

TRANSPORT AND TRAFFIC PLANNING ASSOCIATES

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20 March 2018 Ref: 71/2018

Mr David Duffy Director Akalan Projects Pty Ltd

E: dduffy@akalan.com.au

Dear Mr Duffy

St George Specialist Centre Proposed Pedestrian Bridge

I respond to your request to provide an assessment in relation to the proposal to construct a pedestrian bridge over South Street to link between the existing St George Private Hospital and the proposed Specialist Centre development.

There is a pedestrian refuge island in South Street at the entrance to St George Private Hospital which currently provides for pedestrian crossing movements to/from the hospital, the railway station/bus interchange, town centre and the hospital parking facilities located just to the north of South Street.

The pedestrian refuge island and the surrounding road circumstances are shown on the aerial images provided in Appendix A including the proximity of the island to the Princes Highway intersection and the queuing of cars across the pedestrian crossing point. The difficulty that pedestrians experience crossing at this location has been the subject of consideration by Council and RMS in the past. However RMS would not agree to the provision of a marked footcrossing due to the proximity to the Princes Highway intersection and the multiple traffic lanes (i.e. marked footcrossings can only be approved where there is just one traffic lane in each direction) and the queuing circumstances.

The results of traffic surveys at the location are provided in Appendix B (albeit undertaken some years ago) showing:

- Peak pedestrian crossing movements of up to 159 pph

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Traffic Engineering | Traffic Signal Design | Road Safety Audit

- Peak vehicle movements of:

AM	PM
523	465

- Constant queue lengths extending across the pedestrian crossing area

Pedestrian crossing movements have increased since the time of these surveys due to:

- The increase in activities at the hospital
- The increased provision for hospital parking in the new multi-level carpark on Hogben Street

The proposed new Specialist Centre on the northern side of South Street will act to further increase the pedestrian crossing movements due to the significant "interaction" between the hospital and the specialist centre. The heightened circumstances in relation to pedestrian safety and convenience include:

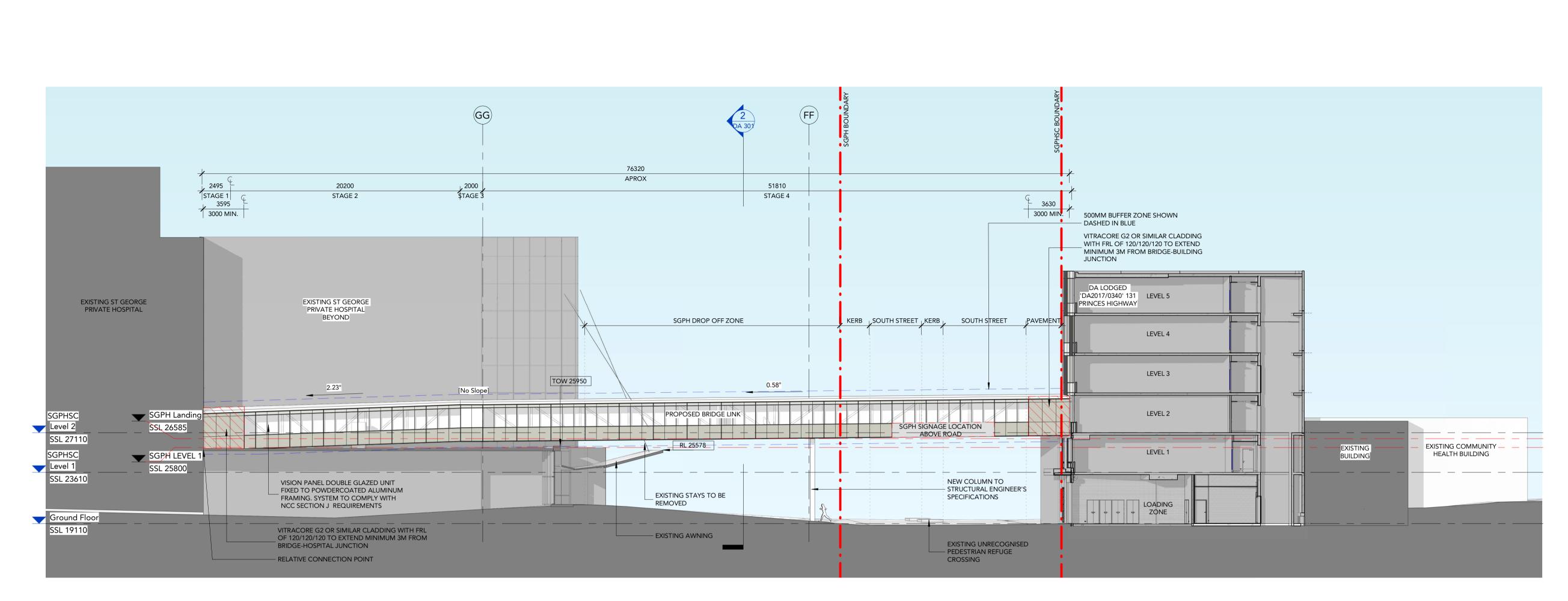
- The intended (necessary) use of the existing hospital 'set-down/pick-up' facility for dual use by the Specialist Centre (i.e. heightening the number of crossings). There is a NO STOPPING restriction on the South Street site frontage for the Specialist Centre site which will present set-down/pick-up activities
- It will not be realistic or safe for wheel chairs or incapacitated trolley patients to cross the roadway
- The increased volume of pedestrian movements related to staff, patients and visitors

