

# MINUTES

## CITY OF WOLLONGONG TRAFFIC COMMITTEE



MEETING HELD AT 9.15AM ON WEDNESDAY 31 MAY 2017

### RECOMMENDATION

In accordance with the powers delegated to Council by the Road Transport Act 2013 and the Roads Act 1993, as outlined in the RMS document 'A guide to the Delegation to Councils for the Regulation of Traffic – including the operation of Traffic Committees':

- 1 The remaining Recommendations of the City of Wollongong Traffic Committee (excluding all Temporary Road Closures which require adoption by full Council), be adopted.
- 2 Appropriate persons and Departments be advised of Council's decisions.

Author's Name	Author's Title	Date
Lindsay Dunstan	Senior Traffic Engineer	19 June 2017
Ted Collins	Traffic Unit Manager	19 June 2017
Peter Nunn	Transport and Stormwater Services – Manager	20 June 2017
Mike Dowd	Infrastructure Strategy and Planning – Manager	22 June 2017
Greg Doyle	Director – Infrastructure and Works	22 June 2017

### MINUTES ENDORSED BY

Items 1 - 5 and 11 – 13 to be adopted by the General Manager through delegated authority.

Items 6 - 10 of the meeting must be determined by Council and are recommended to Council for approval for the temporary regulation of traffic on public roads for works or events by independent parties.

Name	Title	Date
David Farmer	General Manager	23 June 2017

## Wollongong City Council

Infrastructure, Strategy and Planning Division  
Transport and Stormwater

**The City of Wollongong Traffic Committee** is not a Committee of Wollongong City Council however a Technical Committee of the Roads & Maritime Services (RMS). The Committee operates under the authority conferred to Council by the RMS under the Transport Administration Act 1988. Council has resolved to manage the Traffic Committee under a Charter which sets out the membership, timelines for the preparation of the Agenda and the distribution of Minutes, in accordance with the RMS document 'A guide to the delegation to councils for the regulation of traffic' (including the operation of Traffic Committees.)

Council has been delegated certain powers, from the RMS, with regard to traffic matters upon its local roads. A condition of this delegation is that Council must take into account the Traffic Committee recommendations.

**There are four permanent members of the Traffic Committee, each of whom has a single vote only.**

- The members are representatives of the NSW Police Force, the Roads & Maritime Services, the Local State Member of Parliament (for the location of the issue to be voted upon), and a representative of Wollongong City Council.
- If the RMS or NSW Police Force disagrees with any Traffic Committee recommendation, or Council's resolution on any Traffic Committee recommendation, that member may lodge an appeal with the Regional Traffic Committee for determination. The appeal must be lodged in writing within 14 days of Council's resolution. Any action relative to any issue under appeal must cease until the matter is determined. The Regional Traffic Committee is chaired by an independent chairperson and submissions and representations are welcomed from all interested parties.

### IMPORTANT NOTE:

Council can only recommend that:

- 1 **The Traffic Committee recommendation be adopted.**
- 2 **The Traffic Committee recommendation not be adopted.**
- 3 **The Traffic Committee reconsider this issue.**

City of Wollongong Traffic Committee Meeting  
Wollongong City Council Administration Building  
Level 10 Committee Rooms 2 & 3  
Commencing at 9.15 am

# MINUTES

## CITY OF WOLLONGONG TRAFFIC COMMITTEE

9.15AM ON WEDNESDAY 31 MAY 2017

PRESENT	
Mike Dowd – Chairman, Manager Infrastructure Strategy & Planning	Wollongong City Council
Lindsay Dunstan – Senior Traffic Engineer	Wollongong City Council
Debra Nicholls– Road Safety Officer	Wollongong City Council
Tania Martin – Administration Officer	Wollongong City Council
Danny Benedetti	NSW Roads & Maritime Services
Snr Constable Andrew Cotton	NSW Police
David Cratchley	Premier Illawarra
Les McMahon	Representing Paul Scully MP, Anna Watson MP and Ryan Park MP
Councillor Jill Merrin	Representing Ward 1
Les Dion	Dion Bus Services

APOLOGIES	
Councillor Michelle Blicavs	Representing Ward 2
Councillor Vicki Curran	Representing Ward 3

CONFIRMATION OF MINUTES OF MEETING HELD ON 26 April 2017.

BUSINESS ARISING: NONE

## GENERAL BUSINESS

	Suburb	Street(s)	Issue
1	TOWRADGI	Moray Road	Mobility Parking at Ray Robinson Field
2	WOLLONGONG	Parkside Avenue	Parking concerns
3	WOLLONGONG	Church Street	Relocation of No Stopping Sign
4	WOLLONGONG	Campbell Street	Installation of Line Marking
5	WOLLONGONG	Burelli Street	Proposal for Taxi Zone

## REGULATION OF TRAFFIC

	Suburb	Street(s)	Issue
6	OTFORD	Station, Beaumont and Fanshawe Roads and Lady Wakehurst Drive	Coastal Classic Event Sunday 2 September
7	CORRIMAL	Princes Highway, Underwood, Railway, Collins, Wilga and Short Streets	Spring into Corrimal Event Sunday 10 September 2017
8	BALGOWNIE	Balmoral Street	Syro Malabar Church St Thomas Feast Day Sunday 16 July 2017
9	WOLLONGONG & MT KEMBLA	Cliff Road and Stuart Park	Harley Days 2017 Thunder Run Event Sunday 29 October 2017
10	WOLLONGONG	Staff Street	Removal of Tower Crane Thursday 29 – Friday 30 June 2017

## DESIGN MATTERS

	Suburb	Street(s)	Issue
11	MT KEMBLA	Cordeaux Road	Re-directive median barrier
12	UNANDERRA	Waples Road	Refuge pedestrian crossing near Coachwood Drive
13	WARRAWONG	Flagstaff Road	Adjustments to traffic islands at pedestrian signal crossing for Warrawong High School

## INFORMAL ITEM

	Suburb	Street(s)	Issue
14	RUN WOLLONGONG	Lang Park, Cliff Road, George Hanley Drive, Harbour Street, Marine Drive, Endeavour Drive, Carters Lane, Elliotts Road and Squires Way	Run Wollongong Event Sunday 15 October 2017

## GENERAL BUSINESS

### 1 TOWRADGI – WARD 1

Moray Road – Mobility Parking at Ray Robinson Field.

**Background:**

Council has received a request from a sporting club for two mobility parking spaces to be provided in the car park off Moray Road, adjacent to the Ray Robinson Sporting field (Towradgi Park). There is room for two adjoining mobility parking spaces immediately south of the buildings on the eastern edge of the carpark.

**Consultation:**

Consultation regarding this Agenda item was carried out with the applicant.

**PROPOSAL SUPPORTED UNANIMOUSLY**

Install two mobility parking spaces immediately south of the buildings on the eastern edge of the carpark off Moray Road.

### 2 WOLLONGONG - WARD 2

Parkside Avenue – Parking Concerns.

**Background:**

A resident of a unit block in Parkside Avenue has asked that part of the No Stopping area be altered to No Parking restrictions. This will permit vehicles to stop for local residents in a drop off / pick up zone. At present there are no opportunities for such an area due to the high parking demand for both the timed and unrestricted parking areas at the kerb and this current length of No Stopping restrictions.

**Consultation:**

No consultation was required for this Agenda item.

**PROPOSAL SUPPORTED UNANIMOUSLY**

Install one 6 metre length of No Parking restrictions to replace No Stopping on the northern side of Parkside Avenue at the beginning of the turning circle.

### 3 WOLLONGONG – WARD 2

Church Street – Relocation of No Stopping Sign.

**Background:**

Residents in the northern end of Church Street have advised that vehicles frequently park in a very short space located between the driveways of No. 22 and No. 24 Church Street. As the space is less than 3 metres long any vehicle in this location will obstruct one or other of the driveways. In this case, the issue can be easily resolved by relocating the no stopping sign a distance of about 12 metres to the southern side of the driveway to No. 24 Church Street.

**Consultation:**

The relocation of the sign will benefit residents in both affected buildings and no other consultation has been carried out.

**PROPOSAL SUPPORTED UNANIMOUSLY**

Relocate the No Stopping sign from the current location to the southern side of the driveway to No.24 Church Street.

### 4 WOLLONGONG – WARD 2

Campbell Street – Installation of line marking

**Background:**

Council officers have observed that a short section of Campbell Street between Church and Corrimal Streets does not have continuous centre line markings. The volume of traffic on Campbell Street makes it desirable for centre line markings to improve the delineation for drivers.

**Consultation:**

No consultation was required for this Agenda item.

**PROPOSAL SUPPORTED UNANIMOUSLY**

Install double barrier centre line markings in the gaps between the existing double barrier centre line in Campbell Street between Corrimal and Church Streets.

**5 Wollongong – Ward 2**

Burelli Street – Proposal for Taxi Zone

**Background:**

During the recent cruise ship visits Council provided a temporary taxi zone on the southern side of Burelli Street, to east of Kembla Street. The taxi zone was used by other visitors to the CBD besides the cruise ship patrons and it is desirable to improve the visibility of taxi service by the installation of this short permanent taxi zone. The existing ¼ hour free parking zone would be reduced to five spaces.

**Consultation:**

Council has undertaken detailed consultation with the Wollongong Radio Cabs and business operators at 43 Burelli Street are to be notified prior to installation.

**PROPOSAL SUPPORTED UNANIMOUSLY**

Install a two car space taxi zone on the southern side of Burelli Street immediately east of the No Stopping area on the approach to Kembla Street.

REGULATION OF TRAFFIC

**6 OTFORD - WARD 1**

Coastal Classic Event 2 September 2017

Lady Wakehurst Drive, Station, Beaumont and Fanshawe Roads

**Background:**

The Coastal Classic event has been held for a number of years and involves participants starting at the Otford Public School in Station Road, Otford and proceeding north into the Royal National Park. The route crosses Lady Wakehurst Drive under a hold and release arrangement approved previously by NSW Roads and Maritime Services, with local roads closed between 6.00am and 10.30am.

**Consultation:**

Consultation regarding this event is a condition of the approval for the road closures and it is understood that the organisers have a standing agreement from Otford Public School for the use of their site to marshal the participants.

**PROPOSAL SUPPORTED UNANIMOUSLY**

The proposed road closure be approved subject to submitted traffic management plans (Attachment 3) and Council's Standard Conditions for Road Closures (Attachment 1)

**7 CORRIMAL - WARD 1**

Spring into Corrimal Event - 10 September 2017

Princes Highway, Underwood, Railway, Collins, Wilga and Short Streets

**Background:**

The Spring into Corrimal event involves the closure of the Princes Highway through the Corrimal CBD between Short Street, Tarrawanna Road and Collins Street. The closure of the highway and the adjoining side streets, including Wilga Street will take effect from 6.00am through to 5.00pm on the day. The Traffic Management Plan will include the relocation of bus and taxi zones to Underwood Street, which are to have traffic controllers in position to ensure they remain open for public transport services. The road closures involve a number of traffic signals and accordingly require formal approval from NSW Roads and Maritime Services.

**Consultation:**

Consultation regarding this event and associated road closures is a condition of approval.

**PROPOSAL SUPPORTED UNANIMOUSLY**

The proposed road closures be approved subject to:

- Temporary bus stops be installed on opposites sides of Underwood Street, immediately north of Francis Street with traffic controller in attendance. The temporary bus zones are to be established prior to the road closures taking effect (preferably the evening before)
- Submitted traffic management plans (Attachment 4)
- Council's Standard Conditions for Road Closures (Attachment 1)

**8 BALGOWNIE - WARD 1**

Balmoral Street – Syro Malabar Church Procession.

