

Traffic Modelling

Level of service road performance criteria - Findings are attributed to the Jacobs report

Level of Service	Volume to Capacity Ratio	Comments	Model - 2017 Results						
			Road Link - AM Peak Level of Service						
			Year	Tiger Brennan Drive - McMinn Street to Dinah Beach	Stuart Highway - McMinn Street to Duke Street	Bennett Street - McMinn Street to Cavenagh Street	Daly Street - McMinn Street to Cavenagh Street	McMinn Street - Stuart Highway to Tiger Brennan Drive	Knuckey Street - McMinn Street to Cavenagh Street
A/B	≤ 0.44	Stable, free flow conditions where drivers are able to select desired speeds and to easily manoeuvre within the traffic stream.	2017 - Inbound	A	C	D	D	D	C
C	0.45 - 0.64	Stable flow, but where most drivers are restricted to some extent in their ability to select their desired speed and to manoeuvre within the traffic stream.	2017 - Outbound	A	A	A	A	A	C
D	0.65 - 0.84	Close to the limit of stable flow. All drivers are restricted in their ability to select their desired speed and to manoeuvre within the traffic stream. Small increases in traffic flow may cause operational problems.	2027 - Inbound	A	A	C	D	C	A
E	0.85 - 1.04	Traffic volumes are close to capacity, and there is virtually no freedom to select desired speeds. Flow is unstable and minor disturbances within the traffic stream will cause breakdown, leading to long queuing and delays.	2027 - Outbound	A	A	A	A	A	A
F	≥ 1.25	In the zone of forced flow, where the amount of traffic approaching the point under consideration exceeds that which can pass. Flow breakdown occurs, and extensive queuing and delays result.	Road Link - PM Peak Level of Service						
			Year	Tiger Brennan Drive - McMinn Street to Dinah Beach	Stuart Highway - McMinn Street to Duke Street	Bennett Street - McMinn Street to Cavenagh Street	Daly Street - McMinn Street to Cavenagh Street	McMinn Street - Stuart Highway to Tiger Brennan Drive	Knuckey Street - McMinn Street to Cavenagh Street
			2017 - Inbound	A	A	C	C	C	A
			2017 - Outbound	A	C	D	D	D	A
			2027 - Inbound	A	A	A	C	A	A
			2027 - Outbound	A	A	A	D	C	A

Please see next page for transport models

Darwin Transport Model

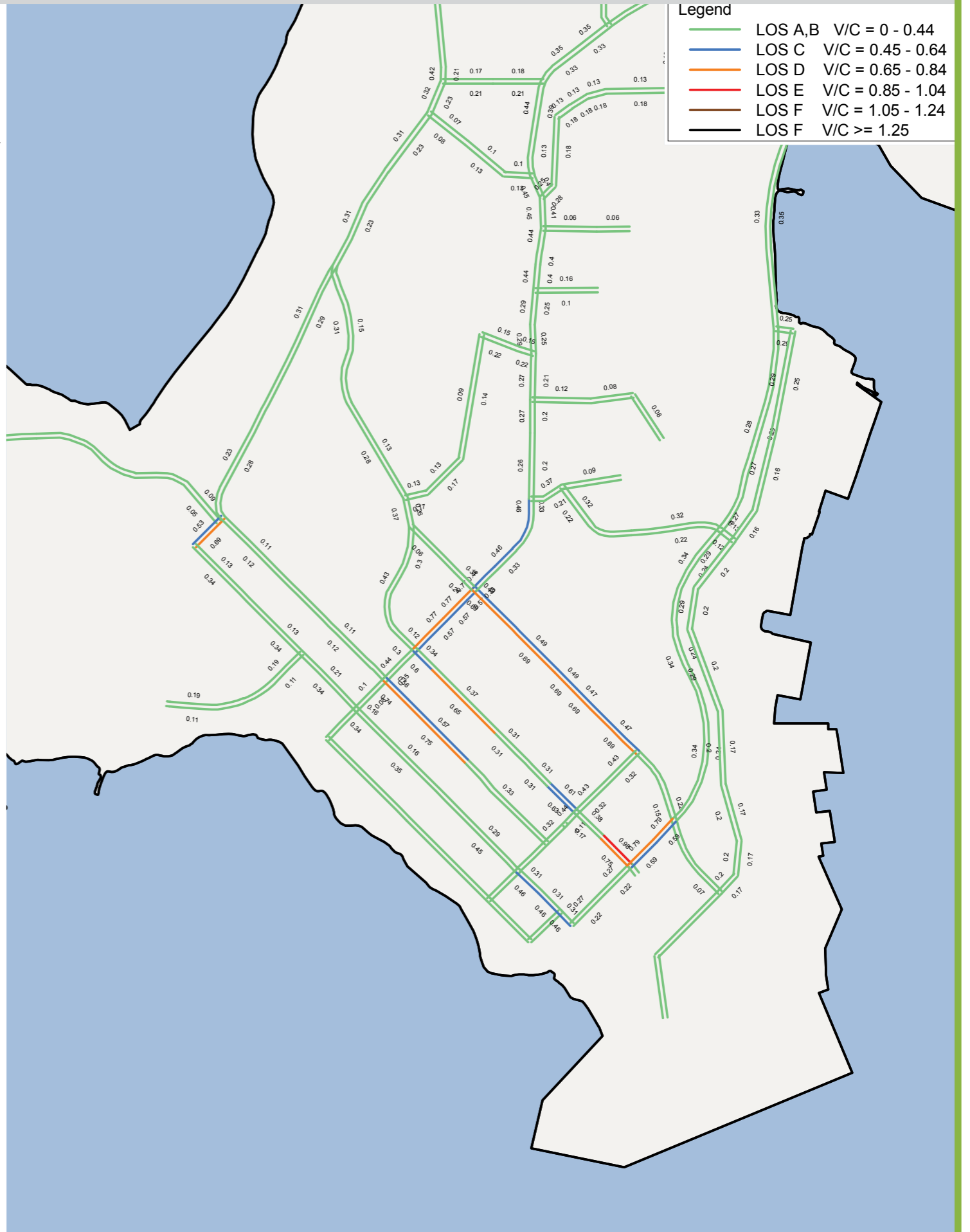
Legend	
Green line	LOS A,B V/C = 0 - 0.44
Blue line	LOS C V/C = 0.45 - 0.64
Orange line	LOS D V/C = 0.65 - 0.84
Red line	LOS E V/C = 0.85 - 1.04
Brown line	LOS F V/C = 1.05 - 1.24
Black line	LOS F V/C >= 1.25



2017 Land Use Scenario
Demand Driven Network Revised
AM Peak VC
9/10/2015 6:21 PM

Darwin Transport Model

Legend	
Green line	LOS A,B V/C = 0 - 0.44
Blue line	LOS C V/C = 0.45 - 0.64
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2017 Land Use Scenario
Demand Driven Network Revised
PM Peak VC
9/10/2015 6:25 PM