



# Construction Traffic Management Plan

**26 Whistler Street, Manly**

**Residential Development**

Prepared for: Lighthouse Project Group Pty Ltd

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

Monday, 27 May 2019  
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# 1 Project Details

## 1.1 Project Summary

Project: Residential Development

Location: 26 Whistler Street, Manly NSW

Hours of Operation:           Monday – Friday       7am – 5pm  
  Saturday                8am – 1pm  
  No work on Sunday or Public Holidays

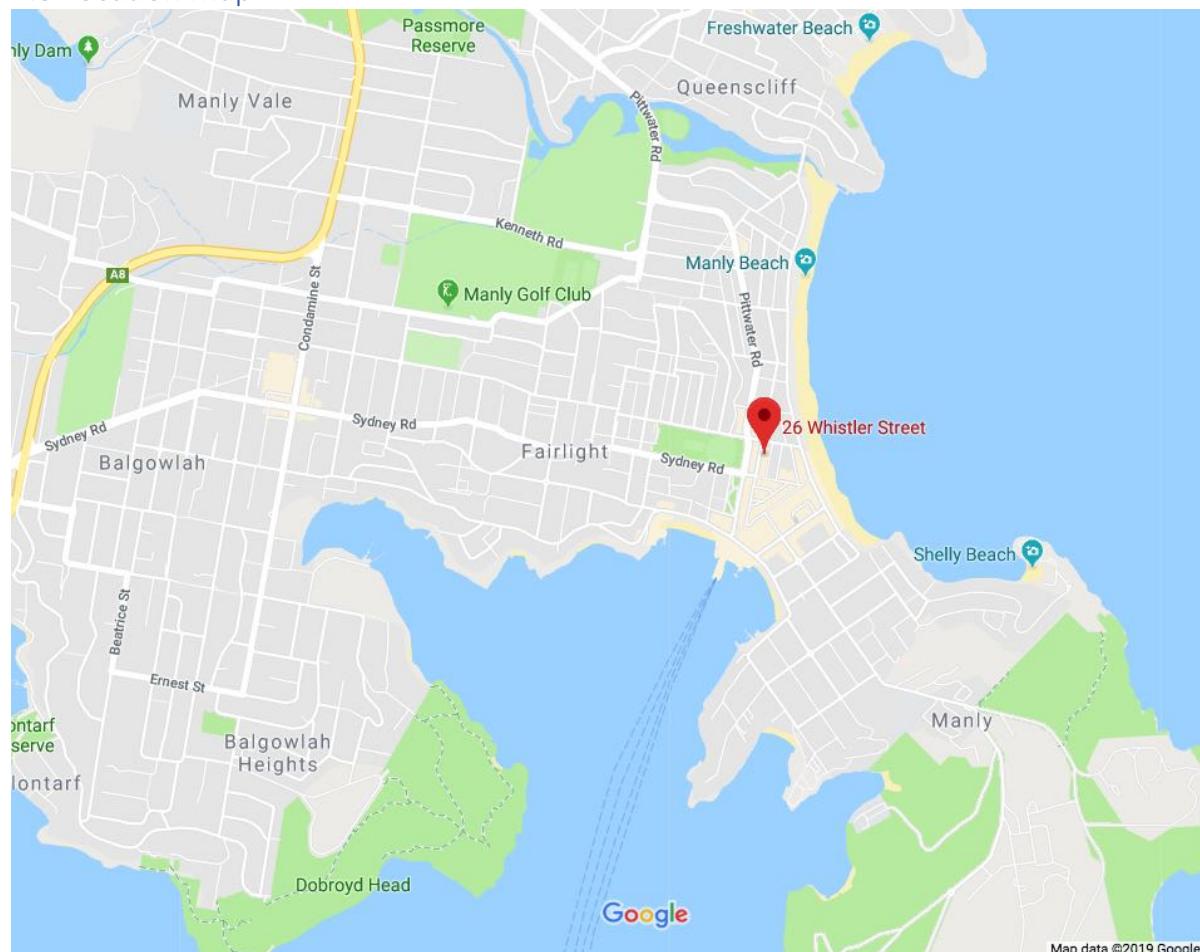
Scope of Works: Demolition of existing structures, bulk excavation and construction of a new residential flat building over basement level parking.

This Construction Traffic Management Plan has been prepared to illustrate the proposed traffic management measures to be implemented during the construction of this development

## 1.2 Revisions

Rev	Date	Description
0	27/05/19	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 + Construction of basement levels	6 Months
Construction	10 Months

## 1.5 Demolition Phase

Largest Truck Size: Medium Rigid Vehicle (up to 8.8m in length)

Daily Vehicle Movements: 10 on peak days

General Type of Works:

- Installation of Hoarding / boundary fencing
- Demolition of existing structures
- Removal of demolished material from site

Pedestrian Link between Whistler Street & Short Street Plaza maintained

## 1.6 Excavation & Construction Phases (Basement levels)

Largest Truck Size: Heavy Rigid Vehicle (up to 12.5m in length)

Daily Vehicle Movements: 30 on peak days

General Type of Works:

- Piling works
- Concrete pours associated with piling
- Excavation works for basement level.
- Removal of excavated material from site.
- Construction of basement levels
- Concrete Pour for basement slabs
- Construct ground level slab to restore pedestrian walkway

Pedestrian Link between Whistler Street & Short Street Plaza closed



## 1.7 Construction Phase (Ground level and above)

Largest Truck Size: Heavy Rigid Vehicle (up to 12.5m in length)

Daily Vehicle Movements (General Deliveries): up to 10 on peak days

Vehicle Movements (Concrete Pour Days): 50 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.

Pedestrian Link between Whistler Street & Short Street Plaza restored

## 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 Zone hours.

### 2.2 Demolition Phase

#### a) Approach and Departure Routes

- Approach Route (Site Access) – Traveling along Manly Road (A8), turn onto Sydney Road, continue onto Whistler Street, turn left onto Whistler Street and then turn right into the site in a forward-facing direction.
- Departure Route (Site Access) – In a forward-facing direction exit the site and turn right onto Whistler Street, turn left onto Raglan Street, turn left onto Belgrave Street, turn right onto Sydney Road and then turn onto Manly Road (A8).

#### b) Site Access

- Site vehicles to enter and exit the site using the existing laybacks off Whistler Street.

#### 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

- Queuing not permitted on surrounding local roads.

#### 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, all vehicles contained within the site boundary.



- 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 or surrounding off-street parking facility 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
  - Whistler Street - Pedestrian access past the site as per existing conditions along the concrete footpath.
  - Short Street Plaza – Pedestrian access along the Plaza maintained.
  - Existing walkway maintained along the southern boundary between Whistler Street and Short Street Plaza. Hoarding installed for overhead protection.
  - Traffic controller located at gate to manage pedestrian activity when vehicles are crossing the footpath.
  - Boundary fencing installed around the site boundary as required to restrict public access.
- l) Traffic Lanes
  - Traffic access maintained along Whistler Street.

### 2.3 Excavation & Construction Phases (Basement levels)

- a) Approach and Departure Routes
  - Approach Route (Site Access) – Traveling along Manly Road (A8), turn onto Sydney Road, continue onto Whistler Street, turn left onto Whistler Street and then turn right into the site in a forward-facing direction.
  - Departure Route (Site Access) – In a forward-facing direction exit the site and turn right onto Whistler Street, turn left onto Raglan Street, turn left onto Belgrave Street, turn right onto Sydney Road and then turn onto Manly Road (A8).
  - Approach Route (Works Zone) – Traveling along Manly Road (A8), turn onto Sydney Road, continue onto Whistler Street, turn left onto Whistler Street and then stand within the Works Zone (right kerb) in a forward-facing direction.
  - Departure Route (Works Zone) – In a forward-facing direction exit the Works Zone and continue along Whistler Street, turn left onto Raglan Street, turn left onto Belgrave Street, turn right onto Sydney Road and then turn onto Manly Road (A8).
- b) Site Access
  - Site vehicles to enter and exit the site using the existing Whistler Street.
- 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 until site access is no longer possible due to the excavation footprint.
- e) Vehicle Queuing
  - Queuing not permitted on surrounding local roads.



- 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
  - Once site access is not possible due to the stage of excavation works a 22m Works Zone proposed along the Whistler Street frontage.
- h) Standing Plant
  - All equipment to be used within the site boundary or approved Works Zone.
  - Concrete pours for basement levels from Works Zone, see Appendix B for relevant TCP.
- i) Parking for Site Workers
  - Site workers to park within site boundaries or surrounding off-street parking facility 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
  - Whistler Street - Pedestrian access past the site as per existing conditions along the concrete footpath.
  - Short Street Plaza – Pedestrian access along the Plaza maintained.
  - Walkway closed along the southern boundary between Whistler Street and Short Street Plaza.
  - Traffic controller located at gate to manage pedestrian activity when vehicles are crossing the footpath.
  - Boundary fencing installed around the site boundary as required to restrict public access.
- l) Traffic Lanes
  - Traffic access maintained along Whistler Street.

## 2.3 Construction Phase (Ground level and above)

- a) Approach and Departure Routes
  - Approach Route (Site Access) – Traveling along Manly Road (A8), turn onto Sydney Road, continue onto Whistler Street, turn left onto Whistler Street and then turn right into the site in a forward-facing direction.
  - Departure Route (Site Access) – In a forward-facing direction exit the site and turn right onto Whistler Street, turn left onto Raglan Street, turn left onto Belgrave Street, turn right onto Sydney Road and then turn onto Manly Road (A8).
  - Approach Route (Works Zone) – Traveling along Manly Road (A8), turn onto Sydney Road, continue onto Whistler Street, turn left onto Whistler Street and then stand within the Works Zone (right kerb) in a forward-facing direction.
  - Departure Route (Works Zone) – In a forward-facing direction exit the Works Zone and continue along Whistler Street, turn left onto Raglan Street, turn left onto Belgrave Street, turn right onto Sydney Road and then turn onto Manly Road (A8).



- b) Site Access
  - Vehicle access only permitted once basement levels are constructed.
- 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 Works Zone.
- e) Vehicle Queuing
  - Queuing not permitted on surrounding local roads.
- f) Works Zone
  - 22m Works Zone continued along Whistler Street frontage.
- g) Standing Plant
  - All equipment to be used within the site boundary.
  - Concrete pours from Works Zone, see Appendix B for relevant TCP.
- h) Material Handling
  - Onsite tower crane 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
  - Whistler Street - Pedestrian access past the site as per existing conditions along the concrete footpath.
  - Short Street Plaza – Pedestrian access along the Plaza maintained.
  - Walkway restored along the southern boundary between Whistler Street and Short Street Plaza. Hoarding installed for overhead protection.
  - Traffic controller located at gate to manage pedestrian activity when vehicles are crossing the footpath.
  - Boundary fencing installed around the site boundary as required to restrict public access.
- l) Traffic Lanes
  - Traffic access maintained along Whistler Street.
- 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 / Residents

- Existing access to surrounding properties maintained throughout the project.
- Traffic access along Whistler Street maintained throughout works.

