circulation area and a removable screen that can accommodate a grabrail, folding seat and portable shower head to comply with AS1428.1.</li> </ul>	YES at CC stage
	<ul style="list-style-type: none"> <li>Wall cabinet and mirror with an adjoining power outlet 600-1100mm height above the floor in accordance with AS4299.</li> </ul>	YES at CC stage
Schedule 3 Clause 10	<b>Toilet</b> – The plans show a toilet on the accessible entry level of every dwelling that provides a toilet pan in the corner of a room to enable future grabrails and provide at least 1250mm X 900mm clearance in front of the pan with no inward swing door encroachment that complies with AS4299 to satisfy the SEPP HS.	YES
Schedule 3 Clause 11	<b>Surface finishes</b> – Details regarding paving finishes in accordance with the Housing for Seniors Policy, can be provided at construction certificate stage to comply with this requirement.	Can Comply
Schedule 3 Clause 12	<b>Doors</b> – Details regarding doors and door handles complying with the Housing for Seniors Policy and AS1428.1 can be provided at construction certificate stage to comply with this requirement.	Can Comply
Schedule 3 Clause 13	<b>Ancillary items</b> – Details regarding installation of switches, power points complying with the Housing for Seniors Policy can be provided at construction certificate stage.	Can Comply
Schedule 3 Clause 15	<b>Living and Dining rooms</b> – The combined living and dining areas indicate that the circulation spaces comply with this clause. See Private Open Space Cls 50(f) regarding doorway thresholds.	YES
Schedule 3 Clause 16	<p><b>Kitchen</b> – The plans indicate the floor area and general kitchen layout will comply with this clause by providing 1550mm minimum width circulation space between kitchen cupboards. The plans also show an area to accommodate a wall oven, hotplate, sink and fridge in accessible positions as required by sub paragraphs (a), (c) and (g).</p> <p>Details regarding other aspects of adjustable cupboards and fitments as per the requirements of sub-paragraphs (d) to (j) which will be provided at construction certificate stage to satisfy the Housing for Seniors Policy.</p>	<p>YES</p> <p>At CC stage</p>
Schedule 3 Clause 17	<b>Access to kitchen, main bedroom, bathroom and toilet</b> – The development proposes a lift to access all levels and the single level apartments inherently comply with this clause.	YES
Schedule 3 Clause 18	<b>Lifts in Multi-Storey Buildings</b> – The common lift within the development will provide a 1100mm X 1400mm minimum lift car and	YES

Clause	Item Assessment	Complies
	facilitate direct access to all three levels to comply with the SEPP HS and Table D3.1 of the BCA.	
Schedule 3 Clause 19	<b>Laundry</b> – The laundry facilities provide closets adjoining the corridor which have appropriate circulation spaces that comply with the SEPP HS including an area for a washing machine, basin and drier.  Details regarding slip resistant floors, level thresholds to the clotheslines and door sizes and handles can be provided at construction certificate stage to comply with this clause.	YES  Can Comply
Schedule 3 Clause 20	<b>Storage</b> – The plans indicate that all units shall have a storage / linen cupboard adjoining the hallway or within a study.	YES
Schedule 3 Clause 21	<b>Garbage</b> – With respect to waste management the development proposes the outdoor bin store area in an accessible area with 1550 X 1550 circulation space adjacent to all bins to enable wheelchair access to satisfy the SEPP HS.	YES
Cls 50 (f)	<b>Private Open Space</b> - The plans indicate that there are terraces/courtyards for all ground floor self-contained dwellings providing private open space to meet the requirements of at least 15M <sup>2</sup> with one area adjoining the living room that is at least 3.0 X 3.0 metres to readily comply with the SEPP HS.  The first floor apartments propose 2000mm minimum width balconies that exceed 10 sqm to readily comply with the SEPP HS.  Details the doors and doorway thresholds can be confirmed at a later date in accordance with ASI 428.1 to satisfy clause 50(f) of the SEPP HS.	YES  YES

## Conclusion

Following a review of the plans and documentation it is my opinion that the proposed development complies with the accessibility and adaptability requirements of the State Environment Planning Policy - Housing for Seniors or People with a Disability in the following manner;

- The development demonstrates compliance with the minimum requirements of visitability by virtue of 100% of the self contained dwellings that will have wheelchair accessible pathways from an adjoining road or internal road as required by schedule 3 clause 2(2); and
- Accessibility of the self-contained dwellings (100%) and compliance with the design standards of schedule 3; and
- Provision of communal amenities that will be wheelchair accessible and benefit the lifestyle of future residents also demonstrate compliance with ASI 428 and clauses 38(b), schedule 3 clause 2(3); and
- Provision of well designed parking for residents and visitors in accordance with schedule 3 clause 5, clause 50(h) and 38(b); and

- Provision of appropriate access to public transport to access an appropriate range of shops and services to comply with clauses 26 and 38 of the SEPP HS, subject to the footpath installation on Berith Street as listed within the report.



