

5.8. Crows Nest Road at Carr Street and McKye Street, Waverton – roundabout, pedestrian refuge islands, kerb build outs and kerb ramps

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ATTACHMENTS:

1. Crows Nest Road at Carr Street and McKye Street - Intersection Concept Plan [5.8.1 - 1 page]

PURPOSE:

North Sydney Council has approved the Local Area Traffic Management (LATM) Action Plan for Area 1. The plan includes a proposal to redesign the intersection of Crows Nest Road, Carr Street and McKye Street with a roundabout, pedestrian refuge islands, kerb build outs and kerb ramps.

EXECUTIVE SUMMARY:

North Sydney Council has approved the Local Area Traffic Management (LATM) Action Plan for Area 1. The plan includes a proposal to redesign the intersection of Crows Nest Road, Carr Street and McKye Street with a roundabout, pedestrian refuge islands, kerb build outs and kerb ramps.

There is no loss of parking proposed as part of the proposal.

The proposed works will increase visibility of approaching drivers, reduce vehicle speeds and reduce the crossing distance for pedestrians. The proposed concept plan is enclosed.

FINANCIAL IMPLICATIONS:

The cost for this project is estimated to be \$200,000 which can be funded from Traffic's LATM 2022/2023 budget

RECOMMENDATION:

1. **THAT** the committee endorses the following proposals to:
 - a) Construct a roundabout at the intersection Crows Nest Road and Carr Street;
 - b) Provide a pedestrian refuge with associated kerb build-outs and kerb ramps approaches to the roundabout.

LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

2. Our Built Infrastructure

2.1 Infrastructure and assets meet diverse community needs

2.4 Efficient traffic mobility and parking

4. Our Social Vitality

4.1 North Sydney is connected, inclusive, healthy and safe

5. Our Civic Leadership

5.3 Community is engaged in what Council does

BACKGROUND

As part of the 2022/23 implementation of Local Area Traffic Management (LATM) Action Plans, it is proposed to redesign the intersection of Crows Nest Road and Carr Street with a roundabout, pedestrian refuge islands, kerb build outs and kerb ramps. There is no loss of parking proposed as a result of the proposal.

There has been 2 recorded crashes at this intersection in the past 5 years.

The proposed works will increase visibility of approaching drivers, reduce vehicle speeds and reduce the crossing distance for pedestrians. The proposed concept plan is enclosed.

CONSULTATION REQUIREMENTS

Community engagement has occurred in accordance with Council's *Community Engagement Protocol*. The detail of this report provides the outcomes from the engagement for Council to consider prior to adoption.

Standard or Guideline Used: AS1742.10

Signs & Lines Priority: N/A

Precinct and Ward: Waverton / St Leonards

Impact on Bicycles: N/A

Impact on Pedestrians: Proposed pedestrian refuge and kerb build-outs will improve pedestrian's safety

Impact on Parking: Nil

PUBLIC CONSULTATION

Community consultation on this proposal took place between 22 February 2023 and 07 April 2023. Approximately 919 letters were sent to 90 properties in the surrounding area and the survey was available online through Council's 'Have Your Say' webpage. A total of 60 responses were received, including 5 responses from the outside survey area.

The results indicate a community preference for the construction of pedestrian refuge island and garden beds (88.3% support and 11.7% objection). The results of the survey are shown in tabular format below:

I support the proposed Roundabout, Pedestrian Refuge Island, Kerb Build Outs and Kerb Ramps at the intersection of Crows Nest Road, Carr Street and McKye Street	Response				
	No		Yes		Total
	Qty	%	Qty	%	
Within Survey area: <ul style="list-style-type: none"> • Crows Nest Road • Carr Street • Harriot Street • Bay Road • King Street • McKye Street • Tunks Street 	7	12.7	48	87.3	55
Outside Survey area: <ul style="list-style-type: none"> • Euroka Street • Chuter Street • Toongarah Road • Newlands Street 	0	0	5	100	5
Grand Total	7	11.7	53	88.3	60

COMMENTS RECEIVED

Due to the high volume of community feedback that Council receives regarding this proposal, Council consolidates the comments into major themes as opposed to including every individual comment.