### 3.2 Pedestrians

- Pedestrian access maintained along the Short Street Plaza throughout the project.
- The impact of access restriction along the Whistler Street site frontage footpath is reduced by using onsite traffic controllers and installing a detour onto the opposite side of Whistler Street.
- Impact on the walkway between Whistler Street and Short Street Plaza to be reduced by limiting the closure to during excavation and construction of the basement levels only. Once the ground level slab has been poured walkway access to be restored.
- 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; 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.

### 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

- SBMG01892-01 – Approach and Departure Routes – All Phases
- SBMG01892-02 – Site Overview – Demolition Phase
- SBMG01892-03 – Site Overview – Excavation Phase
- SBMG01892-04 – Site Overview – Construction Phase (Basement to Ground Level)
- SBMG01892-05 – Site Overview – Construction Phase (Ground Level & Above)
- SBMG01892-06 – Works Zone – Existing Restrictions
- SBMG01892-07 – Works Zone – Proposed Restrictions

## Appendix B – Traffic Control Plans

- SBMG01892-08 – Site Access
- SBMG01892-09 – Pedestrian Management – Walkway Closure
- SBMG01892-10 – Loading / Unloading – Works Zone
- SBMG01892-11 – Concrete Pour – Line Pump – Works Zone
- SBMG01892-12 – Concrete Pour – Boom Pump – Works Zone
- SBMG01892-13 – Footpath / Driveway / Kerb Works

## Appendix C – Other Documents

- SBMG01892-14 – HRV – Approach Route
- SBMG01892-15 – HRV – Works Zone
- SBMG01892-16 – HRV – Departure Route
- SBMG01892-17 – MRV – Site Access



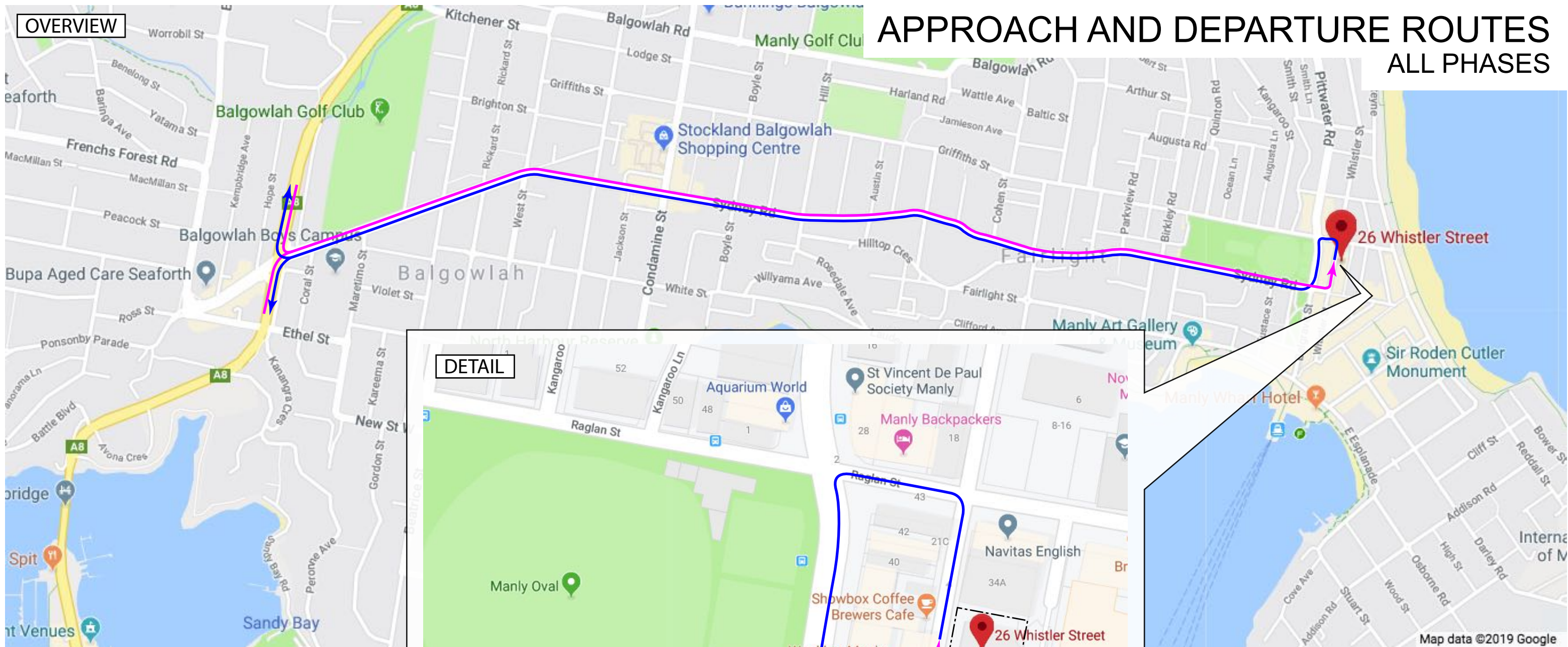
# **Appendix A**



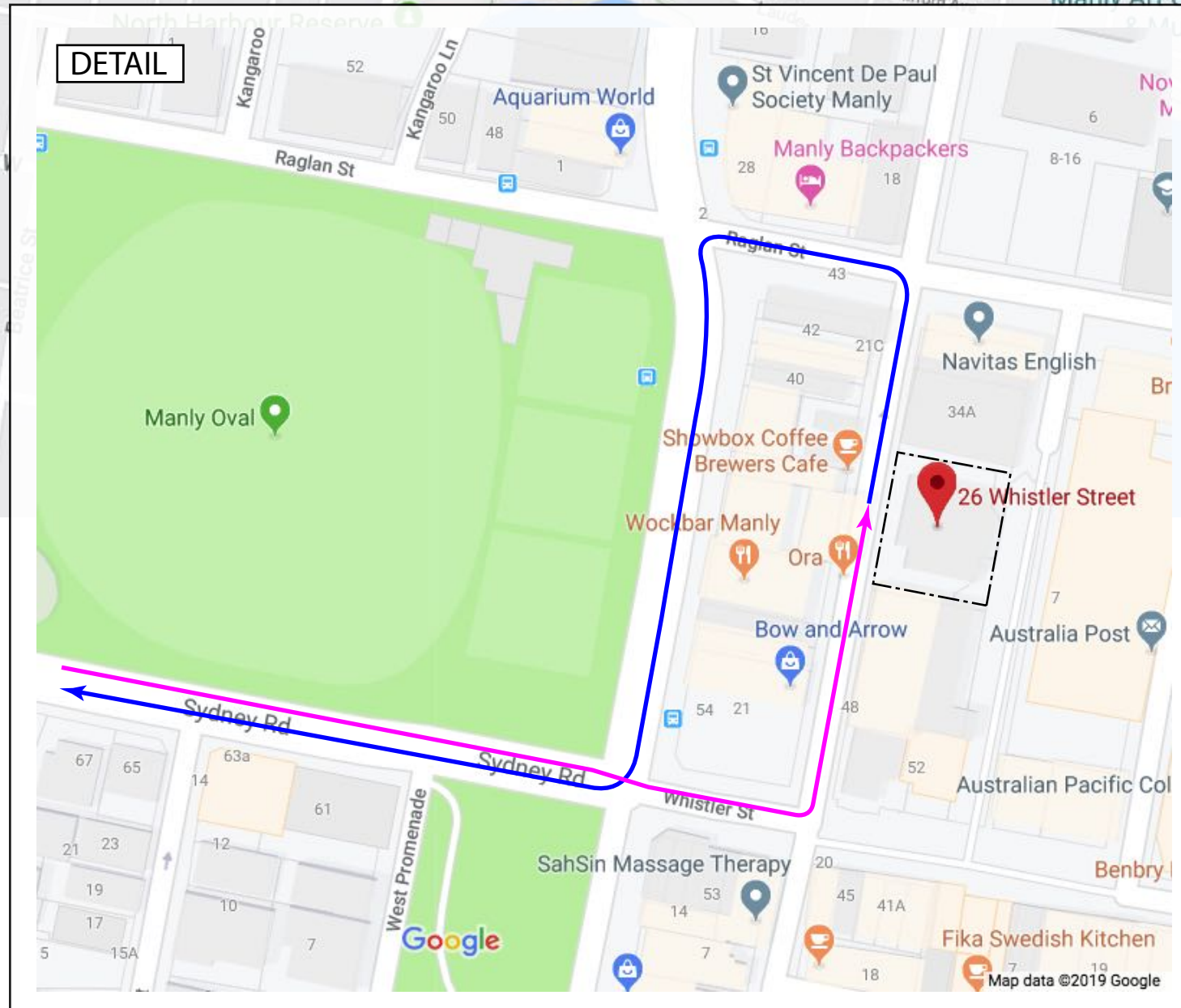
OVERVIEW

# APPROACH AND DEPARTURE ROUTES

## ALL PHASES



DETAIL



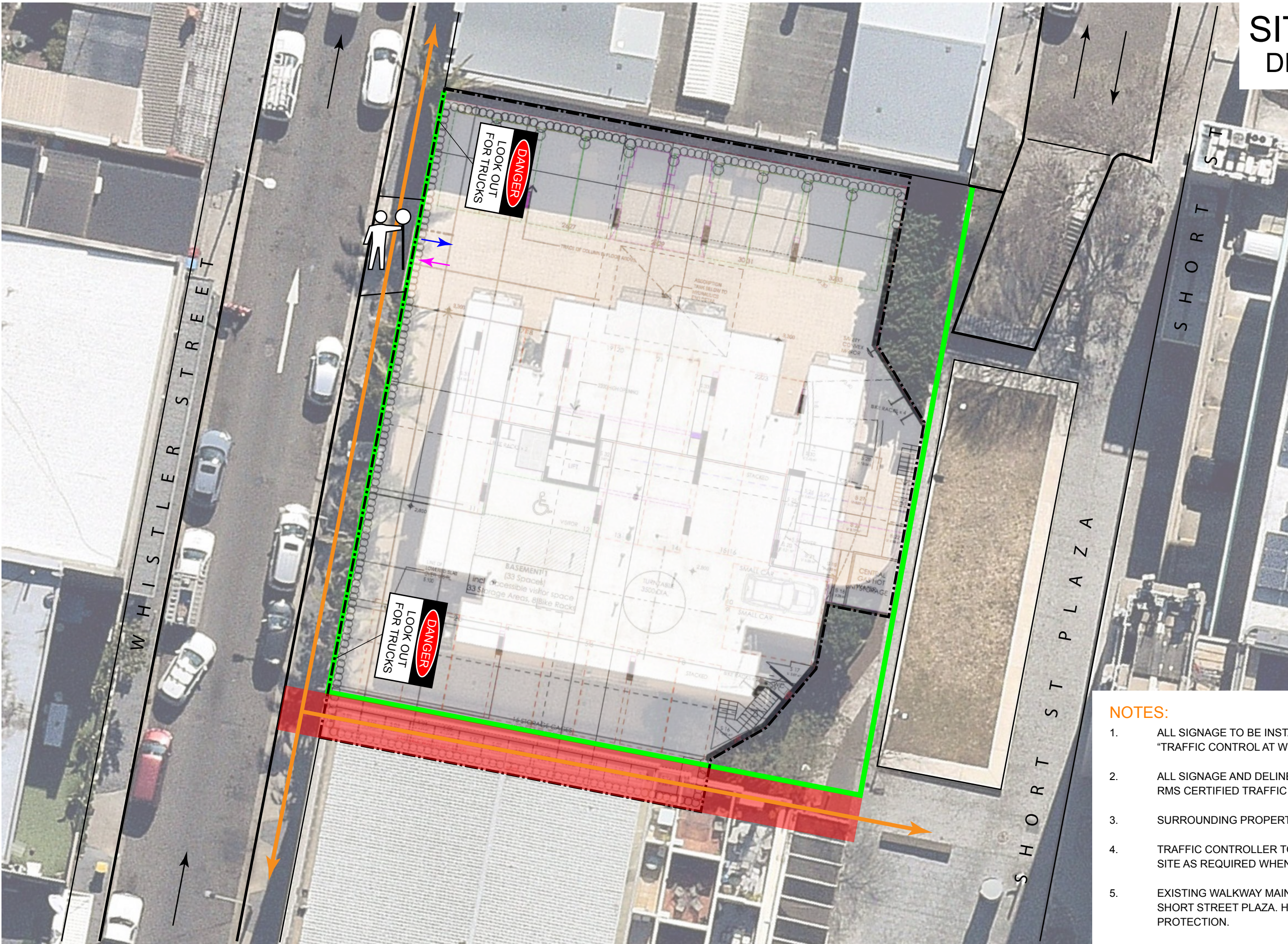
LEGEND:

- 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	



SITE OVERVIEW  
DEMOLITION PHASE



**LEGEND:**

- SITE BOUNDARY
- TRAFFIC FLOW
- SITE ACCESS
- B-CLASS HOARDING
- A-CLASS HOARDING
- PEDESTRIAN ROUTE
- TRAFFIC CONTROLLER

- 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 CONTROLLER TO MANAGE PEDESTRIAN ACCESS PAST THE SITE AS REQUIRED WHEN VEHICLES ARE CROSSING THE FOOTPATH.
  - 5. EXISTING WALKWAY MAINTAINED BETWEEN WHISTLER ST & SHORT STREET PLAZA. HOARDING INSTALLED TO PROVIDE OVERHEAD PROTECTION.

**Sbmg Pty Ltd**  
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TRAFFIC CONTROL  
BUILDING & CONSTRUCTION  
SPECIAL EVENTS  
SWEEP PATH DIAGRAM

Project/Event:	MIXED-USE DEVELOPMENT			
Location:	26 WHISTLER STREET, MANLY NSW			
Client :	LIGHTHOUSE PROJECT GROUP PTY LTD			
Plan No.	SBMG01892-02	A	Date:	24TH MAY 2019
SCALE: NOT TO SCALE				

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

SIGNED:

DATE	DESCRIPTION
	E
	D
	C
	B
24/05/19	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	
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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	



SITE OVERVIEW  
EXCAVATION PHASE

LEGEND:

SITE BOUNDARY

TRAFFIC FLOW

SITE ACCESS

WORKS ZONE

A-CLASS HOARDING

PEDESTRIAN ROUTE

TRAFFIC CONTROLLER

- NOTES:
1.

ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH RMS "TRAFFIC CONTROL AT WORKSITES" MANUAL AND AS1742.3.
2.

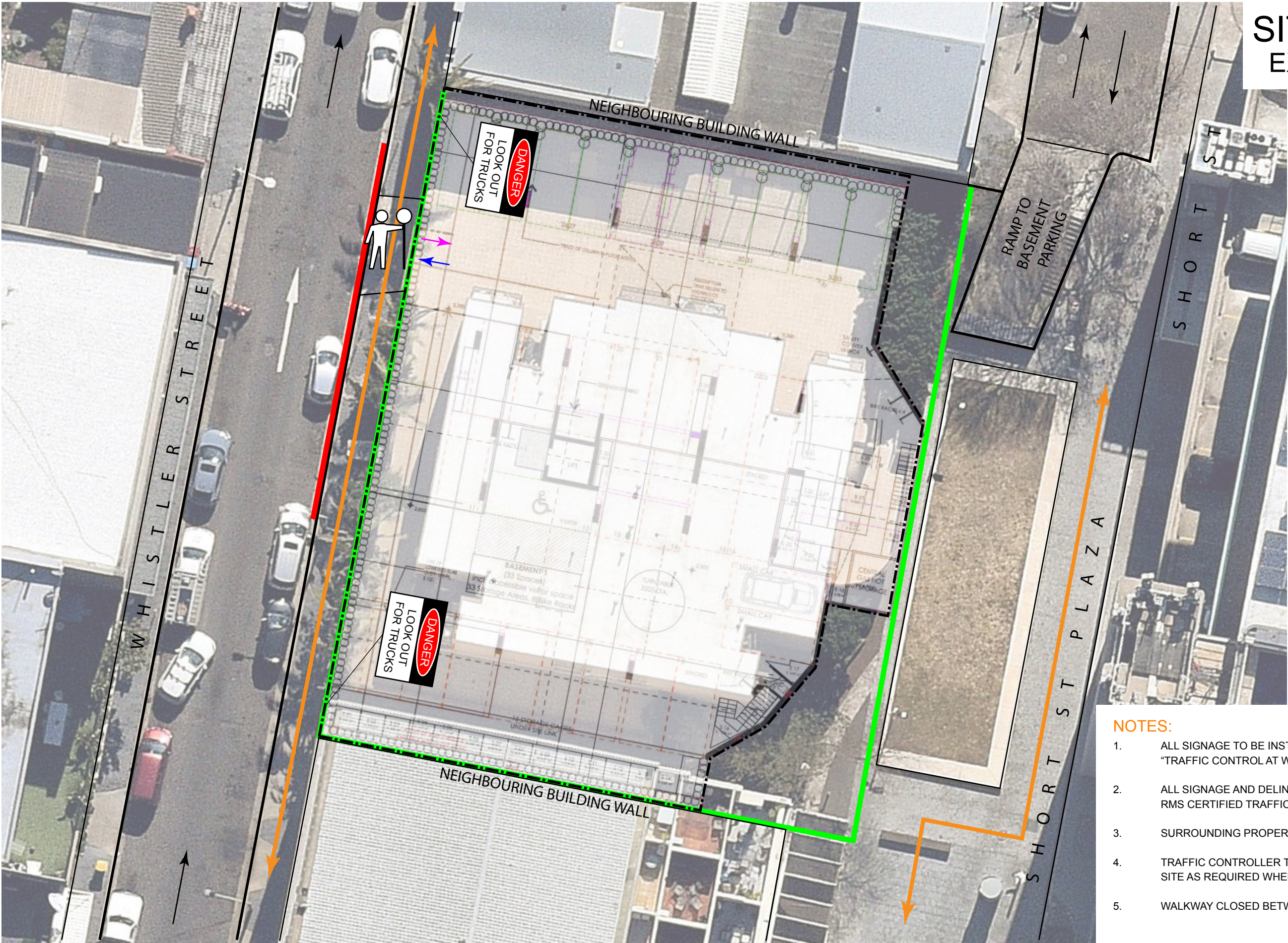
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3.

SURROUNDING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES.
4.

TRAFFIC CONTROLLER TO MANAGE PEDESTRIAN ACCESS PAST THE SITE AS REQUIRED WHEN VEHICLES ARE CROSSING THE FOOTPATH.
5.

WALKWAY CLOSED BETWEEN WHISTLER ST & SHORT STREET PLAZA.

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	
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PLANNING

TRAFFIC CONTROL

BUILDING & CONSTRUCTION

SPECIAL EVENTS

SWEEP PATH DIAGRAMS

Sbmg Pty Ltd

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Project/Event:	MIXED-USE DEVELOPMENT			
Location:	26 WHISTLER STREET, MANLY NSW			
Client :	LIGHTHOUSE PROJECT GROUP PTY LTD			
Plan No.	SBMG01892-03	A	Date:	24TH MAY 2019
SCALE: NOT TO SCALE				

PREPARED BY: MATTHEW YOUNG RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998		DATE	DESCRIPTION
SIGNED:		E	
		D	
		C	
		B	
		24/05/19	A INITIAL SUBMISSION



SITE OVERVIEW  
CONSTRUCTION PHASE  
BASEMENT TO  
GROUND LEVEL

- LEGEND:
- SITE BOUNDARY
  - TRAFFIC FLOW
  - SITE ACCESS
  - B-CLASS HOARDING
  - A-CLASS HOARDING
  - WORKS ZONE
  - SITE SHED / AMENITIES
  - PEDESTRIAN ROUTE
  - TRAFFIC CONTROLLER

- NOTES:
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  - WALKWAY CLOSED BETWEEN WHISTLER ST & SHORT STREET PLAZA.

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Project/Event:	MIXED-USE DEVELOPMENT			
Location:	26 WHISTLER STREET, MANLY NSW			
Client :	LIGHTHOUSE PROJECT GROUP PTY LTD			
Plan No.	SBMG01892-04	A	Date:	24TH MAY 2019
SCALE: NOT TO SCALE				

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

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SITE OVERVIEW  
CONSTRUCTION PHASE  
GROUND LEVEL & ABOVE

- LEGEND:
- SITE BOUNDARY
  - TRAFFIC FLOW
  - SITE ACCESS
  - B-CLASS HOARDING
  - A-CLASS HOARDING
  - WORKS ZONE
  - SITE SHED / AMENITIES
  - STORAGE AREA
  - TOWER CRANE BASE
  - PEDESTRIAN ROUTE
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  - TRAFFIC CONTROLLER TO MANAGE PEDESTRIAN ACCESS PAST THE SITE AS REQUIRED WHEN VEHICLES ARE CROSSING THE FOOTPATH.
  - WALKWAY REOPENED ONCE GROUND LEVEL SLAB HAS BEEN POURED.

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PLANNING

TRAFFIC CONTROL

BUILDING & CONSTRUCTION

SPECIAL EVENTS

SWEEP PATH DIAGRAMS

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m: 0467 370 380

Project/Event:

MIXED-USE DEVELOPMENT

Location:

26 WHISTLER STREET, MANLY NSW

Client :

LIGHTHOUSE PROJECT GROUP PTY LTD

Plan No.