There is no available "alternative treatment" to improve the at-grade pedestrian crossing circumstances particularly as RMS will not agree to the provision of a traffic signal-controlled pedestrian crossing (the RMS Design Guidelines specify a minimum separation between traffic signals of 130m).

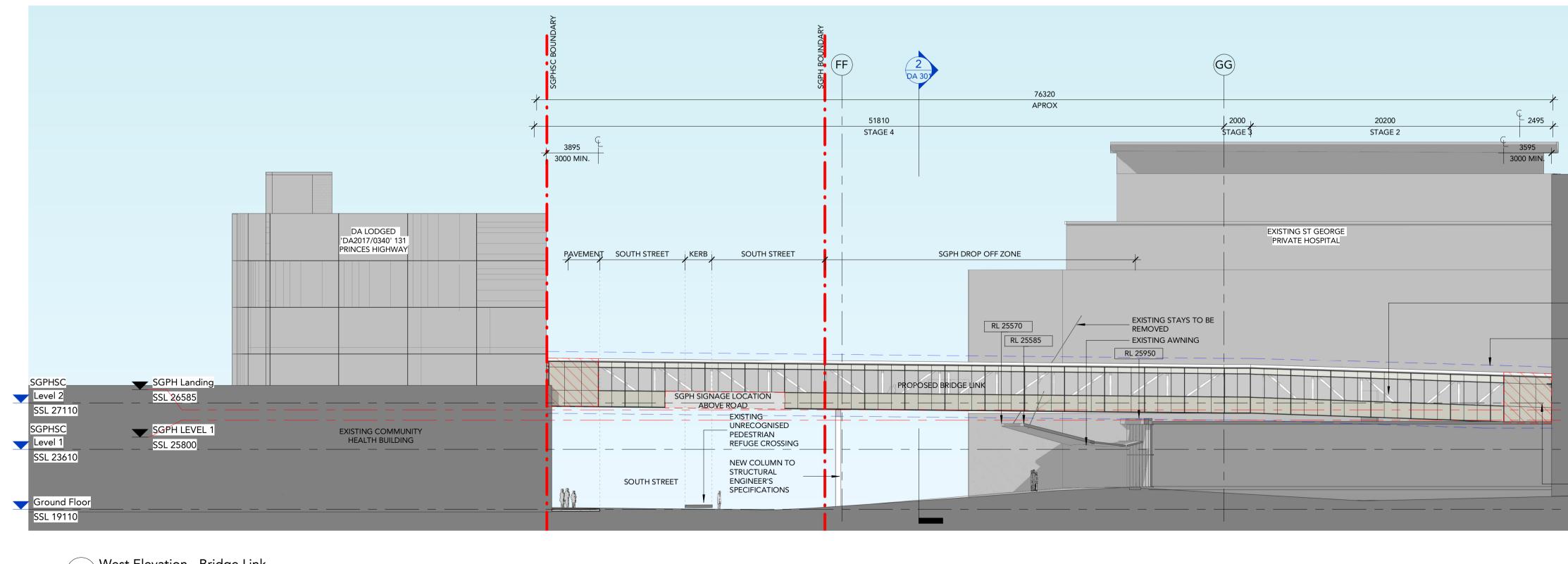
It is quite apparent that the provision of the proposed pedestrian bridge provides the only realistic and practical solution to the pedestrian crossing problem.