**Background:**

The Syro Malabar Church located in Balmoral Street has requested a street party style road closure to permit a short parade on 16 July 2017. Balmoral Street will be closed between Kembla Street and the Parkway from 1.00pm to 2.15pm on the day. The church has provided a signed petition from residents in the area indicating that they support this event.

**Consultation:**

Consultation has been carried out prior to the application being made.

**PROPOSAL SUPPORTED UNANIMOUSLY**

The proposed road closure be approved subject to traffic management plans (Attachment 5) and Council's Standard Conditions for Street Parties (Attachment 2).

**9 WOLLONGONG - WARD 2**

Thunder Run for Harley Davidson – Sunday 29 October 2017 - Cliff Road, Squires Way, George Hanley Drive, Clive Bissell Drive, Mt Keira Road, Harry Graham Drive and Cordeaux Road.

**Background:**

After a successful Harley Days event in 2016 it is proposed the event be held in a similar way in 2017 on the weekend of 28- 29 October. The event only requires the regulation of traffic on public roads for the Thunder Run on Sunday 29 October. The Thunder Run involves participating motorcycle riders assembling at the Innovation Campus off Squires Way and travelling northwards to Towradgi Road, Memorial Drive, Mt Ousley Road, Clive Bissell Drive, Mt Keira Road, Harry Graham Drive, Cordeaux Road, Princes Highway, Five Islands Road, Springhill Road, Corrimall Street and Kembla Street to Stuart Park.

The Thunder Run begins at 9.00am and is expected to be completed by 11.00am at Stuart Park. The organisers have arranged for marshals and traffic controllers at the points indicated on the TMP, and there are contingency plans in place for weather or road conditions which may affect the Thunder Run. NSW RMS and the NSW Police have been involved in assisting the organisers to prepare this application. Separate approvals are required from both Police and NSW Roads and Maritime Services.

**Consultation:**

Consultation is a condition of approval for the road closures and regulation of traffic for this event.

**PROPOSAL SUPPORTED UNANIMOUSLY**

The proposed road closures and regulation of traffic be approved subject to:

- Additional Marshals to be located in Towradgi Road east of the railway bridge to warn riders of the limited sight distance and the traffic signals ahead.
- The submitted traffic management Plans (Attachment 6)
- Council's Standard Conditions for Road Closures (Attachment 1)

**10 WOLLONGONG WARD 2**

Staff Street – Road closure for dismantling of tower crane – Thursday 29<sup>th</sup> and Friday 30<sup>th</sup> June 2017 with alternative dates in case of poor weather listed as 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> July 2017

**Background:**

The builder of a site in Staff Street, Wollongong adjacent to the intersection with Allan Street has requested a road closure for the dismantling of the tower crane. The closures will take effect from 6am to 5pm each day however residents will be permitted normal access from Crown Street.

The builder has requested three alternate dates, Wednesday to Friday 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> July 2017 in case of poor weather conditions. A similar closure was in place for the assembly of the crane and the closure was effected without incident.

**Consultation:**

Consultation regarding this Agenda item is a condition of approval.

**PROPOSAL SUPPORTED UNANIMOUSLY**

The proposed road closure be approved subject to submitted traffic management plans (Attachment 7) and Council's Standard Conditions for Road Closures (Attachment 1)

DESIGN MATTERS

**11 MT KEMBLA - WARD 2**

Cordeaux Road – Centre Median Strip.

**Background:**

Council has prepared plans for the construction of a central median on a steep curve of Cordeaux Road to the west of Benjamin Road. The median has been designed to prevent vehicles crossing to the incorrect side of the road. The plans were tabled at the meeting.

**Consultation:**

Consultation has taken place with the operators of the Dendrobium coal mine to ensure that special long loads needed to service the mine can be driven around the curve safely.

**PROPOSAL SUPPORTED UNANIMOUSLY**

Plan 6017 be approved (Attachment 8).

**12 UNANDERRA - WARD 2**

Waples Road – Pedestrian Refuge Crossing Facility.

**Background:**

Council's Design Team has prepared revised plans for the pedestrian refuge crossing facility adjacent to the intersection of Waples Road with Coachwood Drive adjacent to Cedars Christian School. The plans were tabled at the meeting.

**Consultation:**

Consultation regarding this Agenda item has been carried out with the school community of Cedars Christian School.

**PROPOSAL SUPPORTED UNANIMOUSLY**

Plan 6075 be approved. (Attachment 9)

**13 WARRAWONG - WARD 3**

Flagstaff Road - Adjustments to traffic islands.

**Background:**

Council's Design Team has prepared plans to adjust the traffic islands at the traffic signals which service Warrawong High School. The plans are to be tabled at the meeting.

**Consultation:**

Consultation regarding this Agenda item has been carried out with adjoining neighbours, NSW Roads & Maritime Services and the Warrawong High School Community.

**PROPOSAL SUPPORTED UNANIMOUSLY**

Plan 6074 be approved. (Attachment 10)



INFORMAL ITEM

**14 WOLLONGONG - WARD 2**

Run Wollongong Event - Sunday 15 October 2017. Lang Park, Cliff Road, George Hanley Drive, Harbour Street, Marine Drive, Endeavour Drive, Carters Lane, Elliotts Road and Squires Way.

**Background:**

The TMP for Run Wollongong was discussed in detail and there were a number of concerns which required significant changes to the management of the event. Subsequent to the meeting the organisers were advised of the Committee's concerns and it is hoped that amended plans will be submitted in time for the next Traffic Committee meeting on 21 June 2017.

Minutes to be confirmed at the next meeting to be held at 9.15am on 21 June 2017.

<b>2017 Traffic Committee Meetings</b>		
<b>Wednesday 31 May</b>	<b>Administration Building, Level 10, Rooms 2 and 3</b>	<b>9.15am – 2.00pm</b>
Wednesday 21 June	Administration Building, Level 10, Rooms 2 and 3	9.15am – 2.00pm
Wednesday 12 July	Administration Building, <b>Level 9 Function Room</b>	9.15am – 2.00pm
Wednesday 16 August	Administration Building, Level 10, Rooms 2 and 3	9.15am – 2.00pm
Wednesday 13 September	Administration Building, Level 10, Rooms 2 and 3	9.15am – 2.00pm
Wednesday 5 October	Administration Building, Level 10, Rooms 2 and 3	9.15am – 2.00pm
Wednesday 18 October	Administration Building, Level 10, Rooms 2 and 3	9.15am – 2.00pm
Wednesday 15 November	Administration Building, Level 10, Rooms 2 and 3	9.15am – 2.00pm

## Attachment 1 – Standard Conditions for Road Closures

### **Standard Conditions for Road Closures**

#### **For Special Events and Work Related activities Within Council Road Reserves.**

Following approval by Wollongong City Council, road closures are subject to the additional Council conditions:

1. **The Applicant must complete the Council form 'Application to Open and Occupy or Underbore a Roadway or Footpath'** (Refer to Checklist below – relates to Section 138 of the Roads Act.)
2. **NSW Police Approval:** The Applicant must obtain written approval from NSW Police, where required under the Roads Act.
3. **If the Road Closure is within 100m of any traffic control signals or on a 'State Classified Road'** the Applicant must obtain a Road Occupancy Licence (ROL) from NSW Roads & Maritime Services (RMS).
4. **The Applicant must advise all affected residents and business owners** within the closure area of the date/s and times for the closure, at least 7 days prior to the intended date of works.
5. **The Applicant must advise Emergency Services:** Ambulance, Fire Brigade and Police, Taxi and Bus Companies of the closure dates and times in writing, 7 days prior to the intended date of works. The Applicant must endeavour to minimise the impact on bus services during the closure.
6. **Traffic Management Plan:** The closure must be set up in accordance with the approved Traffic Management Plan (TMP) prepared by an appropriately qualified traffic controller; a copy of whose qualifications must be included with the submitted TMP.
7. **Traffic Management Plan Setup:** The Traffic Management Plan must be set up by appropriately qualified traffic control persons or the NSW Police.
8. **Access to properties affected by the road closure must be maintained where possible.** Where direct access cannot be achieved, an alternative arrangement must be agreed to by both the applicant and the affected person/s.
9. **Public Notice Advertisement:** The Applicant must advertise the road closure in the Public Notices section of the local paper, detailing closure date/s and times at least 7 days prior to the closure.
10. **Public Liability Policy:** The Applicant must provide Council with a copy of their current insurance policy to a value of no less than \$20 million dollars to cover Wollongong City Council from any claims arising from the closure.

#### **Checklist:**

- ☒ **Completed Council Form:**

*'Application to Open and Occupy or Underbore a Roadway or Footpath'.*

#### **Required information as shown below MUST be attached:**

- ☒ A copy of the letter from the Traffic Committee authorising the closure
- ☒ The Traffic Management Plan (TMP)
- ☒ The Road Occupancy Licence (ROL) *if required*
- ☒ Written approval from NSW Police
- ☒ Public Liability Insurance

**Applications may be lodged in** the Customer Service Centre located on the Ground Floor of Council's Administration Building, 41 Burelli Street Wollongong between 8.30am and 5pm Monday to Friday.

## Attachment 2 – Road Closures for Street Parties 1 of 2

### STANDARD CONDITIONS FOR ROAD CLOSURES FOR STREET PARTIES

- 1 Each road affected by the closure approval shall be restored to full and uninterrupted traffic flow prior to the end of the closure.
- 2 The road shall be cleared sufficiently to allow an emergency vehicle access to a property within the closure area. For this reason, no barbeques, heavy tables or other heavy equipment is to be set up on the road pavement.
- 3 You are required to advertise the road closure in the local newspaper  
  
E.g. Temporary Road Closure – Larkins Lane, Yallah  
Date: 18 December 2015  
Time: 2 pm – 7 pm  
Event: Street Party
- 4 Council will notify emergency services and the Police Service.
- 5 NSW Police Service directions are to be strictly adhered to.
- 6 Council will endeavour to make available to you the following equipment for the closure

Regular Street Equipment Requirements	Cul - De - Sac Street Equipment Requirements
6 Barrier legs	3 Barrier legs
12 Road Barriers	6 Road Barriers
2 Road Closed Signs	1 Road Closed Signs
4 Flashing Lights	2 Flashing Lights

It should be noted that Council does not supply 9 volt batteries for flashing lights, however batteries can be made available for approximately \$3.40 each.

The flashing lights must be fixed to the barriers and operating prior to sunset.

It is your responsibility to collect this equipment from Council's Works Depot Store, Montague Street, North Wollongong, prior to 2.00 pm on the last working day prior to your proposed road closure, and return same on the next working day following the closure. Please ensure you sign a receipt when collecting and returning this equipment.

