

**SaferRoads - Newtown/Berhampore**  
**Engineering Implementation Plan by Sub-zones**  
**February 2008**

**Sub-zone 1 - Mein St block**

Engineering			
Location	Treatment	Ref No	Estimate (\$)
Daniell Street/Wilson Street intersection.	Provide kerb extensions to better align intersection and to improve visibility and pedestrian facilities.	NSR36	35,000.00
Mein Street/Minerva Street.	Provide kerb extension to improve visibility. Also provide give way control.	NSR37	6,000.00
Daniell Street/Mein Street	Option 1 - Ease existing kerb extension, realign Mein St roadmarkings and remove Mein St parking.	NSR38/1	9,000.00 <sup>(1)</sup>
Daniell Street/Mein Street	Option 2 - Reconstruct existing kerb extension to ease intersection.	NSR38/2	13,000.00
Mein Street - opposite number 60.	Provide crossing point with kerb extension and central refuge island.	NSR39	8,000.00
Proposed 40km/h streets adjoining 50km/h streets (9 sites).	Provide speed limit signs and threshold treatment.	NSR47	25,200.00
All minor streets adjoining main roads (11 sites).	Provide either give way or stop controls.	-	8,594.00
<b>Total Sub-zone 1</b>			<b>95,794.00</b>

(1) Cost for option excluded from total estimate.

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**Sub-zone 2 - Constable St**

Engineering			
Location	Treatment	Ref No	Estimate (\$)
Daniell Street/Constable Street intersection.	Install new lanterns on 3m outreach arms on Constable St approaches. Provide LED lanterns to all approaches. Ease northwestern corner and reduce existing kerb extension on Daniell St (north).	NSR31	125,000.00
Constable Street/Owen Street intersection.	Signalise intersection including pedestrian crosswalks.	NSR32	200,000.00
Constable Street/Coromandel Street intersection.	Signalise intersection including pedestrian crosswalks.	NSR33	200,000.00
Constable Street/Alexander Road intersection.	Provide give way control and crossing point with central refuge islands.	NSR34	5,000.00
Constable Street/Hiropi Street.	Provide kerb extension and give way control.	NSR35	20,000.00
Riddiford Street/Constable Street intersection.	Replace existing traffic signal lanterns with 300mm diameter LED lanterns to improve visibility. Extend lane lines and repeat lane arrows. Construct small island.	NSR44	7,000.00
All minor streets adjoining main roads (2 site).	Provide either give way or stop controls.	-	1,563.00
<b>Total Sub-zone 2</b>			<b>558,563.00</b>

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**Sub-zone 3 - Owen St block**

<b>Engineering</b>			
<b>Location</b>	<b>Treatment</b>	<b>Ref No</b>	<b>Estimate (\$)</b>
Mansfield Street/Roy Street intersection.	Provide kerb extensions to 'square-up' intersection and provide give way control.	NSR40	34,000.00
Proposed 40km/h streets adjoining 50km/h streets (11 sites).	Provide speed limit signs and threshold treatment.	NSR47	30,800.00
All minor streets adjoining main roads (19 sites).	Provide either give way or stop controls.	-	14,843.00
<b>Total Sub-zone 3</b>			<b>79,643.00</b>

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**Sub-zone 4 - Russell Tce block**

Engineering			
Location	Treatment	Ref No	Estimate (\$)
Dawson Street/Chatham Street/ Blyth Street.	No parking on south side of Dawson, traffic platforms on Chatham and entrance to Blyth.	NSR2, NSR11 & NSR12	24,000.00
Mount Albert Road.	Improve signage - curve speed advisory signs, chevrons and advance warning signs.	NSR21	3,500.00
Lavaud Street.	Provide speed cushions and mark parking bays.	NSR22	5,000.00
Herald Street between Rintoul Street and Russell Terrace.	Provide kerb extensions to deter through traffic from entering Herald Street and to improve visibility. Also provide flush median with raised islands.	NSR23	40,000.00
Rintoul Street near Blyth Street	Install speed cushions.	NSR46	10,000.00
Proposed 40km/h streets adjoining 50km/h streets (6 sites).	Provide speed limit signs and threshold treatment.	NSR47	16,800.00
All minor streets adjoining main roads (10 sites).	Provide either give way or stop controls.	-	7,813.00
<b>Total Sub-zone 4</b>			<b>107,113.00</b>

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**Sub-zone 5 - Britomart St block**

