




Outstanding Actions/Works/Requests - Traffic Management Committee


Date of the TMC meeting	Item No	Committee Recommendation	Responsible Officer	Priority	Status	Planned completion date	%	Comments
18 May 2010	7.7	<p>Review of Parking and Parking Facilities Local Law Committee:</p> <p>a) repeal the current parking and parking facilities local law in accordance with the statutory requirements 3.16(1) and 3.16(4) of the <i>Local Government Act 1995</i>; and</p> <p>b) instructs Administration to draft a new "Parking and Parking Facilities Local Law" in accordance with the Department Local Government guidelines.</p> <p>c)</p>	Luke Marsden	1		September 2011	95%	<p>Council approved at 14 December 2010 meeting to undertake community consultation on the proposed parking and parking facilities local law. Consultation has commenced. It was advertised on Post Newspaper on 5 -6 February 2011. Submissions closed on 25 March 2011.</p> <p>Administration will write a report including feedback from the community. This will be presented at the next Council Committee meeting.</p>
17 August 2010	7.4	<p>Traffic Management - Allen Park Precinct Committee:</p> <p>a) Undertakes traffic counts immediately, November 2010, January and March 2011 including weekend statistics within the analysis;</p>	Maria Hulls	2		Ongoing	80%	<p>Independent consultant has been engaged to undertake a traffic study and review data. Report to Council at the next available meeting.</p>

T13.11 – List of Outstanding Actions/Works/Requests of the Traffic Management Committee

- 1 – High priority
- 2 – Medium priority
- 3 – Low priority
- BCR - Benefit Cost Ratio

-  On hold / no action to be taken
-  Risks / Issues need addressing
-  On track
-  Completed

Outstanding Actions/Works/Requests - Traffic Management Committee

Date of the TMC meeting	Item No	Committee Recommendation	Responsible Officer	Priority	Status	Planned completion date	%	Comments
1 February 2011	7.8	<p>b) Installs "No stopping Road or Verge" signage and line marking to improve the sight visibility as per attached map entitled Ned_18_10;</p> <p>c) Investigates the cost to undertake a future study of the entire Allen Park/Swanbourne precinct; and</p> <p>d) Incorporates the findings of (a) through to (c) of the original recommendation and criteria regarding Key Warrants when considering options (including the options suggested by Swanbourne resident Mr Mark Newland) to address traffic management issues within the Allen Park precinct.</p> <p>e) the report on solutions to traffic and parking problems pertaining to the Swanbourne Master plan as per Council resolution dated 30 March 2010 to be presented at the next Traffic Management Committee meeting.</p>	Wayne Mo	2		On going	80%	Approved by Council on 22 February 2011 for the works to commence as soon as possible depending on
		Traffic Calming and Parking Options in Odean Crescent and Marine Parade, Swanbourne Committee:						

 On hold / no action to be taken

 Risks / Issues need addressing

 On track

 Completed

1 - High priority

2 - Medium priority

3 - Low priority

BCR - Benefit Cost Ratio





Page 2

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
Outstanding Actions/Works/Requests - Traffic Management Committee

Date of the TMC meeting	Item No	Committee Recommendation	Responsible Officer	Priority	Status	Planned completion date	%	Comments
		<p>a) receives the report on traffic calming and parking options in Odern Crescent and Marine Parade, Swanbourne for their information;</p> <p>b) approves the short term design drawing (attachment 3) which includes amendments as detailed from the members of the Swanbourne Society; and</p> <p>c) instructs Administration to monitor the vehicle movements on driveways/verges from the car parks over the next 12 months for temporary traffic solution effectiveness.</p>						<p>2010/11 Capital Works Project. Still awaiting final MRWA approval.</p> <p>Delay has occurred due to MRWA concern pertaining to bicycle usage. Meeting with MRWA on 5 May 2011</p> <p>Hold up by MRWA on final design in incorporating cycle ways. Works planned to commence June 2011. Director has advised Mr. D Cullen – spokesperson for the residents on Odern Crescent. Administration has also sent correspondence advising the reason for the hold up.</p> <p>Ongoing due to conflicting information from MRWA and their refusal to approve the City's traffic plan. Community have been notified and a further meeting has been scheduled with the community representative –</p>

- 1 – High priority
- 2 – Medium priority
- 3 – Low priority COM- Completed
- BCR - Benefit Cost Ratio

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 Risks / Issues need addressing
 On track
 Completed



Outstanding Actions/Works/Requests - Traffic Management Committee

Date of the TMC meeting	Item No	Committee Recommendation	Responsible Officer	Priority	Status	Planned completion date	%	Comments
1 March 2011	7.4	Proposal for Local Area Traffic Management – Melvista Avenue, Nedlands Committee receives the traffic counts on Melvista Avenue, Nedlands for their information and instructs Administration to further investigate the design of traffic management controls on Melvista Avenue, Nedlands between Vincent Street and Bruce Street.	Wayne Mo	2		November 2011	100 %	Dr Digby Cullen. Meeting held with Dr Cullen and Denise Broux on November 17 2011. Still awaiting approval from MRWA Report to Committee on 19 November 2011 and Council on 13 December 2011
5 April 2011	7.6	Proposed Parking restrictions surrounding Stirling Highway, Nedlands Committee instruct Administration to: a) Undertake community consultation regarding changing all unrestricted parking on north and south of Stirling Highway, Nedlands to 2P Monday-Friday 8.00am-5.00pm and NP Monday-Friday 8.00am – 5.00pm	Luke Marsden	1		October 2011	100 %	Report to Committee on 19 November 2011 and Council on 13 December 2011


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 Risks / Issues need addressing
 On track
 Completed





Outstanding Actions/Works/Requests - Traffic Management Committee

Date of the TMC meeting	Item No	Committee Recommendation	Responsible Officer	Priority	Status	Planned completion date	%	Comments
17 May 2011	7.3	<p>b) Report back to the Traffic Management Committee at the next available meeting.</p> <p>Car Parking facility – The Esplanade, Nedlands.</p> <p>a) Council receives the results of the community consultation process;</p> <p>b) The matter be referred back to Administration for consideration of 45 degree parking and other options and locations; and</p> <p>c) A Safety audit be carried out on the recommended options.</p>	Wayne Mo	2		October 2011	70%	Report to Committee on 19 November 2011 and Council on 13 December 2011
17 May 2011	7.4	<p>Vehicular Congestion around Challenge Stadium, Mt Claremont.</p> <p>a) Committee receives the report of vehicular congestion at Challenge Stadium for its information; and</p> <p>b) Requests Administration to liaise with relevant stakeholders to investigate additional access in relation to parking on the site from Stephenson Avenue on the south side of the site.</p>	Luke Marsden	2		December 2011	20%	Administration to undertake designs for consideration in the proposed 2012/13 draft budget.



Outstanding Actions/Works/Requests - Traffic Management Committee

Date of the TMC meeting	Item No	Committee Recommendation	Responsible Officer	Priority	Status	Planned completion date	%	Comments
21 June 2011	8.3	<p>North Hollywood Traffic Treatment options</p> <p>Committee:</p> <p>a) Receives the report</p> <p>b) Requests Administration undertake a traffic and parking monitoring program for a minimum of 3 consecutive months in length to determine traffic movements in North Hollywood residential area and report back by December 2011.</p> <p>c) Requests Administration investigate and implement temporary measures to prevent QEII construction traffic particularly trucks from using the North Hollywood residential area; and</p> <p>d) Requests Administration write to all residents in North Hollywood and advise them on the traffic management committee's recommendations from this report.</p>	Maria Hulls	1		December 2011	50%	<p>Administration has written to all residents in North Hollywood advising them on the Traffic Management Committees recommendation.</p> <p>Administration looking at various options to monitor the area and associated costs. Initial investigation of a minimum three (3) months consecutive monitoring, by an independent monitoring program will be an approximate cost of between \$80,000 and \$250,000 depending on the data and video surveillance.</p> <p>Consultant engaged for 3 month monitoring at an approximate cost of \$40,000, this includes 1 video day per week and a report to Administration in Dec 2011.</p>





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Outstanding Actions/Works/Requests - Traffic Management Committee

Date of the TMC meeting	Item No	Committee Recommendation	Responsible Officer	Priority	Status	Planned completion date	%	Comments
2 August 2011	7.3	<p>Alfred Road and Nidjalla Loop Safety and Accident Analysis Committee:</p> <ol style="list-style-type: none"> Approves installation of a W2-3 T intersection sign on the north side of Alfred Road as per the attachment: Plan/876 Requests Administration undertake traffic counts on Nidjalla Loop to ascertain vehicle movements; and Requests Administration monitor the intersection for a period of twelve months. 	Luke Marsden	3		2 August 2012	10%	<p>MRWA have been advised to install signage.</p> <p>Administration has scheduled to undertake traffic counts on Nidjalla Loop in conjunction with current traffic counting schedule.</p> <p>This item will remain until point 3 is complete in 12 months.</p>
2 August 2011	7.5	<p>Swanbourne Beach – Upper Car Park Improvements</p> <ol style="list-style-type: none"> That Administration be instructed to undertake community consultation with residents and stakeholders within the boundaries as per the map Ned_34_11 Administration re-mark the upper car park as per the drawing A3_Odern_Crescent_Car_Park_2D-A prior to October 2011 	Wayne Mo	2		December 2011	80%	In preparation for construction.






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Outstanding Actions/Works/Requests - Traffic Management Committee

Date of the TMC meeting	Item No	Committee Recommendation	Responsible Officer	Priority	Status	Planned completion date	%	Comments
2 August 2011	7.6	<p>Verge Parking – Smyth Road from Monash Avenue to Verdun Street</p> <p>Committee:</p> <ol style="list-style-type: none"> Administration be instructed to implement a two (2) hour parking restriction (2P) 8 am to 5 pm, Monday to Friday “Verge only” on the eastern side of Smyth Road from Monash Avenue to Verdun Street and that no verge parking be permitted on the western side of Smyth Road from Monash Avenue to Verdun Street for a trial period of six (6) months; Instruct Administration to undertake community consultation with residents and stakeholders within the area including hospital staff; and Investigate options for formalised street and off street parking on Smyth Road. 	Luke Marsden	1		February 2011	70%	<p>Parking signs have been installed 23/8/2011 and rangers monitoring for compliance.</p> <p>Administration has consulted with the stakeholders in the area including QEII staff and gained support for the parking initiative. Completed</p> <p>Administration investigated options for formalised street and off street parking on Smyth Road and will report to Committee upon the end of the 6 month trial.</p> <p>This item will remain until point 3 is complete.</p>

Outstanding Actions/Works/Requests - Traffic Management Committee






BLACK SPOT FUNDING APPLICATIONS (KNOWN FROM ADJOINING COUNCILS, THAT MAY AFFECT CITY OF NEDLANDS)						
Black Spot Location	Details	Responsible Officer	Status	Planned Completion Date	%	Comments
Stirling Highway / Broadway / Hampden Road	Intersection upgrade that may include amendments to parking, upgrade of traffic signals, extension of right turn lane on Stirling Hwy and an additional left turn lane on Broadway.	Wayne Mo		April 2012		Currently undertaking community consultation (public discussions etc.)
Stirling Highway / Florence Road	Intersection upgrade that may include an upgrade of the existing traffic island	Wayne Mo		Dec 2011		Report to Committee on 29 November 2011 and Council on 13 December 2011
Elizabeth Street / Tyrell Street	Installation of new traffic islands on Elizabeth St	Wayne Mo		Nov 2011		Report to Committee on 29 November 2011 and Council on 13 December 2011
Bruce Street / Elizabeth Street	Installation of a new roundabout and street lighting	Wayne Mo		March 2012		Report to Committee on 29 November 2011 and Council on 13 December 2011
Princess Road / Florence Road	Installation of new traffic islands	Wayne Mo		Dec 2011		Report to Committee on 29 November 2011 and Council on 13 December 2011

Outstanding Actions/Works/Requests - Traffic Management Committee

Carrington Street / Broome Street	Street lighting upgrade	Wayne Mo		Jan 2012	Report to Committee on 29 November 2011 and Council on 13 December 2011
Princess Street / Bruce Street	Street lighting upgrade	Wayne Mo		Jan 2012	Report to Committee on 29 November 2011 and Council on 13 December 2011
Monash Avenue / Hampden Road	Street lighting upgrade	Wayne Mo		Jan 2012	Report to Committee on 29 November 2011 and Council on 13 December 2011





LIST OF ITEMS RECEIVED FROM COMMITTEE MEMBERS/ADMINISTRATION FOR DISCUSSION

Date Received	Received From	Details	Administration Comments
N/A	Administration	<ul style="list-style-type: none"> Parking restriction signage and location – precincts. 	Pick up of all signage completed and has been updated into G.I.S system. On going. To be included in the draft parking strategy
2 August 2011	Cr Smyth	<ul style="list-style-type: none"> Horses crossing point – follow up with MRWA and community services & discuss with the riding clubs for crossing point of Stephenson Ave 	The City has already installed appropriate horse signage in the area. Further consultation with community groups is being investigated. <i>Can be removed from next update</i>

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Outstanding Actions/Works/Requests - Traffic Management Committee