Yours faithfully

Ross Nettle Director Transport and Traffic Planning Associates



1 East Elevation - Bridge Link Scale: 1 : 200



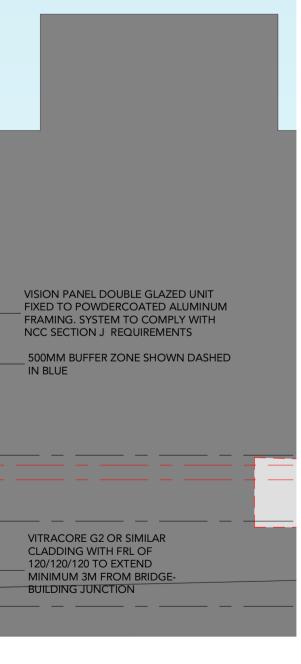
2 West Elevation - Bridge Link Scale: 1 : 200

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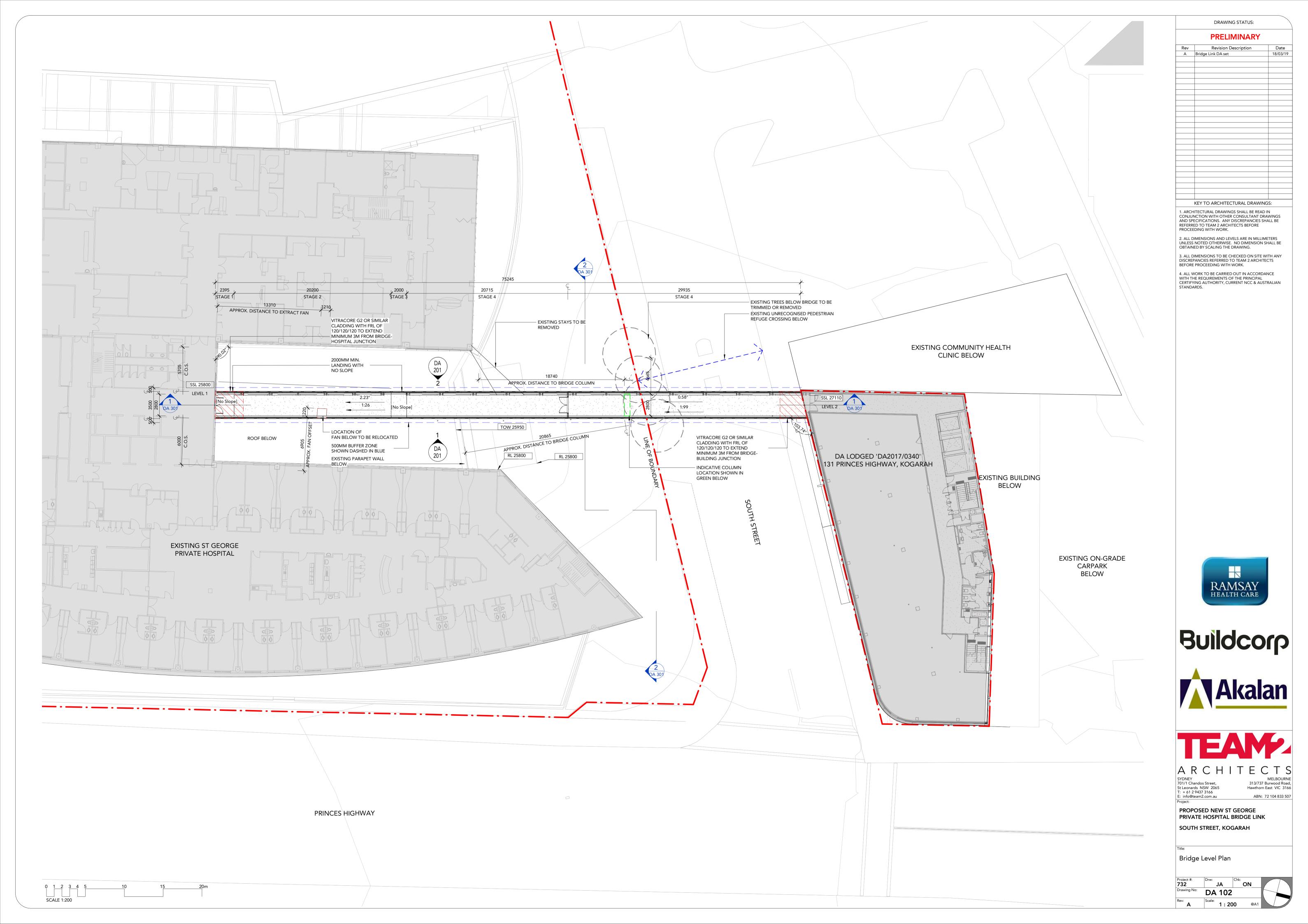
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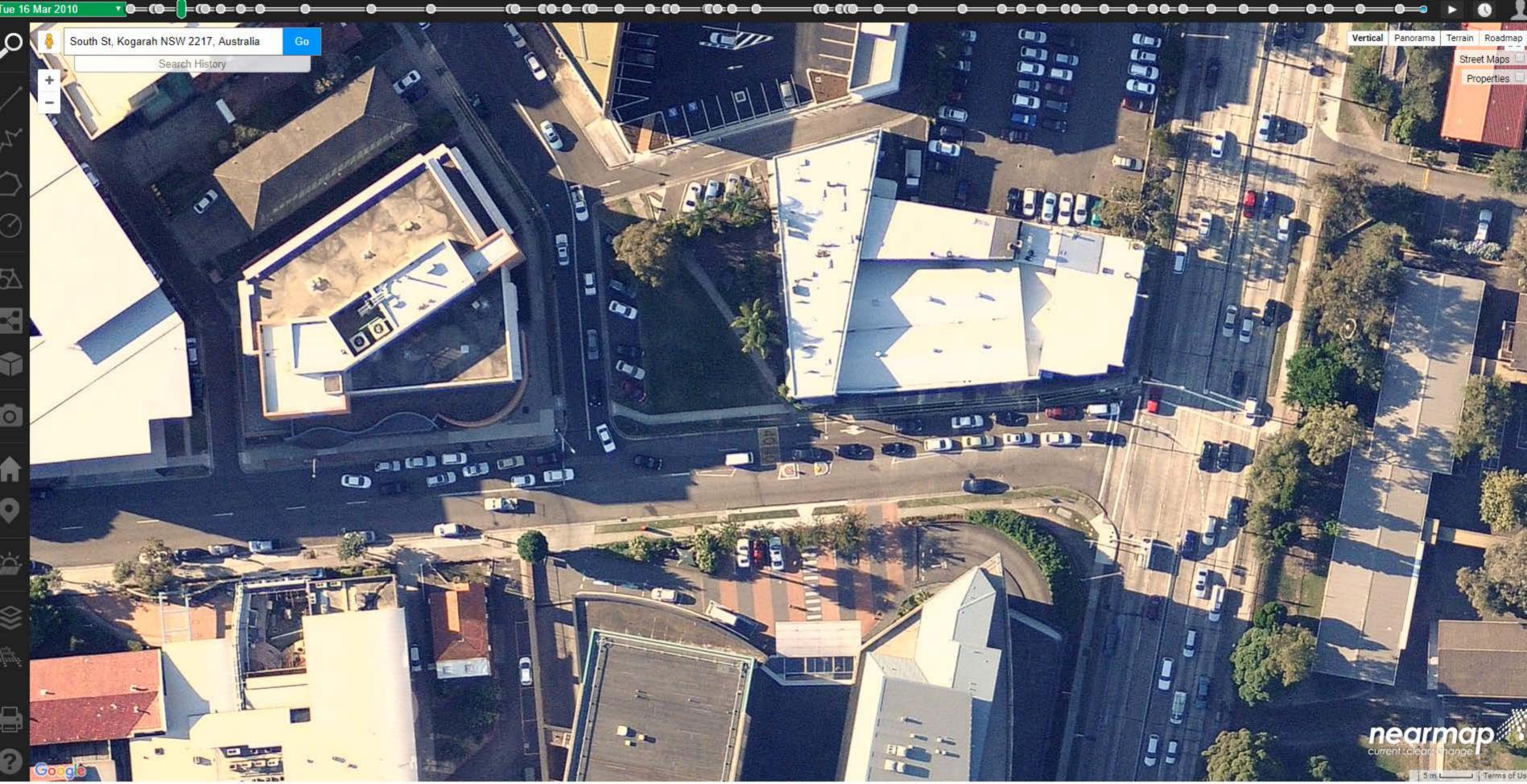