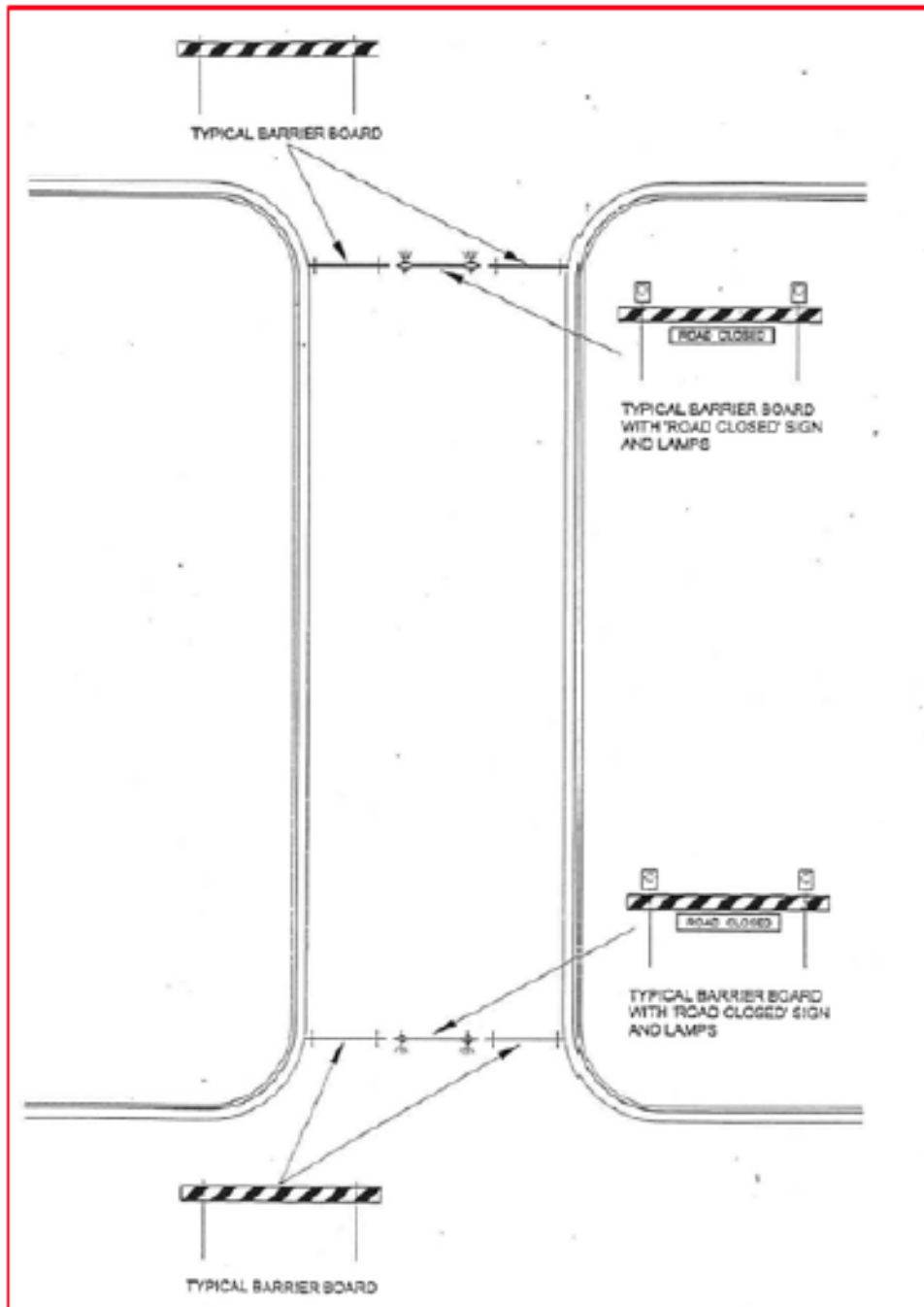
Equipment, which is returned damaged beyond use or not returned at all, will be replaced at your cost.

A sufficient number of people (at least 2), together with a vehicle suitable for the purpose of transporting the relevant equipment, are to be provided by the organisers for the loading and unloading of this equipment at the Depot.

- 7 You are requested to email Council's Events and Functions Coordinator [events@wollongong.nsw.gov.au](mailto:events@wollongong.nsw.gov.au) **two weeks prior to pick-up** to ensure availability of the equipment.
- 8 If Council's Store does not have sufficient equipment to lend, you are to obtain equipment from another source (e.g. hire firm), at your expense.

Attachment 2 – Standard Conditions for Street Parties – 2 of 2

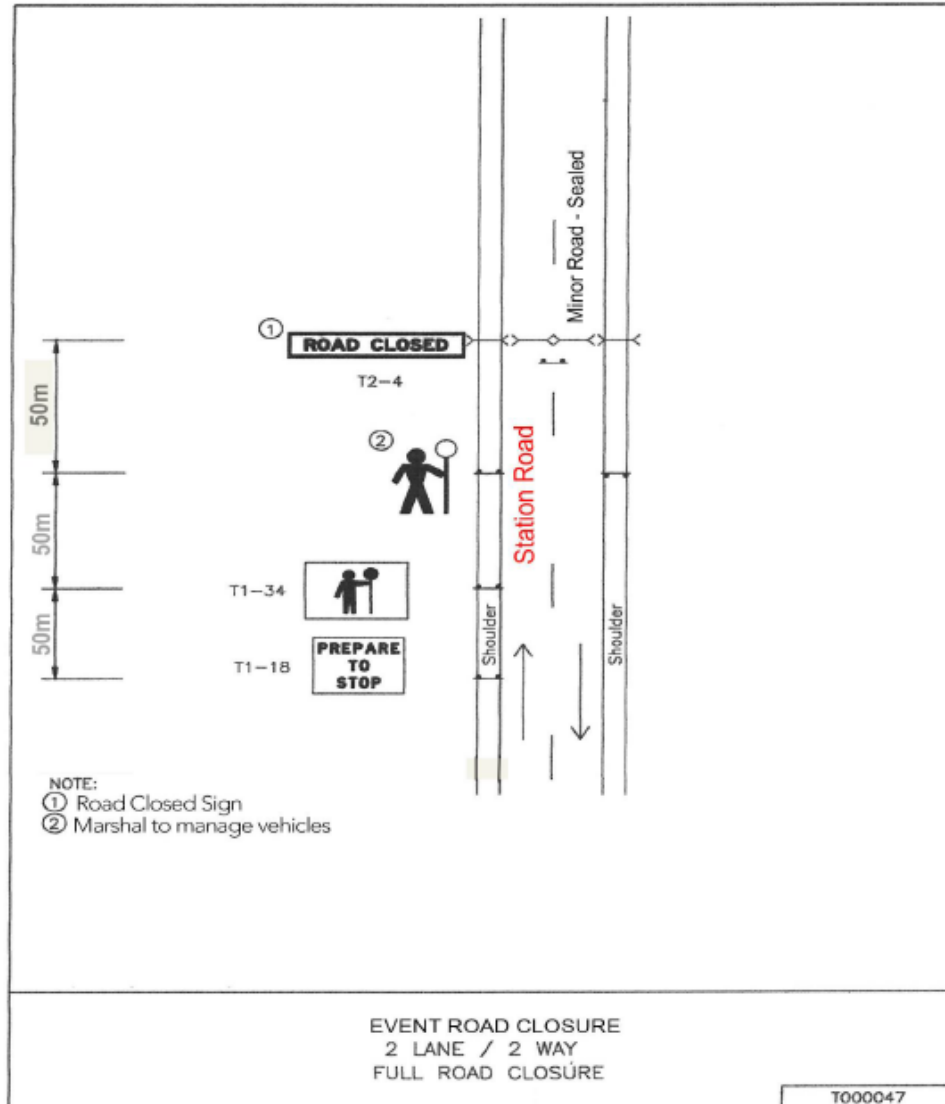
**TYPICAL ROAD CLOSURE SET UP FOR STREET PARTIES**



## TCP - A



### Traffic Control Plan for Running Event

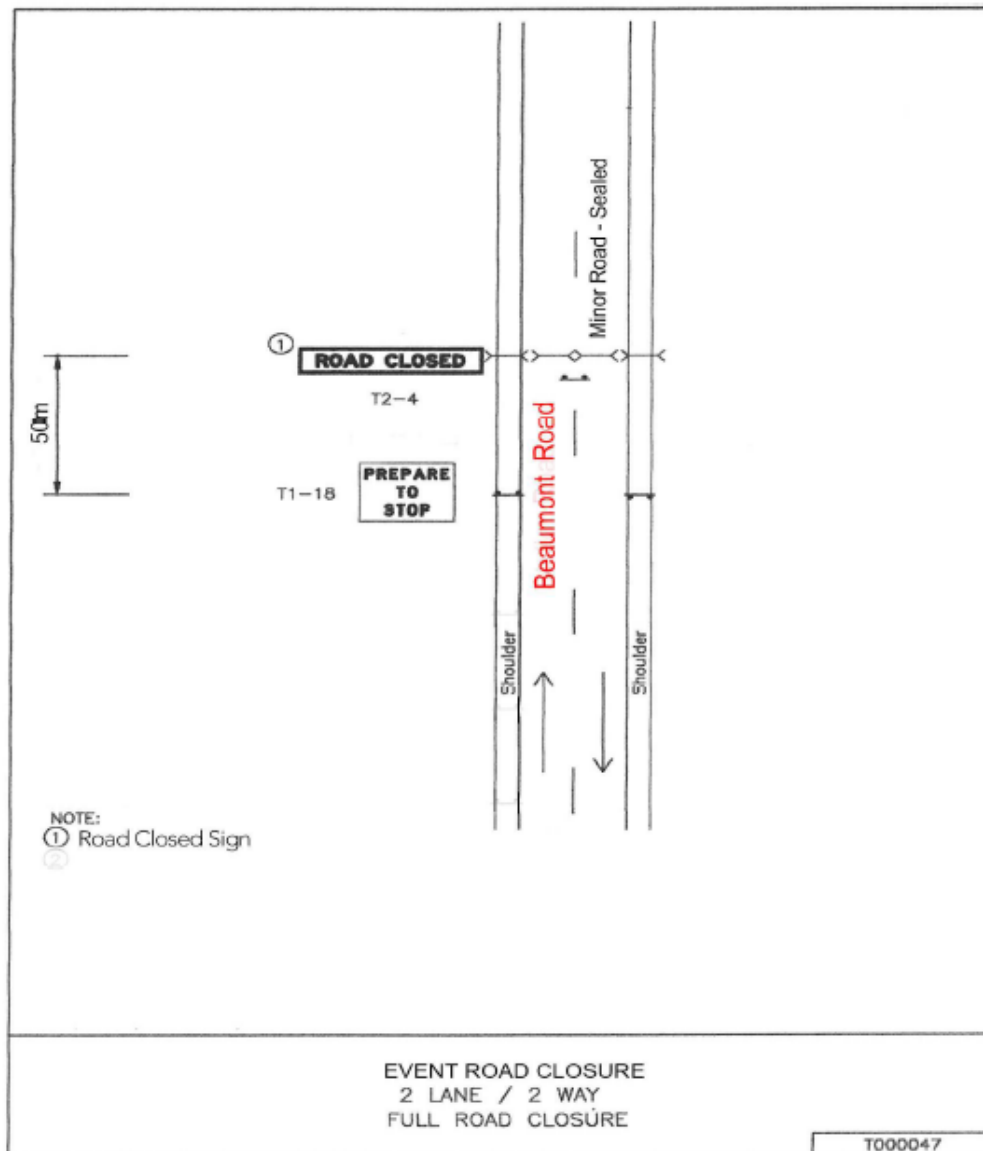


Design and Inspect Traffic Control Plans  
 Gary Farebrother  
 Card No: 0032576581 Exp: 18/July/2019