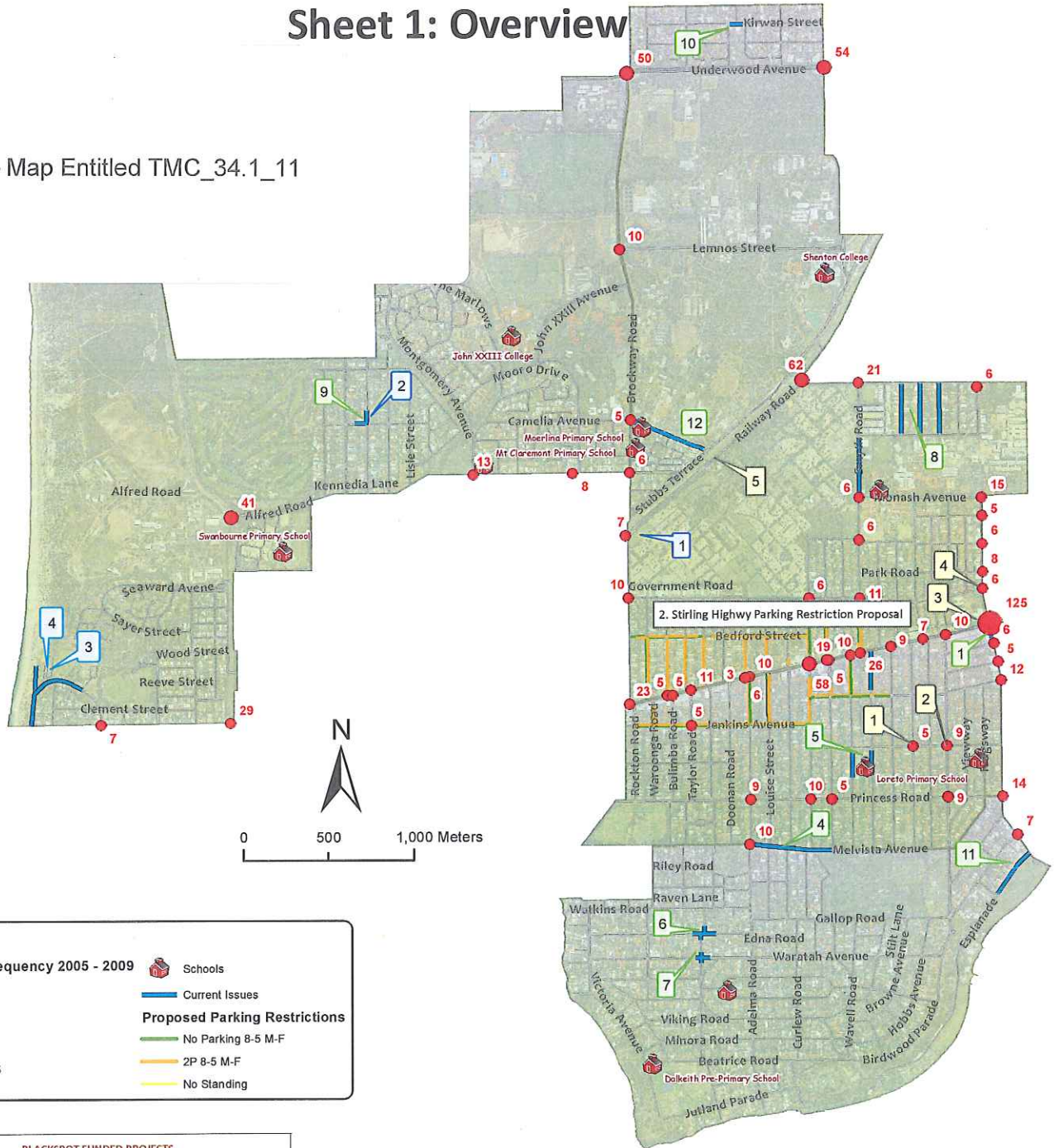
2 August 2011	Cr Smyth	<ul style="list-style-type: none"> Write to VenuesWest informing them of the minister's decision and that the City of Nedlands will pursue construction designs in the interim for council consideration and funding application. 	Correspondence sent to CEO VenuesWest 23 August 2011 <i>Can be removed from next update</i>
2 August 2011	Peter Plaisted	<ul style="list-style-type: none"> Update on Railway Rd / Loch St 	Resubmitted for 2012/2013 black spot consideration under Road Safety Audit and advice from MRWA's Traffic Management Manager

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 - Cost Ratio
-
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 -  Completed

City of Nedlands Traffic Management Details as at November 2011

Sheet 1: Overview

T14.11 – Map Entitled TMC_34.1_11



Legend

Accident Frequency 2005 - 2009

- 5 - 35
- 36 - 65
- 66 - 95
- 96 - 125

Schools

● Schools

Current Issues

— Current Issues

Proposed Parking Restrictions

- No Parking 8-5 M-F
- 2P 8-5 M-F
- No Standing

BLACKSPOT FUNDED PROJECTS	
Project Description	Status
1. Elizabeth / Tyrell Street Intersection Budget approved. For completion 2011/2012	
2. Bruce / Elizabeth Street Intersection Budget approved. For completion 2011 / 2012	
3. Stirling Hwy / Broadway Intersection Budget approved. For completion 2011 / 2012	
4. Hampden Rd / Gordon Street Intersection Completed	
5. Railway Rd / Loch St / Gugeri St Intersection Reapply for 2012 / 2013 Blackspot funding	

CURRENT ISSUES	
Location	Issue
1. Broadway	Clearway / 5 minute parking
2. North & South of Stirling Hwy	Proposed Parking Restrictions
4. Melvista Ave - Adelmata to Florence Rd	Traffic speed and volume
5. Loreto Primary School	Parking Congestion/Kiss & Drop Effectvness
6. Alexander Rd, Phillp Rd Intersection	Intersection safety
7. Alexander Rd, Waratah Ave Intersection	Intersection safety
8. Kitchener/ Burwood /Croydon Streets	Block off through traffic from Aberdare
9. Asquith Street Shopping Centre	Growth in visitor numbers
10. Kirwan St Shopping Precinct	Increase In Traffic and Parking
11. Espanade Parking	Location and style of parking bays
12. Quintillian Road	Short Cut Speeding

CITY FUNDED PROJECTS	
Project Description	Status
1. Railway Rd / Loch St Intersection Pedestrian actuated signals	Reapply for 2012 / 2013 Blackspot funding.
2. Asquith St / Strickland St Intersection: Supply dedicated ACROD parking bay	Completed
3. Odern Crescent: Road modifications and improvements	TMC Approved - Feb 20110 Awaiting Main Roads approval
4. Swanbourne Beach Upper Car Park Modifications	In preparation for construction

NOTE: Blackspot data sourced from the Main Roads WA website, revised 17 November 2011. Numbers provided are the cumulative total from 2006 - 2010.

City of Nedlands Traffic Management as at November 2011

Sheet 2: Dalkeith, Melvista & Hollywood Wards

T14.11 – Map Entitled TMC_34.2_11

Legend

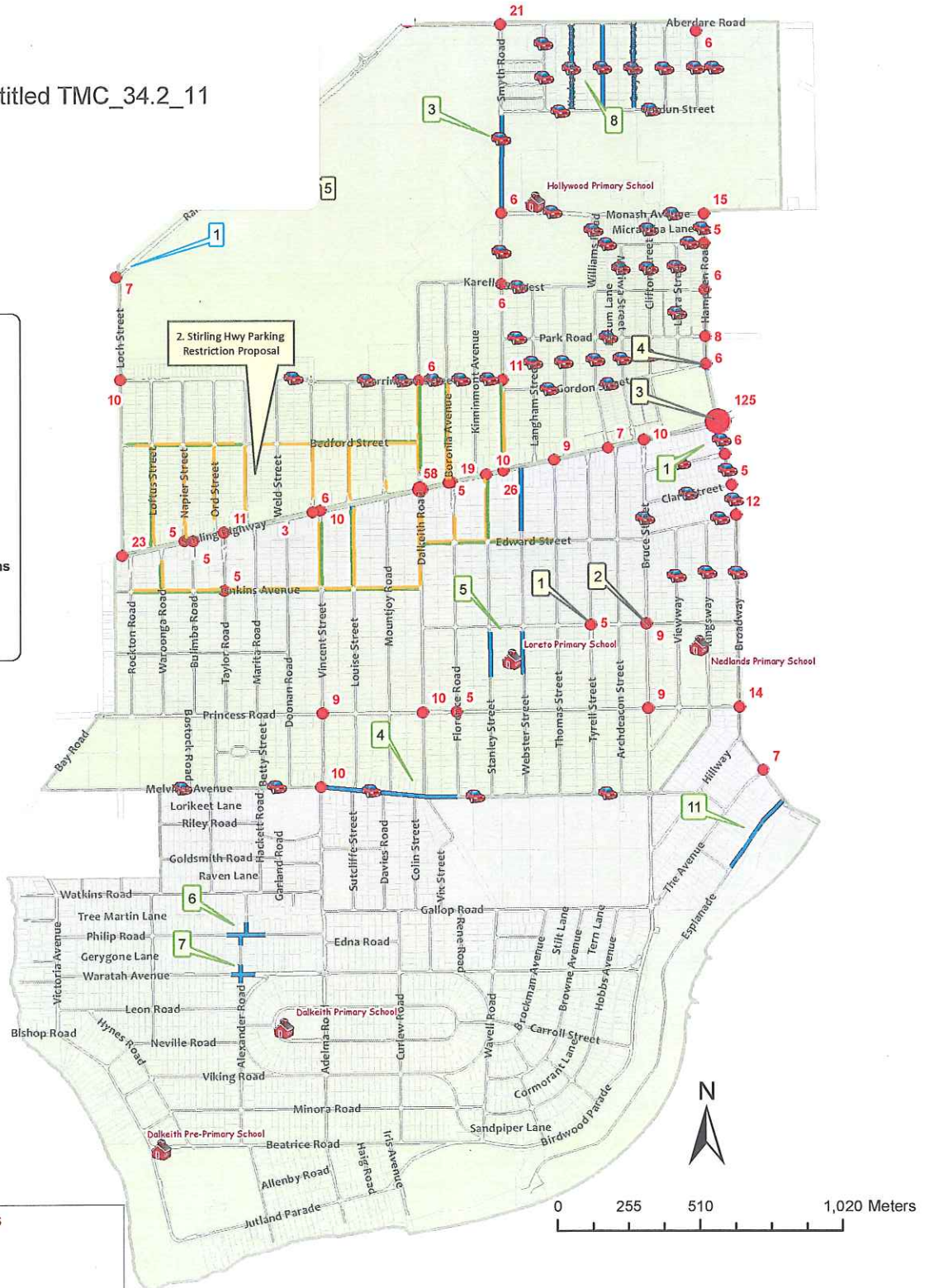
- Schools
- Traffic Count Locations 2010 - 2011

Blackspots
Accident Frequency 2005 - 2009

- 5 - 35
- 36 - 65
- 66 - 95
- 96 - 125

Stirling Hwy Proposed Parking Restrictions

- No Parking 8-5 M-F
- 2P 8-5 M-F
- No Standing
- Current Issues



BLACKSPOT FUNDED PROJECTS

Project Description
1. Elizabeth / Tyrell Street Intersection Budget approved. For completion 2011 / 2012
2. Bruce / Elizabeth Street Intersection Budget approved. For completion 2011 / 2012
3. Stirling Hwy / Broadway Intersection Budget approved. For completion 2011 / 2012
4. Hampden Rd / Gordon Street Intersection Completed
5. Railway Rd / Loch St / Gugeri St Intersection Reapply for 2012 / 2013 Blackspot funding

CURRENT ISSUES

Location	Issue
1. Broadway	Clearway / 5 minute parking
2. North & South of Stirling Hwy	Proposed Parking Restrictions
4. Melvista Ave - Adema to Florence Rd	Traffic speed and volume
5. Loreto Primary School	Parking Congestion/Kiss & Drop Effectiveness
6. Alexander Rd, Phillip Rd Intersection	Intersection safety
7. Alexander Rd, Waratah Ave Intersection	Intersection safety
8. Kitchener / Burwood / Croydon Streets	Block off through traffic from Aberdare
11. Espanade Parking	Location of parking bays - Safety Audit Requested

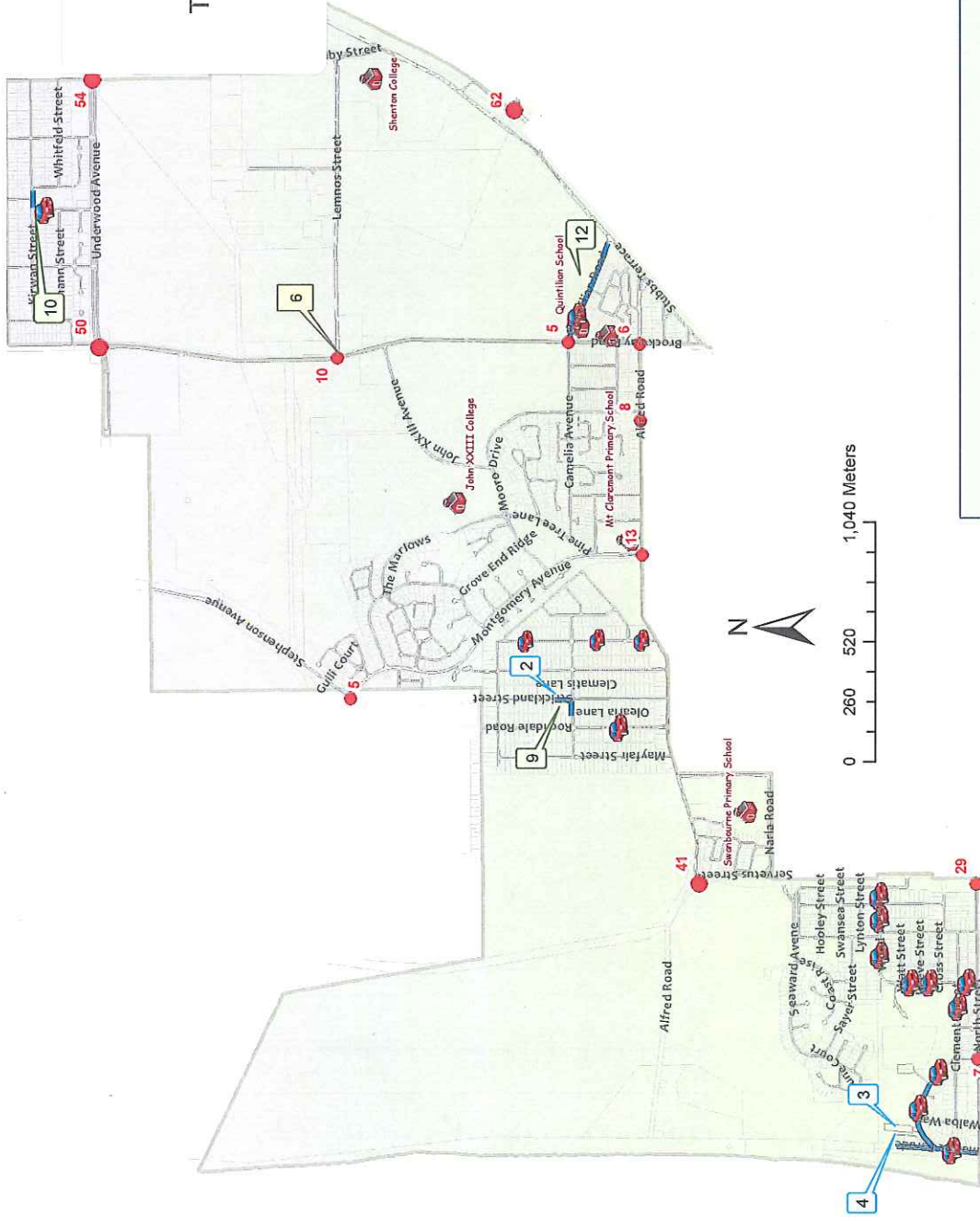
CITY FUNDED PROJECTS

Project Description	Status
1. Railway Rd / Loch St Intersection Pedestrian actuated signals	Reapply for 2012 / 2013 Blackspot funding.