Mark Relf  
Access Consultant (ACAA)

## Appendix A – Statement of Expertise

### CONSULTANCY PROFILE & STATEMENT OF EXPERTISE

Accessibility Solutions consultancy offers a range of services to provide advice for clients to develop new and modify existing buildings, facilities and services to be accessible to people with disabilities to comply with legislation and regulations relevant to people with disabilities.

Relevant legislation and regulations that underpins advice includes the Disability Discrimination Act (DDA) Building Code of Australia, Australian Standards 1428, DDA Premises Standards, DDA Transport Standard, State Environment Planning Policy Housing for Seniors or People With a Disability (SEPP HS) / Seniors Living Policy, SEPP 65 – Apartment Design Guide and various local government Development Control Plans.

The scope of services provided by Accessibility Solutions includes:

- Plan Appraisals and design advice
- Access Reports for development applications and construction certificates
- Expert Reports for Court evidence
- Access Auditing of existing buildings, facilities, transport conveyances and infrastructure
- Policy and document reviews and development of Disability Action Plans
- Staff training in access auditing

The services consider issues concerning people with all types of disability including; physical; vision; hearing, intellectual and other cognitive impairments that may affect access for people with a disability consistent with the Disability Discrimination Act.

As principal consultant Mark Relf has considerable experience and expertise in a wide range of access related projects and is an accredited member of the Association of Consultants in Access Australia for the purposes of providing advice concerning access to the built environment and services for people with disabilities.

His expertise has been gained over 20 years working in management and advocacy roles within the disability sector and since 1994 providing advice to clients on access issues. Mark also participates on various key committees concerning access for people with disabilities. His qualifications and affiliations are:

- Accredited Member of the Association of Consultants in Access Australia.
- Member, Standards Australia ME/64 Committee responsible for the AS1428 suite and AS4299 – Adaptable Housing.



## Appendix B – Bus Timetable Sample

Departing the site Monday to Sunday (Return services arriving on Rose Avenue provide the same frequencies)