## TCP - B



### Traffic Control Plan for Running Event



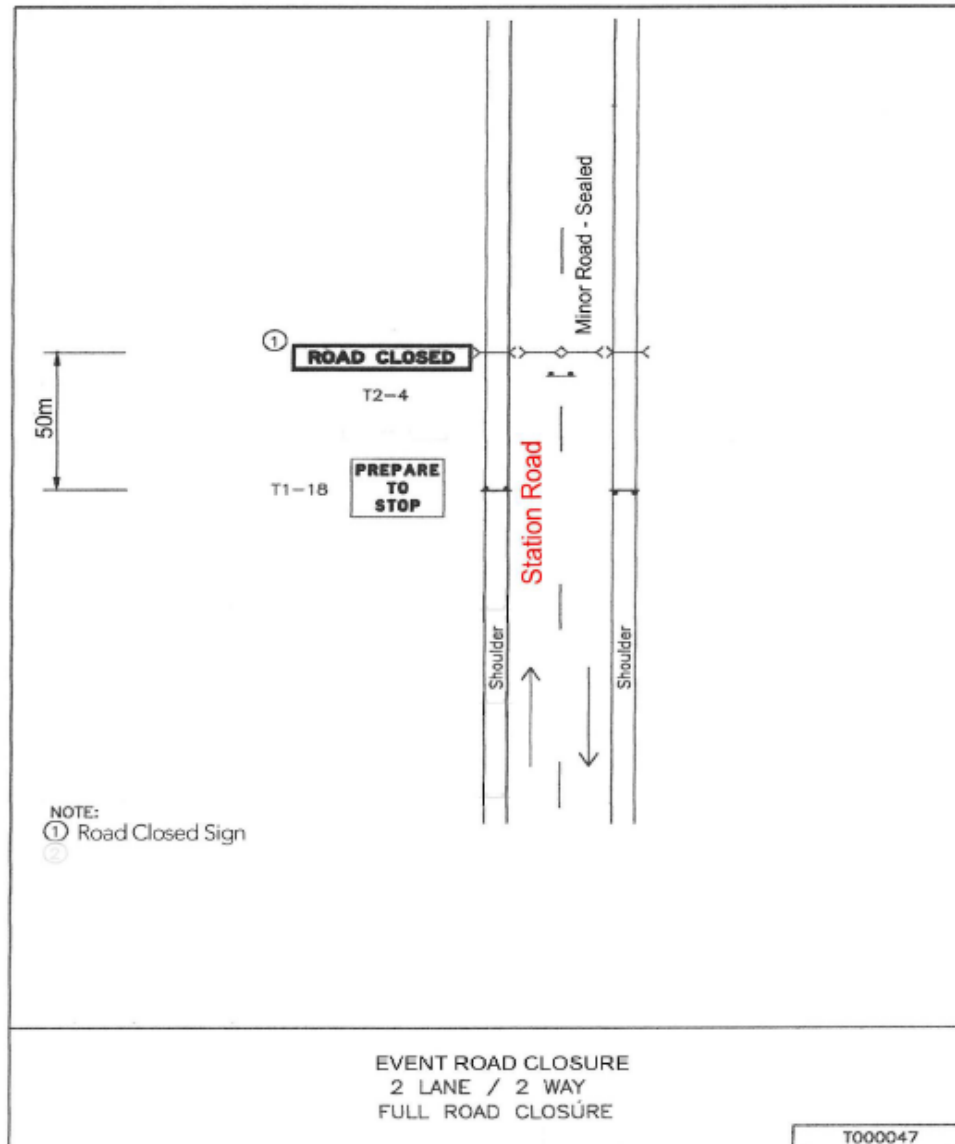
Design and Inspect Traffic Control Plans  
 Gary Farebrother  
 Card No: 0032576581 Exp: 18/July/2019

Attachment 3 - Coastal Classic Event – Page 3 of 6

## TCP - C



**Traffic Control Plan for Running Event**



Design and Inspect Traffic Control Plans  
 Gary Farebrother  
 Card No: 0032576581 Exp: 18/July/2019

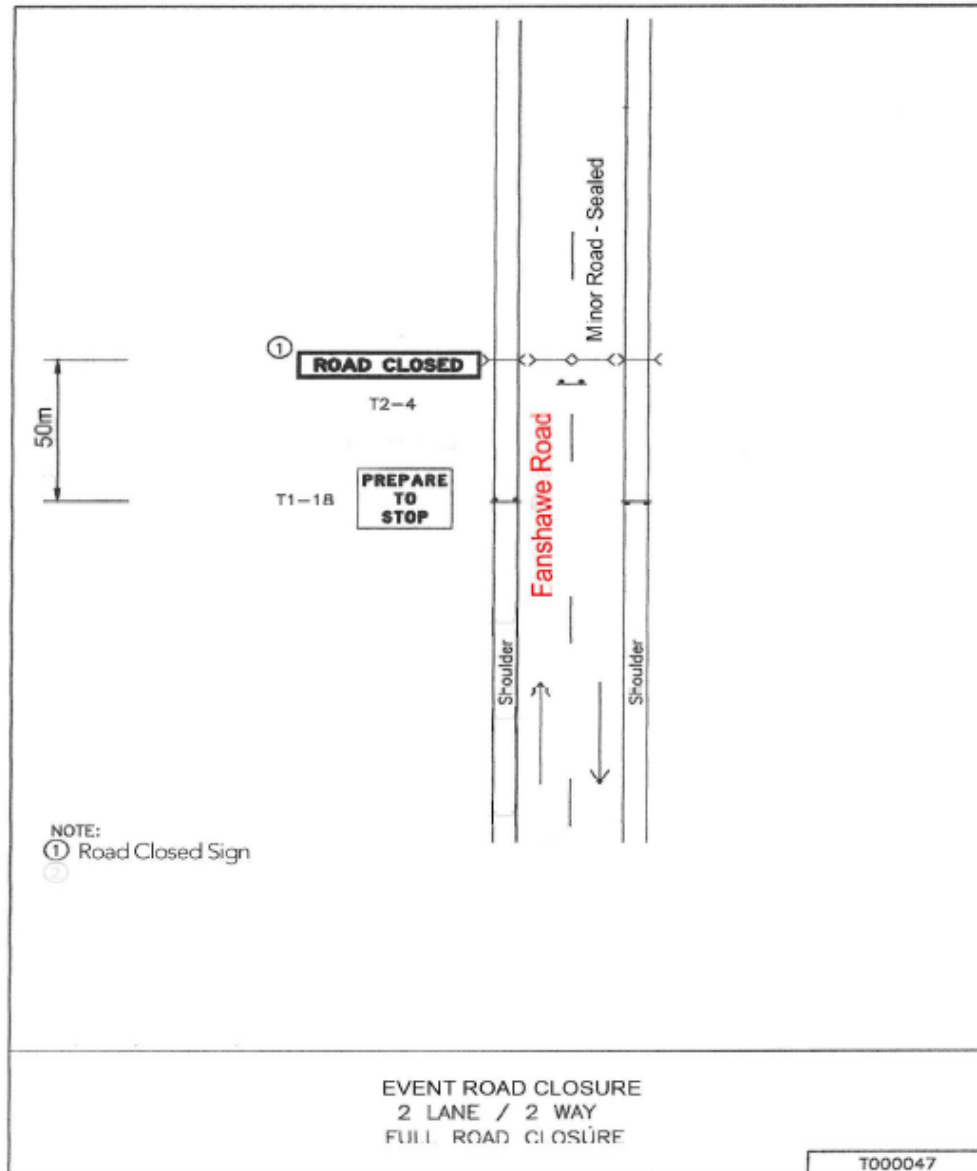


Attachment 3 - Coastal Classic Event – Page 4 of 6

## TCP - D



Traffic Control Plan for Running Event



Design and Inspect Traffic Control Plans  
 Gary Färebröthér  
 Card No: 0032576581 Exp: 18/July/2019



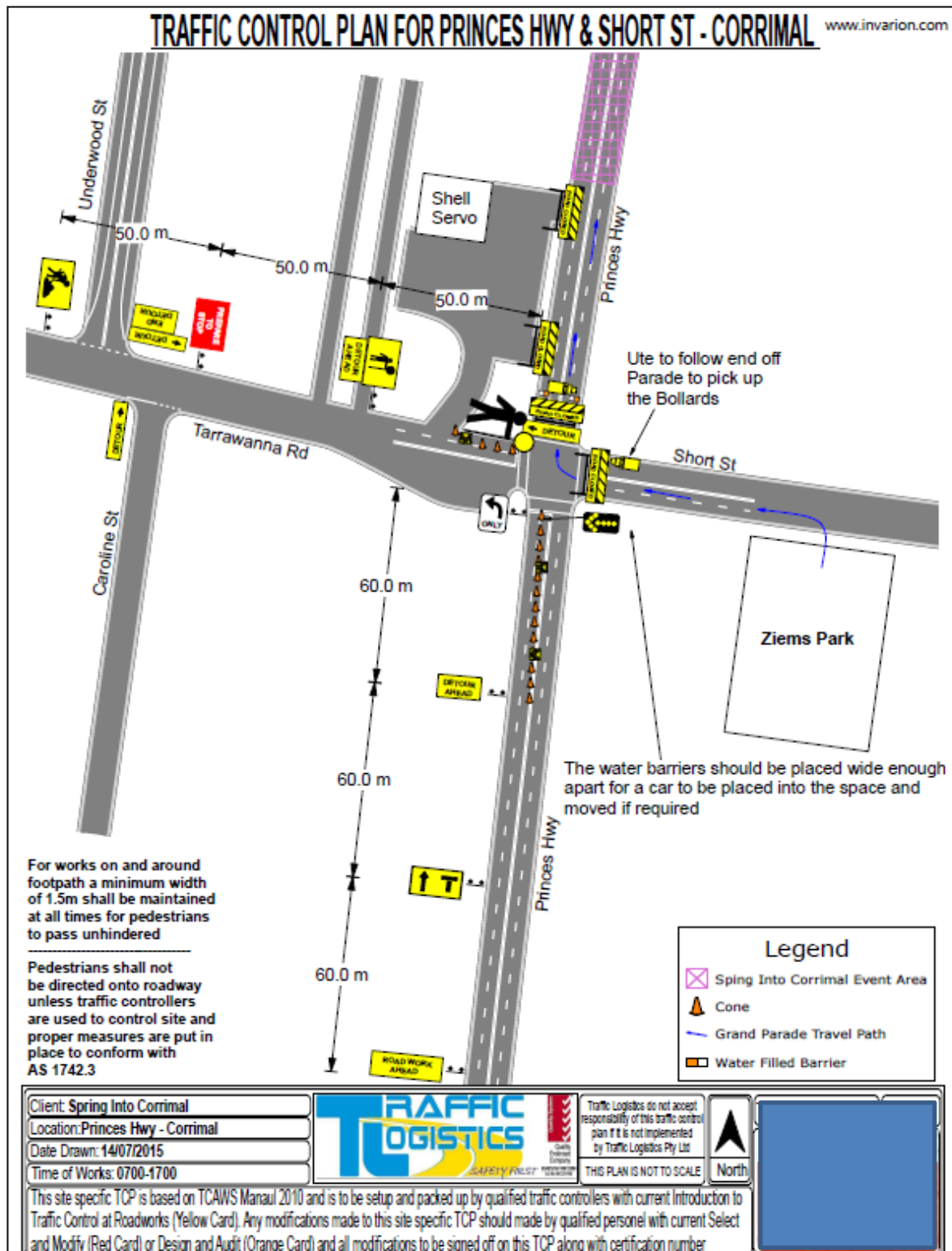
Attachment 3 - Coastal Classic Event – Page 6 of 6