City of Nedlands Traffic Management Details as at November 2011

Sheet 3: Swanbourne, Mt Claremont, Shenton Park & Floreat

T14.11 – Map Entitled TMC_34.3_11



Legend

- Schools
- Traffic Count Locations 2009 - 2011

Blacks pots

Accident Frequency 2005- 2009




- 5 - 35
- 36 - 65
- 66 - 95
- 96 - 125

Current Issues

Project Description	Status
Asquith St/ Strickland St intersection: 2. Supply dedicated ACROD parking bay	Completed October 2011
3. Road modifications and improvements	TMC Approved - Feb 20110 Awaiting Main Roads approval
4. Swanbourne Beach Upper Car Park Modifications	In preparation for construction

Location	Issue
9. Asquith Street Shopping Centre	Growth in visitor numbers
10. Kirwan St Shopping Precinct	Increase in Traffic and Parking
12. Quintillian Road	Short Cut Speeding
13. Rochdale Road	High Vehicle Speed

Traffic Management Committee
Strategic Traffic and Parking Management Action Plan

Item No.	Strategic Issue	Projects/Strategy/Actions	Priority	TMC Meeting date	TMC Item	Officer	Cost	Expenditure to Date	Start date	Planned Completion Date	% Complete	Status (R/A/G)	Comments
1	OEII and surrounds; and Hampden Road	1.1 Video Parking Enforcement Trial 1.2 Traffic Counts	1			Ian	40,000		Aug-11	Nov-11			Monitoring to be completed by Dec 2011
2	UWA and surrounds; and Broadway	2.1 Traffic Counts	2			Ian							Arranging meetings with UWA
3	Stirling Highway	3.1 Parking Restrictions in adjacent streets	3	5-Apr-11	7.6	Luke	5,000		Dec-11	May-12			6 month trial proposed May 2012
4	Mount Claremont Sports Precinct	4.1 TBA	4										Dual carriageway request to MRWA & Minister for Transport
5	Swanbourne beachfront and Allen Park	5.1 Odern Cres and carpark traffic management	5			Wayne	15,000		Jul-11	Mar-12			Waiting on final approval from MRWA for Odern Cres
6	Heavy vehicle inc. waste disposal vehicles	6.1 TBA	6										
7	Schools – Dalkeith, Hollywood, John XXXIII.	7.1 TBA	7										
8	Cycling Plans	8.1 TBA	8										

Note: This is a working Document/Action Plan and any additional Projects/Strategy/Actions will be added as the Action Plan is implemented to meet the communities changing needs

 On Hold/no action to be
 Risks/issues need addressing
 On track
 Completed

T14.11 – Strategic Traffic and Parking Management Action Plan M11/11323

T14.11 Key Warrants for Installing Traffic Calming Devices M10/14772

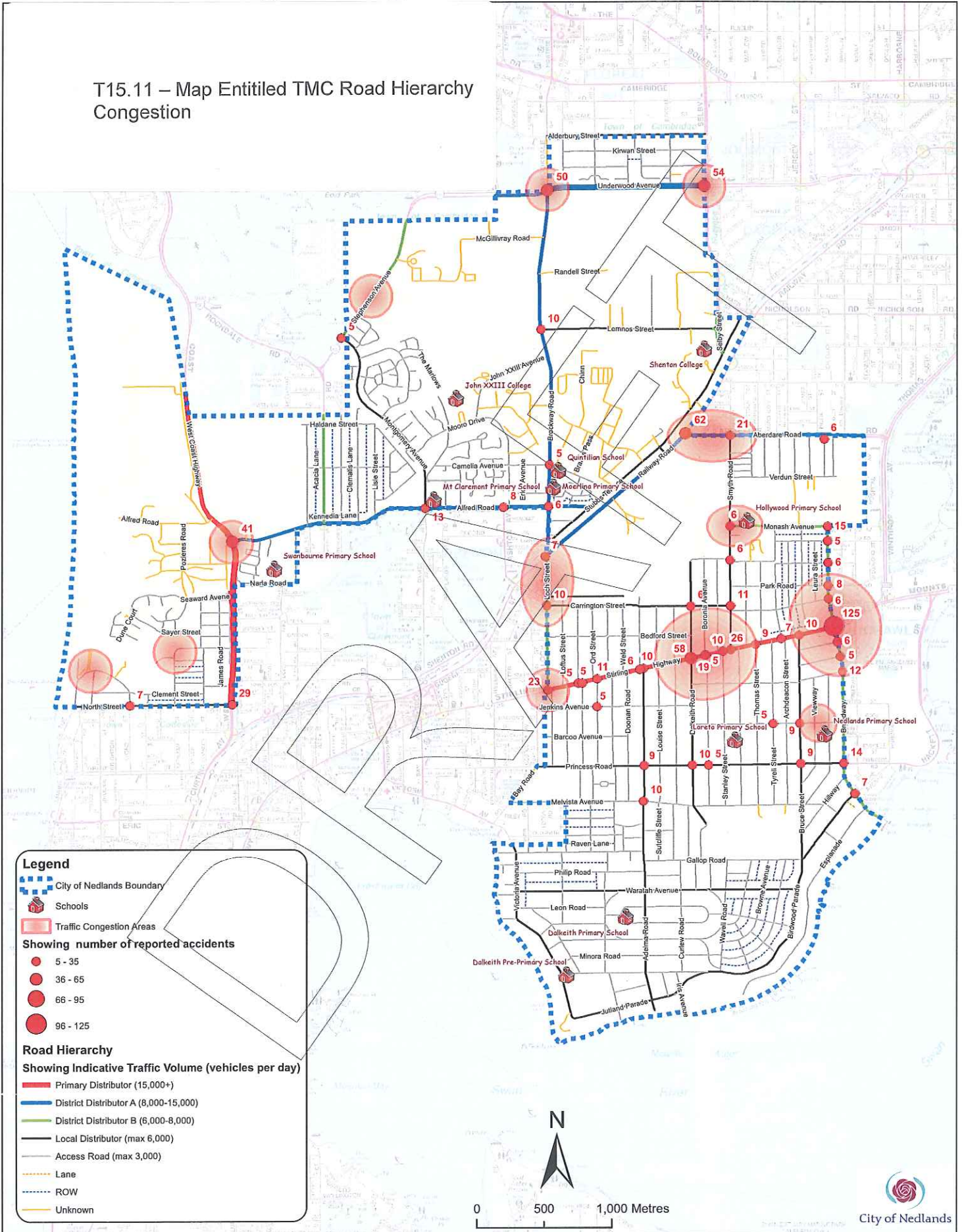
Criteria and key warrants for installing traffic calming devices			
Traffic Parameter	Value	Points	Actual
Traffic Study Data			
Traffic Volumes	>2000 vpd	15	
	>1000 vpd	10	
	>500 vpd	5	
	<500 vpd	0	
85th Percentile speed and median speed (Each)	>10 kph above posted speed	15	
	>7 kph above posted speed	10	
	>5 kph above posted speed	5	
	<5 kph above posted speed	0	
Number of crashes in the last 5 years	>5 crashes (injury)	15	
	Between 3 to 5 crashes in 5 years	10	
	Between 1 to 2 crashes in 5 years	5	
	No crashes in 5years	0	
Road Characteristics			
Parking	Heavy - 80% occupied	4	
	Moderate - 50% occupied	2	
	Low - 30% occupied	1	
	Rarely Occupied	0	
Land Use & Area Characteristics	Dense Residential/Commercial/Industrial/School/Town Centres	4	
	Medium density Residential/Commercial/Industrial/Senior Homes/Hospitals/Nursing Homes	2	
	Lowly density Residential/Commercial/Industrial/Sporting Complex/Parks/Car parks	1	
Bus Routes	Frequent Routes – Minimum 5 per day	4	
	Infrequent Routes – less than 5 per day	2	
	School bus routes	1	
	No Bus Routes	0	
Heavy vehicle restrictions	3T restriction	4	
	5T restriction	2	
	10T restriction	1	
Footpaths	No footpaths	4	
	Partial F/P or on one side	2	

Pedestrian Facilities	Any formal crossing	4	
	Any crossing facility (refuges)	2	
Road Width	Less than 6 m	4	
	Between 6m and 10 m	2	
	Between 10m and 15m	1	
Road Length	Greater than 500 m	4	
	Between 100 m and 500 m	2	
Existing Traffic Calming Devices	Heavy	0	
	Moderate	1	
	Low	3	
	None	3	
Community Support and Other Factors	Petition	5	
	City of Nedlands residents/ratepayers	5	
	Non residents	3	
TOTAL (Maximum=85)			
Percentage			0%
Rank			

Criteria	Description
>75 %	Report to Traffic Management Committee with a recommendation of providing traffic calming devices.
61-75 %	Report to Traffic Management Committee and discuss possibility of providing traffic calming.
41-60 %	Council to review traffic data in 6 months (No report to Traffic Management Committee required)
25-40 %	Monitor street and review traffic data after 12 months (No report to Traffic Management Committee required)
<25 %	Do Nothing
Speed	That regardless of the total points scored, should the 85th percentile speed exceed the posted speed limit by 5km/h, the street be referred to the WA Police for monitoring and/or enforcement.

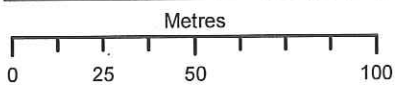
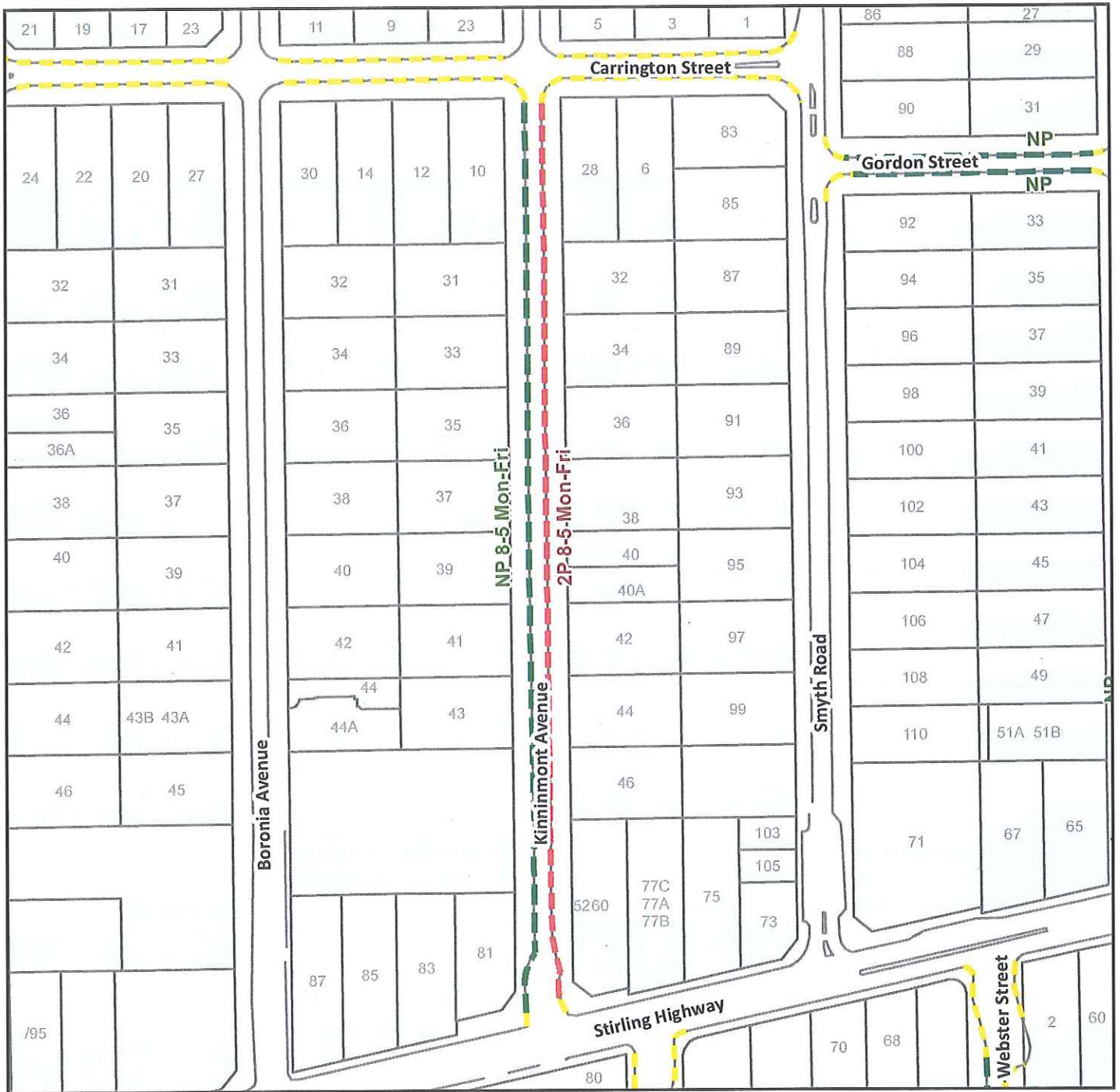
Main Roads WA Functional Hierarchical Classification Showing Existing Traffic Congestion Areas

T15.11 – Map Entitled TMC Road Hierarchy Congestion



NOTE: Accident Frequency data sourced from the Main Roads WA website. Numbers provided are the cumulative total from 2006 - 2010. This data will not change until data is updated from the Main Roads website (Revised 17 November 2011).