SBMG01892-05

A

Date:

24TH MAY 2019

SCALE: NOT TO SCALE

PREPARED BY: MATTHEW YOUNG

RMS PREPARE A WORKZONE

TRAFFIC MANAGEMENT PLAN

CERTIFICATE No. 0051718998

SIGNED:

DATE

24/05/19

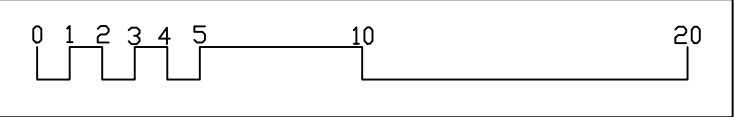
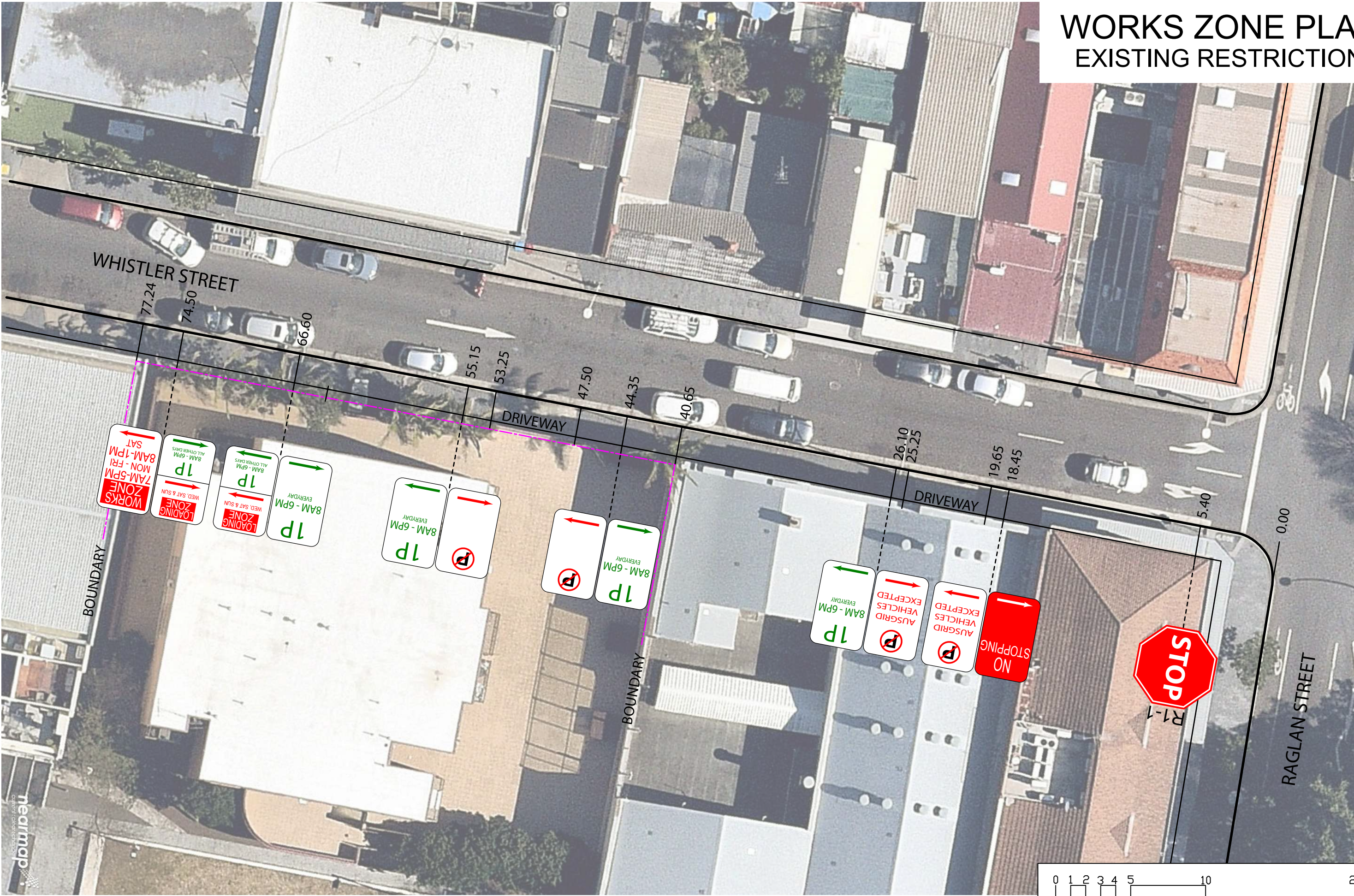
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INITIAL SUBMISSION

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	




WORKS ZONE PLAN  
EXISTING RESTRICTIONS





SBMG

PLANNING



TRAFFIC CONTROL

BUILDING & CONSTRUCTION

SPECIAL EVENTS

SWEEP PATH DIAGRAMS

Sbmg Pty Ltd

ABN: 34 167 185 560

www.sbmglplanning.com.au

matt@sbmgplanning.com.au

m: 0467 370 380

Project/Event:

MIXED-USE DEVELOPMENT

Location:

26 WHISTLER STREET, MANLY NSW

Client :

LIGHTHOUSE PROJECT GROUP PTY LTD

Plan No.

SBMG01892-06

A

Date:

24TH MAY 2019

SCALE: NOT TO SCALE



PREPARED BY: MATTHEW YOUNG

RMS PREPARE A WORKZONE

TRAFFIC MANAGEMENT PLAN

CERTIFICATE No. 0051718998

SIGNED:



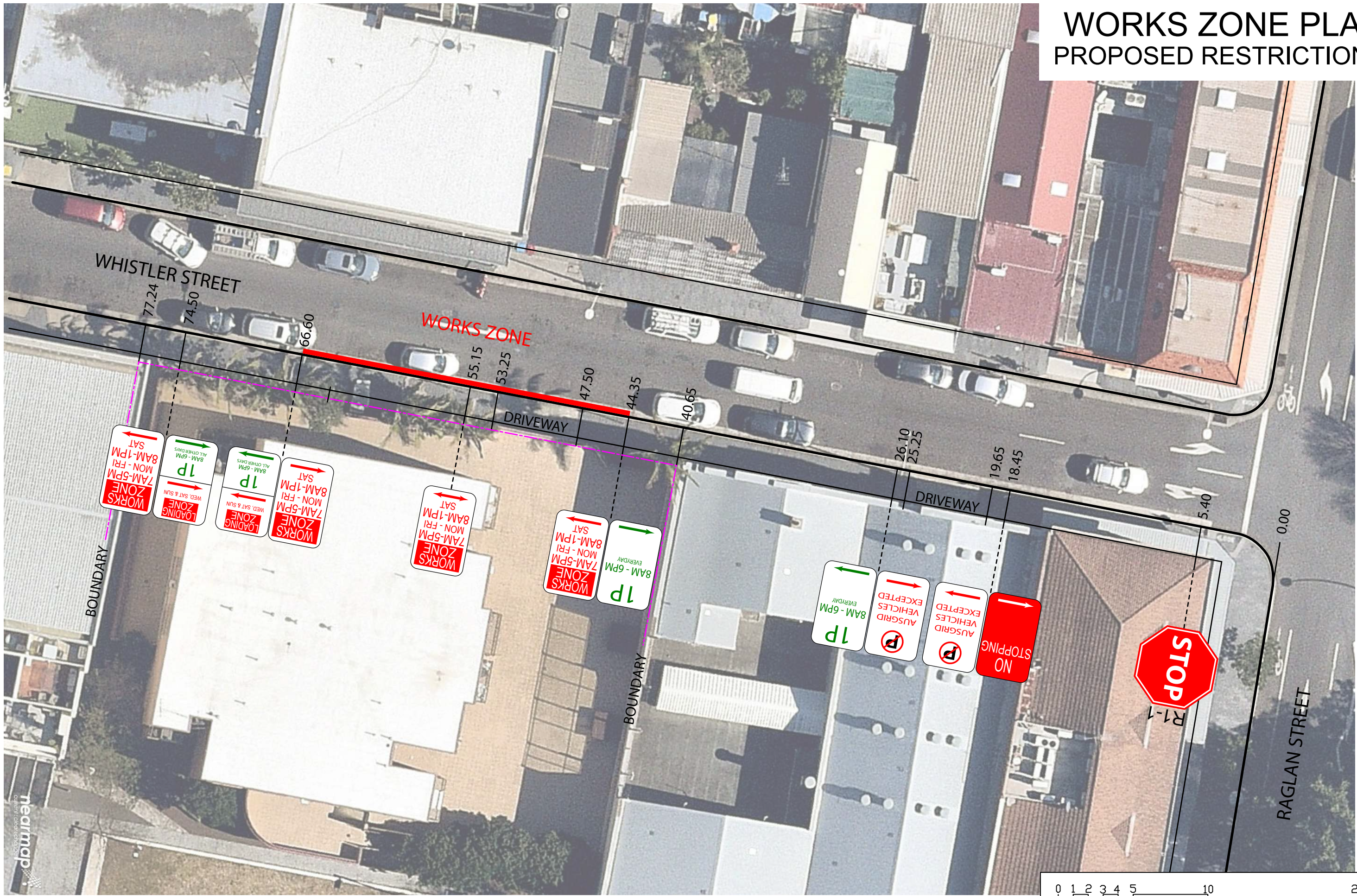
DATE	DESCRIPTION
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	D
	C
	B
24/05/19	A INITIAL SUBMISSION

LEGEND:

SITE BOUNDARY





WORKS ZONE PLAN  
PROPOSED RESTRICTIONS





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www.sbmglplanning.com.au  
matt@sbmglplanning.com.au  
m: 0467 370 380



TRAFFIC CONTROL  
BUILDING & CONSTRUCTION  
SPECIAL EVENTS  
SWEEP PATH DIAGRAM

Project/Event: MIXED-USE DEVELOPMENT

Location: 26 WHISTLER STREET, MANLY NSW

Client : LIGHTHOUSE PROJECT GROUP PTY LTD

Plan No.	SBMG01892-07	A	Date:	24TH MAY 2019
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SCALE: NOT TO SCALE



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

SIGNED: 

DATE	DESCRIPTION
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24/05/19	A INITIAL SUBMISSION

0 1 2 3 4 5 10 20

LEGEND:

 SITE BOUNDARY

 WORKS ZONE



# **Appendix B**



# TRAFFIC CONTROL PLAN

## SITE ACCESS



## 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 CONTROLLER TO MANAGE PEDESTRIAN ACCESS PAST THE SITE AS REQUIRED WHEN VEHICLES ARE CROSSING THE FOOTPATH.
5. TRAFFIC LANE MAINTAINED PAST THE SITE.