**Additional Sign**

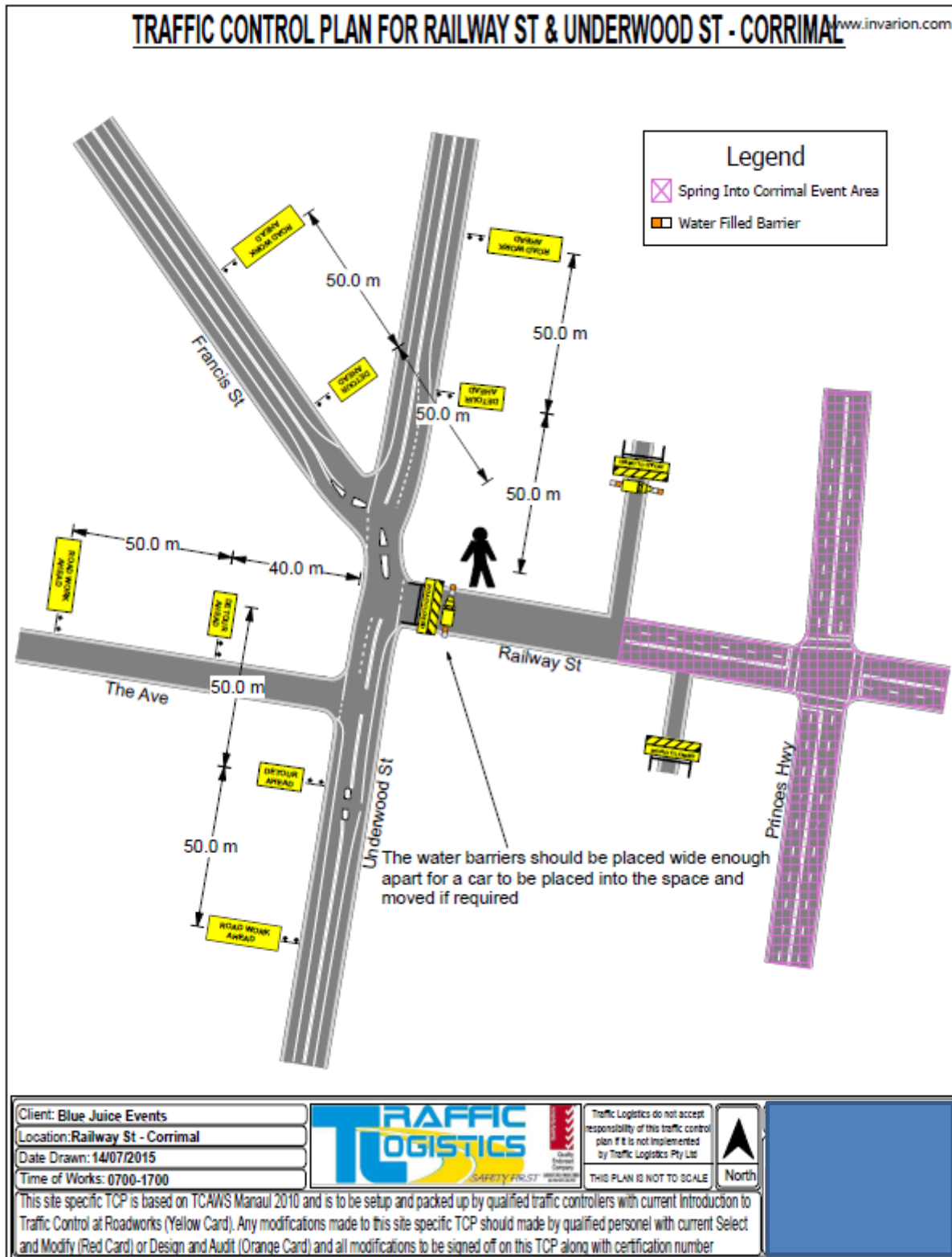
**TCP E**  
**"Runners On Road" – 900x900**



Attachment 4 – Spring into Corrimal – Page 1 of 5

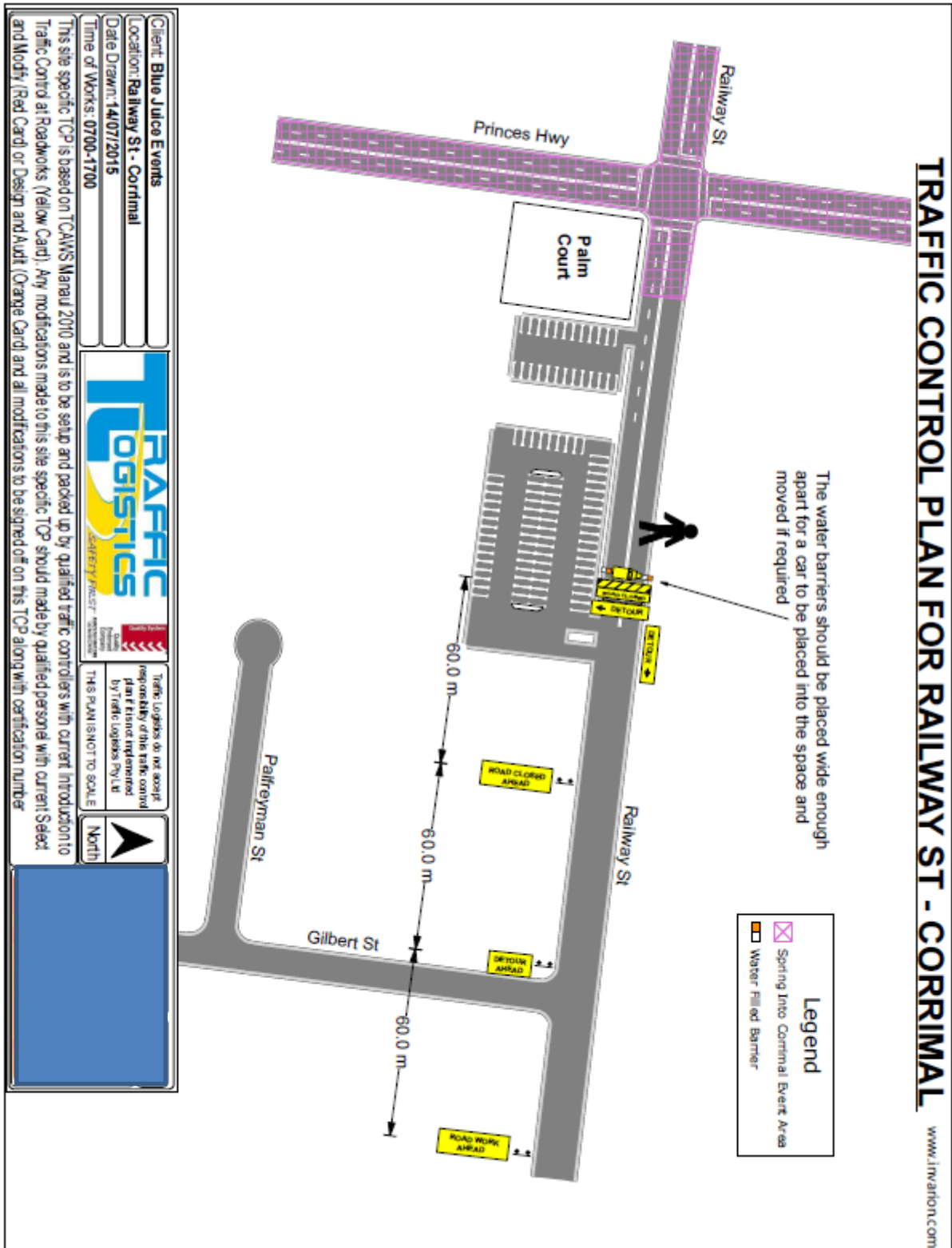


Attachment 4 – Spring into Corrimal Page 2 of 5



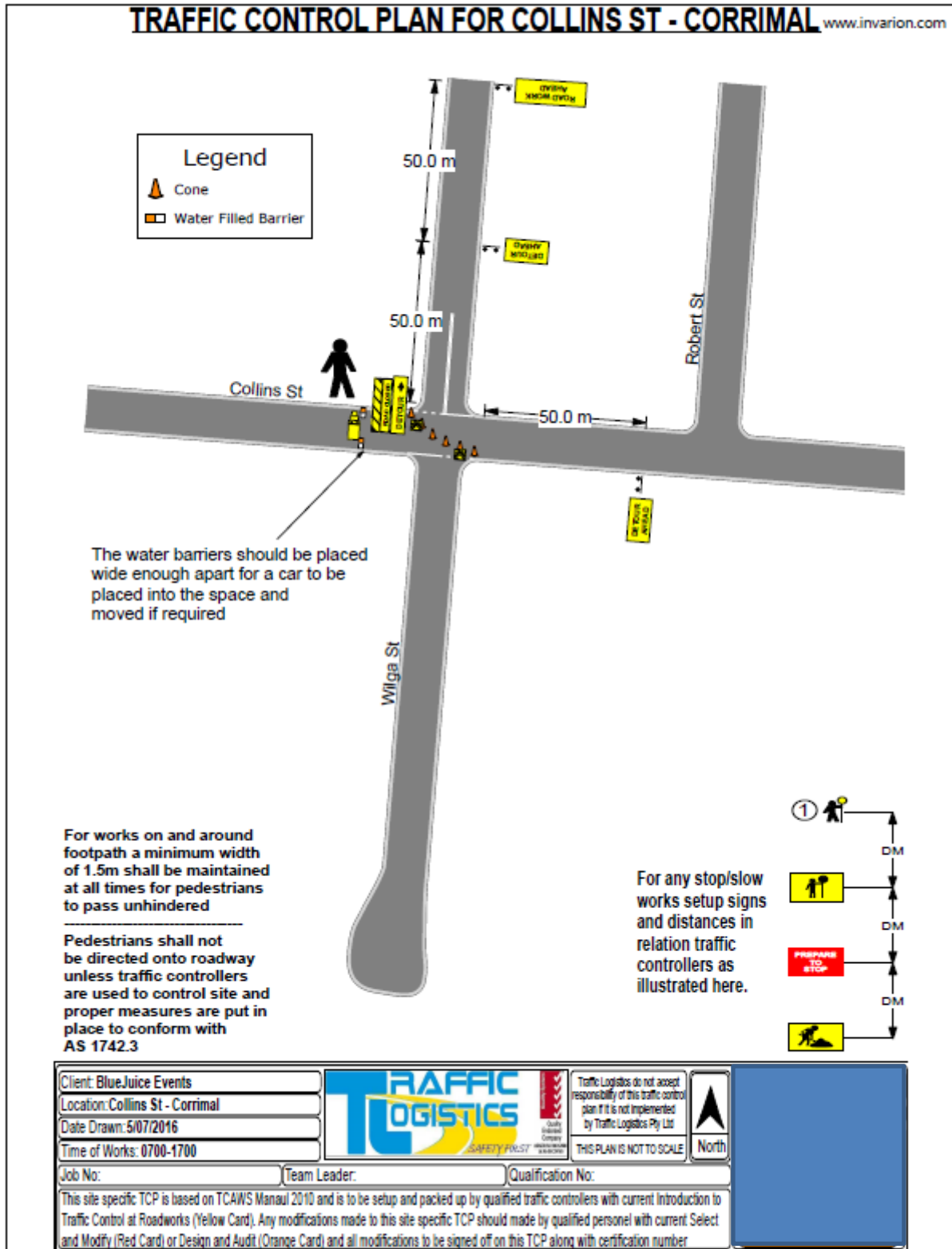


Attachment 4 – Spring into Corrimal – Page 4 of .5





Attachment 4 – Spring into Corrimal – Page 5 of .5.