# 146

## Wheeler Heights to Manly



<b>Monday to Friday</b>										
RSL ANZAC Village, Lakeshore Dr, Narrabeen	06:20	06:45	07:15	07:45	08:15	08:44	09:18	09:49	10:20	
South Creek Rd opp Toronto Ave, Wheeler Heights	06:25	06:53	07:23	07:53	08:23	08:52	09:25	09:56	10:26	
Alfred St at Alamein Ave, Narrabeena	06:34	07:03	07:34	08:04	08:33	09:02	09:34	10:05	10:35	
Dee Why Shops, Pittwater Rd, Dee Why	06:39	07:08	07:39	08:09	08:39	09:10	09:40	10:11	10:41	
Pittwater Rd after Chard Rd, Brookvale	06:45	07:14	07:47	08:17	08:47	09:18	09:48	10:18	10:48	
Warringah Mall, Pittwater Rd, Brookvale	06:47	07:16	07:50	08:20	08:50	09:21	09:51	10:21	10:51	
Manly Wharf Stand J, Manly	06:58	07:27	08:03	08:33	09:03	09:33	10:03	10:33	11:03	
<b>Monday to Friday</b>										
RSL ANZAC Village, Lakeshore Dr, Narrabeen	10:50	11:20	11:50	12:20	12:50	13:20	13:50	14:20	14:48	
South Creek Rd opp Toronto Ave, Wheeler Heights	10:56	11:26	11:56	12:26	12:56	13:26	13:56	14:26	14:54	
Alfred St at Alamein Ave, Narrabeena	11:05	11:34	12:04	12:34	13:04	13:34	14:04	14:34	15:02	
Dee Why Shops, Pittwater Rd, Dee Why	11:11	11:40	12:10	12:40	13:10	13:40	14:10	14:40	15:09	
Pittwater Rd after Chard Rd, Brookvale	11:18	11:47	12:17	12:47	13:17	13:47	14:17	14:47	15:16	
Warringah Mall, Pittwater Rd, Brookvale	11:21	11:50	12:20	12:50	13:20	13:50	14:20	14:50	15:19	
Manly Wharf Stand J, Manly	11:33	12:02	12:32	13:02	13:32	14:02	14:32	15:02	15:33	
<b>Monday to Friday</b>										
RSL ANZAC Village, Lakeshore Dr, Narrabeen	15:17	15:47	16:17	16:47	17:17	17:47	18:20	18:51	19:21	
South Creek Rd opp Toronto Ave, Wheeler Heights	15:24	15:54	16:24	16:54	17:24	17:54	18:27	18:58	19:28	
Alfred St at Alamein Ave, Narrabeena	15:32	16:02	16:32	17:02	17:32	18:02	18:35	19:06	19:36	
Dee Why Shops, Pittwater Rd, Dee Why	15:39	16:09	16:39	17:09	17:39	18:09	18:40	19:11	19:41	
Pittwater Rd after Chard Rd, Brookvale	15:46	16:16	16:46	17:16	17:46	18:15	18:46	19:17	19:47	
Warringah Mall, Pittwater Rd, Brookvale	15:49	16:19	16:49	17:19	17:49	18:18	18:49	19:19	19:49	
Manly Wharf Stand J, Manly	16:03	16:33	17:03	17:33	18:03	18:29	19:00	19:30	20:00	
<b>Monday to Friday</b>										
RSL ANZAC Village, Lakeshore Dr, Narrabeen	20:22	21:22	22:19	23:19	00:19					
South Creek Rd opp Toronto Ave, Wheeler Heights	20:28	21:28	22:25	23:25	00:24					
Alfred St at Alamein Ave, Narrabeena	20:36	21:36	22:33	23:33	00:32					
Dee Why Shops, Pittwater Rd, Dee Why	20:39	21:39	22:36	23:36	00:35					
Pittwater Rd after Chard Rd, Brookvale	20:43	21:43	22:40	23:40	00:39					
Warringah Mall, Pittwater Rd, Brookvale	20:45	21:45	22:42	23:42	00:41					
Manly Wharf Stand J, Manly	20:55	21:55	22:50	23:50	-					
<b>Saturday</b>										
RSL ANZAC Village, Lakeshore Dr, Narrabeen	06:33	07:03	08:18	08:51	09:23	09:50	10:22	10:53	11:23	
South Creek Rd opp Toronto Ave, Wheeler Heights	06:39	07:09	08:25	08:58	09:30	09:57	10:29	11:00	11:30	
Alfred St at Alamein Ave, Narrabeena	06:45	07:15	08:33	09:06	09:38	10:06	10:38	11:09	11:39	
Dee Why Shops, Pittwater Rd, Dee Why	06:49	07:19	08:38	09:11	09:43	10:13	10:45	11:16	11:45	
Pittwater Rd after Chard Rd, Brookvale	06:54	07:24	08:44	09:17	09:49	10:19	10:53	11:24	11:53	
Warringah Mall, Pittwater Rd, Brookvale	06:56	07:26	08:46	09:19	09:51	10:21	10:55	11:26	11:55	
Manly Wharf Stand J, Manly	07:06	07:36	08:57	09:31	10:03	10:33	11:08	11:39	12:08	
<b>Saturday</b>										
RSL ANZAC Village, Lakeshore Dr, Narrabeen	11:54	12:24	12:51	13:22	13:50	14:20	14:51	15:21	15:51	
South Creek Rd opp Toronto Ave, Wheeler Heights	12:01	12:30	12:57	13:28	13:56	14:26	14:57	15:27	15:57	
Alfred St at Alamein Ave, Narrabeena	12:09	12:38	13:05	13:36	14:04	14:34	15:05	15:35	16:05	
Dee Why Shops, Pittwater Rd, Dee Why	12:15	12:44	13:11	13:42	14:10	14:40	15:10	15:40	16:10	
Pittwater Rd after Chard Rd, Brookvale	12:21	12:50	13:17	13:48	14:16	14:46	15:16	15:46	16:16	
Warringah Mall, Pittwater Rd, Brookvale	12:23	12:52	13:19	13:50	14:18	14:48	15:18	15:48	16:18	
Manly Wharf Stand J, Manly	12:36	13:05	13:32	14:03	14:31	15:01	15:31	16:01	16:31	



