Construction Traffic Management Plan

351-353 Barrenjoey Road, Newport

Mixed-Use Development

Prepared for: Developmentlink Pty Ltd

Prepared By: Matthew Young
RMS Prepare a Work Zone Traffic Management Plan
Certificate #: 0051718998

Tuesday, 2 October 2019
Document Number: SBMG01982-00

Table of Contents

1 Project Details

1.1 Project Summary

Project: Mixed-Use Development
Location: 351-353 Barrenjoey Road, Newport NSW
Hours of Operation: DA Approved Hours

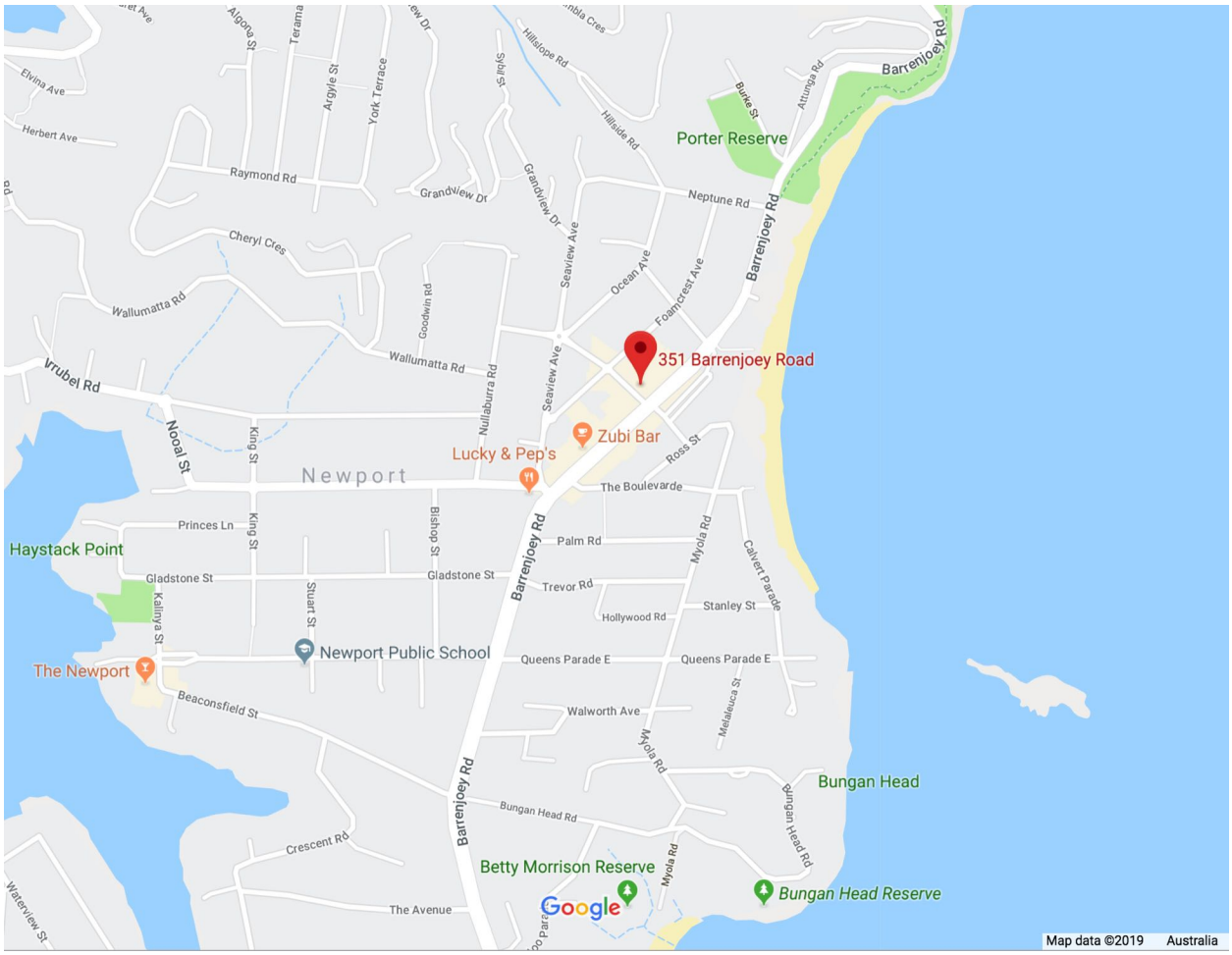
Scope of Works: Demolition of existing structures, bulk excavation and construction of a mixed use development over basement level parking.

This Construction Traffic Management Plan has been prepared to support a Development Application for a mixed use building and illustrate the traffic management measures proposed during its construction.

1.2 Revisions

Rev	Date	Description
0	1/10/19	Initial Submission

1.3 Location Map



1.4 Development Process

This traffic management plan covers the stage(s) listed below, subsequent stages will require amendments and additional plans to be prepared.

Included Stages / Phases:

Stage / Phase	Duration (approx.)
Demolition	2 Months
Excavation	3 Months
Construction	13 Months

1.5 Demolition Phase

Largest Truck Size: Medium Rigid Vehicle (up to 8.8m in length)
Daily Vehicle Movements: 40 on peak days (20 in and 20 out)
General Type of Works:

- Demolition of existing structures
- Tree removal
- Removal of demolished material from site

1.6 Excavation Phase

Largest Truck Size: Medium Rigid Vehicle (up to 8.8m in length)
Daily Vehicle Movements: 60 on peak days (30 in and 30 out)
General Type of Works:

- Piling works
- Concrete pour associated with piling
- Excavation works for basement level.
- Removal of excavated material from site.

1.7 Construction Phase

Largest Truck Size: Heavy Rigid Vehicle (up to 12.5m in length)
Daily Vehicle Movements (General Deliveries): up to 10 on peak days (5 in and 5 out)
Vehicle Movements (Concrete Pour): 40-60 per pour
General Type of Works:

- General construction activity for building structure (floor slabs, walls, etc.)
- Concrete pours
- Associated plumbing and electrical works
- Fit-out works
- Associated landscaping works.

2 Proposed Management of Construction Vehicles

2.1 General

- A schedule of site inductions shall be held on regular occasions and as determined necessary to ensure all new employees are aware of the construction management obligations.
- The site will minimise construction related traffic movements during school peak periods.