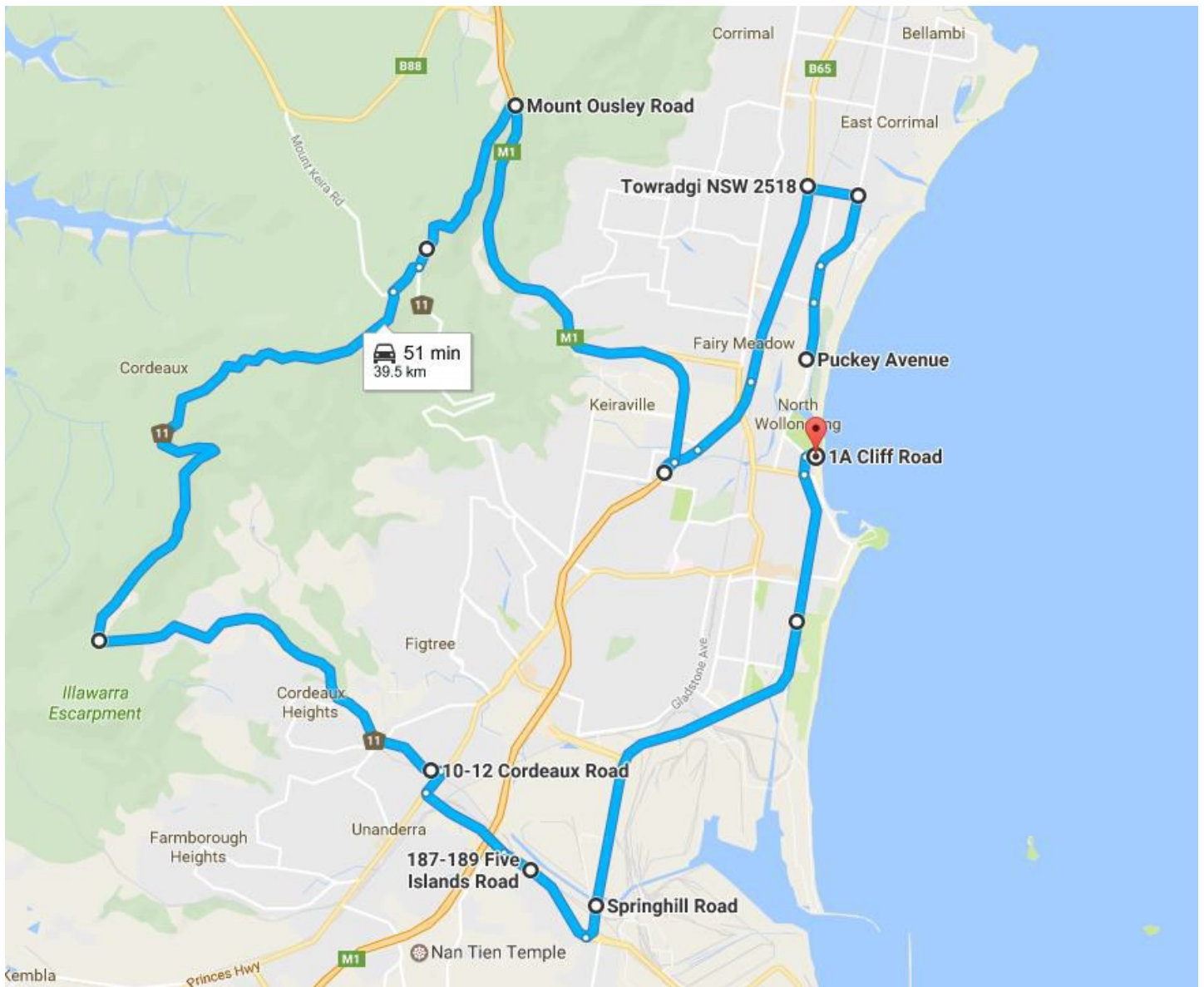




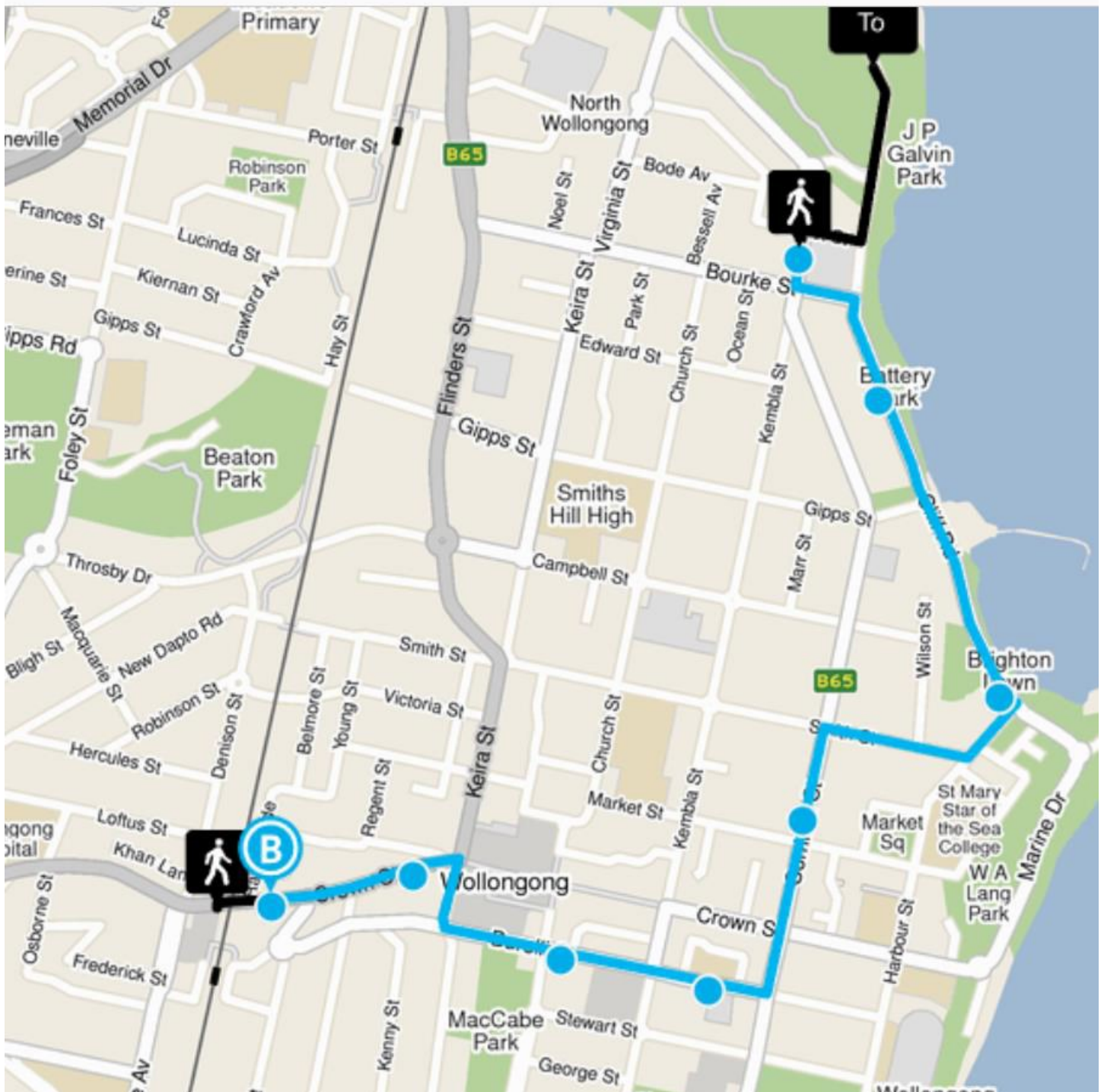
Attachment 5 – Road closure Balmoral Street, Balgownie



Attachment 6 – Thunder Run Course Map – Page 1 of 16



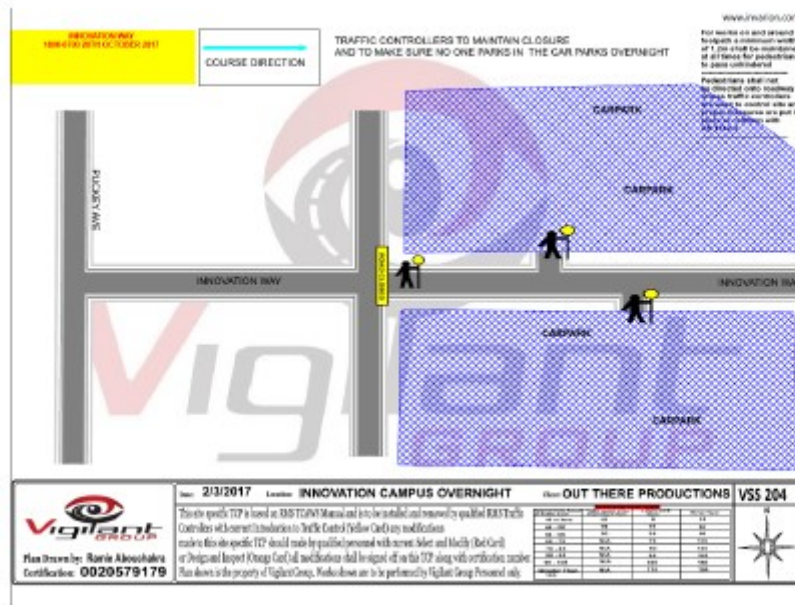
Attachment 6 – Thunder Run Pedestrian Movement Plan Page 2 of 16





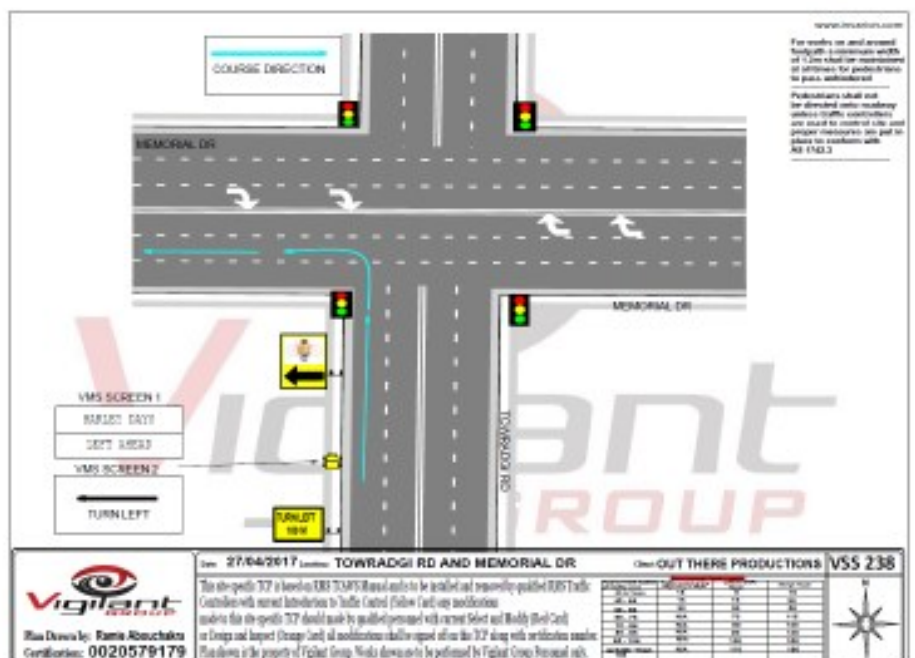
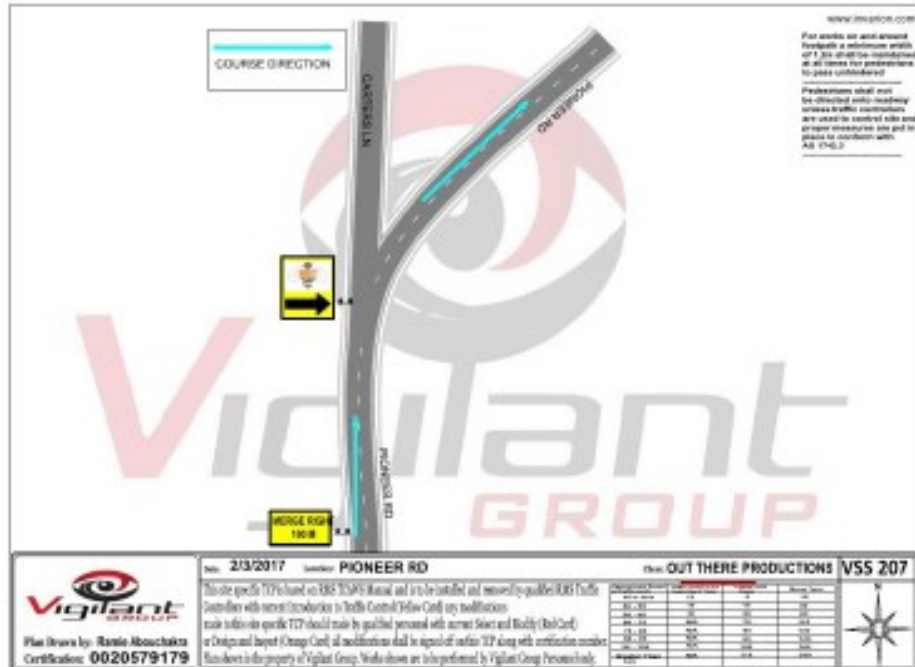