LEGEND:



SITE BOUNDARY



## TRAFFIC FLOW




## SITE ACCESS



## PEDESTRIAN ROUTE



TRAFFIC CONTROLLER

Project/Event:	MIXED-USE DEVELOPMENT				
Location:	26 WHISTLER STREET, MANLY NSW				
Client :	LIGHTHOUSE PROJECT GROUP PTY LTD				
Plan No.	SBMG01892-08	A	Date:	24TH MAY 2019	
SCALE: NOT TO SCALE					

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

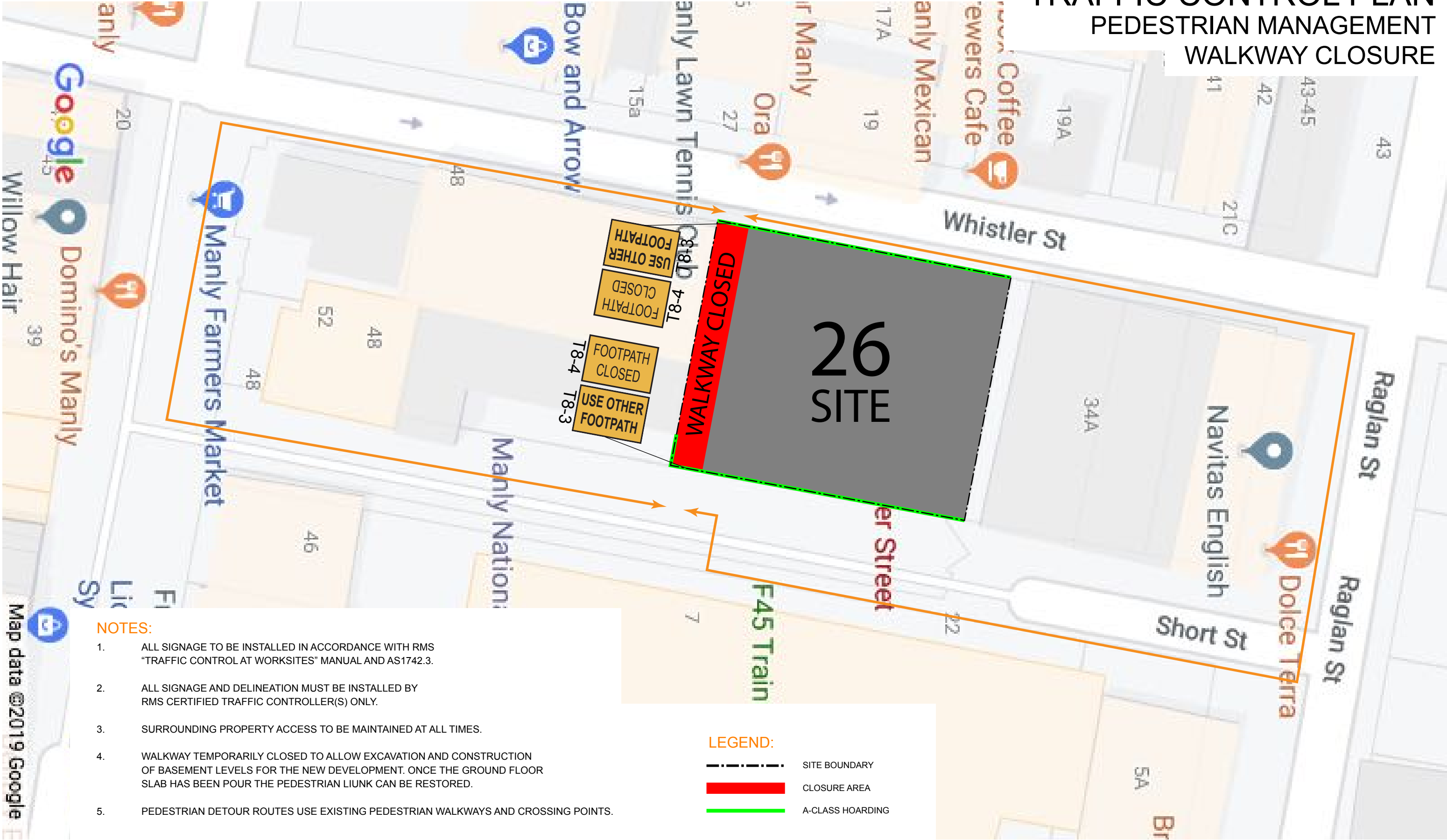
SIGNED: \_\_\_\_\_

DATE		DESCRIPTION
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24/05/19	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 DMS TOWNS MANUAL - 6.0 / TABLE 5.1.5.5.2 REFER TO MANUAL FOR FURTHER INFO			> 105	N/A	110	180	



TRAFFIC CONTROL PLAN  
PEDESTRIAN MANAGEMENT  
WALKWAY CLOSURE



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. WALKWAY TEMPORARILY CLOSED TO ALLOW EXCAVATION AND CONSTRUCTION OF BASEMENT LEVELS FOR THE NEW DEVELOPMENT. ONCE THE GROUND FLOOR SLAB HAS BEEN POUR THE PEDESTRIAN LIUNK CAN BE RESTORED.
- 5. PEDESTRIAN DETOUR ROUTES USE EXISTING PEDESTRIAN WALKWAYS AND CROSSING POINTS.

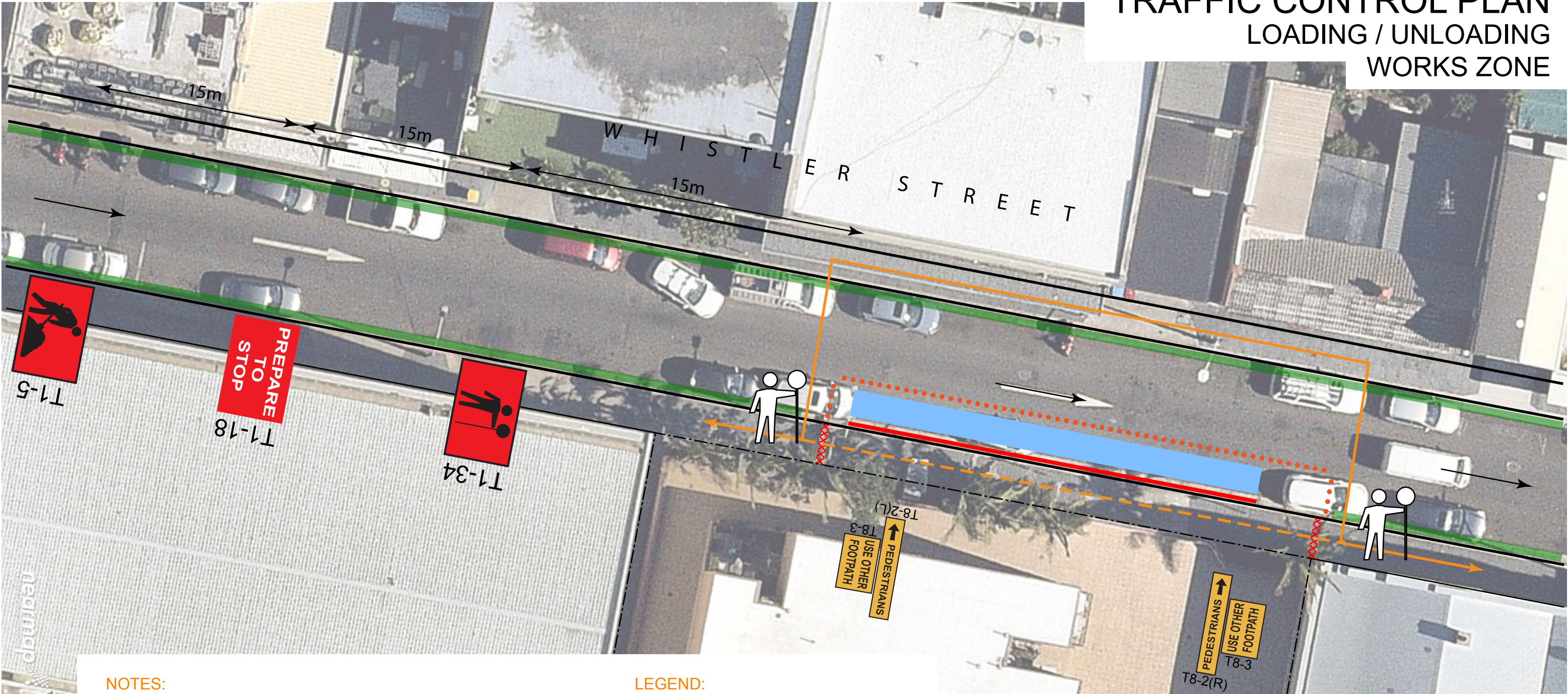
LEGEND:

- SITE BOUNDARY
- CLOSURE AREA
- A-CLASS HOARDING

<



TRAFFIC CONTROL PLAN  
LOADING / UNLOADING  
WORKS ZONE



NOTES:

- ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH RMS "TRAFFIC CONTROL AT WORKSITES" MANUAL AND AS1742.3.
- ALL SIGNAGE AND DELINEATION MUST BE INSTALLED BY RMS CERTIFIED TRAFFIC CONTROLLER(S) ONLY.
- SURROUNDING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES.
- VEHICLES TO STAND WITHIN AN APPROVED WORKS ZONE, MAINTAINING EXISTING TRAFFIC LANE.
- TRAFFIC CONTROLLERS TO DIVERT PEDESTRIANS TO USE THE WESTERN SIDE OF WHISTLER STREET WHEN MATERIAL IS BEING LIFTED OVER THE FOOTPATH. NORMAL FOOTPATH CONDITIONS RESTORED AT OTHER TIMES.

LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- DELINEATION (i.e. TRAFFIC CONES)
- PEDESTRIAN BARRIER
- VEHICLE STANDING
- EXISTING RESTRICTIONS MAINTAINED
- WORKS ZONE
- PEDESTRIAN ROUTE (NORMAL CONDITIONS)
- PEDESTRIAN ROUTE (WHEN MATERIAL IS NOT BEING LIFTED OVER THE FOOTPATH)
- TRAFFIC CONTROLLER

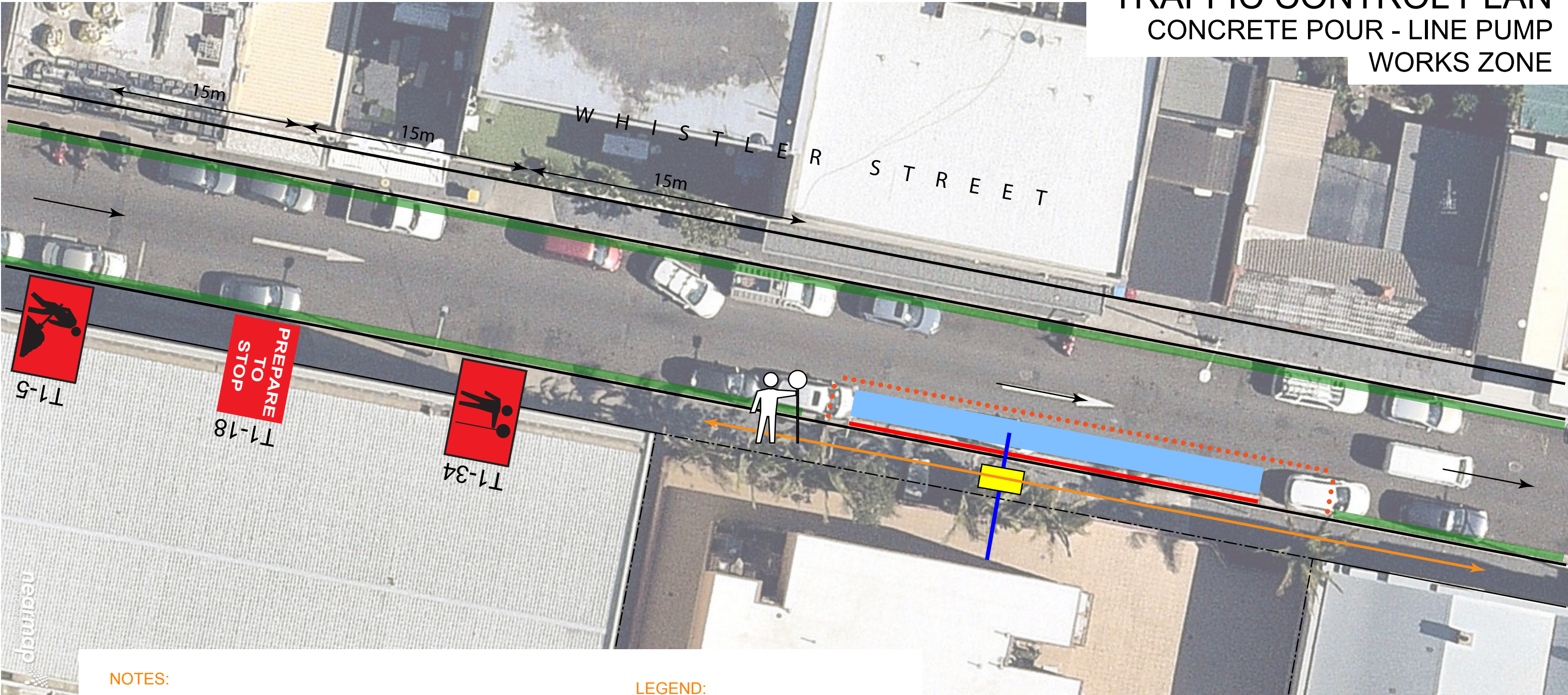
Project/Event:	MIXED-USE DEVELOPMENT			
Location:	26 WHISTLER STREET, MANLY NSW			
Client :	LIGHTHOUSE PROJECT GROUP PTY LTD			
Plan No.	SBMG01892-10	A	Date:	24TH MAY 2019
SCALE: NOT TO SCALE				