Engineering			
Location	Treatment	Ref No	Estimate (\$)
Adelaide Road between Wakefield Park and Britomart Street.	Remove parking from eastern side to enable provision of northbound (uphill) cycle lane.	NSR1	10,500.00
Adelaide Road/Akatea Street intersection.	Provide kerb extension to improve intersection visibility. Also provide give way control.	NSR2	6,000.00
Adelaide Road pedestrian crossing near Chilka Street.	Additional broken yellow lines on eastern side of crossing.	NSR3	400
Morton Street/Stanley Street intersection.	New give way control and central island.	NSR4	5,000.00
Britomart Street/Stanley Street intersection.	Option 1 - Provide central islands to reduce speeds and kerb extensions to improve intersection visibility.	NSR5/1	22,000.00 <sup>(1)</sup>
Britomart Street/Stanley Street intersection.	Option 2 - Provide central islands to reduce speeds and new fully mountable roundabout to control intersection.	NSR5/2	34,000.00
Britomart Street pedestrian crossing.	Change pedestrian crossing to school (kea) crossing.	NSR6	3,000.00
Adelaide Road.	Mark edge and centre lines over entire length.	-	1,000.00
Proposed 40km/h streets adjoining 50km/h streets (5 sites).	Provide speed limit signs and threshold treatment.	NSR47	14,000.00
All minor streets adjoining main roads (8 sites).	Provide either give way or stop controls.	-	6,250.00
<b>Total Sub-zone 5</b>			<b>80,150.00</b>

(1) Cost for option excluded from total estimate.

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### Engineering Implementation Plan by Sub-zones