Proposed Permanent Parking Restrictions
Kinninmont Avenue, Nedlands



Legend

Parking Zones

- No Stopping
- No Parking
- 2P

T16.11 – Proposed Parking Restrictions
Kinninmont Ave Plan





Proposed Permanent Parking Restrictions
Webster St, Nedlands

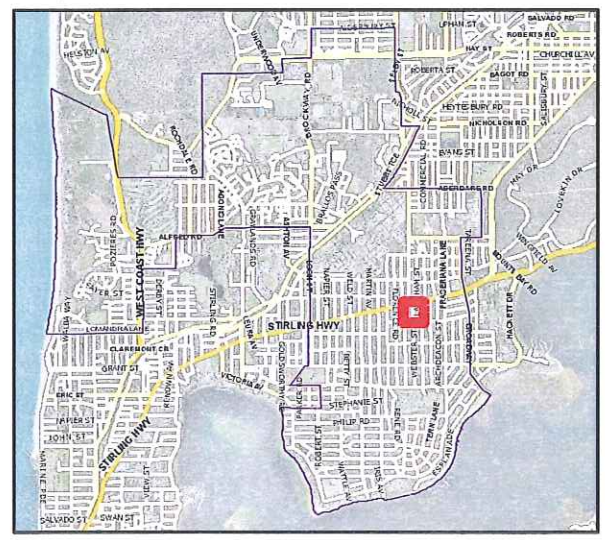


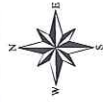
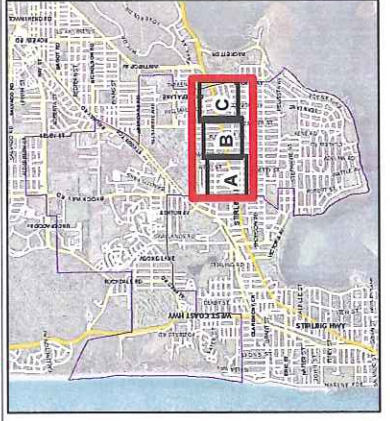
Legend

Parking Zones

- ACROD
- No Stopping
- No Parking
- 2P

T17.11 – Proposed Parking Restriction
Webster Street Plan





Proposed Parking Restrictions Stirling Highway Precinct City of Nedlands

T18.11 - Proposed Parking Restrictions
Surrounding Stirling Highway – Maps

Existing Parking Restrictions

- 5 mins
- 0.25P
- 0.5P
- No Stopping
- No Parking
- 1P
- 2P
- 3P
- 4P
- Loading Zone

Proposed Parking Restrictions

- 2P 8.00 - 5.00 Mon - Fri
- No Parking 8.00 - 5.00 Mon - Fri
- No Stopping

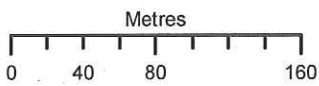
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Sheet A

Sheet B



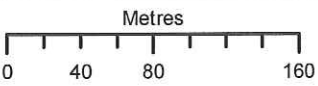
Sheet A

Proposed Permanent Parking Restrictions
Stirling Highway Precinct, City of Nedlands



Existing Parking Restrictions	Proposed Parking Restrictions
5 mins	2P 8.00 - 5.00 Mon - Fri
0.25P	No Parking 8.00 - 5.00 Mon - Fri
0.5P	No Stopping
No Stopping	
No Parking	
1P	
2P	
3P	
4P	
Loading Zone	





Sheet B

Proposed Permanent Parking Restrictions
Stirling Highway Precinct, City of Nedlands



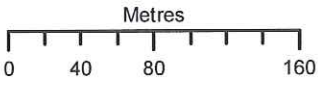
Existing Parking Restrictions	Proposed Parking Restrictions
5 mins	2P 8.00 - 5.00 Mon - Fri
0.25P	No Parking 8.00 - 5.00 Mon - Fri
0.5P	No Stopping
No Stopping	
No Parking	
1P	
2P	
3P	
4P	
Loading Zone	





Sheet C

Sheet B



Sheet C

Proposed Permanent Parking Restrictions
Stirling Highway Precinct, City of Nedlands



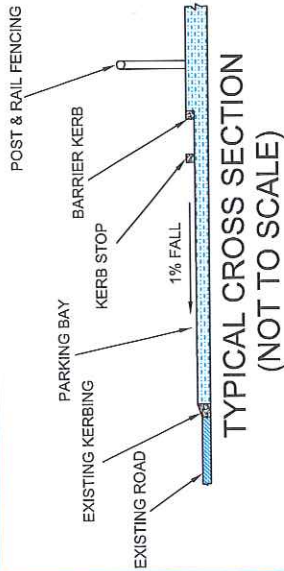
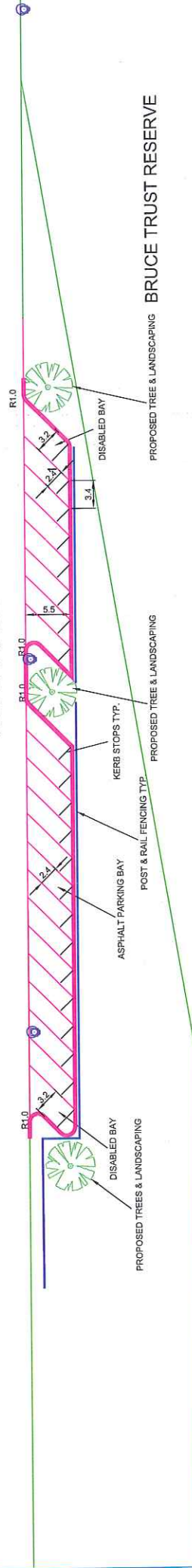
Existing Parking Restrictions	Proposed Parking Restrictions
5 mins	2P 8.00 - 5.00 Mon - Fri
0.25P	No Parking 8.00 - 5.00 Mon - Fri
0.5P	No Stopping
No Stopping	
No Parking	
1P	
2P	
3P	
4P	
Loading Zone	



BESSEL AVENUE

59 57 55 53 51 49 47 45 43

ESPLANADE



NOTES:

1. Ensure Traffic Management during construction conforms to Worksafe Standards.
2. Keep site safe for workers, pedestrians, and road users at all times.
3. Services are shown in their approximate location. Domestic services are shown. Locate all services before excavation. Provide adequate support protection for exposed services. Existing crossovers are not shown.
4. Ensure the Drainage System is operational before commencement of work. Provide and draw for kerbing, crossover pedestrian ramps, asphalt, and drainage.
5. Existing verges shall not be disturbed beyond the extent of work.
6. Maintain existing grades and falls.
7. Tie in of new surface to finish flush with existing surfaces.
8. Replace existing kerbing with new kerbing.
9. Non-curing cross-over ribs to be replaced to City of Nedlands Specific crushed limestone.
10. Replace surface areas of pavement with new base consisting of 200mm crushed limestone.
11. All fill shall be clean non plastic material free from vegetation and other deleterious material. Fill shall be placed in uniform layers not exceeding 30 thickness and compacted to a density not less than that of the surrounding business.
12. Resurface pavement with 25mm black Stone Mastic Asphalt after crack patching and placing corrector course.
13. Restore verges, reticulation and crossovers to their original condition.

Legend:

- Ⓢ Proposed SEP's or Grated Gully with soakwells
- Ⓢ existing telecom pit



T19.11 – Design Plan – Esplanade

Revised	Drawn	Checked



SCALE: 1:500
DATE: 18/08/2011
COUNCIL MINUTE

DESIGNED: GC
DRAWN: GC
CHECKED:
APPROVED:

CITY OF NEDLANDS

TITLE: ESPLANADE
22x 45 DEGREE ASPHALT PARKING OPTION (DRAFT)
DWG NO: ES1-ASPHALT-45DEG-A
A3

T20.11 – Design Plan - Melvista

- LEGEND:**
- PROPOSED TREATMENT
 - PROPOSED NEW SIGNS
 - WATER CORP WATER MAINS
 - WATER CORP DRAINAGE PIPES
 - WATER CORP WASTEWATER PIPES
 - GAS LINES
 - WESTERN POWER LINES



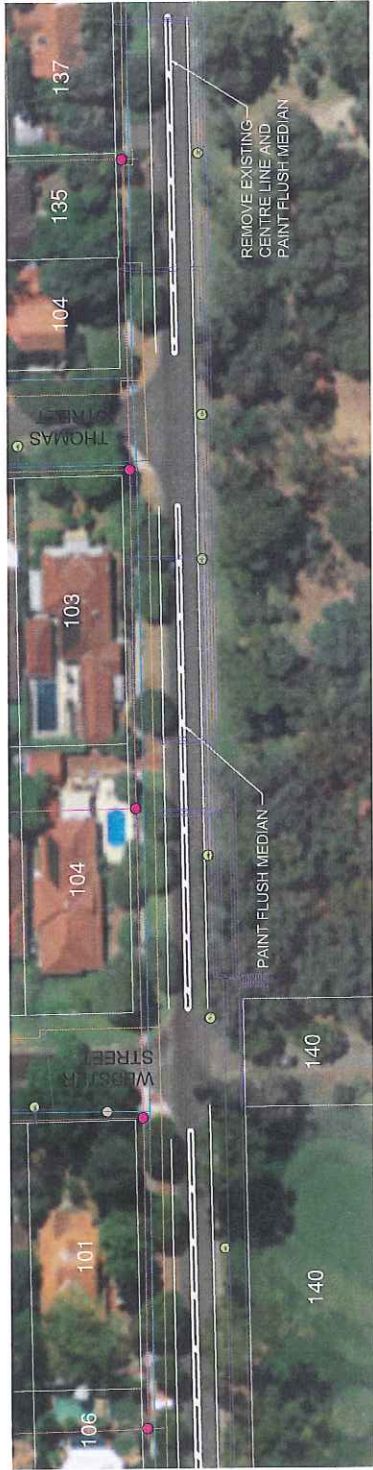
TITLE: MELVISTA AVENUE
SPEED REDUCTION STRATEGY

A3 | DWG NO: ME2-2011-MGA94-01-A

City of Nedlands
 71 STIRLING HIGHWAY
 POSTAL ADDRESS: PO BOX 9 NEDLANDS WA 6009
 PH (08) 9273 3600 FX (08) 9273 3670 TTY (08) 9273 3646
 Email: enquiries@nedlands.wa.gov.au
www.nedlands.wa.gov.au

REV. No.	ISSUED FOR CONSULTATION	REVISION NOTES	DRAWN	CHECKED	DATE	SCALE	DESIGNED	CHECKED/DATE
A			GC	WM	08/07/11	1:1000 COUNCIL MINUTES	GC	08/07/11
							GC	

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Speed monitoring devices

LEGEND:

- PROPOSED TREATMENT
- PROPOSED NEW SIGNS
- WATER CORP WATER MAINS
- WATER CORP DRAINAGE PIPES
- WATER CORP WASTEWATER PIPES
- GAS LINES
- WESTERN POWER LINES

REV. No.	REVISION NOTES	DRAWN	CHECKED	DATE	SCALE	DESIGNED:	CHECKED / DATE:
A	ISSUED FOR CONSULTATION	GC	WM	08/07/11	1:1000	GC	08/07/11
					COUNCIL MINUTES:	DRAWN:	APPROVED / DATE:
						GC	

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City of Nedlands
 71 STIRLING HIGHWAY
 NEDLANDS WA 6009
 POSTAL ADDRESS: NEDLANDS WA 6009
 PH (08) 9273 3500 FAX (08) 9273 3870 TTY (08) 9273 3546
 Email: council@nedlands.wa.gov.au
 www.nedlands.wa.gov.au

TITLE: MELVISTA AVENUE
 SPEED REDUCTION STRATEGY

A.3 DWG NO: ME2-2011-MGA94-02-A

Radar Speed Displays

The average driver today fears speed measurement devices due to the impending fines when caught exceeding the designated speed limit. As opposed to executing laws, Sierzega Elektronik GmbH has introduced **Radar Speed Displays** with a view to educate drivers on the issues of road safety as well as creating awareness.

The main aim of our Speed Displays is to promote attentiveness and at the same time to introduce an element of social pressure on the driver, since the display is sufficiently large enough for everyone in the vicinity to see how fast he/she is driving.

The classic Radar Speed Display is available with different front designs and colours. The models GR32FC and GR42FC additionally enable the speeds driven to be shown in adjustable colours (*factory settings can be changed*):

- ✓ below 51 km/h: **YOUR SPEED 48 (GREEN)**
- ✓ between 51 - 55 km/h: **YOUR SPEED 54 (YELLOW)**
- ✓ above 55 km/h: **YOUR SPEED 62 (RED)**

It is proven that speed-measuring devices with such a large display are contributing towards safer roads since they lead to a reduction in the speeds driven.

At the end of the survey period the data (*speed of entering/leaving the radar detection range with date and time*) is transferred to the PC and a meaningful analysis with colourful diagrams is just a few work steps away.

Classic Speed Displays - GR



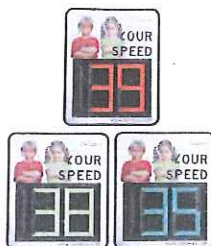
GR32/42

- ✓ Mono-colour LED display
- ✓ Individual front plate design (optional digitally printed)
- ✓ Specially developed analyzing software GRS



GR32/42 S

- ✓ Mono-colour LED display
- ✓ Bluetooth connection
- ✓ Individual front plate design (optional digitally printed)
- ✓ Data Logging for up to 400.000 measurements
- ✓ Specially developed analyzing software GRS



GR32/42 FC

- ✓ Full-colour LED display
- ✓ Adjustable colors for different speeds driven
- ✓ Bluetooth connection
- ✓ Individual front plate design (optional digitally printed)
- ✓ Data Logging for up to 400.000 measurements
- ✓ Specially developed analyzing software GRS

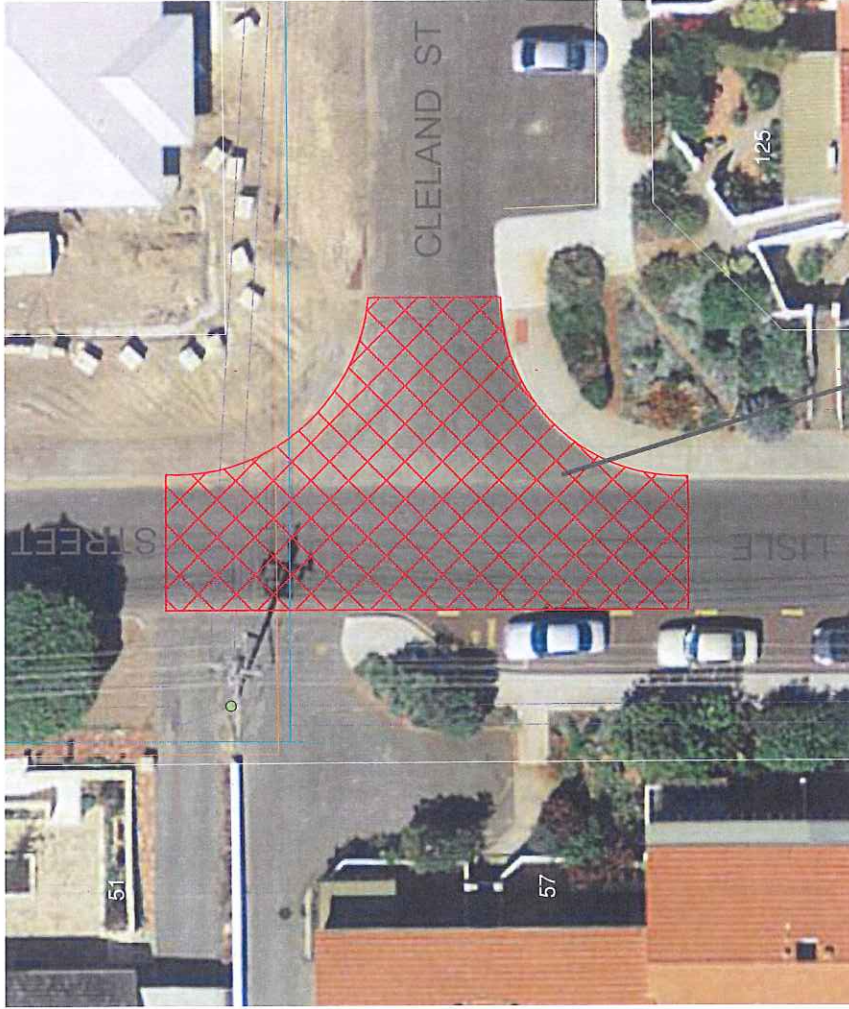


Lisle Street / Cleland Street intersection

T21.11 – Design Plan – Lisle Street



Speed monitoring devices



Red Asphalt entry statement

OVERVIEW
(1:1000 @ A3)