PREPARED BY: MATTHEW YOUNG RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998	DATE	DESCRIPTION
	E	
	D	
	C	
	B	
SIGNED:	24/05/19	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	< 45	15	0	15	
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	46-55	15	15	30	
Separating opposing traffic on 2 lane 2 way road	51-70 / >70	12 / 18	56-65	30	30	60	
separating opposing traffic on a multilane undivided road	51-70 / >70	12 / 18	66-75	N/A	70	115	
adjacent to a closed lane on a multilane road	51-70 / >70	18 / 24					
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 - LINE PUMP  
WORKS ZONE



NOTES:

- ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH RMS "TRAFFIC CONTROL AT WORKSITES" MANUAL AND AS1742.3.
- ALL SIGNAGE AND DELINEATION MUST BE INSTALLED BY RMS CERTIFIED TRAFFIC CONTROLLER(S) ONLY.
- SURROUNDING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES.
- VEHICLES TO STAND WITHIN AN APPROVED WORKS ZONE, MAINTAINING EXISTING TRAFFIC LANE.
- PEDESTRIAN ACCESS MAINTAINED WITH TEMPORARY RAMP PLACED OVER THE PUMP LINE. THE PUMP LINE IS PLACED ACROSS THE FOOTPATH ONLY WHEN OPERATING, NORMAL PEDESTRIAN CONDITIONS RESTORED AT OTHER TIMES.

LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- ... DELINEATION (i.e. TRAFFIC CONES)
- VEHICLE STANDING
- TEMPORARY PEDESTRIAN RAMP
- PUMP LINE
- EXISTING RESTRICTIONS MAINTAINED
- WORKS ZONE
- PEDESTRIAN ROUTE
- TRAFFIC CONTROLLER

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TRAFFIC CONTROL  
BUILDING & CONSTRUCTION  
SPECIAL EVENTS  
SWEEP PATH DIAGRAM

Project/Event: MIXED-USE DEVELOPMENT

Location: 26 WHISTLER STREET, MANLY NSW

Client : LIGHTHOUSE PROJECT GROUP PTY LTD

Plan No.	SBMG01892-11	A	Date:	24TH MAY 2019
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SCALE: NOT TO SCALE

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

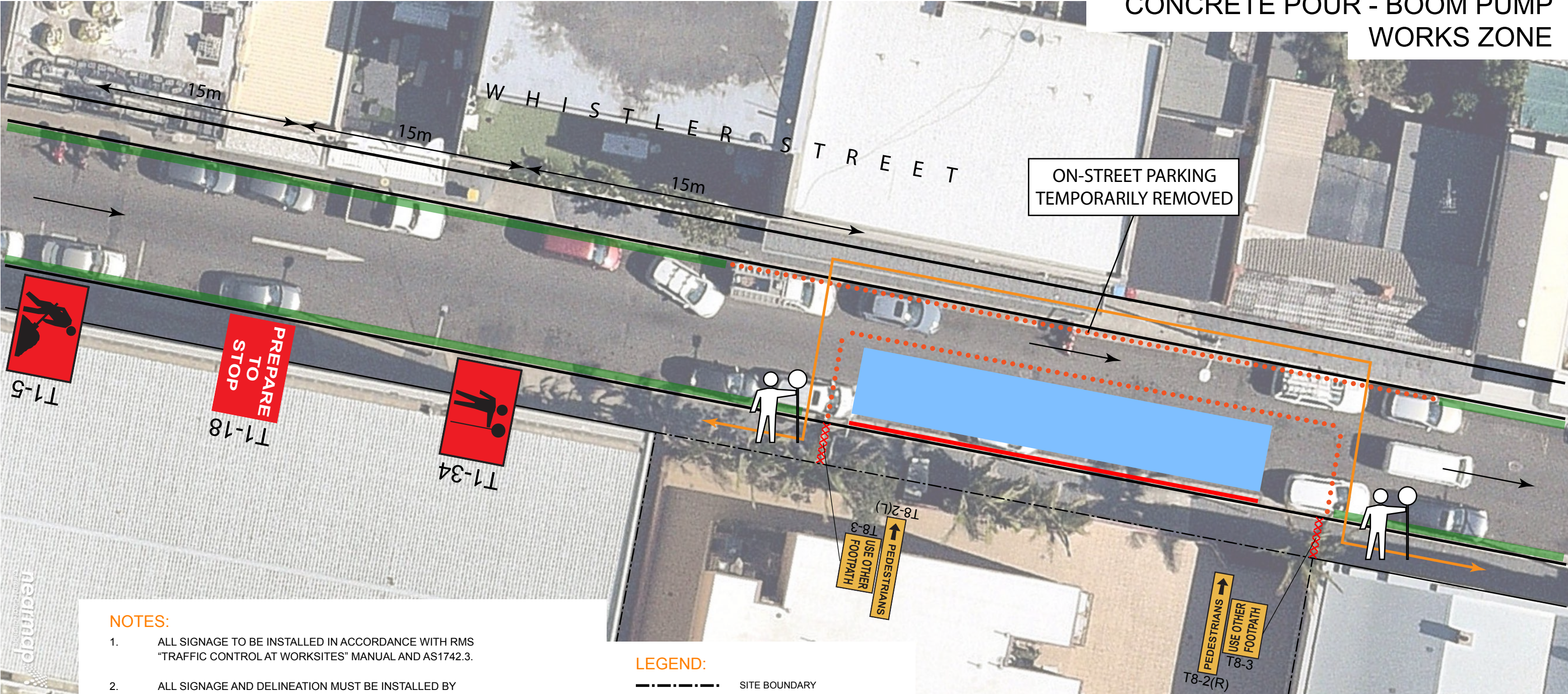
SIGNED:

DATE	DESCRIPTION
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	C
	B
24/05/19	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	< 45	15	0	15	
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	46-55	15	15	30	
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separating opposing traffic on a multilane undivided road	51-70 / >70	12 / 18	66-75	N/A	70	115	
adjacent to a closed lane on a multilane road	51-70 / >70	18 / 24					
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 - BOOM PUMP  
WORKS ZONE



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. VEHICLES TO STAND WITHIN AN APPROVED WORKS ZONE.
- 5. PEDESTRIANS DIRECTED TO USE THE FOOTPATH WESTERN SIDE OF WHISTLER STREET. TRAFFIC CONTROLLERS ONSITE TO ASSIST PEDESTRIANS AS REQUIRED.
- 6. ON-STREET PARKING TEMPORARILY REMOVED TO MAINTAIN TRAFFIC LANE PAST WORK AREA (MINIMUM WIDTH 3.0m). TRAFFIC CONTROLLERS TO MANAGE VEHICLES AS REQUIRED.

LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- ... DELINEATION (i.e. TRAFFIC CONES)
- VEHICLE / PLANT STANDING
- xxxxxx PEDESTRIAN BARRIER
- EXISTING RESTRICTIONS MAINTAINED
- WORKS ZONE
- PEDESTRIAN ROUTE
- TRAFFIC CONTROLLER

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ABN: 34 167 185 560  
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matt@sbmglplanning.com.au  
m: 0467 370 380

Project/Event:	MIXED-USE DEVELOPMENT			
Location:	26 WHISTLER STREET, MANLY NSW			
Client :	LIGHTHOUSE PROJECT GROUP PTY LTD			
Plan No.	SBMG01892-12	A	Date:	24TH MAY 2019
SCALE: NOT TO SCALE				

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

SIGNED:

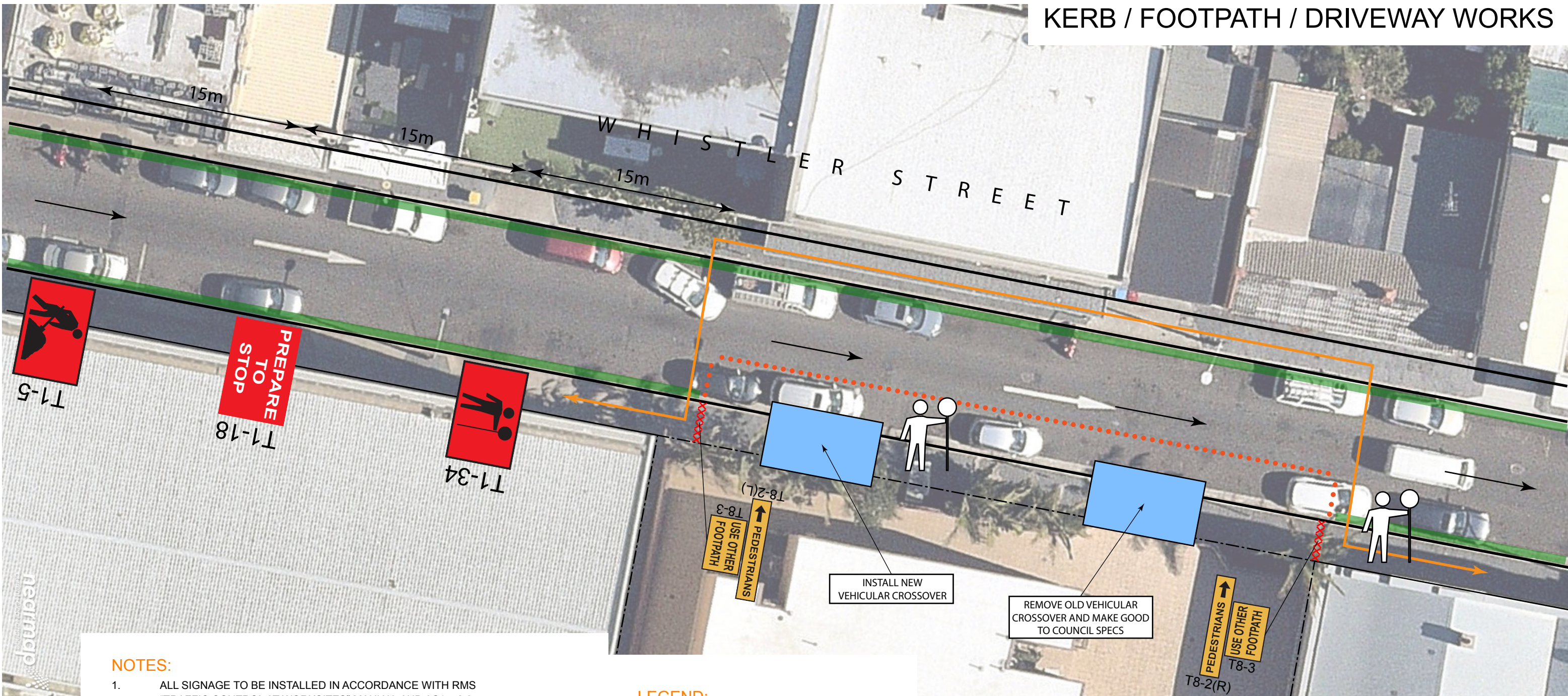
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24/05/19	A INITIAL SUBMISSION