2.2 Demolition Phases

a) Approach and Departure Routes
   - Approach Route – Traveling northbound along Barrenjoey Road, turn left onto Robertson Road and then turn right onto the site in a forward-facing direction.
   - Departure Route – In a forward-facing direction exit the site and turn right onto Robertson Road, turn left onto Foamcrest Avenue, turn left onto Seaview Avenue and then turn onto Barrenjoey Road.

b) Site Access
   - Site vehicles to enter and exit the site using an existing layback off Robertson Road.

c) Vehicle movements within the site
   - Vehicles will enter and exit the site in a forward-facing direction.

d) Loading and Unloading of Vehicles
   - All vehicles to be loaded and unloaded within the site boundaries.

e) Vehicle Queuing
   - Vehicles to stand within the site boundary only.

f) Removal of material from site
   - Vehicles are to be loaded within site boundaries with crushed aggregate and/or shaker grid to be installed prior to exit point once hardstand area is removed.
   - Vehicles inspected prior to leaving the site and cleaned as required to minimise contamination of surrounding roadways.
   - Where water is used for cleaning vehicles, appropriate sediment control measures will be taken to ensure untreated water is not allowed to directly enter the storm water system.

g) Works Zone
   - None proposed, site vehicles to stand within the site

h) Standing Plant
   - All equipment to be used within the site boundary only.

i) Parking for Site Workers
   - Site workers to park within site boundaries where possible, otherwise they will utilise surrounding parking facilities abiding by existing conditions.
   - Site workers will be encouraged to use public transport to travel to and from the site with facilities available onsite for tool and equipment storage.

j) Storage for Material, Waste and Equipment
   - All storage to be located within the site boundaries only.

k) Pedestrian Management
   - Pedestrian access past the site as per existing conditions along the concrete footpath
   - Traffic controller located at gate to manage pedestrian activity when vehicles are crossing the footpath.
   - Boundary fencing / hoarding installed around the site boundary as required to restrict public access.

l) Traffic Lanes
- Traffic lane maintained along Robertson Road past the site. Traffic controller used on Robertson Road to manage parked vehicles when site vehicles are exiting.
- Traffic lanes maintained along Barrenjoey Road.

2.3 Excavation Phases

a) Approach and Departure Routes
- Approach Route (Site Access) – Traveling northbound along Barrenjoey Road, turn left onto Robertson Road and then turn right onto the site in a forward-facing direction.
- Departure Route (Site Access) – In a forward-facing direction exit the site and turn right onto Robertson Road, turn left onto Foamcrest Avenue, turn left onto Seaview Avenue and then turn onto Barrenjoey Road.
- Approach Route (Robertson Road Slip Lane) – Traveling northbound along Barrenjoey Road, turn left onto Robertson Road and then stand in the slip lane in a forward-facing direction.
- Departure Route (Robertson Road Slip Lane) – In a forward-facing direction exit the slip lane and continue along Robertson Road, turn left onto Foamcrest Avenue, turn left onto Seaview Avenue and then turn onto Barrenjoey Road.

b) Site Access
- Site vehicles to enter and exit the site using an existing layback off Robertson Road.

c) Vehicle movements within the site
- Vehicles will enter and exit the site in a forward-facing direction.
- Vehicle access will be not be possible one the

d) Loading and Unloading of Vehicles
- All vehicles to be loaded and unloaded within the site boundaries.

e) Vehicle Queuing
- Vehicles to stand within the site boundary only.

f) Removal of material from site
- Vehicles are to be loaded within site boundaries with crushed aggregate and/or shaker grid to be installed prior to exit point once hardstand area is removed.
- Vehicles inspected prior to leaving the site and cleaned as required to minimise contamination of surrounding roadways.
- Where water is used for cleaning vehicles, appropriate sediment control measures will be taken to ensure untreated water is not allowed to directly enter the storm water system.

g) Works Zone
- None proposed. Vehicles standing within proposed slip lane require council approval and traffic control as per TCP in appendix B.

h) Standing Plant
- All equipment to be used within the site boundary only.

i) Parking for Site Workers
- Site workers to park within site boundaries where possible, otherwise they will utilise surrounding parking facilities abiding by existing conditions.
- Site workers will be encouraged to use public transport to travel to and from the site with facilities available onsite for tool and equipment storage.

j) Storage for Material, Waste and Equipment
- All storage to be located within the site boundaries only.

k) Pedestrian Management
- Pedestrian access past the site as per existing conditions along the concrete footpath at all times except during slip lane use when pedestrians will be directed

across the road using traffic control as per TCP (see appendix B).
- Traffic controller located at gate to manage pedestrian activity when vehicles are crossing the footpath.
- Boundary fencing / hoarding installed around the site boundary as required to restrict public access.

l) Traffic Lanes
- Traffic access maintained along Robertson Road.
- Traffic lanes on Bunnerong Road maintained as per normal conditions.

2.4 Construction Phase

a) Approach and Departure Routes
- Approach Route (Site Access) – Traveling northbound along Barrenjoey Road, turn left onto Robertson Road and then turn right onto the site in a forward-facing direction.
- Departure Route (Site Access) – In a forward-facing direction exit the site and turn right onto Robertson Road, turn left onto Foamcrest Avenue, turn left onto Seaview Avenue and then turn onto Barrenjoey Road.
- Approach Route (Robertson Road Slip Lane) – Traveling northbound along Barrenjoey Road, turn left onto Robertson Road and then stand in the slip lane in a forward-facing direction.
- Departure Route (Robertson Road Slip Lane) – In a forward-facing direction exit the slip lane and continue along Robertson Road, turn left onto Foamcrest Avenue, turn left onto Seaview Avenue and then turn onto Barrenjoey Road.

b) Site Access
- Vehicle access initially restricted due to excavation footprint.
- Suitable vehicles may use the basement once its construction is complete.

c) Vehicle movements within the site
- Suitable vehicles may use the basement once its construction is complete.

d) Loading and Unloading of Vehicles
- All vehicles to be loaded and unloaded from within the site boundaries or an approved work area.

e) Vehicle Queuing
- Vehicles to stand within the site boundary or approved work area.
- Drivers are to contact the site prior to turning onto Robertson Road from Bunnerong Road to ensure there is adequate space.

f) Works Zone
- None proposed. Vehicles standing within proposed slip lane require council approval and traffic control as per TCP in appendix B.

g) Standing Plant
- All equipment to be used within the site boundary.
- Concrete pour from Robertson Road (subject to Council approval), see Appendix B for relevant TCP.

h) Material Handling
- Hoist installed for moving material and equipment between levels
- Forklifts or similar plant to be used wholly within the site to load and unload vehicles as required.

i) Parking for Site Workers
- Site workers to park within site boundaries where possible, otherwise they will utilise surrounding parking facilities abiding by existing conditions.
- Site workers will be encouraged to use public transport to travel to and from the site with facilities available onsite for tool and equipment storage.

- Basement may be used by suitable vehicles once its construction is complete.

j) Storage for Material, Waste and Equipment
   - All storage to be located within the site boundaries only.

k) Pedestrian Management
   - Pedestrian access past the site as per existing conditions along the concrete footpath at all times except during slip lane use when pedestrians will be directed across the road using traffic control as per TCP (see appendix B).
   - Traffic controller located at gate to manage pedestrian activity when vehicles are crossing the footpath.
   - Boundary fencing / hoarding installed around the site boundary as required to restrict public access.

l) Traffic Lanes
   - Traffic access maintained along Robertson Road.
   - Traffic lanes on Bunnerong Road maintained as per normal conditions.

m) Driveway / Footpath / Kerb Works
   - Pedestrian detour to be installed during site operating hours with onsite traffic controllers to assist pedestrians around the work area as required (see appendix B for TCP). Pedestrian detour subject to Council approval as required.