REV. No.	REVISION NOTES	DRAWN	CHECKED	DATE	SCALE	AS SHOWN	DESIGNED	CHECKED / DATE
		WM	WM	31/08/11	AS SHOWN	WM	WM	31/08/11
					COUNCIL MINUTES			APPROVED / DATE:



City of Nedlands
 71 STIRLING HIGHWAY
 NEDLANDS WA 6008
 PH (08) 9273 3500
 Email: council@nedlands.wa.gov.au

TITLE: LISLE ST - LOCAL AREA TRAFFIC MANAGEMENT (LATM)

DWG NO: L11-2011-MGA94-05

A3

Radar Speed Displays

The average driver today fears speed measurement devices due to the impending fines when caught exceeding the designated speed limit. As opposed to executing laws, Sierzega Elektronik GmbH has introduced **Radar Speed Displays** with a view to educate drivers on the issues of road safety as well as creating awareness.

The main aim of our Speed Displays is to promote attentiveness and at the same time to introduce an element of social pressure on the driver, since the display is sufficiently large enough for everyone in the vicinity to see how fast he/she is driving.

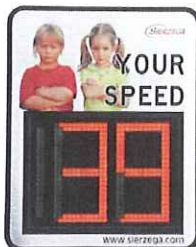
The classic Radar Speed Display is available with different front designs and colours. The models GR32FC and GR42FC additionally enable the speeds driven to be shown in adjustable colours (*factory settings can be changed*):

- ✓ below 51 km/h: **YOUR SPEED 48 (GREEN)**
- ✓ between 51 - 55 km/h: **YOUR SPEED 54 (YELLOW)**
- ✓ above 55 km/h: **YOUR SPEED 62 (RED)**

It is proven that speed-measuring devices with such a large display are contributing towards safer roads since they lead to a reduction in the speeds driven.

At the end of the survey period the data (*speed of entering/leaving the radar detection range with date and time*) is transferred to the PC and a meaningful analysis with colourful diagrams is just a few work steps away.

Classic Speed Displays - GR



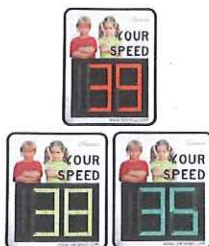
GR32/42

- ✓ Mono-color LED display
- ✓ Individual front plate design (optional digitally printed)
- ✓ Specially developed analyzing software GRS



GR32/42 S

- ✓ Mono-colour LED display
- ✓ Bluetooth connection
- ✓ Individual front plate design (optional digitally printed)
- ✓ Data Logging for up to 400.000 measurements
- ✓ Specially developed analyzing software GRS



GR32/42 FC

- ✓ Full-colour LED display
- ✓ Adjustable colors for different speeds driven
- ✓ Bluetooth connection
- ✓ Individual front plate design (optional digitally printed)
- ✓ Data Logging for up to 400.000 measurements
- ✓ Specially developed analyzing software GRS



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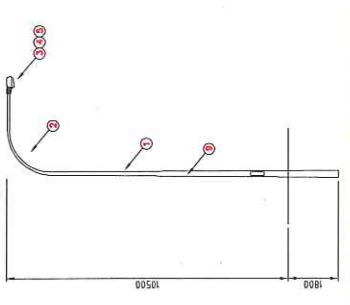
ALL DIMENSIONS ARE IN MILLIMETRES
 DRAWN IN ACCORDANCE WITH AS1500-1992
 BD NOT SCALE
 THIRD ANGLE PROJECTION

0 1000 2000 4000 6000
 Full Size 1:100 - Half Reduction 1:200
 SCALE (mm)

0 2000 4000 8000 12000
 Full Size 1:200 - Half Reduction 1:400
 SCALE (mm)

INSTALL NEW 150W HIGH PRESSURE SODIUM STREETLIGHT ON 10.5m STEEL POLE

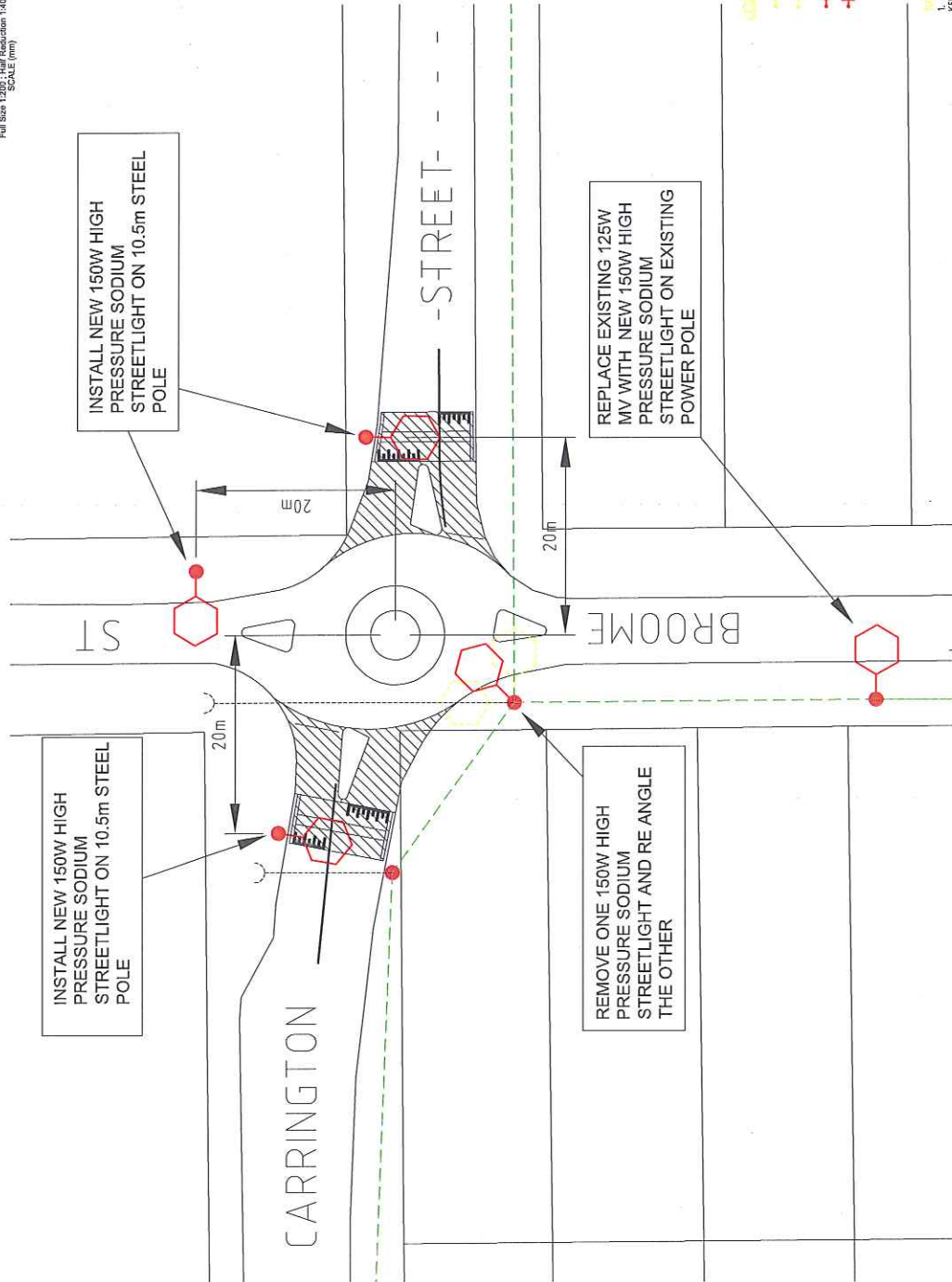
INSTALL NEW 150W HIGH PRESSURE SODIUM STREETLIGHT ON 10.5m STEEL POLE



CALL OUTS TO BE ADDED TO THE LIGHTING PLAN
 (SCALE 1 : 100)

REPLACE EXISTING 125W MV WITH NEW 150W HIGH PRESSURE SODIUM STREETLIGHT ON EXISTING POWER POLE

REMOVE ONE 150W HIGH PRESSURE SODIUM STREETLIGHT AND RE ANGLE THE OTHER



ITEM STOCK NUMBER DESCRIPTION SINGLE DOUBLE

- CH0275 POLE 10.5m TRENCH ARM - GALVANISED 1
- HL6148 LUMINAIRE WITH PE CELL 150W MH 2
- HL5557 PE CELL 1
- CL1883 LAMP 150W MH 1
- HL5557 PE CELL 1
- HZ0128 SV FUSE BOX 10A 2
- EE1316 CABLE 2.5mm TWIN AND EARTH 4
- EE1316 CABLE 2.5mm TWIN AND EARTH 1

LEGEND

- EXISTING WESTERN POWER STREETLIGHT
- 150W HIGH PRESSURE SODIUM STREETLIGHT
- 70W METAL HALIDE STREETLIGHT

NOTES

- LOCATE NEW STEEL LIGHT POLES 3m BACK FROM FRONT OF ROAD.
- LOCATIONS OF EXISTING WESTERN POWER OVERHEAD LINES AND POWER POLES IS INDICATIVE AND NOT SURVEYED.



WARNING
 CONTRACTOR TO CONFIRM THE LOCATION OF ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.

BEWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown.

BEWARE OF OVERHEAD POWER LINES
 Minimum clearances for Streetlight Pole/
 Luminaire to Overhead Power Lines
 Low Voltage - 1m
 High Voltage - 3m
 Extra High Voltage - 6m

WORKING

- SURVEY & PPE LOCATIONS OF STREETLIGHTING EQUIPMENT, NEW STREETLIGHT SUPPLY & INSTALL STREETLIGHTING POLES & LUMINAIRES IN COMPLIANCE WITH AS1500-1992.
- INSTALL CABLES INCLUDING TRENCHING & BACKFILLING UNDER ROAD SURFACE WHERE NECESSARY.
- PROTECT THE WORKS, INCLUDING SIGNAGE, BARRICADES, TEMPORARY WALKWAYS COMPLETE ELECTRICAL WORKS IN COMPLIANCE WITH THE OFFICE OF ENERGY'S GUIDELINES FOR ELECTRICITY TRANSMISSION & DISTRIBUTION WORK IN WESTERN AUSTRALIA.
- COMPLETE ELECTRICAL WORKS IN A SAFE MANNER & SAFETY TO THE PUBLIC IN COMPLIANCE WITH WORKSAFE WESTERN AUSTRALIA.
- PROVIDE TRAFFIC MANAGEMENT STREETLIGHTS, WORKER FLUENT OF COMMISSIONING.
- PROVIDE ELECTRONIC AND HARD COPIES OF "RECORD" DRAWING SHOWING AS-CONSTRUCTED STATUS OF WORKS.
- DISBURSED TO MAINZISER PART 3.2.2.
- LUMINAIRE REQUIRED TO CORRELATE WITH AS/NZS15198.3.1.

T23.11 - Lighting Design Plan - Carrington St / Broome St

REV. NO.	DATE	CHECKED	DATE	SCALE	DESIGNED	APPROVED	DATE
		UC		1:250	S. FAIRHURST	M. SAGE	11/07/11
		MS			DOWN	L. COADY	11/07/11

City of Nedlands
 PO BOX 9 NEDLANDS WA 6909
 PH (08) 9273 3000 FX (08) 9273 3070 TTY (08) 9273 3446
 www.nedlands.wa.gov.au

REVISION NOTES

TITLE: CARRINGTON STREET, NEDLANDS
 BROOME STREET TO DALKEITH ROAD
 LIGHTING DESIGN LAYOUT

DWG NO.: CA4-BD1-2011-01-1MGA94-A

SCALE: A1

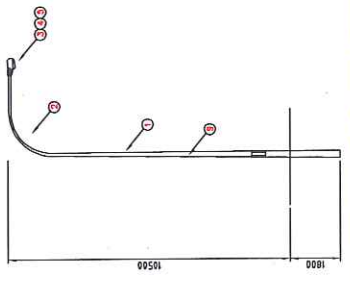
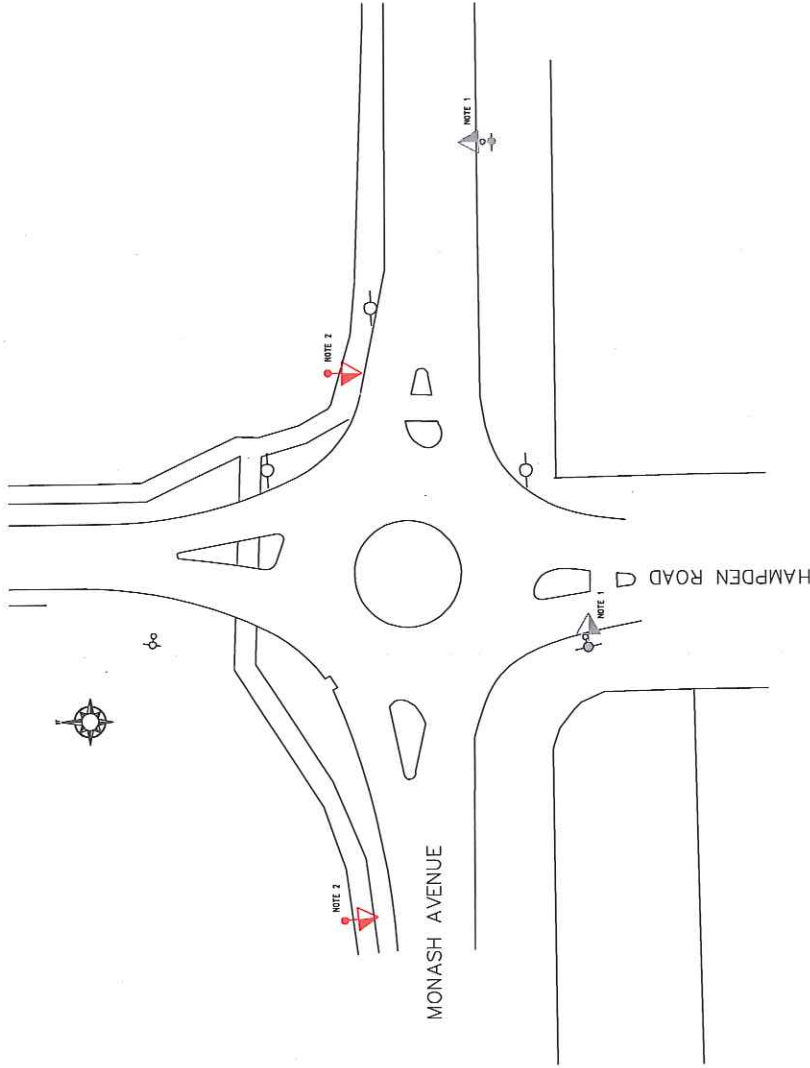
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 ALL DIMENSIONS ARE
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 DRAWN IN ACCORDANCE
 WITH AS1100-1972
 DO NOT SCALE