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

## KERB / FOOTPATH / DRIVEWAY WORKS



### NOTES:

- ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH RMS "TRAFFIC CONTROL AT WORKSITES" MANUAL AND AS1742.3.
- ALL SIGNAGE AND DELINEATION MUST BE INSTALLED BY RMS CERTIFIED TRAFFIC CONTROLLER(S) ONLY.
- SURROUNDING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES.
- VEHICLES TO STAND WITHIN AN APPROVED WORKS ZONE, MAINTAINING EXISTING TRAFFIC LANE PAST THE WORK AREA.
- PEDESTRIANS DIRECTED TO USE THE FOOTPATH WESTERN SIDE OF WHISTLER STREET. TRAFFIC CONTROLLERS ONSITE TO ASSIST PEDESTRIANS AS REQUIRED.

### LEGEND:

- SITE BOUNDARY
- TRAFFIC FLOW
- ... DELINEATION (i.e. TRAFFIC CONES)
- WORK AREA
- XXXXXXXXXXXXXXXXXXXX PEDESTRIAN BARRIER
- EXISTING RESTRICTIONS MAINTAINED
- PEDESTRIAN ROUTE
- TRAFFIC CONTROLLER

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	



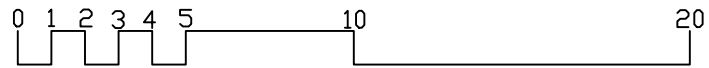
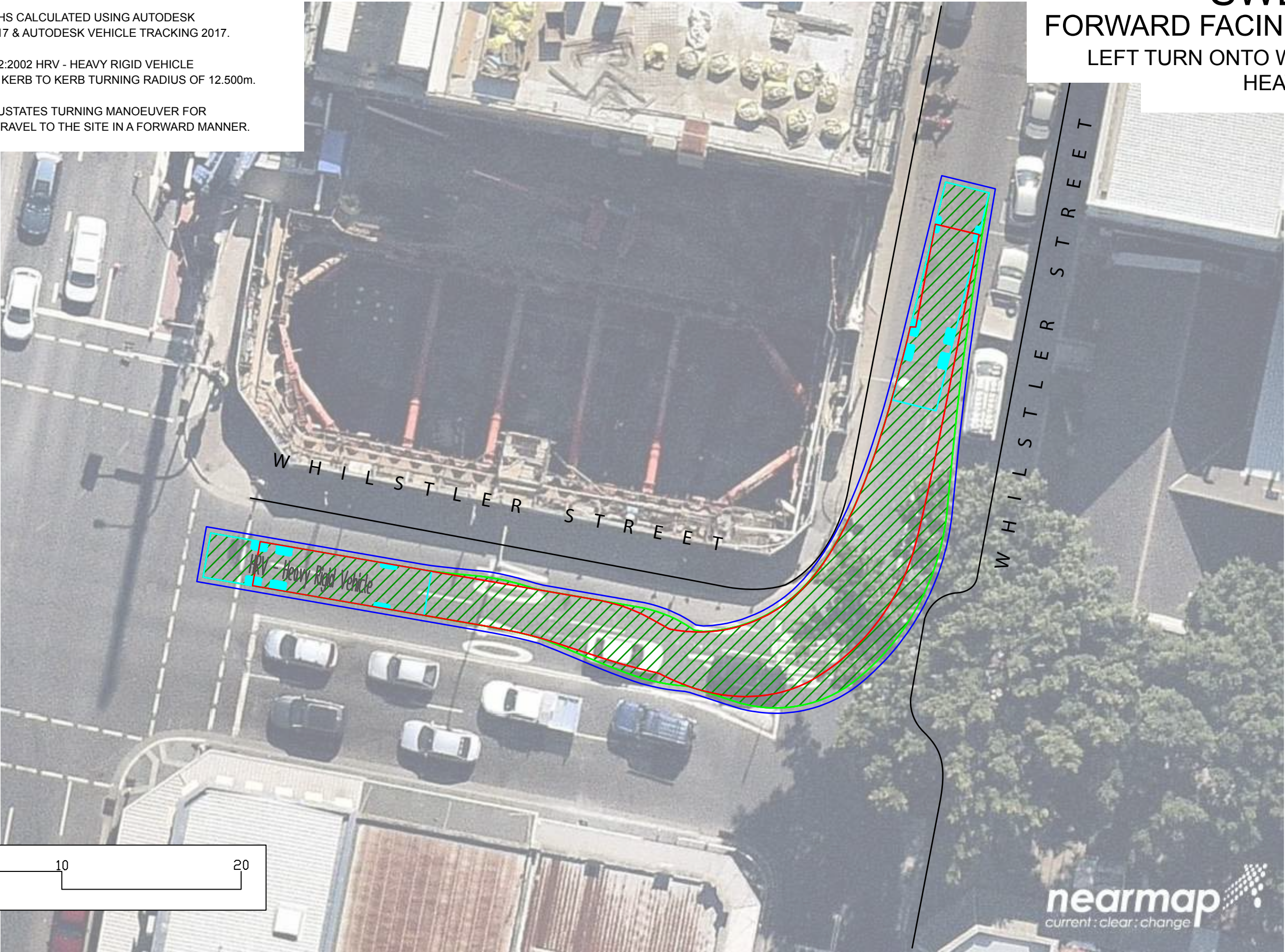
# **Appendix C**



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 ILLUSTRATES TURNING MANOEUVRE FOR TRUCKS TO TRAVEL TO THE SITE IN A FORWARD MANNER.

SWEPT PATH  
FORWARD FACING APPROACH  
LEFT TURN ONTO WHISTLER STREET  
HEAVY RIGID VEHICLE



Project/Event:	MIXED-USE DEVELOPMENT			
Location:	26 WHISTLER STREET, MANLY NSW			
Client :	LIGHTHOUSE PROJECT GROUP PTY LTD			
Plan No.	SBMG01892-14	A	Date:	24TH MAY 2019

PREPARED BY: MATTHEW YOUNG RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998  SIGNED:	DATE	DESCRIPTION
	E	
	D	
	C	
	B	
24/05/19	A	INITIAL SUBMISSION

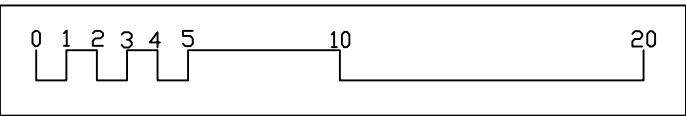
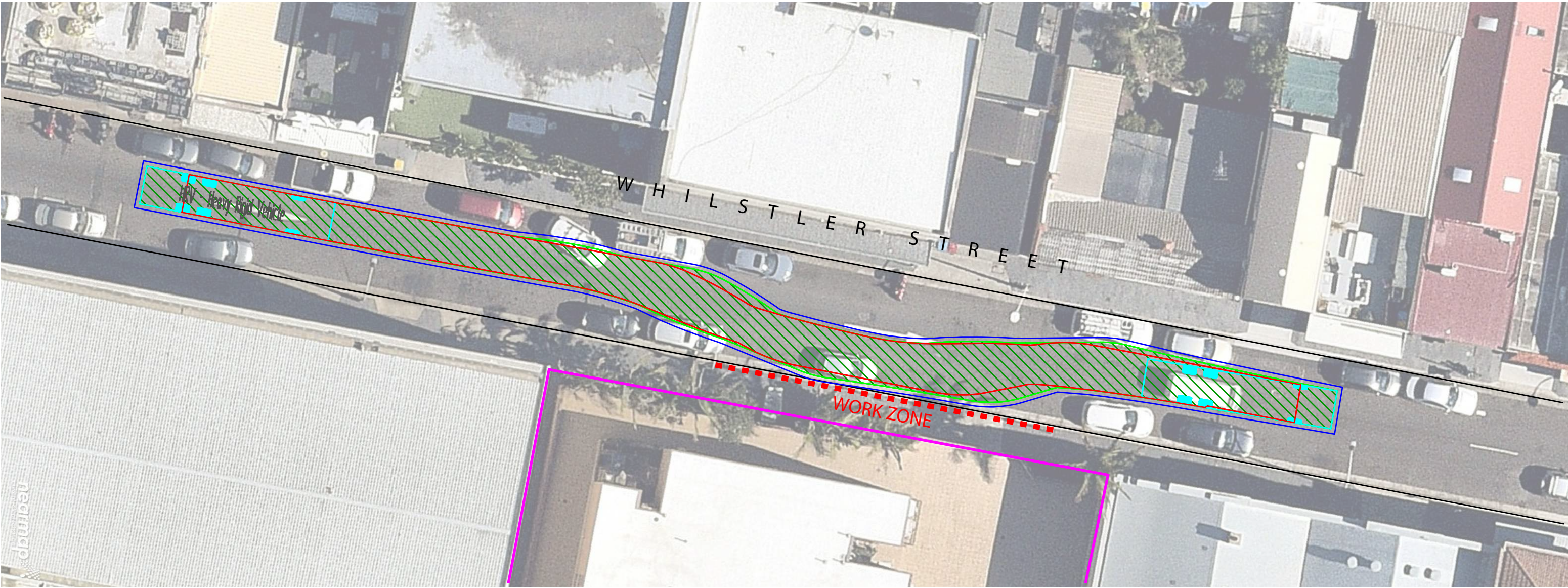
LEGEND:	
	WHEEL PATH - FORWARD MOTION
	FRONT OVERHANG - FORWARD MOTION
	WHEEL PATH - REVERSE MOTION
	FRONT OVERHANG - REVERSE MOTION
	300mm CLEARANCE ENVELOPE
	SITE BOUNDARY



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 ILLUSTRATES TURNING MANOEUVRE FOR TRUCKS TO ENTER AND EXIT THE WORKS ZONE IN A FORWARD MANNER.