Attachment 6– Thunder Run Page 4 of 16





Attachment 6– Thunder Run Page 6 of 16

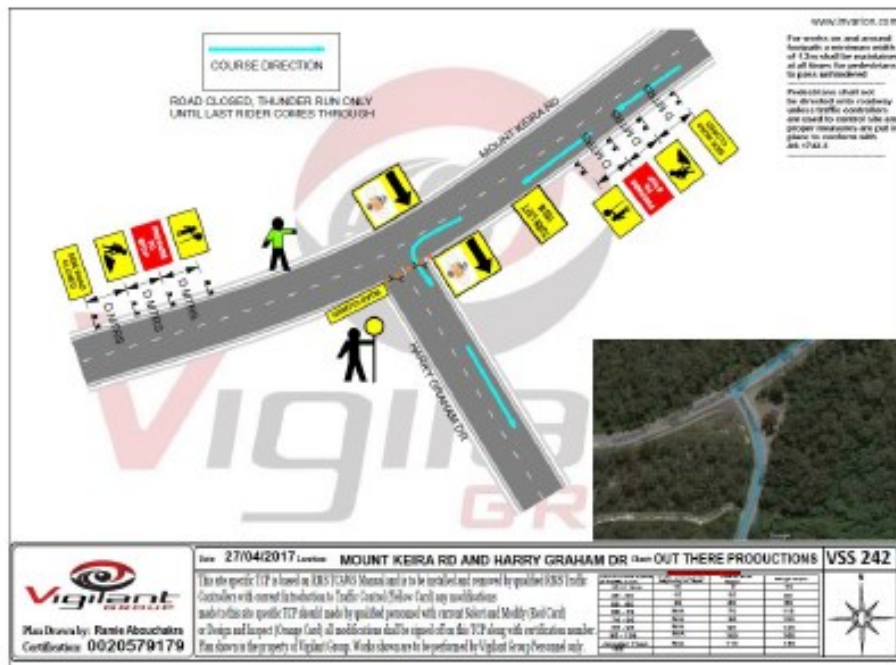
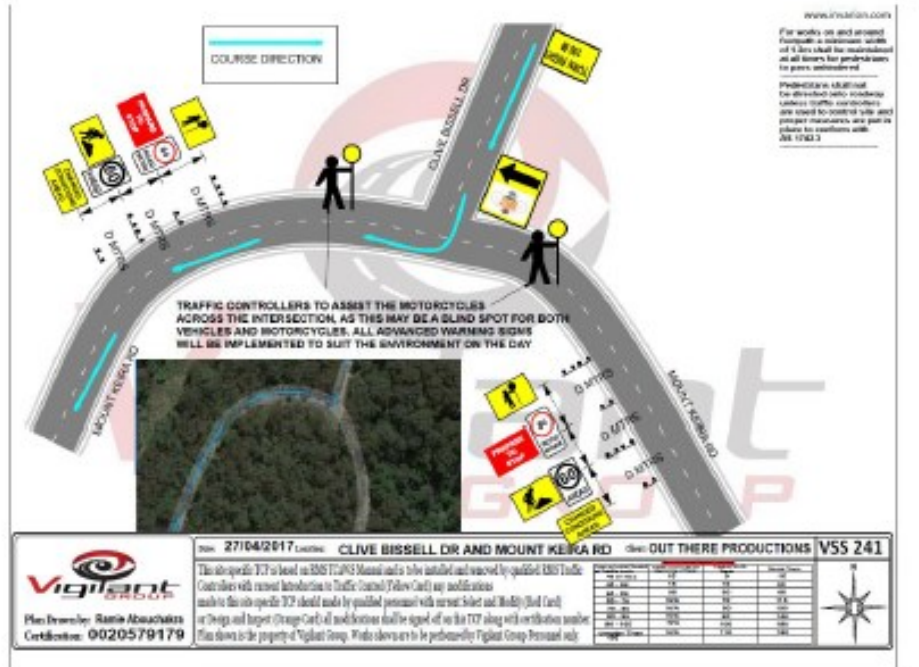






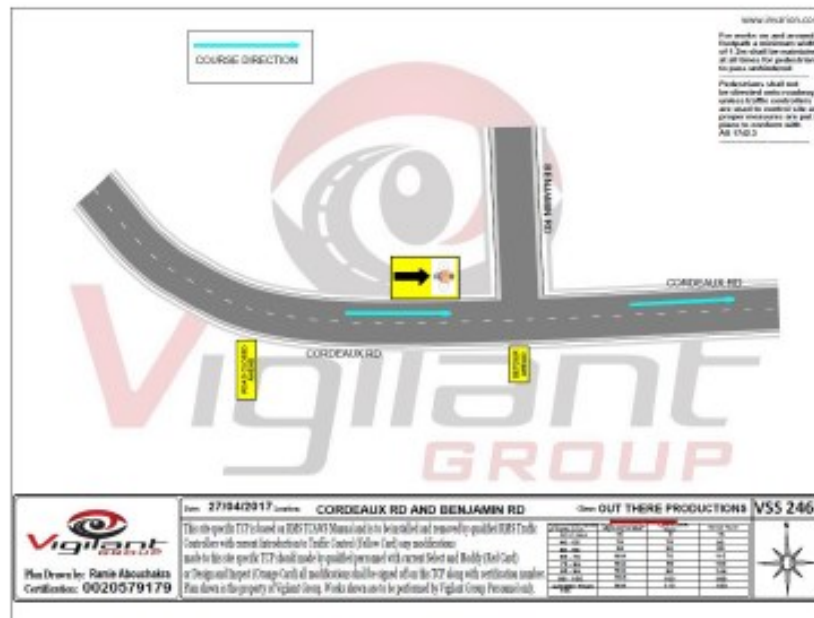
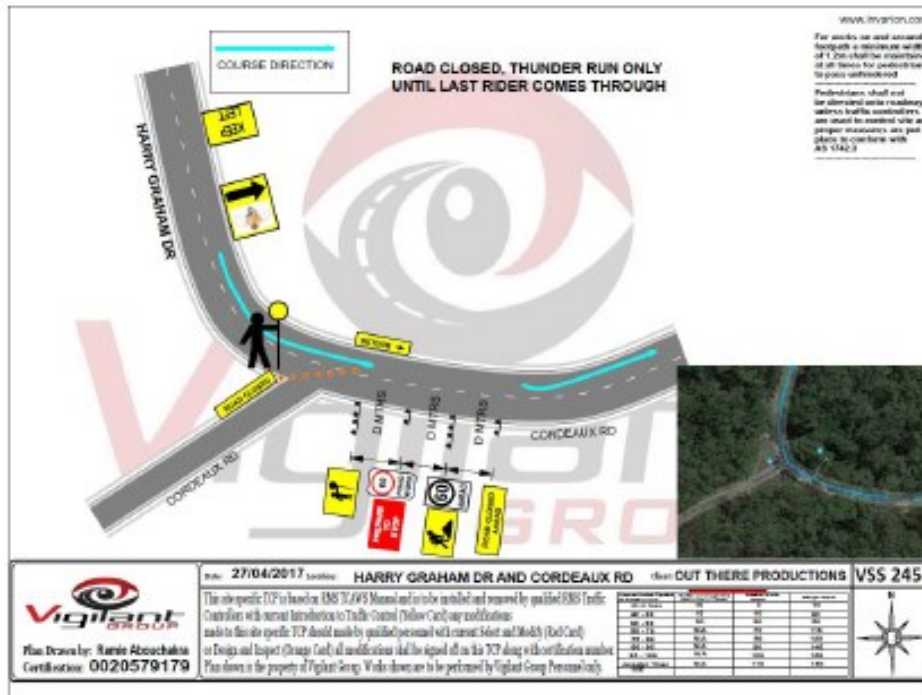


Attachment 6 – Thunder Run Page 8 of 16

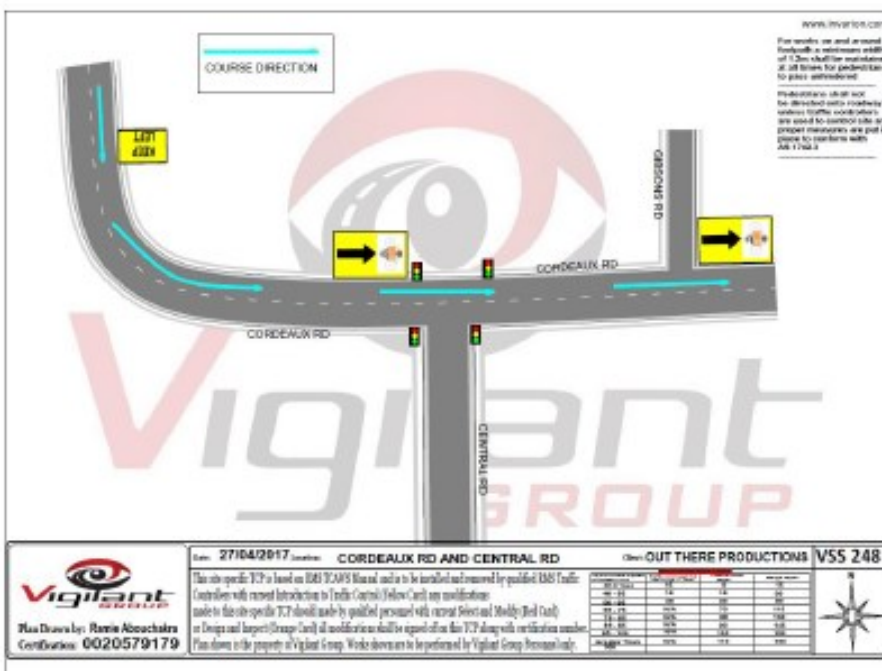
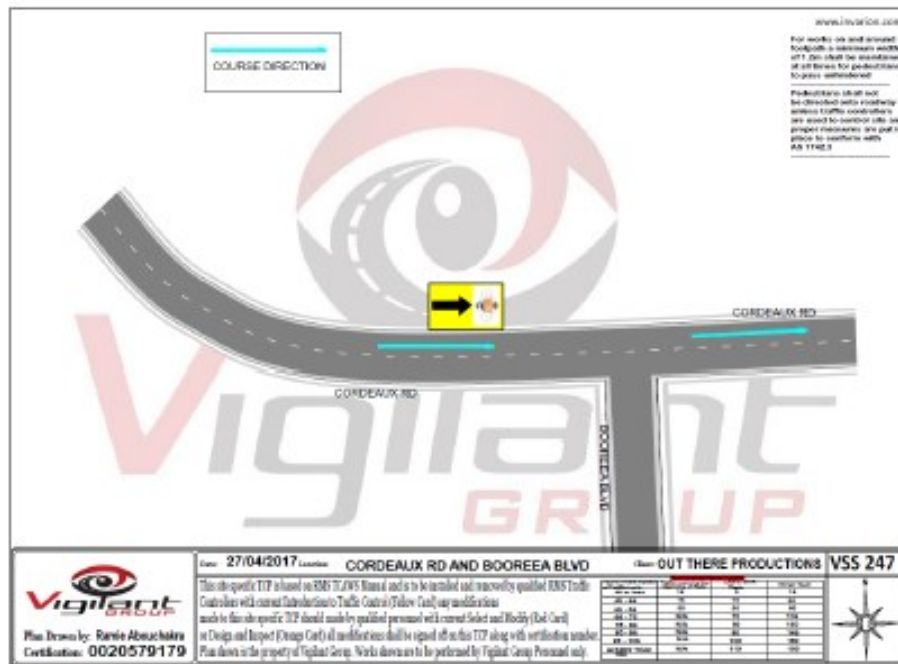