0 - 2000 4000 8000 12000 20000 40000 60000
 Full Size 1:100 Half Reduction 1:200
 SCALE (mm)

0 - 1000 2000 4000 8000 12000 20000 40000 60000
 Full Size 1:200 Half Reduction 1:400
 SCALE (mm)

THIRD ANGLE PROJECTION



ALL METAL POLES WITH 3m SINGLE OUTREACH
 (SCALE 1 : 100)

BILL OF MATERIALS

ITEM/STOCK NUMBER	DESCRIPTION	SINGLE	DOUBLE
1. CW2275	POLE 10.5m	1	1
2. H18446	OUTREACH ARM - GALVANISED	2	2
3. H18446	LUMINAIRE WITH PE CELL 150W MH	2	2
4. HL5557	PE CELL	1	1
5. GL1883	LAMP 150W MH	1	1
6. H74208	FLUSH MOUNTED FLANGE 10A	1	1
7. H74208	FLUSH BOX	2	2
8. EE1318	CABLE 2.5mm TWIN AND EARTH	1	1

T24.11 – Lighting Design Plan – Monash Ave Hampden Rd



WARNING
 CONTRACTOR TO CHECK THE LOCATION OF ALL
 SERVICES PRIOR TO COMMENCEMENT OF WORKS.

BEWARE OF UNDERGROUND SERVICES
 The locations of underground services are
 shown on this drawing. The contractor should
 check the location of all services before
 commencing work. No guarantee is
 given that all existing services are shown.

BEWARE OF OVERHEAD POWER LINES
 Minimum clearances for Streetlight Pole/
 Power Lines
 Low Voltage – 1m
 High Voltage – 3m
 Extra High Voltage – 6m

- WORKING NOTES**
1. SURVEY & PEG LOCATIONS OF STREETLIGHTING EQUIPMENT, NEW STREETLIGHT OF SHADE, TO BE INSTALLED/SET BACK 500mm FROM FACE OF ROAD OR EDGE OF SHOULDER.
 2. SUPPLY & INSTALL STREETLIGHTING POLES & LUMINAIRES IN COMPLIANCE WITH AS/NZS3538.
 3. AS/NZS3538 INSTALL CABLING INCLUDING TRENCHING & BACKFILLING UNDER ROAD BORE CABLE WHERE POSSIBLE.
 4. PROTECT THE WORKS, INCLUDING SIGAGE, BARRICADES, TEMPORARY WALKWAYS COMPLETE ELECTRICAL WORKS IN COMPLIANCE WITH THE OFFICE OF ENERGY'S GUIDELINES FOR ELECTRICITY TRANSMISSION & DISTRIBUTION WORK IN WESTERN AUSTRALIA.
 5. COMPLETE ELECTRICAL WORKS IN A SAFE MANNER & SAFETY TO THE PUBLIC IN COMPLIANCE WITH WORKSAFE WESTERN AUSTRALIA.
 6. PROVIDE TRAFFIC MANAGEMENT SIGNAGE, STREETLIGHTS, WORKER CLUST OF CONSIGNING, AS-CONSTRUCTED AND HARD COPIES OF 'RECORD' DRAWING SHOWING AS-DESIGNED TO AS/NZS3538 PART 3/2.
 7. LUMINAIRE REQUIRED TO COMPLY WITH AS/NZS3538/3.1.

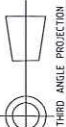
NOTES

1. CHECK EXISTING LIGHT POLES AS OUTREACH, CHANGE TO STIPULATED LUMINAIRE & POLE IF REQUIRED.
2. STIPULATED.

SYMBOL	DESCRIPTION	LUMINAIRE	MANUFACTURER
	NEW STREETLIGHT WESTERN POWER 10.5m STEEL POLE WITH A 3m SINGLE OUTREACH	150W MH ROADSTER	SYLVANIA

REV. No.	A	REVISION NOTES	REVISED FOR MINOR VERB CHANGE	DRAWN	CHECKED	DATE	SCALE	1:250	COUNCIL OFFICERS	S. FAIRHURST M. SAGE	DESIGNERS	S. FAIRHURST L. COADY	CHECKED DATE	M. SAGE
<p>City of Nedlands 71 STERLING HIGHWAY PO BOX 9 NEDLANDS WA 6009 PH (08) 9273 3500 FX (08) 9273 3070 TTY (08) 9273 3546 Email: info@nedlands.wa.gov.au www.nedlands.wa.gov.au</p>														
<p>TITLE: MONASH AVENUE/HAMPDEN ROAD INTERSECTION NEDLANDS LIGHTING DESIGN LAYOUT</p>														
<p>DWG NO: MOB-HP1-2011-011-MGA94-A</p>														

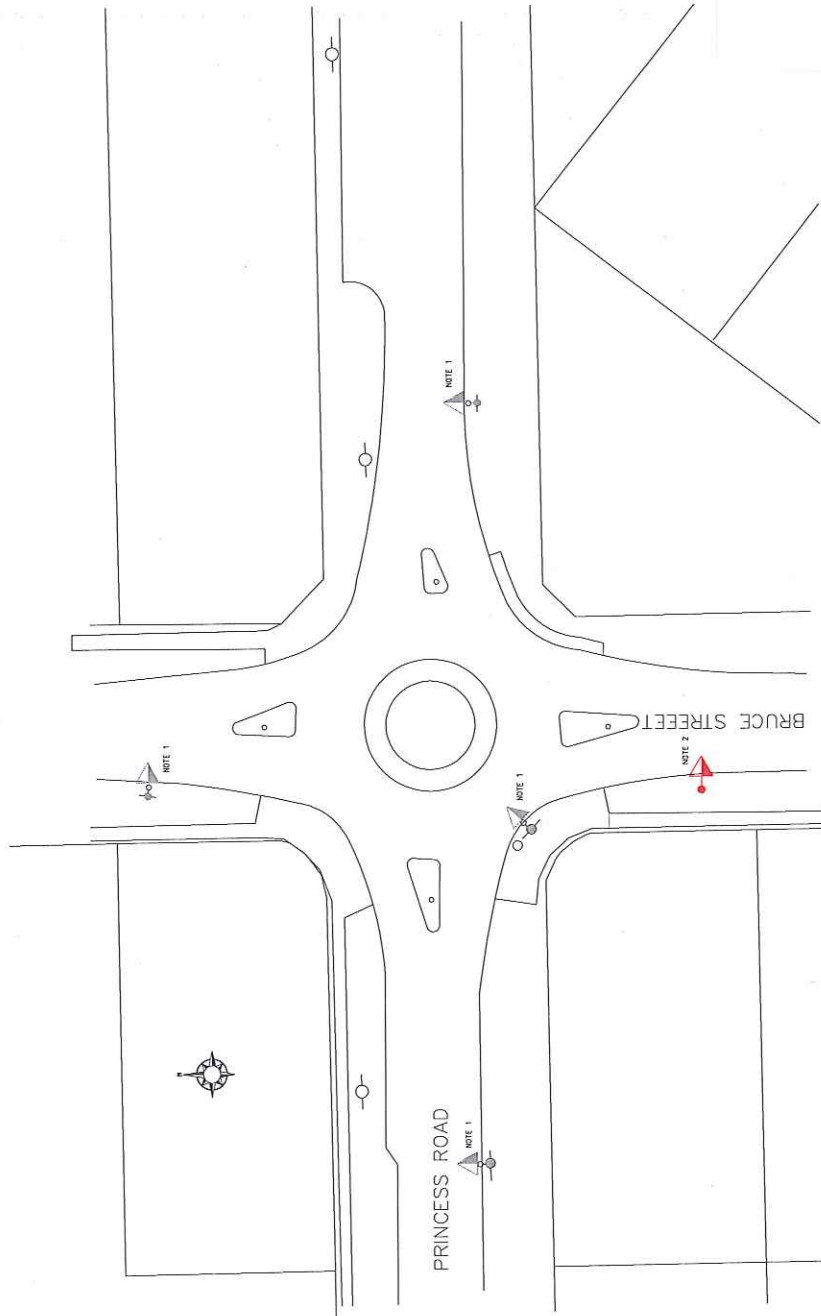
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IN MILLIMETRES
DRAWN IN ACCORDANCE
WITH AS190-1992
DO NOT SCALE




THIRD ANGLE PROJECTION

0 - 1000 2000 4000 6000
Full Size 1:100, Half Reduction 1:200
SCALE (mm)

0 - 2000 4000 8000 12000 15000
Full Size 1:200, Half Reduction 1:400
SCALE (mm)



SYMBOL	DESCRIPTION	LUMINAIRE	MANUFACTURER
	NEW STREETLIGHT WESTERN POWER STYLE ON 10.5M POLE WITH A 3M SINGLE OUTREACH	H-50W MH ROADSTER	SILVANA

- EXCHANGE EXISTING LUMINAIRE & POLE TO STIPULATED POLE & LUMINAIRE.
- NEW LUMINAIRE & POLE AS STIPULATED.



WARNING
CONTRACTOR TO CONFIRM THE LOCATION OF ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and no warranty is given that all existing services are shown.

BEWARE OF OVERHEAD POWER LINES

Minimum clearances for Streetlight Pole/
Luminaire to Overhead Power Lines
High Voltage - 3m
Extra High Voltage - 6m

REMARKS

- SURVEY & PEG LOCATIONS OF STREETLIGHTING EQUIPMENT, NEW STREETLIGHT POLES SHALL BE INSTALLED/SET BACK 750mm FROM FACE OF KERB OR EDGE OF SHOULDER.
- INSTALL STREETLIGHTING POLES & LUMINAIRE IN COMPLIANCE WITH AS/NZS198.
- SUPPLY & INSTALL CABLING INCLUDING TRENCHING & BACKFILLING UNDER ROAD TO PROTECT THE WORKS, INCLUDING SIGNAGE, BARRICADES, TEMPORARY WALKWAYS etc.
- COMPLETE ELECTRICAL WORKS IN COMPLIANCE WITH THE CODE OF PRACTISE FOR ELECTRICAL WORKS IN WESTERN AUSTRALIA.
- COMPLETE ELECTRICAL WORKS IN A SAFE MANNER & SAFETY TO THE PUBLIC AND THE WORKERS IN COMPLIANCE WITH WESTERN AUSTRALIA.
- PROVIDE TRAFFIC MANAGEMENT.
- INSPECT, TEST & COMMISSION STREETLIGHTS. INFORM CLIENT OF COMMISSIONING.
- PROVIDE DETAILED STATUS OF WORKS.
- DESIGNED TO AS/NZS198 PART 3.2.6.
- LUMINAIRE REQUIRED TO COMPLY WITH AS/NZS2198.3.1.

ITEM/STOCK NUMBER	DESCRIPTION	SINGLE	DOUBLE
1.	CNO275 POLE 10.5m	1	1
2.	CNO278 SINGLE OUTREACH ARM - GALVANISED	1	1
3.	HL6148 LUMINAIRE WITH PE CELL 150W MH	2	2
4.	HL6149 LUMINAIRE WITH PE CELL 150W MH	2	2
5.	OS957 LAMP 150W MH	1	1
6.	OF1300 FUSE CARTRIDGE 10A	1	1
7.	H20128 S. FUSE BOX	2	4
8.	EE1316 CABLE 2.5mm TWIN AND EARTH	2	4

SCALE 1 : 100

T25.11 - Lighting Design Plan - Princess Rd / Bruce St

REV. No. A
REVISION NOTES
REVISE FOR MINOR KEBB CHANGE

CHECKED DATE
MS 11/07/11
LC 11/07/11

DRAWN CHECKED DATE
MS 11/07/11
LC 11/07/11

SCALE
1:250

DATE
29/11

COUNCIL MINUTES

REVISION NOTES

REVISION DATE

REVISION BY

REVISION NO.

REVISION

REVISION

REVISION

REVISION

REVISION

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REVISION

REVISION

REVISION

REVISION

REVISION

TITLE: BRUCE STREET/PRINCESS ROAD INTERSECTION NEDLANDS
LIGHTING DESIGN LAYOUT

City of Nedlands
77 NEDLANDS WA 6009
PO BOX 9 NEDLANDS WA 6009
Tel: (08) 9273 3546
Email: council@nedlands.wa.gov.au
www.nedlands.wa.gov.au



PREPARED BY
S. FAIRHURST 11/07/11
DRAWN BY
L. COADY 11/07/11

SCALE
1:250

DATE
29/11

COUNCIL MINUTES

REVISION NOTES

REVISION DATE

REVISION BY

REVISION NO.