SWEPT PATH  
WORKS ZONE ACCESS  
WHISTLER STREET  
HEAVY RIGID VEHICLE







**SBMG**  
PLANNING

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m: 0467 370 380

TRAFFIC CONTROL  
BUILDING & CONSTRUCTION  
SPECIAL EVENTS  
SWEPT PATH DIAGRAMS

Project/Event:	MIXED-USE DEVELOPMENT				
Location:	26 WHISTLER STREET, MANLY NSW				
Client :	LIGHTHOUSE PROJECT GROUP PTY LTD				
Plan No.	SBMG01892-15	A	Date:	24TH MAY 2019	

PREPARED BY: MATTHEW YOUNG RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998  SIGNED: 	DATE	DESCRIPTION
	E	
	D	
	C	
	B	
24/05/19	A	INITIAL SUBMISSION

LEGEND:

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



NOTES:

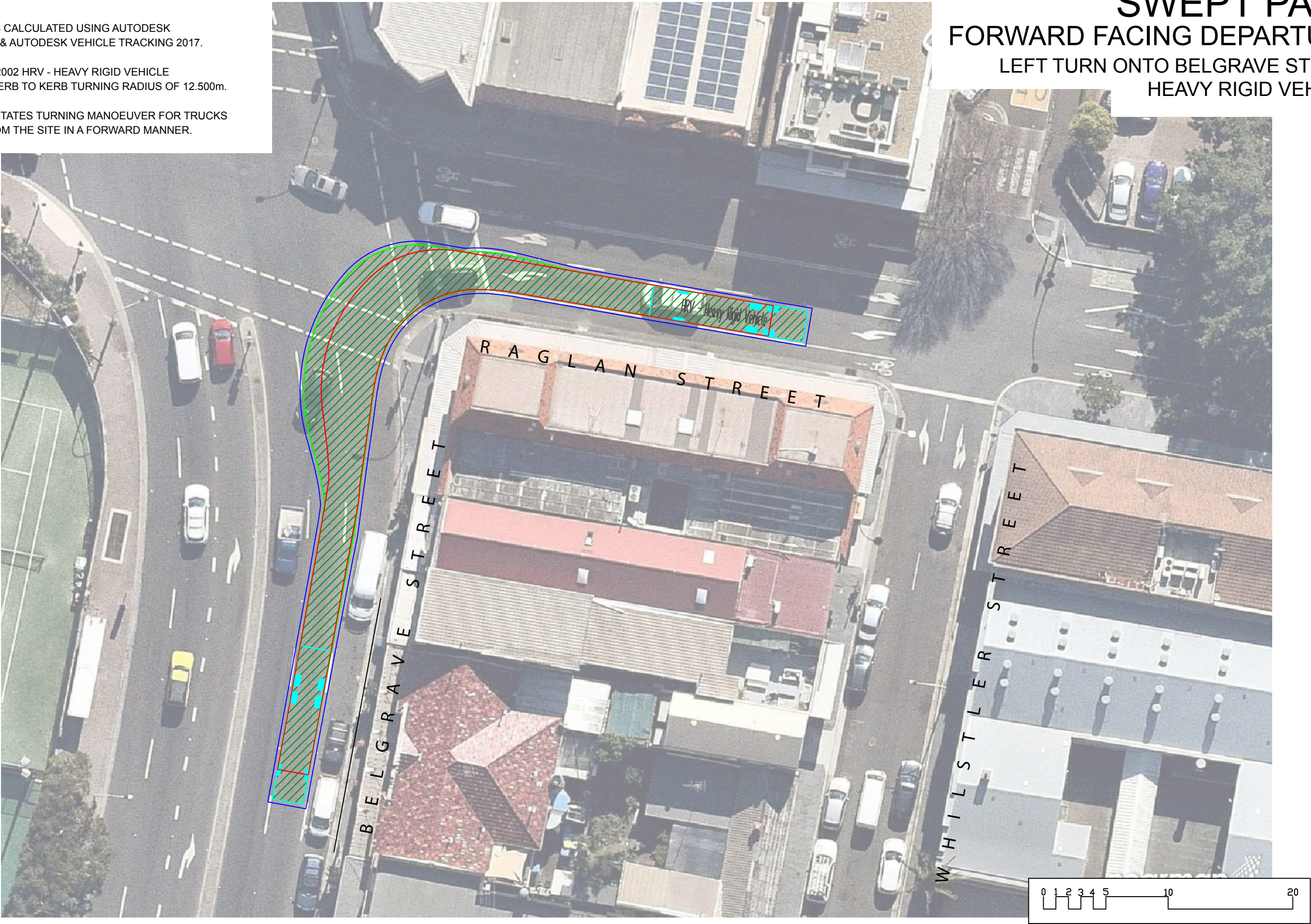
1.
- VEHICLE PATHS CALCULATED USING AUTODESK  
AUTOCAD 2017 & AUTODESK VEHICLE TRACKING 2017.
2.
- AS/NZS 2890.2:2002 HRV - HEAVY RIGID VEHICLE  
USED WITH A KERB TO KERB TURNING RADIUS OF 12.500m.
3.
- DIAGRAM ILLUSTRATES TURNING MANOEUVRE FOR TRUCKS  
TO TRAVEL FROM THE SITE IN A FORWARD MANNER.

SWEPT PATH

FORWARD FACING DEPARTURE

LEFT TURN ONTO BELGRAVE STREET

HEAVY RIGID VEHICLE



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Project/Event:		MIXED-USE DEVELOPMENT			
Location:		26 WHISTLER STREET, MANLY NSW			
Client :		LIGHTHOUSE PROJECT GROUP PTY LTD			
Plan No.		SBMG01892-16	A	Date:	24TH MAY 2019



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

SIGNED:

DATE	DESCRIPTION
	E
	D
	C
	B
24/05/19	A INITIAL SUBMISSION

LEGEND:

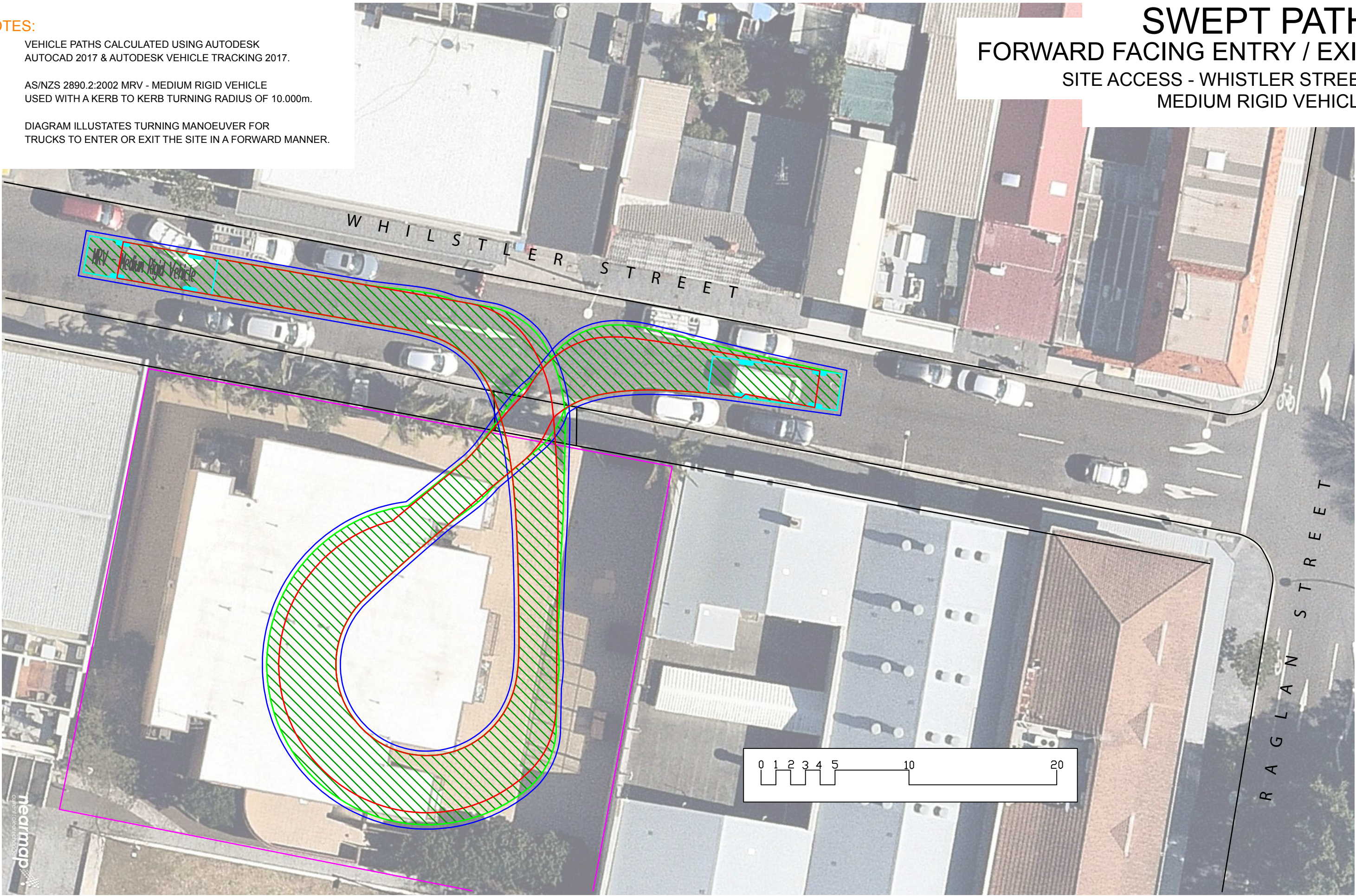
- 
- WHEEL PATH - FORWARD MOTION
- 
- FRONT OVERHANG - FORWARD MOTION
- 
- WHEEL PATH - REVERSE MOTION
- 
- FRONT OVERHANG - REVERSE MOTION
- 
- 300mm CLEARANCE ENVELOPE
- 
- SITE BOUNDARY



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 ILLUSTRATES TURNING MANOEUVRE FOR TRUCKS TO ENTER OR EXIT THE SITE IN A FORWARD MANNER.

SWEPT PATH  
FORWARD FACING ENTRY / EXIT  
SITE ACCESS - WHISTLER STREET  
MEDIUM RIGID VEHICLE






**SBMG**  
PLANNING

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TRAFFIC CONTROL  
BUILDING & CONSTRUCTION  
SPECIAL EVENTS  
SWEPT PATH DIAGRAM

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Client :		LIGHTHOUSE PROJECT GROUP PTY LTD			
Plan No.		SBMG01892-17	A	Date:	24TH MAY 2019

PREPARED BY: MATTHEW YOUNG RMS PREPARE A WORKZONE TRAFFIC MANAGEMENT PLAN CERTIFICATE No. 0051718998  SIGNED: 	DATE		DESCRIPTION
		E	
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		C	
		B	
	24/05/19	A	INITIAL SUBMISSION

LEGEND:

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