Theme	Community Comments	Office Comments
Safety	Important project for safety vehicles and pedestrians	Noted.
	Supportive of this proposal. It's a very dangerous intersection with at many times, 5 cars all crossing through an intersection. Many people don't even stop at the stop sign so a round about makes perfect sense.	Noted.
	The current intersection is confusing and quite dangerous for vehicles. It can	Noted

	be difficult for pedestrians to cross particularly when traffic is heavy.	
Speeding	Vehicles speed down Crows Nest Road and it is not safe.	Roundabout with associated split islands and kerb build-outs operates as a traffic calming method. Further, kerb build-outs and split island narrows the travel lane and hence, reduces vehicle speed.
Signage	The signs in Crows Nest Road (approaching the intersection from the north east) are currently obscured by foliage. Placement of new signs should take note of the obscuring effect of shrubbery and trees.	Noted. As part of the new intersection arrangements the position and visibility of signage will be reviewed.
Pedestrian Crossing	Request for a raised pedestrian crossing on Crows Nest Road as high pedestrian activity to access Waverton train station. Raised crossing provide better visibility for approaching drivers and have higher impact on slowing down traffic.	<p>Splitter islands and kerb build-outs on approach to the roundabout reduce the lane width and deflect the direction of traffic entering the roundabout. This reinforces that drivers entering the traffic lane are required to give-way to vehicles already on the roundabout.</p> <p>If a pedestrian crossing is provided in lieu of a splitter island (or refuge island) there would be inadequate deflection for drivers entering the roundabout and could result in drivers perceiving that they have priority when travelling straight through the roundabout. As such, a pedestrian crossing has not being considered at this time.</p>
Speed Hump	Speed humps would aid to reduce vehicle speed	The roundabout is proposed to reduce vehicle speeds at the intersection. Should speeding be an issue they can be considered in addition to the currently proposed traffic calming treatment.
Maneuverability	Concerns about manoeuvrability of large vehicles and busses through the roundabout and pedestrian refuge.	A swept path analysis has been conducted to ensure that large vehicles (including waste services) and busses can manoeuvre through the roundabout and pedestrian refuge.
	The concept drawing shows a completely unimpeded route through the roundabout for traffic approaching on Crows Nest Road from the northeast. This traffic is travelling downhill and is by far the fastest	Roundabout with associated splitter island and kerb build-outs operates as a traffic calming method and deflects the direction of travel for drivers. This is proposed to reduce vehicle speeds and prevent a straight

	<p>moving into this intersection; I suspect often in excess of the speed limit.</p> <p>The proximity of the proposed traffic island is too close to our driveway in terms of allowing reasonably access to our own driveway impacting all unit holders.</p> <p>McKye St is already very narrow and a traffic Island will reduce the available – car to car passing width at the mouth of McKye St and so we would submit that something much less than a traffic island replace the proposed traffic island.</p>	<p>line of road for drivers to drive through the intersection.</p> <p>A swept path analysis has been conducted to ensure that vehicles can manoeuvre from their off-street parking onto McKye Street.</p> <p>The proposal increases the road width. There is sufficient space at the intersection to have a pedestrian refuge and travel lane on either direction.</p>
Visibility	<p>The concept also appears to have little consideration to the topography of the site. This is evidenced by the shown stopping position for the southern approach from Carr St, where it would not be possible to see traffic approaching from the right (Crows Nest Road northeast approach).</p> <p>By moving the stopping location of the car on Mckye accessing Crows Nest Rd further back (i.e. further into Mckye St) would decrease the visibility.</p> <p>It is very dangerous to have a pedestrian access right next to a driveway that cars turn left out of and potentially could run over a pedestrian if there were a blind spot.</p>	<p>The roundabout has been proposed as a result of safety concerns and crashes at the intersection. The roundabout will reduce vehicle speeds, require drivers to give way to vehicles already on the roundabout.</p> <p>The driver stopping position on all approaches allows drivers to observe vehicles on and approaching the roundabout.</p> <p>The driver stopping position on all approaches allows drivers to observe vehicles on and approaching the roundabout.</p> <p>There is clear visibility between drivers exiting the driveway and pedestrians at the kerb ramp.</p>
Noise	<p>Noise will increase due to the roundabout nature as traffic will have to brake then accelerate.</p>	<p>The existing condition at the intersection has a 'Stop' control for vehicle movement. This requires drivers to stop prior to accelerating. There is expected to be negligible change in noise pollution</p>
Landscape	<p>Please also beautify the intersection with natives and increase tree coverage as Council has already done nearby to great effect.</p> <p>Trees are getting removed and where will the replacement trees be planted.</p>	<p>Noted. Proposed garden area and grassed area will beautify the intersection</p> <p>Opportunities will be investigated to provide healthier trees and improved canopy.</p>
Drainage	<p>Associated Drainage. This is not clear on the GA Plan. Drainage gutter inlet near the S corner of No. 14 Carr St is presently served by Kerb Inlet Gully</p>	<p>Noted and this is a concept plan only. Drainage works associated with the plan will maintain or improve drainage.</p>