**146****Wheeler Heights to Manly**

<b>Saturday</b>									
RSL ANZAC Village, Lakeshore Dr, Narrabeen	16:21	16:51	17:21	17:51	18:21	18:50	19:03	20:01	20:52
South Creek Rd opp Toronto Ave, Wheeler Heights	16:27	16:57	17:27	17:57	18:27	18:56	19:09	20:07	20:58
Alfred St at Alamein Ave, Narrabeena	16:35	17:05	17:35	18:05	18:34	19:03	19:16	20:14	21:05
Dee Why Shops, Pittwater Rd, Dee Why	16:40	17:10	17:40	18:10	18:39	19:07	19:20	20:18	21:09
Pittwater Rd after Chard Rd, Brookvale	16:46	17:16	17:46	18:16	18:44	19:12	19:25	20:23	21:14
Warringah Mall, Pittwater Rd, Brookvale	16:48	17:18	17:48	18:18	18:46	19:14	19:27	20:25	21:16
Manly Wharf Stand J, Manly	17:01	17:31	18:01	18:31	18:57	19:25	19:38	20:35	21:26
<b>Saturday</b>									
RSL ANZAC Village, Lakeshore Dr, Narrabeen	21:52	22:52							
South Creek Rd opp Toronto Ave, Wheeler Heights	21:58	22:58							
Alfred St at Alamein Ave, Narrabeena	22:05	23:05							
Dee Why Shops, Pittwater Rd, Dee Why	22:09	23:09							
Pittwater Rd after Chard Rd, Brookvale	22:14	23:14							
Warringah Mall, Pittwater Rd, Brookvale	22:16	23:16							
Manly Wharf Stand J, Manly	22:26	23:26							
<b>Sunday &amp; Public Holidays</b>									
RSL ANZAC Village, Lakeshore Dr, Narrabeen	06:32	07:03	08:16	08:51	09:23	09:52	10:22	10:52	11:21
South Creek Rd opp Toronto Ave, Wheeler Heights	06:39	07:10	08:23	08:58	09:30	09:59	10:29	10:59	11:28
Alfred St at Alamein Ave, Narrabeena	06:46	07:17	08:30	09:06	09:38	10:07	10:37	11:07	11:36
Dee Why Shops, Pittwater Rd, Dee Why	06:51	07:22	08:35	09:11	09:44	10:13	10:43	11:13	11:42
Pittwater Rd after Chard Rd, Brookvale	06:55	07:26	08:39	09:15	09:50	10:19	10:49	11:19	11:48
Warringah Mall, Pittwater Rd, Brookvale	06:57	07:28	08:41	09:17	09:52	10:21	10:52	11:22	11:51
Manly Wharf Stand J, Manly	07:06	07:37	08:52	09:29	10:04	10:33	11:04	11:34	12:02
<b>Sunday &amp; Public Holidays</b>									
RSL ANZAC Village, Lakeshore Dr, Narrabeen	11:50	12:20	12:50	13:20	13:50	14:20	14:51	15:21	15:51
South Creek Rd opp Toronto Ave, Wheeler Heights	11:57	12:27	12:57	13:27	13:57	14:27	14:57	15:27	15:57
Alfred St at Alamein Ave, Narrabeena	12:05	12:35	13:05	13:35	14:05	14:35	15:05	15:35	16:05
Dee Why Shops, Pittwater Rd, Dee Why	12:11	12:41	13:11	13:41	14:11	14:41	15:11	15:41	16:11
Pittwater Rd after Chard Rd, Brookvale	12:17	12:47	13:17	13:47	14:17	14:47	15:17	15:47	16:17
Warringah Mall, Pittwater Rd, Brookvale	12:20	12:50	13:20	13:50	14:20	14:50	15:20	15:50	16:20
Manly Wharf Stand J, Manly	12:31	13:01	13:31	14:01	14:31	15:01	15:31	16:02	16:32
<b>Sunday &amp; Public Holidays</b>									
RSL ANZAC Village, Lakeshore Dr, Narrabeen	16:21	16:51	17:21	17:51	18:18	18:43	19:11	19:56	20:47
South Creek Rd opp Toronto Ave, Wheeler Heights	16:27	16:57	17:27	17:57	18:24	18:49	19:17	20:02	20:53
Alfred St at Alamein Ave, Narrabeena	16:35	17:05	17:35	18:05	18:32	18:57	19:25	20:09	21:00
Dee Why Shops, Pittwater Rd, Dee Why	16:41	17:11	17:41	18:11	18:38	19:03	19:31	20:14	21:05
Pittwater Rd after Chard Rd, Brookvale	16:47	17:17	17:47	18:16	18:42	19:07	19:35	20:18	21:08
Warringah Mall, Pittwater Rd, Brookvale	16:50	17:20	17:50	18:18	18:44	19:09	19:37	20:20	21:10
Manly Wharf Stand J, Manly	17:02	17:32	18:02	18:30	18:54	19:19	19:47	20:30	21:19
<b>Sunday &amp; Public Holidays</b>									
RSL ANZAC Village, Lakeshore Dr, Narrabeen	21:47	22:47							
South Creek Rd opp Toronto Ave, Wheeler Heights	21:53	22:53							
Alfred St at Alamein Ave, Narrabeena	22:00	23:00							
Dee Why Shops, Pittwater Rd, Dee Why	22:05	23:05							
Pittwater Rd after Chard Rd, Brookvale	22:08	23:08							
Warringah Mall, Pittwater Rd, Brookvale	22:10	23:10							
Manly Wharf Stand J, Manly	22:19	23:17							