Attachment 6– Thunder Run Page 10 of 16



Attachment 6– Thunder Run Page 11 of 16

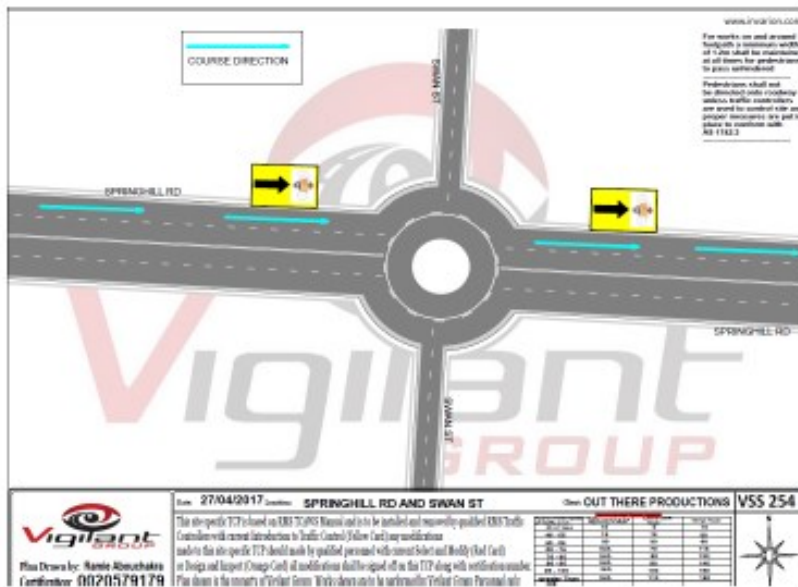
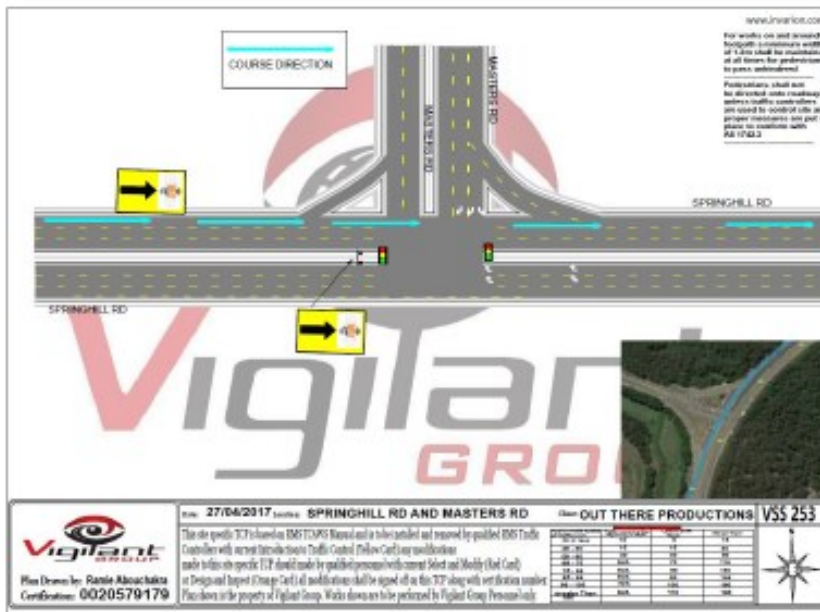








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APRIL 17

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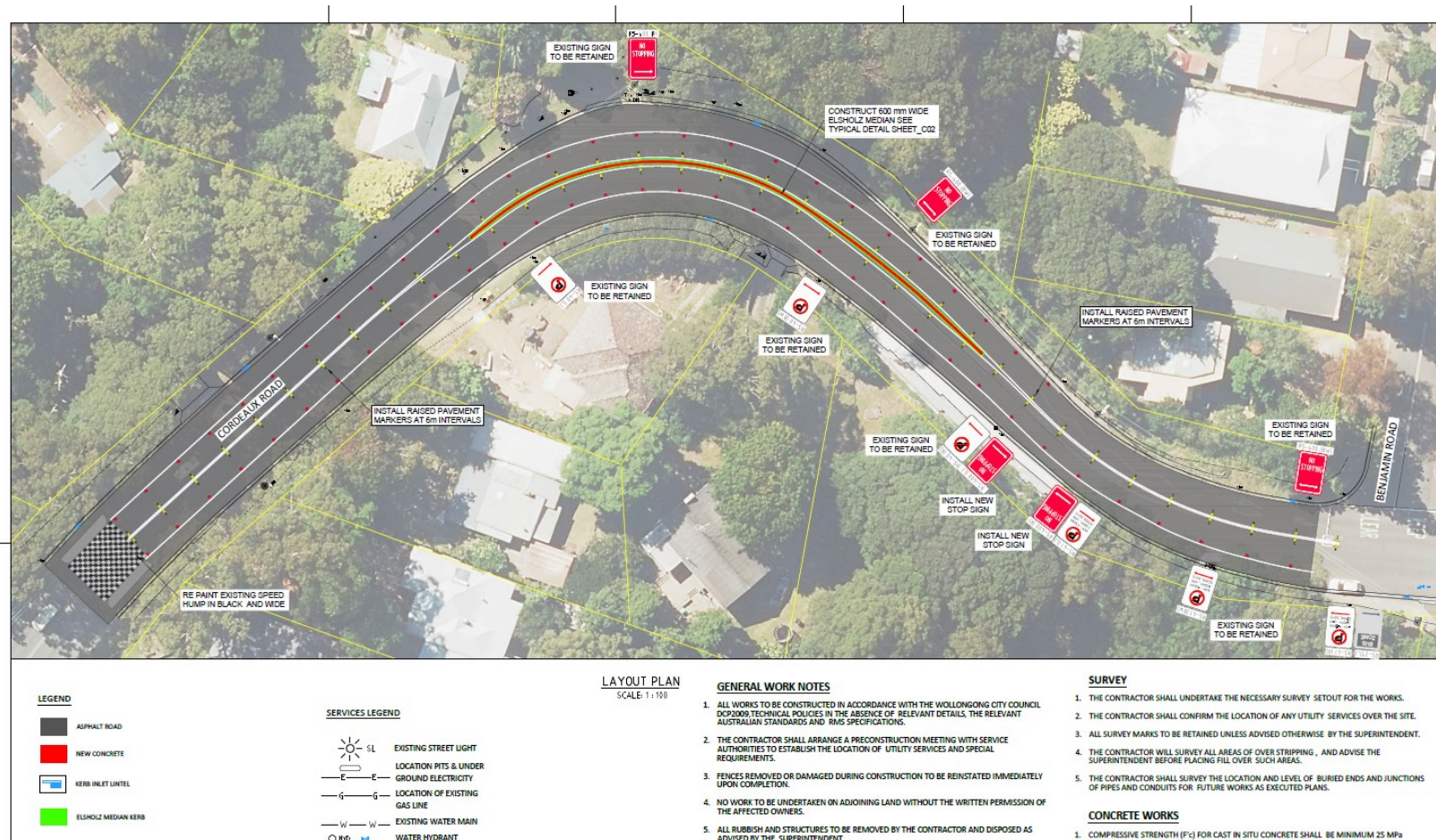








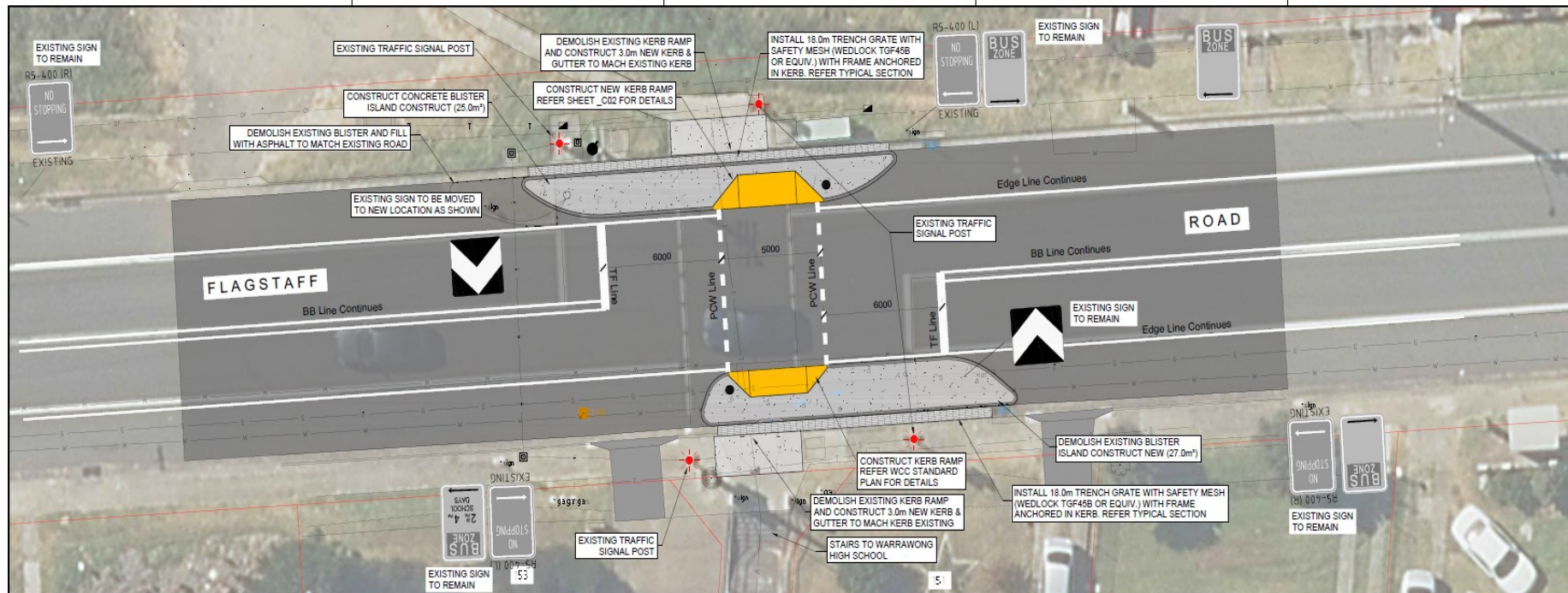
Design Matter - Attachment 8 – Mt Kembla Cordeaux Road – Centre Median Strip







Design Matter – Attachment 10 – Warrawong – Flagstaff Road – Adjustments to traffic island



PLAN VIEW  
SCALE: 1:100

LEGEND

	EXISTING CONCRETE
	NEW CONCRETE
	NEW KERB RAMP
	TRENCH GRATE

SERVICE LEGEND:

TELECOM — T — T —

NOTES

1. ALL KERB RAMPS ARE TO BE CONSTRUCTED IN CONCRETE (MINIMUM 20 MPa) OF A CONTRASTING COLOUR TO ADJACENT PAVEMENT. EG. IF FOOTPATH IS BRICK PAVING, RAMP IS PLAIN CONCRETE. IF FOOTPATH IS PLAIN CONCRETE, RAMP TO BE COLOURED (SAHARA) YELLOW. NOTE: THE GUTTER SECTION OF KERB RAMP IS TO REMAIN PLAIN CONCRETE AND IS NOT TO BE COLOURED UNDER ANY CIRCUMSTANCES.
2. ALL KERB RAMPS ARE TO BE ALIGNED WITH THE DIRECTION OF PEDESTRIAN TRAVEL. THE TOP OF RAMP SHALL BE CONSTRUCTED PARALLEL TO THE KERB LINE.
3. THE RAMP SHALL BE DEFINED BY SHARP TRANSITION JOINTS/CHANGES IN GRADE THAT WILL DIRECT PEDESTRIANS ALONG THE LINE OF THE CROSSING TOWARDS