	<p>Pits at Carr St and Crows Nest Rd. The Plan shows replacement of the GP at Crows Nest Rd by a Junction Pit but no provision of a new KIGP.</p> <p>The existing GP in Carr St is not shown but presumably it will be retained (or modified). Please clarify.</p>	
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CONCLUSION

Given the support for the proposal and that the proposed works will increase visibility of approaching drivers, reduce vehicle speeds and reduce the crossing distance for pedestrians, it is recommended that Committee endorse the proposal to redesign the intersection of Crows Nest Road, Carr Street and McKye Street with a roundabout, pedestrian refuge islands, kerb build outs and kerb ramps.

Attachment 5.8.1

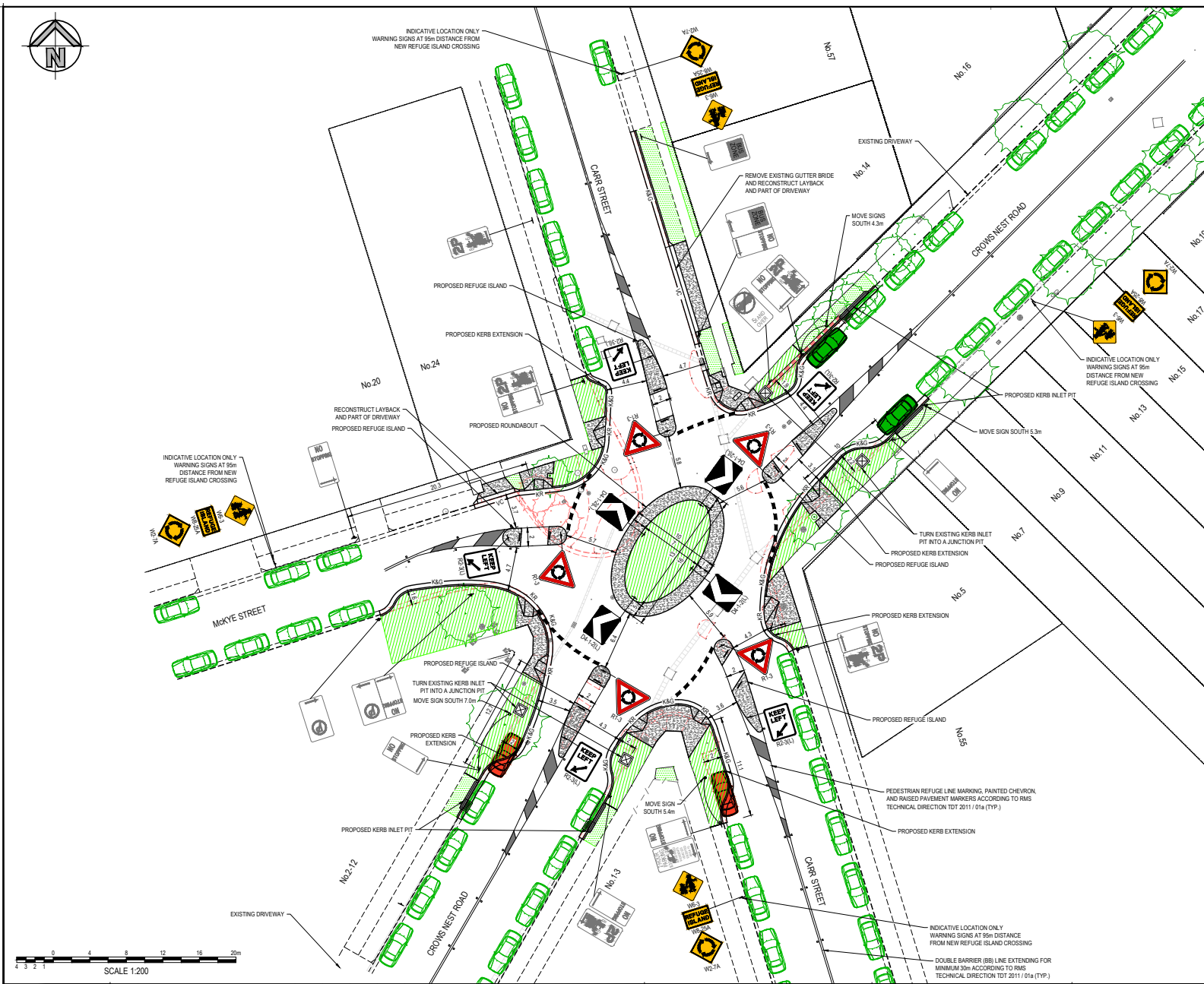
LEGEND

- EXISTING STORMWATER PIPE
- EXISTING KERB & GUTTER
- PROPOSED KERB & GUTTER
- PROPOSED VEHICLE CROSSING
- PROPOSED KERB RAMP
- PROPOSED STORMWATER PIPE
- KERB, GUTTER, KERB RAMP AND TREE TO BE REMOVED
- PROPOSED CONCRETE AREA
- PROPOSED GARDEN AREA
- PROPOSED GRASSED AREA
- PROPOSED JUNCTION PIT
- PROPOSED KERB INLET PIT (SINGLE)
- EXISTING PARKING SPACE
- LOSS OF PARKING SPACE
- ADDITIONAL PARKING SPACE GAINED
- EXISTING SIGNS
- PROPOSED SIGNS

CAR SPACES - CROWS NEST RD & CARR ST

Category	Description	Total