REVISION

REVISION

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REVISION

DWG NO: BR8-PR1-2011-01-MGA94-A

A1

Notes:

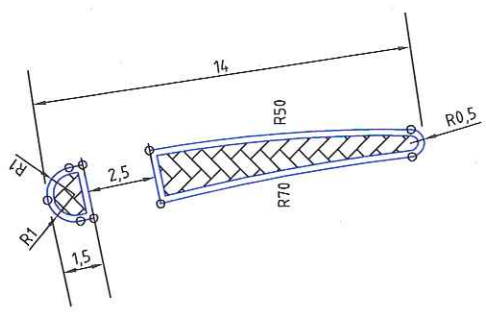
1. Ensure Traffic Management during construction conforms to Worksafe Standards.
2. Being safe for workers, pedestrians, and road users at all times.
3. All excavations shall be supported and shored to prevent collapse. Excavation shall be shown. Locate all services before excavation. Provide adequate support.
4. Protection for exposed services. Existing services are not shown.
5. Refer to City of Nedlands specifications and drawings for kerbs, crosswalks, pedestrian ramps, ramps, and drainage.
6. All work shall be done to the satisfaction of the Council Engineer.
7. The fit of new kerbs to existing surfaces.
8. All kerbs shall be installed to the satisfaction of the Council Engineer.
9. Non-conforming cross-over ribs to be replaced to City of Nedlands Specification.
10. Replicate surface areas of pavement with new base consisting of 50mm clean porous material. Fit shall be placed in uniform layers not exceeding 200mm in thickness. The surface shall be a density not less than that of the surrounding undisturbed surface.
11. All fit shall be clean non-plastic material free from vegetation and other deleterious material. Fit shall be placed in uniform layers not exceeding 200mm in thickness. The surface shall be a density not less than that of the surrounding undisturbed surface.
12. Reproduce pavement with 25mm black Stone Mastic Asphalt after crack catching.
13. Restore verges, retentions and crosswalks to their original condition.
14. Where shown about 50mm of road pavement. Place 50mm of 2 to 4% w/c. General grade asphalt. Seal with 25mm of Black Stone Mastic Asphalt.

FAST LINES	FOR KERBING	NON FINISH
1	65516.56	65524.09
2	65517.85	65524.74
3	65519.14	65525.39
4	65520.43	65526.04
5	65521.72	65526.69
6	65523.01	65527.34
7	65524.30	65527.99
8	65525.59	65528.64
9	65526.88	65529.29
10	65528.17	65529.94
11	65529.46	65530.59
12	65530.75	65531.24
13	65532.04	65531.89
14	65533.33	65532.54
15	65534.62	65533.19
16	65535.91	65533.84
17	65537.20	65534.49
18	65538.49	65535.14
19	65539.78	65535.79
20	65541.07	65536.44
21	65542.36	65537.09
22	65543.65	65537.74
23	65544.94	65538.39
24	65546.23	65539.04
25	65547.52	65539.69
26	65548.81	65540.34
27	65550.10	65540.99
28	65551.39	65541.64
29	65552.68	65542.29
30	65553.97	65542.94
31	65555.26	65543.59
32	65556.55	65544.24
33	65557.84	65544.89
34	65559.13	65545.54
35	65560.42	65546.19
36	65561.71	65546.84
37	65563.00	65547.49
38	65564.29	65548.14
39	65565.58	65548.79
40	65566.87	65549.44
41	65568.16	65550.09
42	65569.45	65550.74
43	65570.74	65551.39
44	65572.03	65552.04
45	65573.32	65552.69
46	65574.61	65553.34
47	65575.90	65553.99
48	65577.19	65554.64
49	65578.48	65555.29
50	65579.77	65555.94

Legend:

- Proposed new kerbing (SM1 LIND)
- Existing kerbing to be retained
- 25mm SMA
- Proposing
- Full Depth Reconstruction - See Notes
- Proposed SDP's and sealworks
- SIK - Dimpled Semi Mountable Kerb
- FK - Dimpled Flush Kerb
- Finished Pavement level to match top of existing
- Pavement level
- Proposed level
- P - Proposed level not available proposed levels to be determined on site.

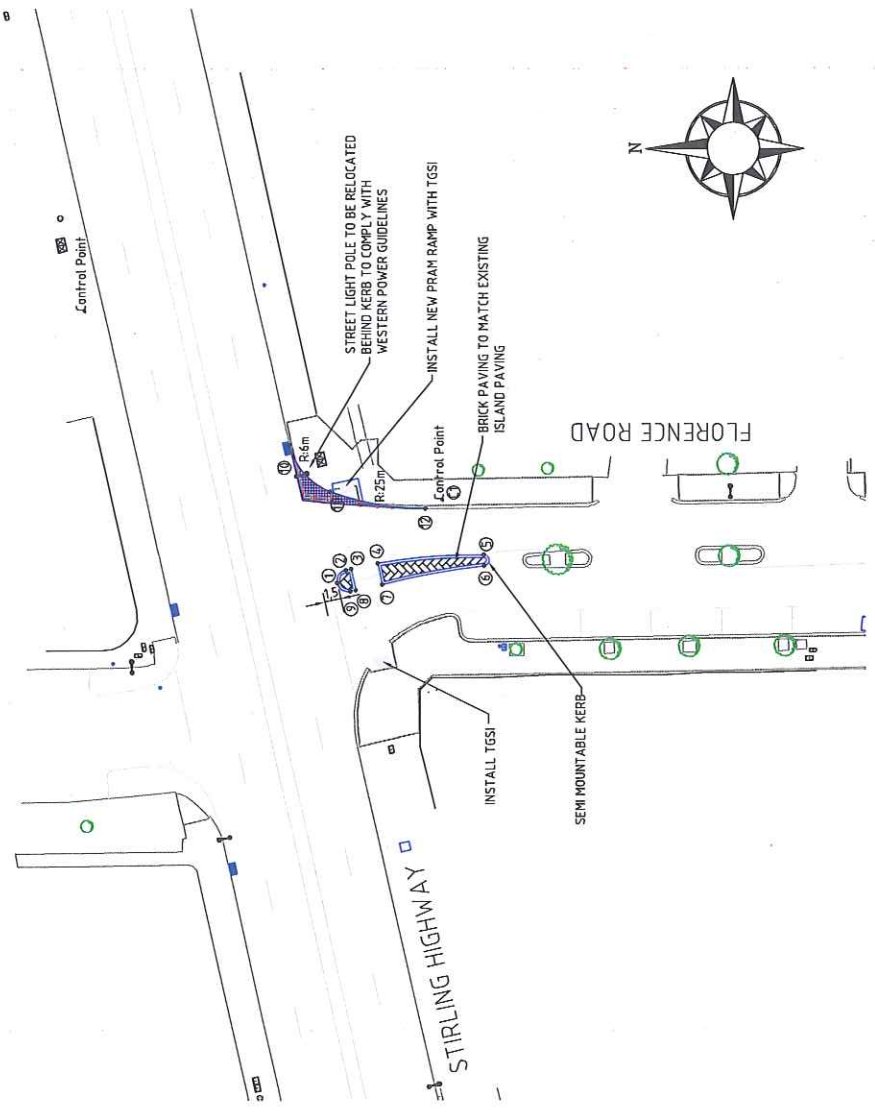
T26.11 – Design Plan – Stirling Hwy / Florence Rd



RISED MEDIAN DETAIL

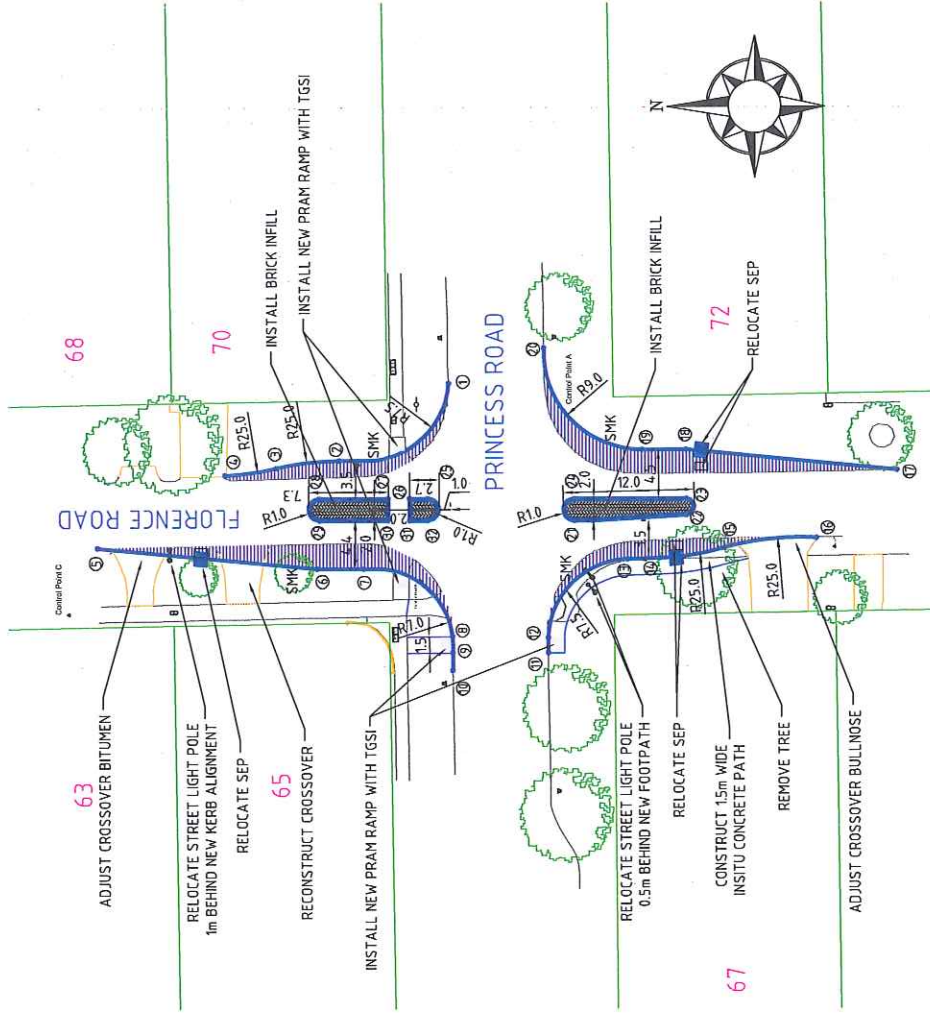
LEGEND

- Proposed new kerbing (SM1 LIND)
- Existing kerbing to be retained
- 25mm SMA
- Proposing
- Full Depth Reconstruction - See Notes
- Proposed SDP's and sealworks
- SIK - Dimpled Semi Mountable Kerb
- FK - Dimpled Flush Kerb
- Finished Pavement level to match top of existing
- Pavement level
- Proposed level
- P - Proposed level not available proposed levels to be determined on site.



Notes:

1. Ensure Traffic Management during construction conforms to VicRoads Standards.
2. Keep safe for workers, pedestrians, and road users at all times.
3. Services are shown in their approximate location. Domestic services are not shown.
4. Ensure the Damage System is operational before any work.
5. Existing works should not be disturbed beyond the extent of work.
6. The in of new surface to finish flush with existing surface.
7. The in of new surface to finish flush with existing surface.
8. Non-pavement areas to be replaced to City of Nedlands Specification.
9. Non-pavement areas of pavement with new base consisting of 300mm crushed limestone.
10. Replace 200mm areas of pavement with new base consisting of 300mm crushed limestone.
11. Reconstruct pavement with 200mm Black Stone Mastic Asphalt after crack patching.
12. Reconstruct pavement with 200mm Black Stone Mastic Asphalt after crack patching.
13. Reconstruct pavement with 200mm Black Stone Mastic Asphalt after crack patching.
14. Where shown without 50mm of road pavement. Place 50mm of 2 to 4% voids class graded asphalt. Seal with 25mm of Black Stone Mastic Asphalt.



Legend:

- Proposed new kerbing (SM UNO)
- Existing kerbing to be retained
- 25mm SMA
- Gravel
- Full Depth Reconstruction - See Notes
- Proposed SEPs are available
- Proposed SMI Available Kerb
- SMK
- Demolish Flush Kerb
- FK
- Finished Pavement level to match top of existing Pavement level.
- Survey information not available proposed levels to be determined on site.

T26.11 Design Plan – Princess Rd / Florence Rd

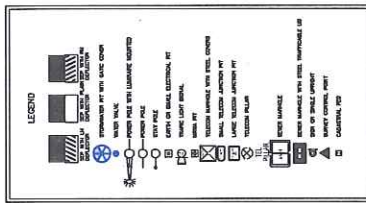
REV No.	ISSUE FOR APPROVAL & CONSTRUCTION	DATE	CHECKED	SCALE	DESIGNED	DRAWN	CHECKED DATE
A	ISSUE FOR APPROVAL & CONSTRUCTION	1:250	SHAWMAC	SHAWMAC	SHAWMAC	SHAWMAC	R.G. 11/07/11
							APPROVED DATE
							Y.K. 11/07/11

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 Email: council@nedlands.wa.gov.au