3 Impact of Project

3.1 Surrounding Properties

- Existing access to surrounding properties maintained throughout the project.
- Traffic access maintained along Robertson Road throughout works.

3.2 Pedestrians

- Pedestrian access maintained as per existing conditions throughout the
- Traffic controller used as required for pedestrian safety when vehicles are crossing the footpath.

3.3 Cyclists

- No significant cyclist impact due to the project; No dedicated cyclist or Shared Path existing travel routes to remain as per normal conditions.

3.4 Local Traffic

- Limited impact on traffic flow with existing traffic lanes maintained throughout works.
- Impact to on-street parking along Robertson Street only impacted during site operating hours when required to maintain traffic access along the roadway. Whilst this will restrict access up to 8 parking spaces, maintaining a traffic lane will significantly reduce the impact on the neighbouring properties such as the Post Office. Normal conditions restored at other times. Also by servicing the site by Robertson Road only, the impact on the main thoroughfare of Barrenjoey road will be minimal.

3.5 Emergency Services

- Access along surrounding streets maintained throughout the project with access to surrounding properties also as per existing conditions.
- Emergency vehicles are given priority access as per normal road rules.

3.6 Public Transport

- Existing public transport infrastructure unaffected by this project.

Appendix A – Site Plans

SBMG01982-01 – Approach and Departure Routes – All Phases
SBMG01982-02 – Site Overview – Demolition Phase
SBMG01982-03 – Site Overview – Excavation Phase
SBMG01982-04 – Site Overview – Construction Phase

Appendix B – Traffic Control Plans

SBMG01982-05 – Site Access
SBMG01982-06 – Excavation Works – Slip Lane
SBMG01982-07 – Concrete Pour / Site Deliveries
SBMG01982-08 –Driveway Works

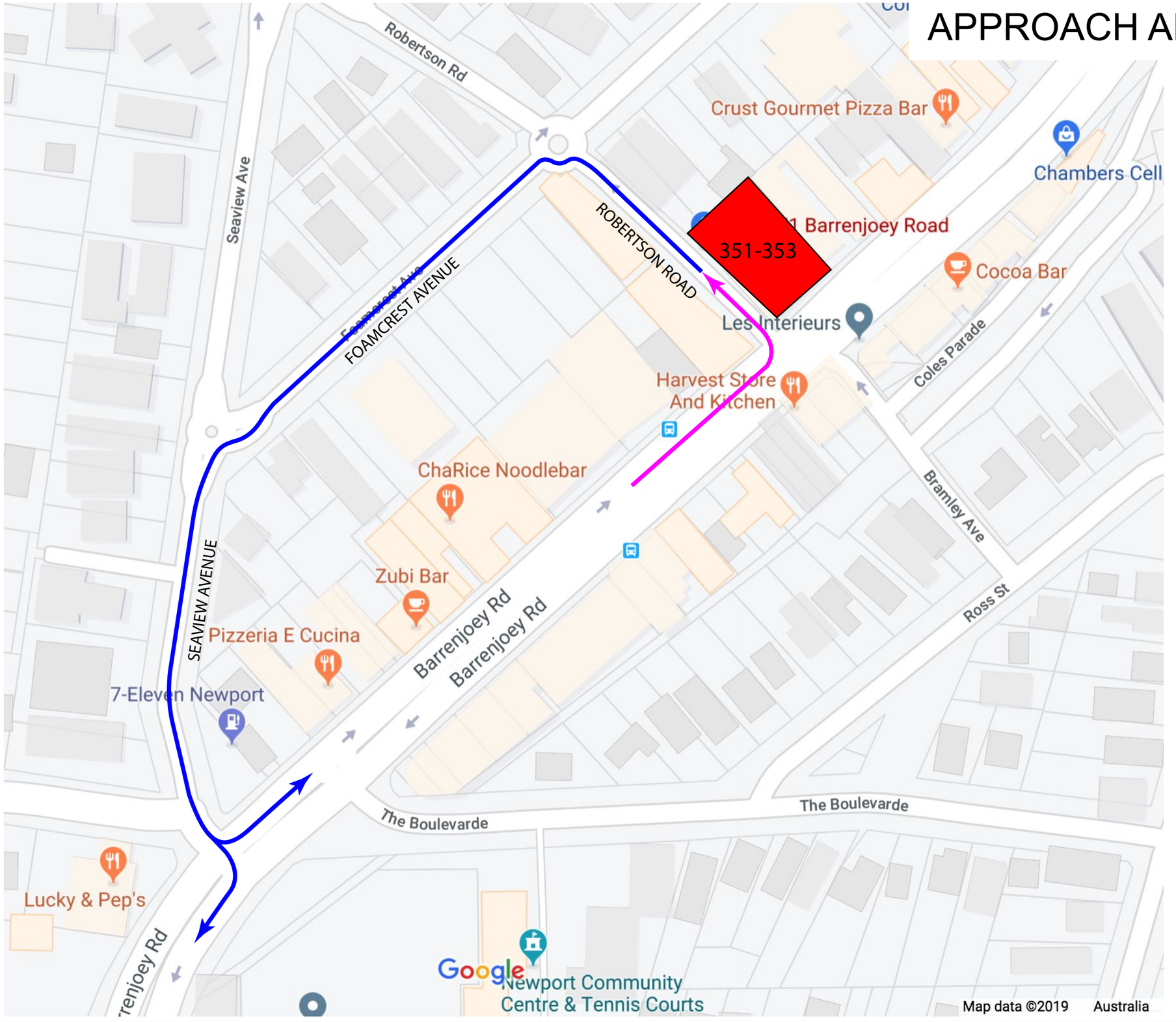
Appendix C – Swept Paths

SBMG01982-09 – MRV – Site Access
SBMG01982-10 – MRV – Slip Lane
SBMG01982-11 – HRV – Robertson Road
SBMG01982-12 – B99 – Robertson Road

Appendix A

APPROACH AND DEPARTURE ROUTE

ALL PHASES



LEGEND:

- SITE BOUNDARY
- SITE APPROACH ROUTE
- SITE DEPARTURE ROUTE

RECOMMENDED MAXIMUM SPACING OF CONES AND BOLLARDS			RECOMMENDED TAPER LENGTHS			
Purpose an usage	Approach Speed (km/h)	Max Spacing (m)	Approach speed (km/h)	Traffic control at start	Lateral shift taper	Merge taper
All purposes on residential or commercial streets	<=50	4				
Center-line on approach to Traffic Controller position	All Cases	4				
Outer edge of traffic lane - i.e. working on shoulder	51-70 / >70	18 / 24	< 45	15	0	15
Separating opposing traffic on 2 lane 2 way road	51-70 / >70	12 / 18	46-55	15	15	30
separating opposing traffic on a multilane undivided road	51-70 / >70	12 / 18	56-65	30	30	60
adjacent to a closed lane on a multilane road	51-70 / >70	18 / 24	66-75	N/A	70	115
Merge tapers	51-70 / >70	9 / 12	76-85	N/A	80	130
Lateral shift tapers	51-70 / >70	12 / 18	86-95	N/A	90	145
Protecting freshly painted lines	51-70 / >70	24 / 60	96-105	N/A	100	160
FIGURES EXTRACTED FROM RMS TCWS MANUAL v5.0 (TABLES 5.1 & 5.2). REFER TO MANUAL FOR FURTHER INFO			> 105	N/A	110	180

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Project/Event:	MIXED-USE DEVELOPMENT			
Location:	351-353 BARRENJOEY ROAD, NEWPORT NSW			
Client :	DEVELOPMENTLINK PTY LTD			
Plan No.	SBMG01982-01	A	Date:	1ST OCTOBER 2019
SCALE: NOT TO SCALE				

PREPARED BY: MATTHEW YOUNG
RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998

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DATE		DESCRIPTION
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SITE OVERVIEW
DEMOLITION PHASE

NOTES:

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4. TRAFFIC CONTROLLERS TO MANAGE PEDESTRIAN ACCESS PAST THE SITE AS REQUIRED WHEN VEHICLES ARE CROSSING THE FOOTPATH.

LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- SITE ACCESS
- TRAFFIC CONTROLLER

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Plan No.	SBMG01982-02	A	Date:	1ST OCTOBER 2019
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SITE OVERVIEW
EXCAVATION PHASE

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LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- SITE ACCESS
- HOARDING
- TRAFFIC CONTROLLER

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SITE OVERVIEW
CONSTRUCTION PHASE

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- SITE ACCESS
- HOARDING
- TRAFFIC CONTROLLER

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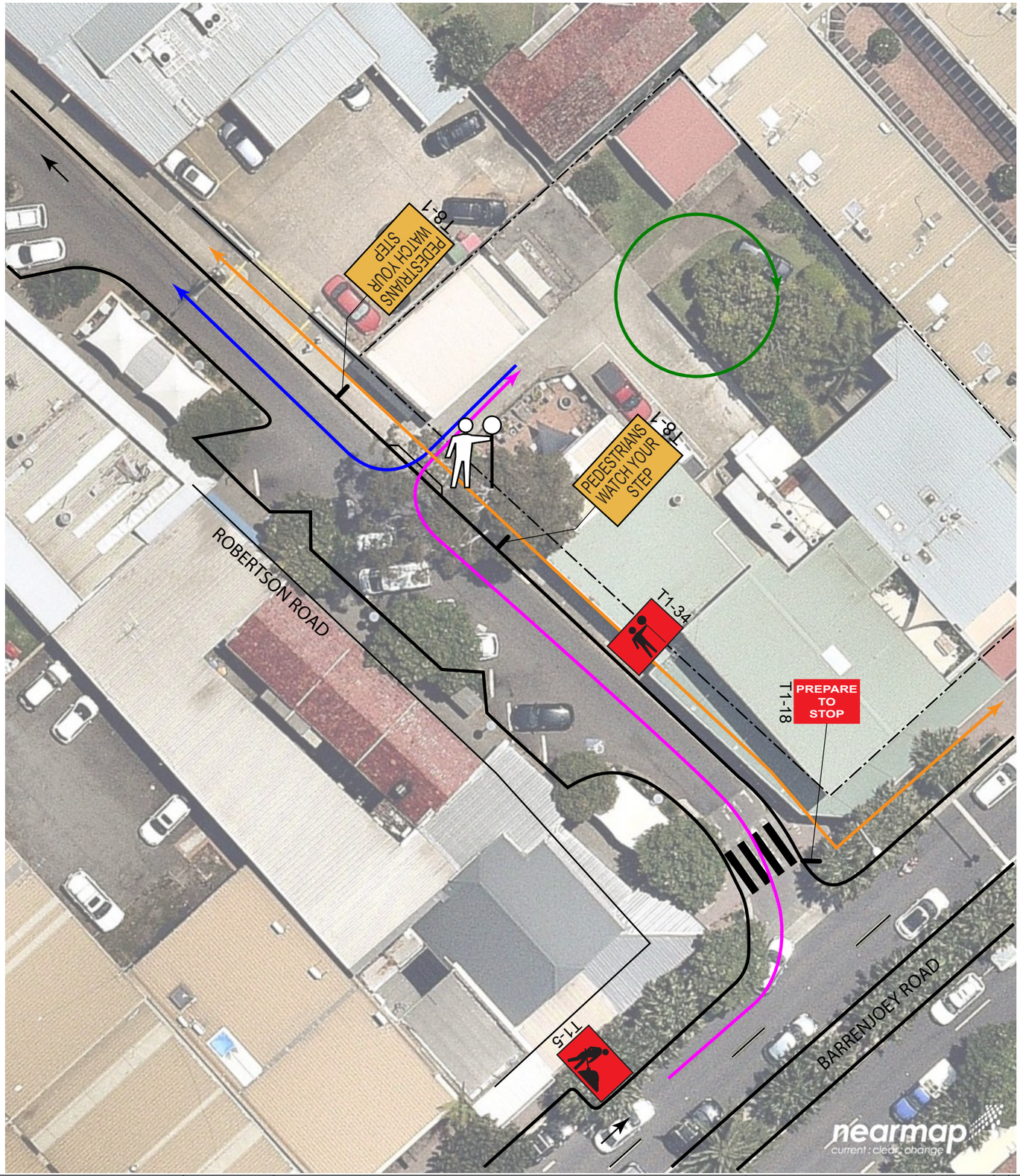
Appendix B

TRAFFIC CONTROL PLAN
SITE ACCESS



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5. TRAFFIC CONTROLLER TO MANAGE VEHICLES PARKED ALONG ROBERTSON AVENUE FOR SAFETY WHEN SITE VEHICLES ARE EXITING THE SITE.

LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- SITE ACCESS
- SITE APPROACH ROUTE
- SITE DEPARTURE ROUTE
- INTERNAL VEHICLE TRAVEL PATH
- PEDESTRIAN ROUTE
- TRAFFIC CONTROLLER

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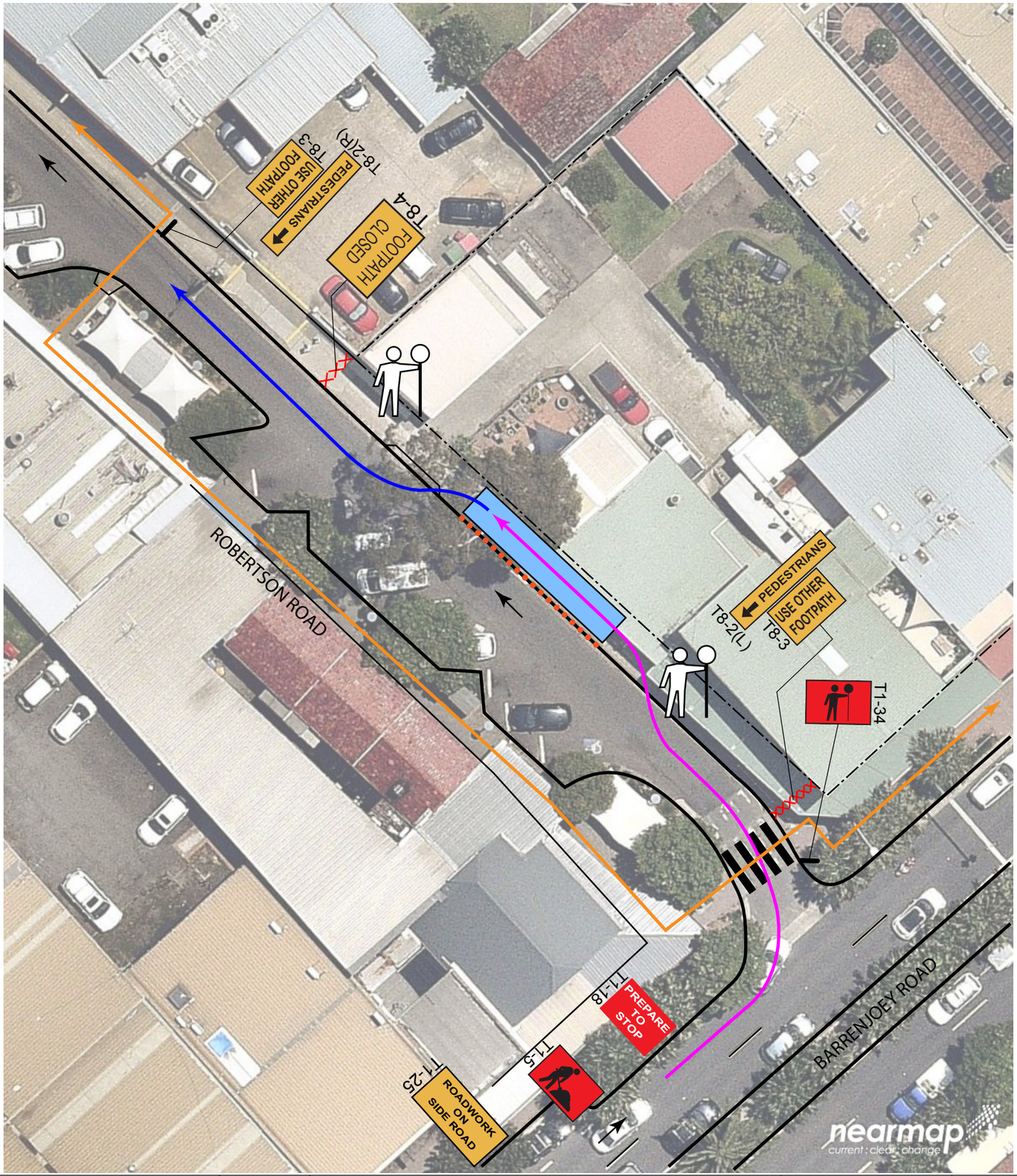
TRAFFIC CONTROL PLAN
EXCAVATION PHASE - SLIP LANE



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3. SURROUNDING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES.
4. TRAFFIC CONTROLLERS TO MANAGE PEDESTRIAN ACCESS PAST THE SITE, A DETOUR TO BE INSTALLED TO USE THE SOUTHERN SIDE OF ROBERTSON AVENUE. NORMAL CONDITIONS TO BE RESTORED AT OTHER TIMES.
5. TRAFFIC CONTROLLERS TO MANAGE VEHICLES PARKED ALONG ROBERTSON AVENUE FOR SAFETY WHEN SITE VEHICLES ARE EXITING THE SITE.
6. TRAFFIC LANE MAINTAINED PAST THE SITE ALONG ROBERTSON AVENUE. TRAFFIC ALONG ROBERTSON AVENUE TO BE HELD FOR SHORT PERIODS WHEN SITE VEHICLES ARE ENTERING AND EXITING. NORMAL TRAFFIC CONDITIONS TO BE RESTORED AT OTHER TIMES.

LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- SITE ACCESS
- DELINEATION (i.e. TRAFFIC CONES)
- PEDESTRIAN BARRIER
- SITE APPROACH ROUTE
- SITE DEPARTURE ROUTE
- VEHICLE STANDING
- PEDESTRIAN ROUTE
- TRAFFIC CONTROLLER

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SBMG PLANNING — TRAFFIC CONTROL | BUILDING & CONSTRUCTION | SPECIAL EVENTS | SWEPT PATH DIAGRAMS

Project/Event:	MIXED-USE DEVELOPMENT				
Location:	351-353 BARRENJOEY ROAD, NEWPORT NSW				
Client :	DEVELOPMENTLINK PTY LTD				
Plan No.	SBMG01982-06	A	Date:	1ST OCTOBER 2019	
SCALE: NOT TO SCALE					

PREPARED BY: MATTHEW YOUNG
RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998

SIGNED:

DATE		DESCRIPTION
	E	
	D	
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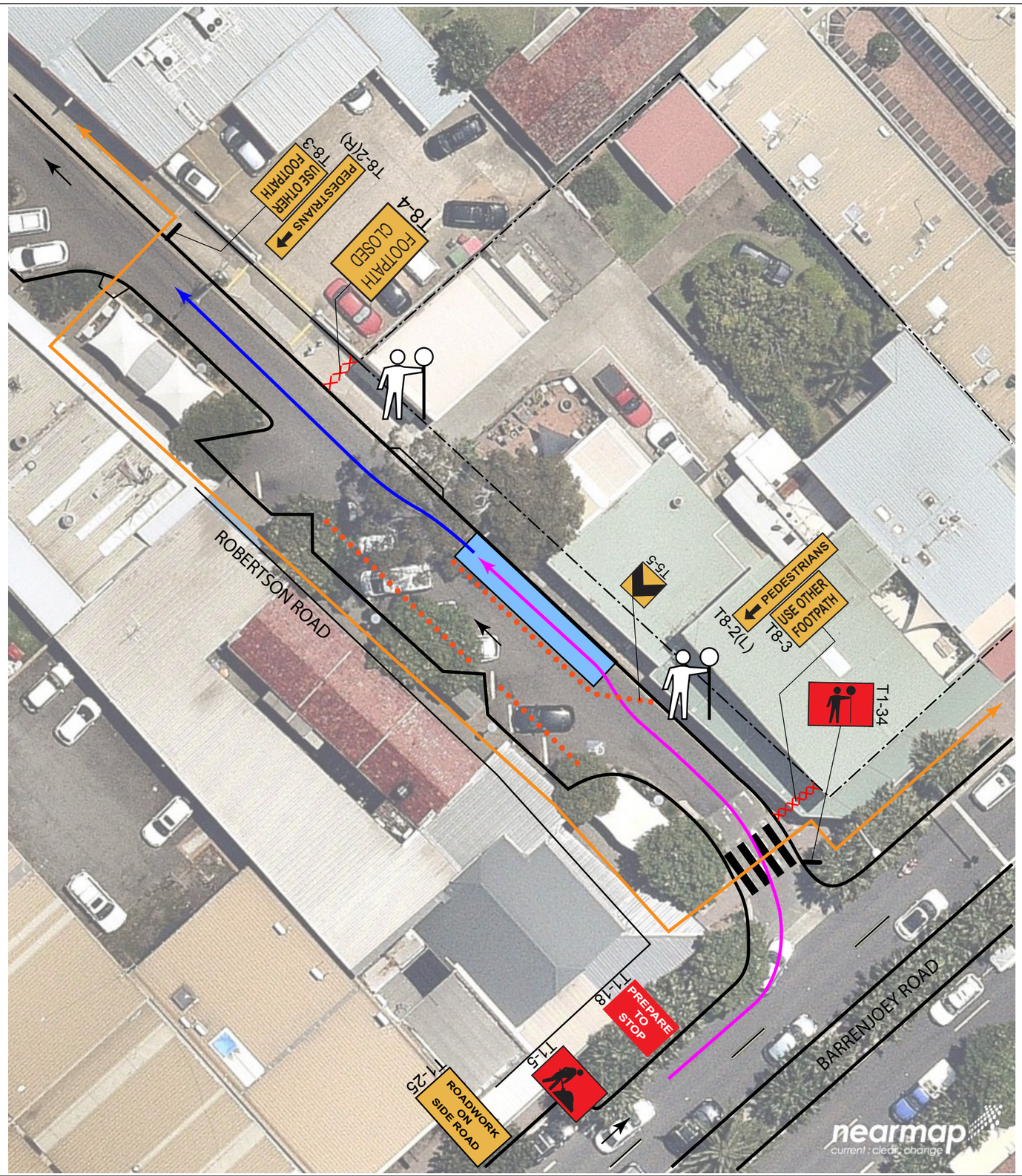
01/10/19	A	INITIAL SUBMISSION

RECOMMENDED MAXIMUM SPACING OF CONES AND BOLLARDS			RECOMMENDED TAPER LENGTHS			
Purpose an usage	Approach Speed (km/h)	Max Spacing (m)	Approach speed (km/h)	Traffic control at start	Lateral shift taper	Merge taper
All purposes on residential or commercial streets	<=50	4				
Center-line on approach to Traffic Controller position	All Cases	4				
Outer edge of traffic lane - i.e. working on shoulder	51-70 / >70	18 / 24	< 45	15	0	15
Separating opposing traffic on 2 lane 2 way road	51-70 / >70	12 / 18	46-55	15	15	30
separating opposing traffic on a multilane undivided road	51-70 / >70	12 / 18	56-65	30	30	60
adjacent to a closed lane on a multilane road	51-70 / >70	18 / 24	66-75	N/A	70	115
Merge tapers	51-70 / >70	9 / 12	76-85	N/A	80	130
Lateral shift tapers	51-70 / >70	12 / 18	86-95	N/A	90	145
Protecting freshly painted lines	51-70 / >70	24 / 60	96-105	N/A	100	160
FIGURES EXTRACTED FROM RMS TCWS MANUAL v5.0 (TABLES 5.1 & 5.2). REFER TO MANUAL FOR FURTHER INFO			> 105	N/A	110	180

TRAFFIC CONTROL PLAN
CONCRETE POUR / GENERAL DELIVERIES - CONSTRUCTION PHASE



NOTES:

1. ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH RMS "TRAFFIC CONTROL AT WORKSITES" MANUAL AND AS1742.3.
2. ALL SIGNAGE AND DELINEATION MUST BE INSTALLED BY RMS CERTIFIED TRAFFIC CONTROLLER(S) ONLY.
3. SURROUNDING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES.
4. TRAFFIC CONTROLLERS TO MANAGE PEDESTRIAN ACCESS PAST THE SITE, A DETOUR TO BE INSTALLED TO USE THE SOUTHERN SIDE OF ROBERTSON AVENUE. NORMAL CONDITIONS TO BE RESTORED AT OTHER TIMES.
5. ON-STREET PARKING ADJACENT TO THE SITE ALONG ROBERTSON AVENUE TEMPORARILY REMOVED TO MAINTAIN A TRAFFIC LANE PAST THE SITE. PARKING RESTORED WHEN NORMAL TRAFFIC CONDITIONS RESUME.
6. TRAFFIC ALONG ROBERTSON AVENUE TO BE HELD FOR SHORT PERIODS WHEN SITE VEHICLES ARE ENTERING AND EXITING. NORMAL TRAFFIC CONDITIONS TO BE RESTORED AT OTHER TIMES.

LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- SITE ACCESS
- DELINEATION (i.e. TRAFFIC CONES)
- PEDESTRIAN BARRIER
- SITE APPROACH ROUTE
- SITE DEPARTURE ROUTE
- VEHICLE STANDING
- PEDESTRIAN ROUTE
- TRAFFIC CONTROLLER

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Project/Event:	MIXED-USE DEVELOPMENT				
Location:	351-353 BARRENJOEY ROAD, NEWPORT NSW				
Client :	DEVELOPMENTLINK PTY LTD				
Plan No.	SBMG01982-07	A	Date:	1ST OCTOBER 2019	
SCALE: NOT TO SCALE					

PREPARED BY: MATTHEW YOUNG
RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998