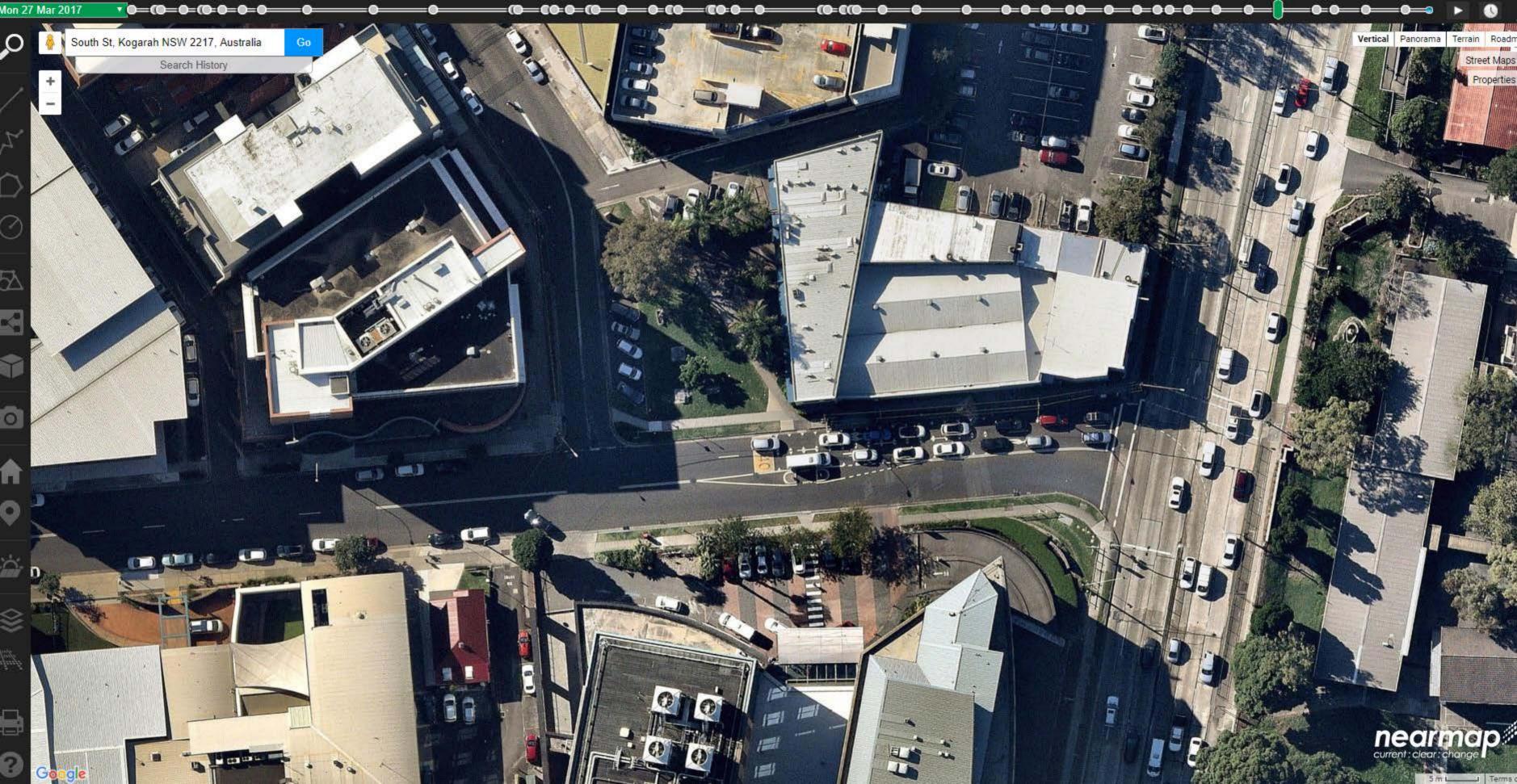
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