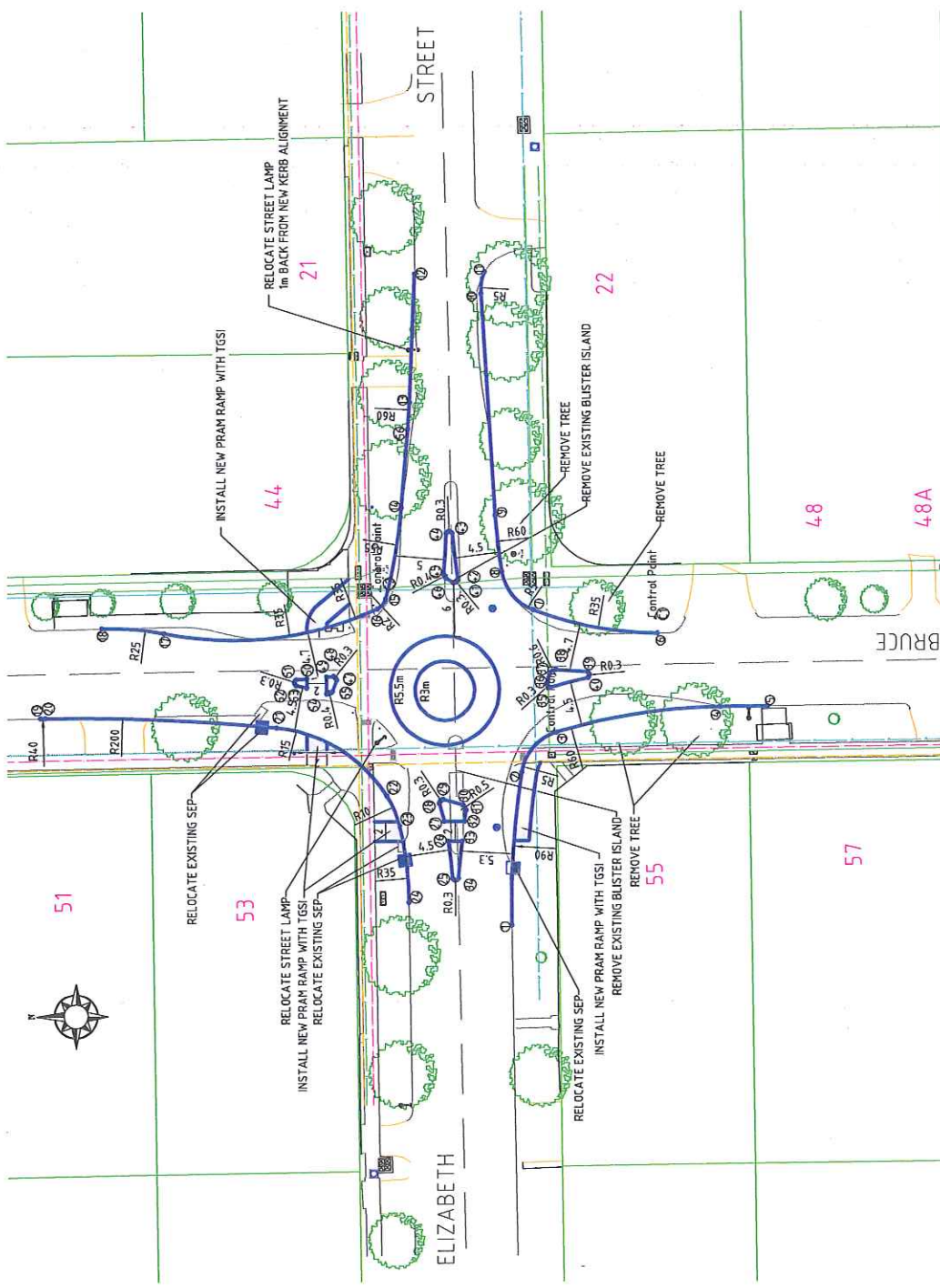
REV	DESCRIPTION	DATE	BY
A	ISSUE FOR APPROVAL & CONSTRUCTION	11/07/11	R.G.
B	ISSUE FOR APPROVAL & CONSTRUCTION	11/07/11	Y.K.

LINE NO.	DESCRIPTION	DATE	BY
1	INSTALL NEW PRAM RAMP WITH TGS	11/07/11	R.G.
2	RELOCATE STREET LIGHT POLE 1m BEHIND NEW KERB ALIGNMENT	11/07/11	R.G.
3	RELOCATE SEP	11/07/11	R.G.
4	RECONSTRUCT CROSSOVER	11/07/11	R.G.
5	ADJUST CROSSOVER BITUMEN	11/07/11	R.G.
6	INSTALL BRICK INFILL	11/07/11	R.G.
7	RELOCATE SEP	11/07/11	R.G.
8	RELOCATE SEP	11/07/11	R.G.
9	RELOCATE SEP	11/07/11	R.G.
10	RELOCATE SEP	11/07/11	R.G.
11	RELOCATE SEP	11/07/11	R.G.
12	RELOCATE SEP	11/07/11	R.G.
13	RELOCATE SEP	11/07/11	R.G.
14	RELOCATE SEP	11/07/11	R.G.
15	RELOCATE SEP	11/07/11	R.G.
16	RELOCATE SEP	11/07/11	R.G.
17	RELOCATE SEP	11/07/11	R.G.
18	RELOCATE SEP	11/07/11	R.G.
19	RELOCATE SEP	11/07/11	R.G.
20	RELOCATE SEP	11/07/11	R.G.
21	RELOCATE SEP	11/07/11	R.G.
22	RELOCATE SEP	11/07/11	R.G.
23	RELOCATE SEP	11/07/11	R.G.
24	RELOCATE SEP	11/07/11	R.G.
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26	RELOCATE SEP	11/07/11	R.G.
27	RELOCATE SEP	11/07/11	R.G.
28	RELOCATE SEP	11/07/11	R.G.
29	RELOCATE SEP	11/07/11	R.G.
30	RELOCATE SEP	11/07/11	R.G.
31	RELOCATE SEP	11/07/11	R.G.
32	RELOCATE SEP	11/07/11	R.G.



T27.11 – Roundabout Design Plan – Elizabeth / Bruce St

NO.	DESCRIPTION	DATE	BY	CHKD BY	APP'D BY
1	REVISED FOR COMMENTS	08/07/2011			
2	REVISED FOR COMMENTS	08/07/2011			
3	REVISED FOR COMMENTS	08/07/2011			
4	REVISED FOR COMMENTS	08/07/2011			
5	REVISED FOR COMMENTS	08/07/2011			
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69	REVISED FOR COMMENTS	08/07/2011			
70	REVISED FOR COMMENTS	08/07/2011			



- Notes:**
1. Ensure Traffic Management during construction is in accordance with Worksafe Standards.
 2. Keep site safe for workers, pedestrians, and road users at all times.
 3. Services are shown in their approximate location. Domestic services are not shown.
 4. Services are shown in their approximate location. Domestic services are not shown.
 5. Ensure the Drainage System is operational before any fill.
 6. Existing structures, services and drawings for lighting, crossovers, pedestrian crossings, and drainage.
 7. Existing works shall not be disturbed beyond the extent of work.
 8. Kerbing shall be seen mountable unless shown otherwise.
 9. Non-mountable kerbs shall be shown as such.
 10. Kerbing shall be seen mountable unless shown otherwise.
 11. All fill shall be taken from plastic material free from vegetation and other contaminants.
 12. Roundabout shall be 500mm thick concrete with 20mm black Stone Maestri Asphalt after crush screening, thickness and compacted to a Density not less than that of the surrounding pavement.
 13. Roundabout shall be 500mm thick concrete with 20mm black Stone Maestri Asphalt after crush screening, thickness and compacted to a Density not less than that of the surrounding pavement.
 14. Where shown 'minimum 50mm of road pavement. Place 50mm of 2 to 4% voids drainage granular material. Seal with 25mm of black Stone Maestri Asphalt.

LEGEND

[Symbol]	PROPOSED NEW KERBING (SMA UNO)
[Symbol]	EXISTING KERBING TO BE MAINTAINED
[Symbol]	250mm SMA
[Symbol]	300mm SMA
[Symbol]	150mm SMA
[Symbol]	Full Depth Reconstruction - See Notes
[Symbol]	Proposed SEPs and soakways
[Symbol]	Demolish Semi Mountable Kerb
[Symbol]	Demolish Flush Kerb
[Symbol]	Finish Road Pavement level to match top of existing
[Symbol]	Pavement level
[Symbol]	P* Survey information not available proposed levels to be determined on site.

Legend:

[Symbol]	PROPOSED NEW KERBING (SMA UNO)
[Symbol]	EXISTING KERBING TO BE MAINTAINED
[Symbol]	250mm SMA
[Symbol]	300mm SMA
[Symbol]	150mm SMA
[Symbol]	Full Depth Reconstruction - See Notes
[Symbol]	Proposed SEPs and soakways
[Symbol]	Demolish Semi Mountable Kerb
[Symbol]	Demolish Flush Kerb
[Symbol]	Finish Road Pavement level to match top of existing
[Symbol]	Pavement level
[Symbol]	P* Survey information not available proposed levels to be determined on site.

REV. No.	ISSUE FOR APPROVAL & CONSTRUCTION	REVISION	NOTES
A			

DESIGNED	CHECKED	DATE	SCALE	COUNCIL MINUTES
SHAWMAC	SHAWMAC		1:250	
SHAW	SHAWMAC			

ENGNOED DATE	APPROVED DATE
R.G. 27/07/11	Y.K. 21/06/11

C.O. P. 1.1.2.17
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NEDLANDS HIGHWAY
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Email: council@nedlands.wa.gov.au

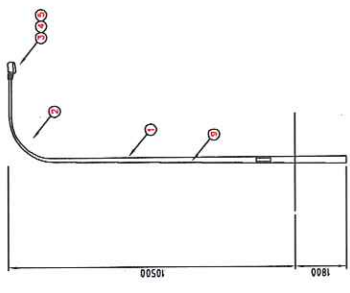
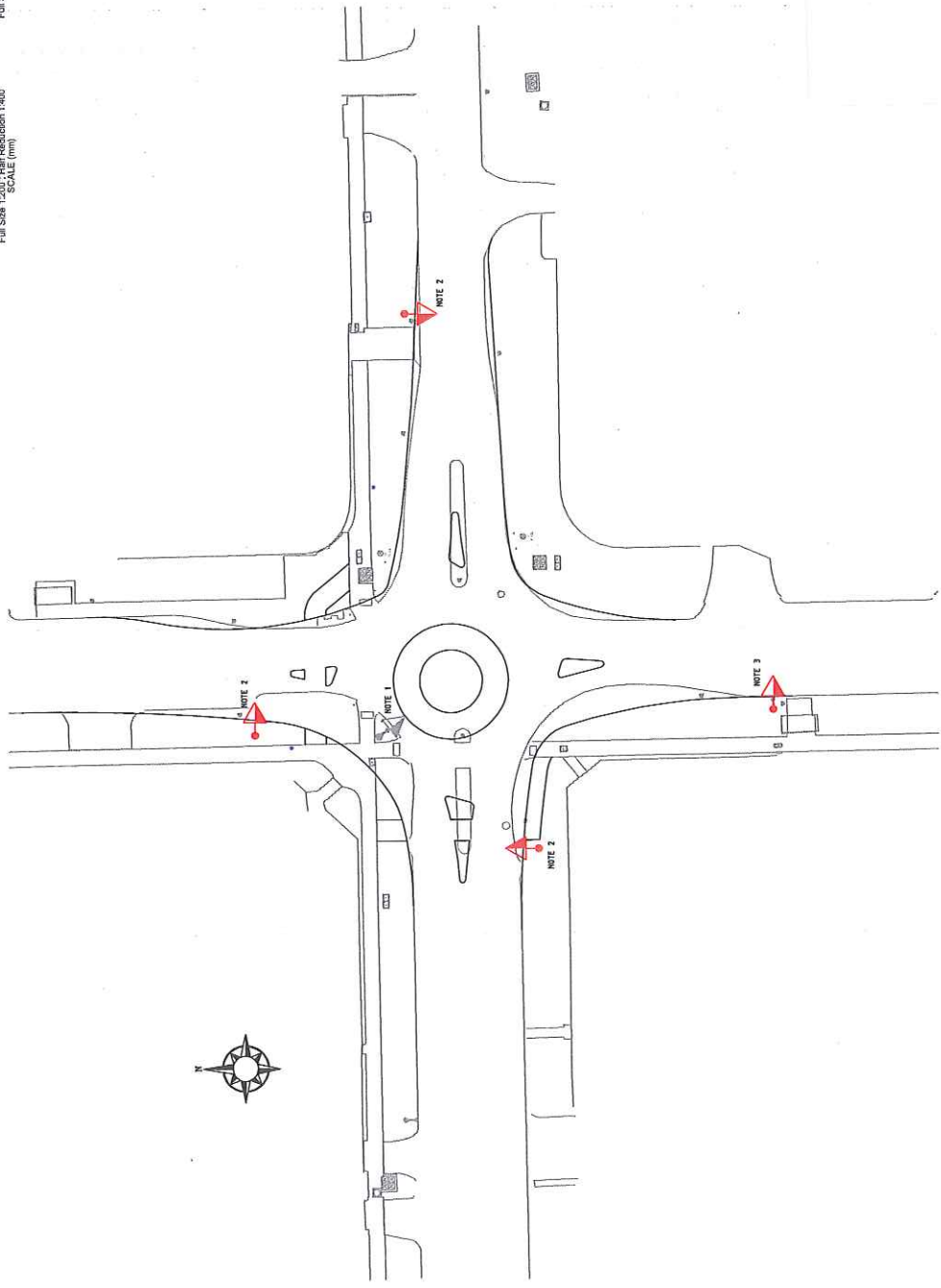
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 IN MILLIMETRES
 DRAWN IN ACCORDANCE WITH AS1100-1992
 DD NOT SCALE
 THIRD ANGLE PROJECTION

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 Full Size 1:100 - Half Reduction 1:200
 SCALE (mm)

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 SCALE (mm)

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 Full Size 1:100 - Half Reduction 1:200
 SCALE (mm)

0 2000 4000 8000 12000
 Full Size 1:100 - Half Reduction 1:200
 SCALE (mm)



SCALE 1 : 100

BILL OF MATERIALS

ITEM/STOCK NUMBER	DESCRIPTION	SINGLE	DOUBLE
CW0278	POLE 10.5m	1	1
CW0278	SINGLE OUTREACH ARM - GALVANISED	1	2
HL6148	LUMINAIRE WITH PE CELL 150W MH	1	2
HL6557	PE CELL	1	2
HL6558	PE CELL	1	2
GF1300	FUSE CARTRIDGE 10A	1	1
HZ0128	SL FUSE BOX	2	4
EE1318	CABLE 2.5mm TWIN AND EARTH	2	4

BILL OF MATERIALS

SYMBOL	DESCRIPTION	LUMINAIRE	MANUFACTURER
	NEW STREETLIGHT STYLE ON 10.5m STEEL POLE WITH 3m SINGLE OUTREACH	150W MH ROADSTER	SYLVANIA

- REVISION NOTES**
- REMOVE EXISTING LUMINAIRE & POLE
 - NEW LUMINAIRE & POLE AS STIPULATED
 - TO STIPULATED EXISTING LUMINAIRE & POLE.



WARNING
 CONTRACTOR TO CONFIRM THE LOCATION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

BEWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown.

BEWARE OF OVERHEAD POWER LINES
 Minimum clearances for Streetlight Pole/
 Luminaire to Overhead Power Lines
 Low Voltage - 1m
 High Voltage - 3m
 Extra High Voltage - 6m

T27.11 - Lighting Design Plan - Elizabeth / Bruce St

REV No: A
 REVISION NOTES

DATE	CHECKED	DATE	SCALE	DESIGNED	DRAWN
			1:250	S. FAIRHURST	L. COADY

CHECKED DATE: M. SAGE
 APPROVED DATE:

CITY OF NEDLANDS
 71 STIRLING HIGHWAY
 NEDLANDS WA 6109
 PH (08) 9273 3546
 Email: council@nedlandswa.gov.au

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TITLE: BRUCE STREET/ELIZABETH STREET INTERSECTION NEDLANDS LIGHTING DESIGN LAYOUT
 DWG NO: BR9-EL1-2011-03-MGA94-A