#### February 2008

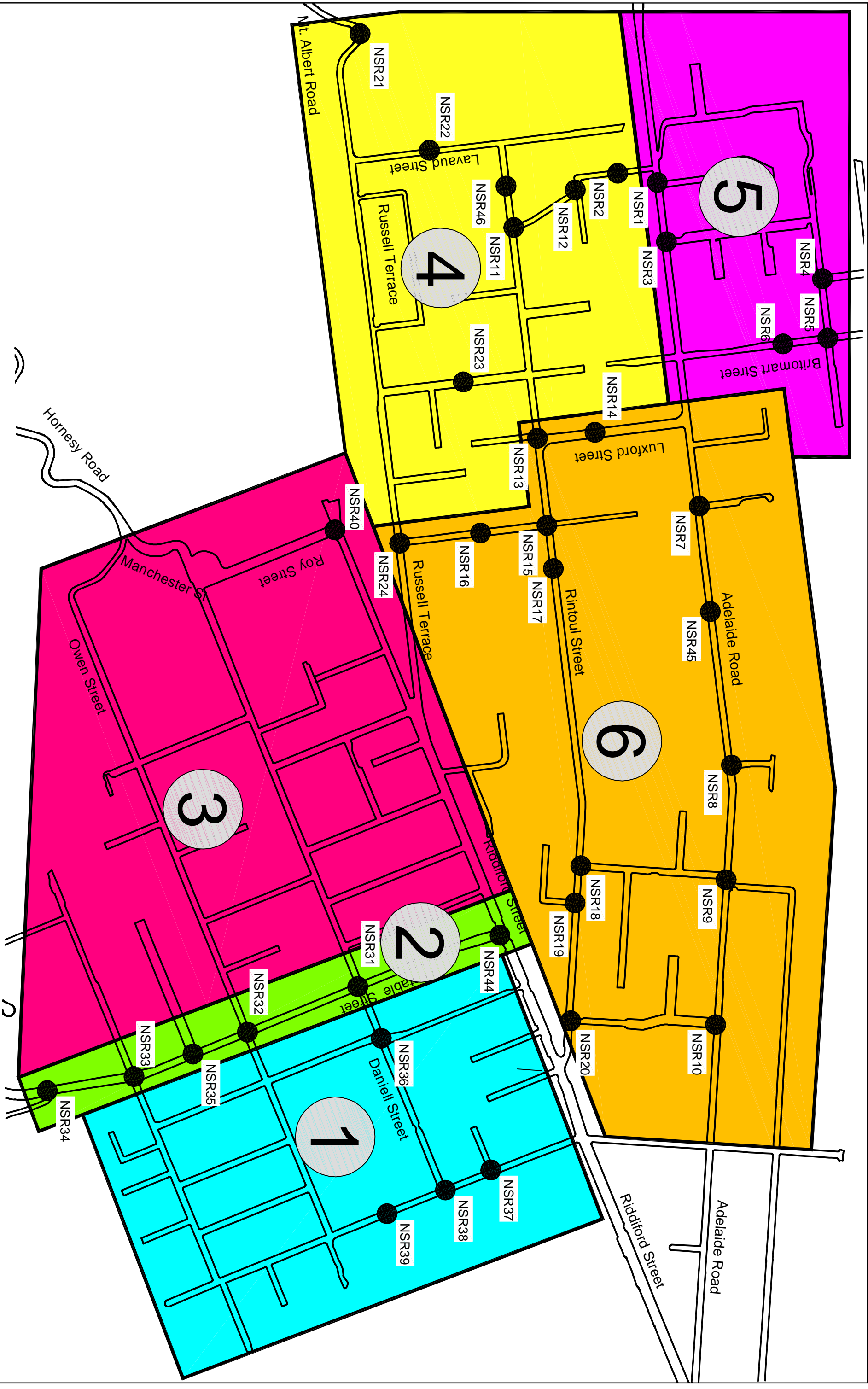
#### Sub-zone 6 - Rintoul St block

Engineering			
Location	Treatment	Ref No	Estimate (\$)
Adelaide Road/Waripori Street intersection.	Provide crossing point in conjunction with planned footpath extension.	NSR7	Completed
Adelaide Road/Torquay Tce Intersection.	Provide kerb extension to improve intersection visibility. Also provide give way control.	NSR8	11,500.00
Adelaide Road north of Torquay Tce.	Provide crossing point.	NSR8	11,500.00
Adelaide Road/Stoke Street intersection.	Provide kerb extensions to improve intersection visibility and pedestrian facilities. Also provide give way control to Stoke Street.	NSR9	23,000.00
Adelaide Road/Colombo Street intersection.	Option 1 - Extend existing kerb into Adelaide Road to improve visibility for Colombo St vehicles. Remove parking in front of numbers 288 & 290 to enable lane shift.	NSR10/1	11,500.00
Adelaide Road/Colombo Street intersection.	Option 2 - Prohibit exit from Colombo Street onto Adelaide Road and permit left turn only from Adelaide into Colombo.	NSR10/2	10,000 <sup>(1)</sup>
Adelaide Road/Hall Street intersection.	Install 300 dia LED lanterns, alter phasing to provide vehicle late start and trim vegetation obscuring lanterns.	-	6,000.00
Rintoul Street/Luxford Street/Milton Street intersection.	Provide kerb extensions to define priorities and to slow traffic entering Rintoul Street south.	NSR13	25,000.00
Luxford Street.	Provide crossing point with kerb extensions and central refuge island.	NSR14	19,000.00
Rintoul Street/Waripori Street intersection.	Signalise intersection including pedestrian crosswalks.	NSR15	180,000.00
Waripori Street - outside South Wellington Intermediate School.	Provide crossing point with kerb extensions.	NSR16	18,000.00
Rintoul Street - outside South Wellington Intermediate School.	Provide signalised crosswalk. To be coordinated with proposed Rintoul/Waripori signals.	NSR17	90,000.00
Rintoul Street/Stoke Street intersection.	Relocate bus stop to north side of the intersection. Provide kerb extension to improve visibility and to allow new pedestrian crossing.	NSR18	18,000.00
Rintoul Street/Millward Street intersection.	Provide kerb extension to improve intersection visibility. Also provide give way control.	NSR19	4,500.00
Rintoul Street/Colombo Street intersection.	Provide kerb extension to improve intersection visibility. Provide give way control and mark yellow hatching to discourage queued traffic from blocking the intersection.	NSR20	11,500.00
Russell Terrace/Waripori Street intersection.	Provide flush island on Waripori and remove parking.	NSR24	3,000.00
Adelaide Road opposite McAlister Park	Remove existing kerb extension and construct new pedestrian ramp	NSR45	4,500.00
Adelaide Road.	Mark edge and centre lines over entire length.	-	2,000.00
Rintoul Street.	Mark edge and centre lines over entire length.	-	2,500.00
All proposed 40km/h streets adjoining 50km/h streets (10 sites).	Provide speed limit signs and threshold treatment.	NSR47	28,026.00
All minor streets adjoining main roads (12 sites).	Provide either give way or stop controls.	-	9,375.00
<b>Total Sub-zone 6</b>			<b>478,901.00</b>

(1) Cost for option excluded from total estimate.

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<b>SUMMARY</b>	
Sub-zone 1 - Mein St block	95,794.00
Sub-zone 2 - Constable St block	558,563.00
Sub-zone 3 - Owen St block	79,643.00
Sub-zone 4 - Russell Tce block	107,113.00
Sub-zone 5 - Britomart St block	80,150.00
Sub-zone 6 - Rintoul St block	478,901.00
<b>Total all zones</b>	<b>1,400,164.00</b>



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Scale Approx 1:10000