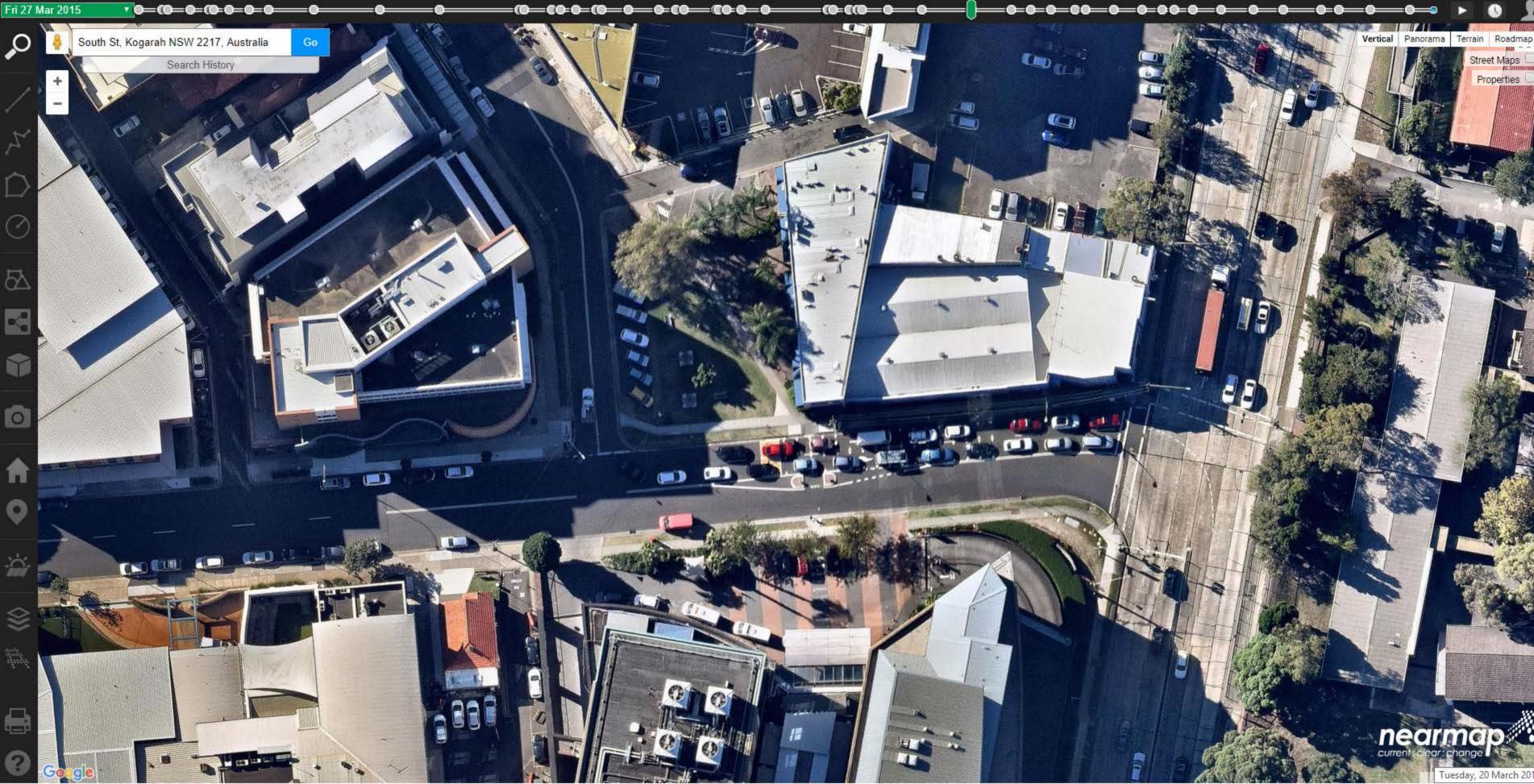