EXISTING	3 NO (NORTH SIDE OF CROWS NEST RD FROM NO.16 CROWS NEST RD DRIVEWAY TO CARR ST/CROWS NEST RD INTERSECTION)	32
	10 NO (SOUTH SIDE OF CROWS NEST RD FROM NO.19 CROWS NEST RD DRIVEWAY TO CARR ST/CROWS NEST RD INTERSECTION)	
	14 NO (WEST SIDE OF CARR ST FROM CROWS NEST RD TO BAY RD)	
PROPOSED	3 NO (WEST SIDE OF CROWS NEST RD FROM MARYE ST/CROWS NEST RD INTERSECTION TO NO.12 CROWS NEST RD DRIVEWAY)	32
	4 NO (NORTH SIDE OF CROWS NEST RD FROM NO.16 CROWS NEST RD DRIVEWAY TO CARR ST/CROWS NEST RD INTERSECTION)	
	11 NO (SOUTH SIDE OF CROWS NEST RD FROM NO.19 CROWS NEST RD DRIVEWAY TO CARR ST/CROWS NEST RD INTERSECTION)	
LOSS	4 NO (WEST SIDE OF CARR ST FROM CROWS NEST RD TO BAY RD)	4
	4 NO (WEST SIDE OF CROWS NEST RD FROM MARYE ST/CROWS NEST RD INTERSECTION TO NO.12 CROWS NEST RD DRIVEWAY)	4
TOTAL		32

CONCEPT



SURVEY INFORMATION
 HORIZONTAL SYSTEM: MGA 2020
 MARK ADOPTED:
 E 333 535 620
 N 6 294 720 380
 CRITICAL SYSTEM & HD 71
 BM ADOPTED: 100.00
 02.76 81

NO.	DESCRIPTION	DATE

NORTH SYDNEY COUNCIL
 C-SIDE SURVEYORS
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DRAINAGE UPGRADE AND LATM DESIGN
CROWS NEST ROAD, WAVERTON
 The GENERAL ARRANGEMENT

Drawn: D.Tran
 Checked: J.Tan
 Design: D.Tran
 Approved: S.Harrigan
 Date: Sept 2022
 Scale: 1:200
 Sheet Number: 22P90_SK_C100
 Revision: 1 of 7