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DATE		DESCRIPTION
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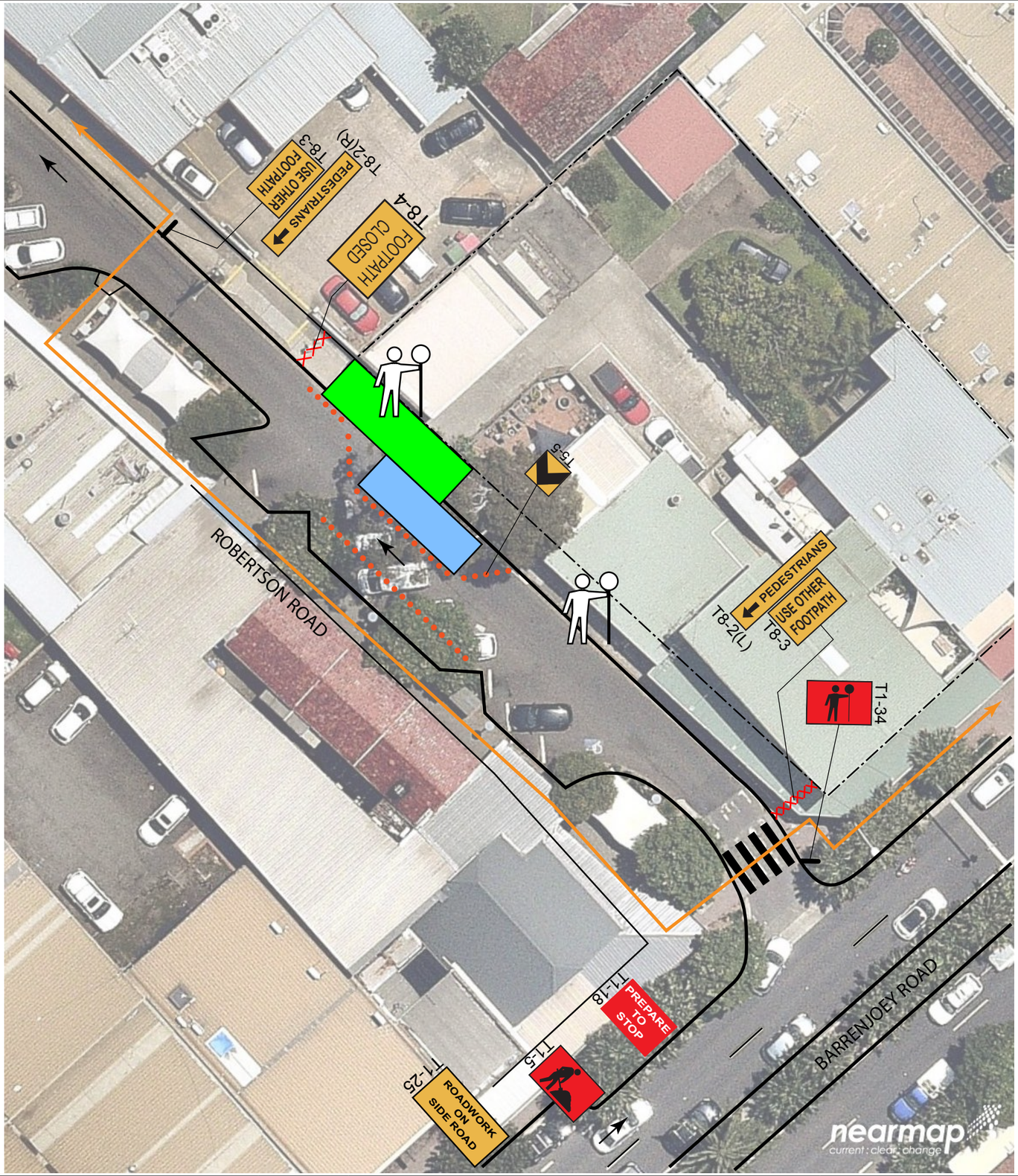
01/10/19	A	INITIAL SUBMISSION

RECOMMENDED MAXIMUM SPACING OF CONES AND BOLLARDS			RECOMMENDED TAPER LENGTHS			
Purpose an usage	Approach Speed (km/h)	Max Spacing (m)	Approach speed (km/h)	Traffic control at start	Lateral shift taper	Merge taper
All purposes on residential or commercial streets	<=50	4				
Center-line on approach to Traffic Controller position	All Cases	4				
Outer edge of traffic lane - i.e. working on shoulder	51-70 / >70	18 / 24	< 45	15	0	15
Separating opposing traffic on 2 lane 2 way road	51-70 / >70	12 / 18	46-55	15	15	30
separating opposing traffic on a multilane undivided road	51-70 / >70	12 / 18	56-65	30	30	60
adjacent to a closed lane on a multilane road	51-70 / >70	18 / 24	66-75	N/A	70	115
Merge tapers	51-70 / >70	9 / 12	76-85	N/A	80	130
Lateral shift tapers	51-70 / >70	12 / 18	86-95	N/A	90	145
Protecting freshly painted lines	51-70 / >70	24 / 60	96-105	N/A	100	160
FIGURES EXTRACTED FROM RMS TCWS MANUAL v5.0 (TABLES 5.1 & 5.2). REFER TO MANUAL FOR FURTHER INFO			> 105	N/A	110	180

TRAFFIC CONTROL PLAN
DRIVEWAY WORKS



NOTES:

1. ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH RMS "TRAFFIC CONTROL AT WORKSITES" MANUAL AND AS1742.3.
2. ALL SIGNAGE AND DELINEATION MUST BE INSTALLED BY RMS CERTIFIED TRAFFIC CONTROLLER(S) ONLY.
3. SURROUNDING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES.
4. TRAFFIC CONTROLLERS TO MANAGE PEDESTRIAN ACCESS PAST THE SITE, A DETOUR TO BE INSTALLED TO USE THE SOUTHERN SIDE OF ROBERTSON AVENUE. NORMAL CONDITIONS TO BE RESTORED AT OTHER TIMES.
5. ON-STREET PARKING ADJACENT TO THE SITE ALONG ROBERTSON AVENUE TEMPORARILY REMOVED TO MAINTAIN A TRAFFIC LANE PAST THE SITE. PARKING RESTORED WHEN NORMAL TRAFFIC CONDITIONS RESUME.

LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- DELINEATION (i.e. TRAFFIC CONES)
- PEDESTRIAN BARRIER
- WORK AREA
- VEHICLE STANDING
- PEDESTRIAN ROUTE
- TRAFFIC CONTROLLER

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SBMG PLANNING — TRAFFIC CONTROL | BUILDING & CONSTRUCTION | SPECIAL EVENTS | SWEPT PATH DIAGRAMS

Project/Event:	MIXED-USE DEVELOPMENT				
Location:	351-353 BARRENJOEY ROAD, NEWPORT NSW				
Client :	DEVELOPMENTLINK PTY LTD				
Plan No.	SBMG01982-08	A	Date:	1ST OCTOBER 2019	
SCALE: NOT TO SCALE					

PREPARED BY: MATTHEW YOUNG
RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998

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DATE		DESCRIPTION
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01/10/19	A	INITIAL SUBMISSION

RECOMMENDED MAXIMUM SPACING OF CONES AND BOLLARDS		
Purpose an usage	Approach Speed (km/h)	Max Spacing (m)
All purposes on residential or commercial streets	<=50	4
Center-line on approach to Traffic Controller position	All Cases	4
Outer edge of traffic lane - i.e. working on shoulder	51-70 / >70	18 / 24
Separating opposing traffic on 2 lane 2 way road	51-70 / >70	12 / 18
separating opposing traffic on a multilane undivided road	51-70 / >70	12 / 18
adjacent to a closed lane on a multilane road	51-70 / >70	18 / 24
Merge tapers	51-70 / >70	9 / 12
Lateral shift tapers	51-70 / >70	12 / 18
Protecting freshly painted lines	51-70 / >70	24 / 60
FIGURES EXTRACTED FROM RMS TCWS MANUAL v5.0 (TABLES 5.1 & 5.2). REFER TO MANUAL FOR FURTHER INFO		