Transport and Traffic Planning Associates

APPENDIX A AERIAL IMAGES







Transport and Traffic Planning Associates

APPENDIX B TRAFFIC SURVEYS



R.O.A.R. DATA

Reliable, Original & Authentic Results Ph.88196847, Fax 88196849, Mob.0418-239019

Client
Job No/Name
Dav/Date

: T.T.P.A : 2123 KOGARAH South St : Thursday 31st January 2008

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	South St	
Time Per	Crossing	TOTAL
0630 - 0645	4	4
0645 - 0700	13	13
0700 - 0715	11	11
0715 - 0730	8	8
0730 - 0745	19	19
0745 - 0800	17	17
0800 - 0815	21	21
0815 - 0830	29	29
0830 - 0845	28	28
0845 - 0900	31	31
Period End	181	181

	South St	
Peak Per	Crossing	TOTAL
0630 - 0730	36	36
0645 - 0745	51	51
0700 - 0800	55	55
0715 - 0815	65	65
0730 - 0830	86	86
0745 - 0845	95	95
0800-0900	109	109

PEAK HR	109	109
		1 .00

	South St	
Time Per	Crossing	TOTAL
1500 - 1515	50	50
1515 - 1530	32	32
1530 - 1545	40	40
1545 - 1600	43	43
1600 - 1615	37	37
1615 - 1630	39	39
1630 - 1645	36	36
1645 - 1700	30	30
1700 - 1715	33	33
1715 - 1730	34	34
1730 - 1745	33	33
1745 - 1800	24	24
Period End	431	431

	South St	
Peak Per	Crossing	TOTAL
Sung Comp	165	165
1515 - 1615	152	152
1530 - 1630	159	159
1545 - 1645	155	155
1600 - 1700	142	142
1615 - 1715	138	138
1630 - 1730	133	133
1645 - 1745	130	130
1700 - 1800	124	124
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PEAK HR	165	165



R.O.A.R. DATA

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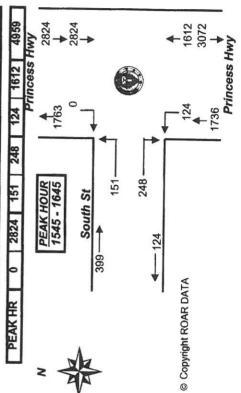
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0645 - 0745	0	890	94	11	96	3373	4530
0700 - 0800	0	930	118	96	86	3261	4491
0715 - 0815	0	1009	139	112	06	3184	4534
0730 - 0830	0	1089	145	142	91	3059	4526
0745 - 0845	0	1167	136	160	114	2974	4551
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1600 - 1700	0	2808	152	257	119	1599	4935
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1630 - 1730	0	2524	152	288	102	1644	4710
1645 - 1745	0	2517	157	272	108	1662	4716
1700 - 1800	0	2540	157	288	94	1650	4729



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Client : T.T.P.A Job No/Name : 2123 KOGARAH South St Day/Date : Thursday 31st January 2008 X not all vehicles getting through

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Client : T.T.P.A Job No/Name : 2123 KOGARAH South St Day/Date : Thursday 31st January 2008 X not all vehicles getting through

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