**E79****Wheeler Heights to City Wynyard  
(Express Service)**

Monday to Friday								
RSL ANZAC Village, Lakeshore Dr, Narrabeen	06:06	06:36	06:51	07:04	07:19	07:34	07:49	08:04
South Creek Rd opp Toronto Ave, Wheeler Heights	06:13	06:43	06:58	07:11	07:26	07:41	07:56	08:11
Alfred St at Alamein Ave, Narrabeena	06:22	06:52	07:07	07:20	07:35	07:50	08:06	08:21
Dee Why B-Line, Dee Why	06:27	06:57	07:12	07:27	07:42	07:57	08:13	08:28
Pittwater Rd after Chard Rd, Brookvale	06:33	07:03	07:18	07:34	07:49	08:05	08:21	08:36
Warringah Mall, Pittwater Rd, Brookvale	06:35	07:05	07:20	07:37	07:52	08:08	08:24	08:39
Manly Vale B-Line, Manly Vale	06:38	07:09	07:25	07:42	07:57	08:13	08:29	08:44
Military Rd before Cabramatta Rd, Cremorne	06:52	07:31	07:47	08:04	08:19	08:33	08:44	08:59
Military Rd near Watson St, Neutral Bay	06:55	07:35	07:51	08:10	08:25	08:39	08:50	09:03
Wynyard Station	07:01	07:42	07:58	08:20	08:35	08:49	08:58	09:11

**E79****City Wynyard to Wheeler Heights  
(Express Service)**

Valid from: 15 Oct 2018

Creation date: 17 Oct 2018

NOTE: Information is correct on date of download.

Monday to Friday									
Wynyard Station, Carrington St, Sydney	16:20	16:40	17:00	17:20	17:40	18:00	18:20	18:40	19:10
Military Rd opp Watson St, Neutral Bay	16:30	16:50	17:10	17:34	17:54	18:12	18:32	18:50	19:19
Military Rd opp Cabramatta Rd, Cremorne	16:34	16:54	17:14	17:38	17:58	18:16	18:36	18:54	19:22
Manly Vale B-Line, Manly Vale	16:46	17:06	17:29	17:53	18:13	18:31	18:51	19:09	19:34
Warringah Mall, Pittwater Rd, Brookvale	16:50	17:10	17:34	17:58	18:18	18:35	18:55	19:13	19:38
Pittwater Rd at Old Pittwater Rd, Brookvale	16:53	17:13	17:37	18:01	18:21	18:38	18:58	19:16	19:40
Dee Why B-Line, Dee Why	17:00	17:20	17:44	18:08	18:28	18:44	19:04	19:22	19:45
McIntosh Rd near Mundara Pl, Narrabeena	17:05	17:25	17:49	18:13	18:33	18:49	19:08	19:26	19:49
South Creek Rd after Toronto Ave, Wheeler Heights	17:15	17:35	17:59	18:22	18:42	18:58	19:15	19:33	19:56
RSL ANZAC Village, Lakeshore Dr, Narrabeen	17:21	17:41	18:05	18:28	18:48	19:04	19:21	19:38	20:01
Monday to Friday									
Wynyard Station, Carrington St, Sydney	19:40								
Military Rd opp Watson St, Neutral Bay	19:49								
Military Rd opp Cabramatta Rd, Cremorne	19:52								
Manly Vale B-Line, Manly Vale	20:04								
Warringah Mall, Pittwater Rd, Brookvale	20:08								
Pittwater Rd at Old Pittwater Rd, Brookvale	20:10								
Dee Why B-Line, Dee Why	20:15								
McIntosh Rd near Mundara Pl, Narrabeena	20:19								
South Creek Rd after Toronto Ave, Wheeler Heights	20:26								
RSL ANZAC Village, Lakeshore Dr, Narrabeen	20:31								