RECOMMENDED TAPER LENGTHS			
Approach speed (km/h)	Traffic control at start	Lateral shift taper	Merge taper
< 45	15	0	15
46-55	15	15	30
56-65	30	30	60
66-75	N/A	70	115
76-85	N/A	80	130
86-95	N/A	90	145
96-105	N/A	100	160
> 105	N/A	110	180

Appendix C

SWEPT PATH
FORWARD FACING ENTRY / EXIT
ROBERTSON ROAD ACCESS
MEDIUM RIGID VEHICLE

NOTES:

1. VEHICLE PATHS CALCULATED USING AUTODESK AUTOCAD 2017 & AUTODESK VEHICLE TRACKING 2017.
2. AS/NZS 2890.2:2002 MRV - MEDIUM RIGID VEHICLE USED WITH A KERB TO KERB TURNING RADIUS OF 10.000m.
3. DIAGRAM ILLUSTATES TURNING MANOEUVER FOR TRUCKS TO ENTER OR EXIT THE SITE IN A FORWARD MANNER.

0 1 2 3 4 5 10 20

LEGEND:

- WHEEL PATH - FORWARD MOTION
- FRONT OVERHANG - FORWARD MOTION
- WHEEL PATH - REVERSE MOTION
- FRONT OVERHANG - REVERSE MOTION
- 300mm CLEARANCE ENVELOPE
- SITE BOUNDARY

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SBMG PLANNING — TRAFFIC CONTROL | BUILDING & CONSTRUCTION | SPECIAL EVENTS | SWEPT PATH DIAGRAMS

Project/Event:	MIXED-USE DEVELOPMENT				
Location:	351-353 BARRENJOEY ROAD, NEWPORT NSW				
Client :	DEVELOPMENTLINK PTY LTD				
Plan No.	SBMG01982-09	A	Date:	1ST OCTOBER 2019	

PREPARED BY: MATTHEW YOUNG
RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998

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SWEPT PATH
FORWARD FACING ENTRY / EXIT
SLIP LANE ACCESS
MEDIUM RIGID VEHICLE

NOTES:

1. VEHICLE PATHS CALCULATED USING AUTODESK AUTOCAD 2017 & AUTODESK VEHICLE TRACKING 2017.
2. AS/NZS 2890.2:2002 MRV - MEDIUM RIGID VEHICLE USED WITH A KERB TO KERB TURNING RADIUS OF 10.000m.
3. DIAGRAM ILLUSTATES TURNING MANOEUVER FOR TRUCKS TO ENTER OR EXIT THE PROPOSED SLIP LANE IN A FORWARD MANNER.

0 1 2 3 4 5 10 20

LEGEND:

- WHEEL PATH - FORWARD MOTION
- FRONT OVERHANG - FORWARD MOTION
- WHEEL PATH - REVERSE MOTION
- FRONT OVERHANG - REVERSE MOTION
- 300mm CLEARANCE ENVELOPE
- SITE BOUNDARY

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SBMG PLANNING — TRAFFIC CONTROL | BUILDING & CONSTRUCTION | SPECIAL EVENTS | SWEPT PATH DIAGRAMS

Project/Event:	MIXED-USE DEVELOPMENT				
Location:	351-353 BARRENJOEY ROAD, NEWPORT NSW				
Client :	DEVELOPMENTLINK PTY LTD				
Plan No.	SBMG01982-10	A	Date:	1ST OCTOBER 2019	

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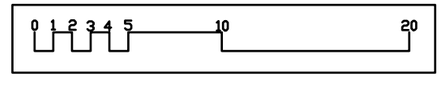
SWEPT PATH
FORWARD FACING ENTRY / EXIT
ROBERTSON ROAD
HEAVY RIGID VEHICLE

NOTES:

1. VEHICLE PATHS CALCULATED USING AUTODESK AUTOCAD 2017 & AUTODESK VEHICLE TRACKING 2017.
2. AS/NZS 2890.2:2002 HRV - HEAVY RIGID VEHICLE USED WITH A KERB TO KERB TURNING RADIUS OF 12.500m.
3. DIAGRAM ILLUSTATES TURNING MANOEUVER FOR TRUCKS TO ENTER OR EXIT THE ROBERTSON ROAD STANDING AREA IN A FORWARD MANNER.



LEGEND:

- WHEEL PATH - FORWARD MOTION
- FRONT OVERHANG - FORWARD MOTION
- WHEEL PATH - REVERSE MOTION
- FRONT OVERHANG - REVERSE MOTION
- 300mm CLEARANCE ENVELOPE
- SITE BOUNDARY

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SBMG PLANNING — TRAFFIC CONTROL | BUILDING & CONSTRUCTION | SPECIAL EVENTS | SWEPT PATH DIAGRAMS

Project/Event:	MIXED-USE DEVELOPMENT			
Location:	351-353 BARRENJOEY ROAD, NEWPORT NSW			
Client :	DEVELOPMENTLINK PTY LTD			
Plan No.	SBMG01982-11	A	Date:	1ST OCTOBER 2019

PREPARED BY: MATTHEW YOUNG
RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998

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SWEPT PATH
VEHICLE STANDING WITHIN ROADWAY
ROBERTSON ROAD ACCESS
B99 DESIGN VEHICLE

NOTES:

1. VEHICLE PATHS CALCULATED USING AUTODESK AUTOCAD 2017 & AUTODESK VEHICLE TRACKING 2017.
2. AS/NZS 2890.1:2004 - B99 DESIGN VEHICLE USED WITH A KERB TO KERB TURNING RADIUS OF 8.000m.
3. DIAGRAM ILLUSTATES TURNING MANOEUVER FOR B99 VEHICLE AROUND THE STANDING SITE VEHICLE IN A FORWARD MANNER WITH ON-STREET PARKING REMOVED.

0 1 2 3 4 5 10 20

LEGEND:

- WHEEL PATH - FORWARD MOTION
- FRONT OVERHANG - FORWARD MOTION
- WHEEL PATH - REVERSE MOTION
- FRONT OVERHANG - REVERSE MOTION
- 300mm CLEARANCE ENVELOPE
- SITE BOUNDARY

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SBMG PLANNING — TRAFFIC CONTROL | BUILDING & CONSTRUCTION | SPECIAL EVENTS | SWEPT PATH DIAGRAMS

Project/Event:	MIXED-USE DEVELOPMENT			
Location:	351-353 BARRENJOEY ROAD, NEWPORT NSW			
Client :	DEVELOPMENTLINK PTY LTD			
Plan No.	SBMG01982-12	A	Date:	1ST OCTOBER 2019

PREPARED BY: MATTHEW YOUNG
RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998

SIGNED:

DATE		DESCRIPTION
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01/10/19	A	INITIAL SUBMISSION