



TRANSPORT AND TRAFFIC PLANNING ASSOCIATES

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20 March 2018
Ref: 71/2018

Mr David Duffy
Director
Akanan 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

..... / cont'

- 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

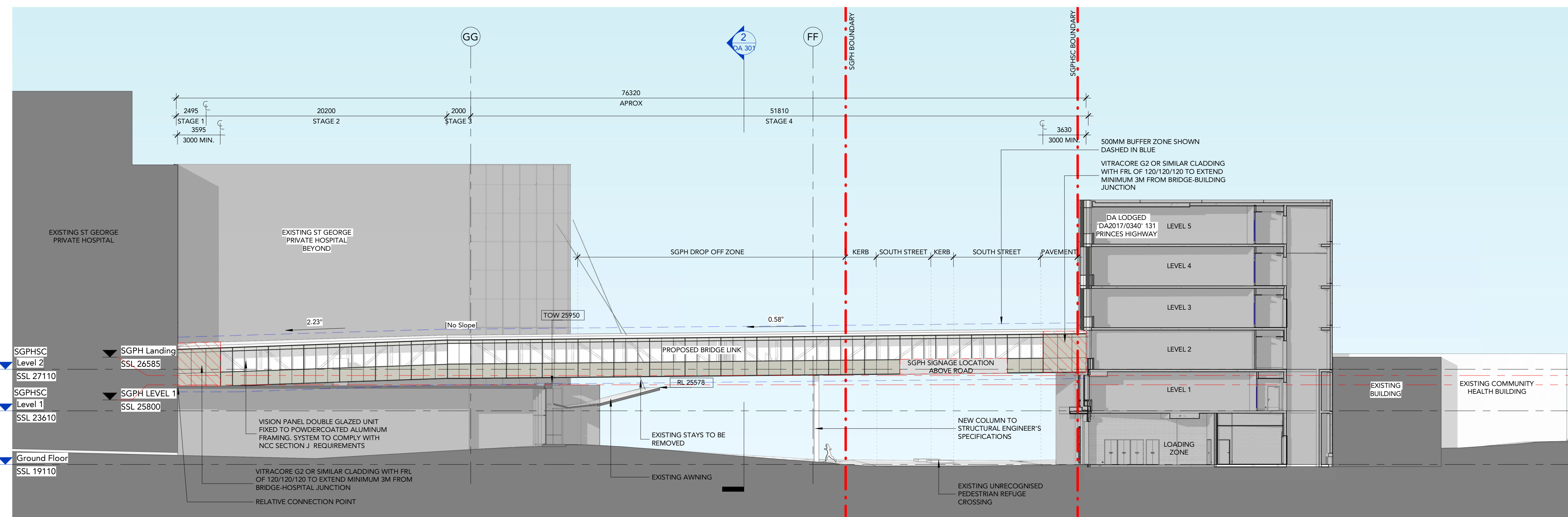
Rev	Revision Description	Date
A	Bridge Link DA set	18/03/19

KEY TO ARCHITECTURAL DRAWINGS:

1. ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANT DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE REFERRED TO TEAM 2 ARCHITECTS BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS AND LEVELS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWING.
3. ALL DIMENSIONS TO BE CHECKED ON SITE WITH ANY DISCREPANCIES REFERRED TO TEAM 2 ARCHITECTS BEFORE PROCEEDING WITH WORK.
4. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRINCIPAL CERTIFYING AUTHORITY, CURRENT NCC & AUSTRALIAN STANDARDS.

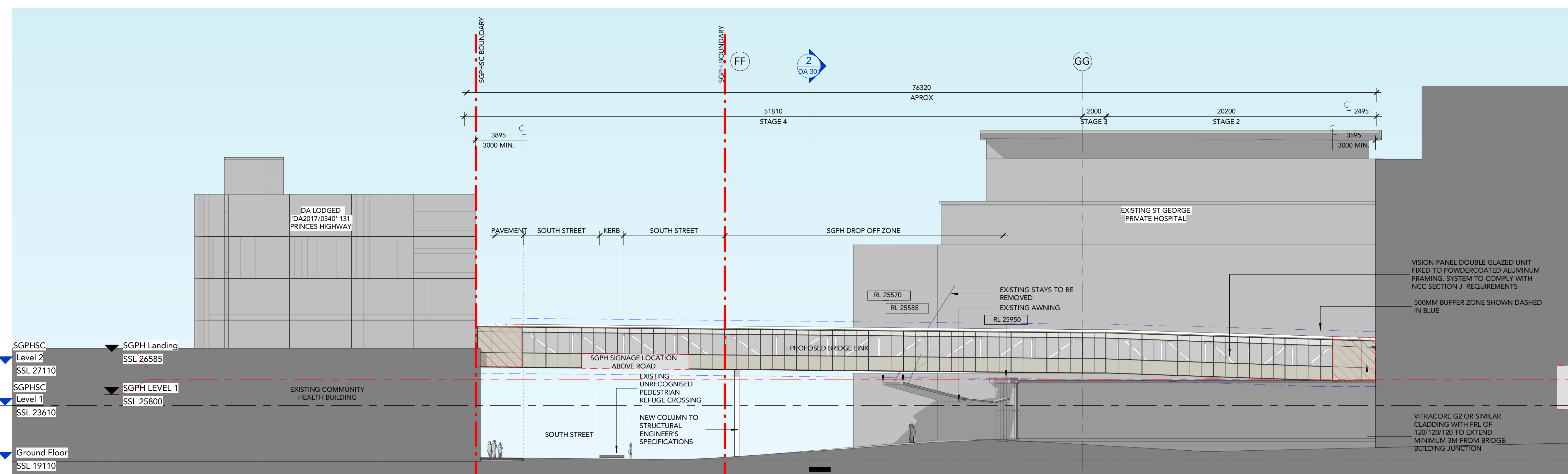
ABBREVIATION LEGEND

SGPH	ST GEORGE PRIVATE HOSPITAL
SGPHSC	ST GEORGE PRIVATE HOSPITAL SPECIALIST CENTRE
NTS	NOT TO SCALE
COS	CHECK ON SITE
MIN.	MINIMUM



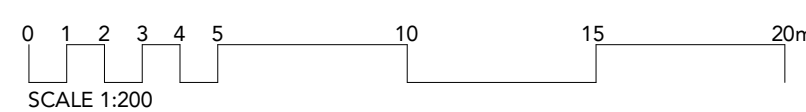
1 East Elevation - Bridge Link

Scale: 1 : 200



2 West Elevation - Bridge Link

Scale: 1 : 200



Buildcorp

Akalan

TEAM

ARCHITECTS

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Project:

PROPOSED NEW ST GEORGE PRIVATE HOSPITAL BRIDGE LINK
SOUTH STREET, KOGARAH

Title:

Proposed Elevations

Project #:	732	Drw:	ON	Chk:	ZA
Drawing No:	DA 201				
Rev:	A	Scale:	1 : 200		@A1

APPENDIX A
AERIAL IMAGES

South St, Kogarah NSW 2217, Australia

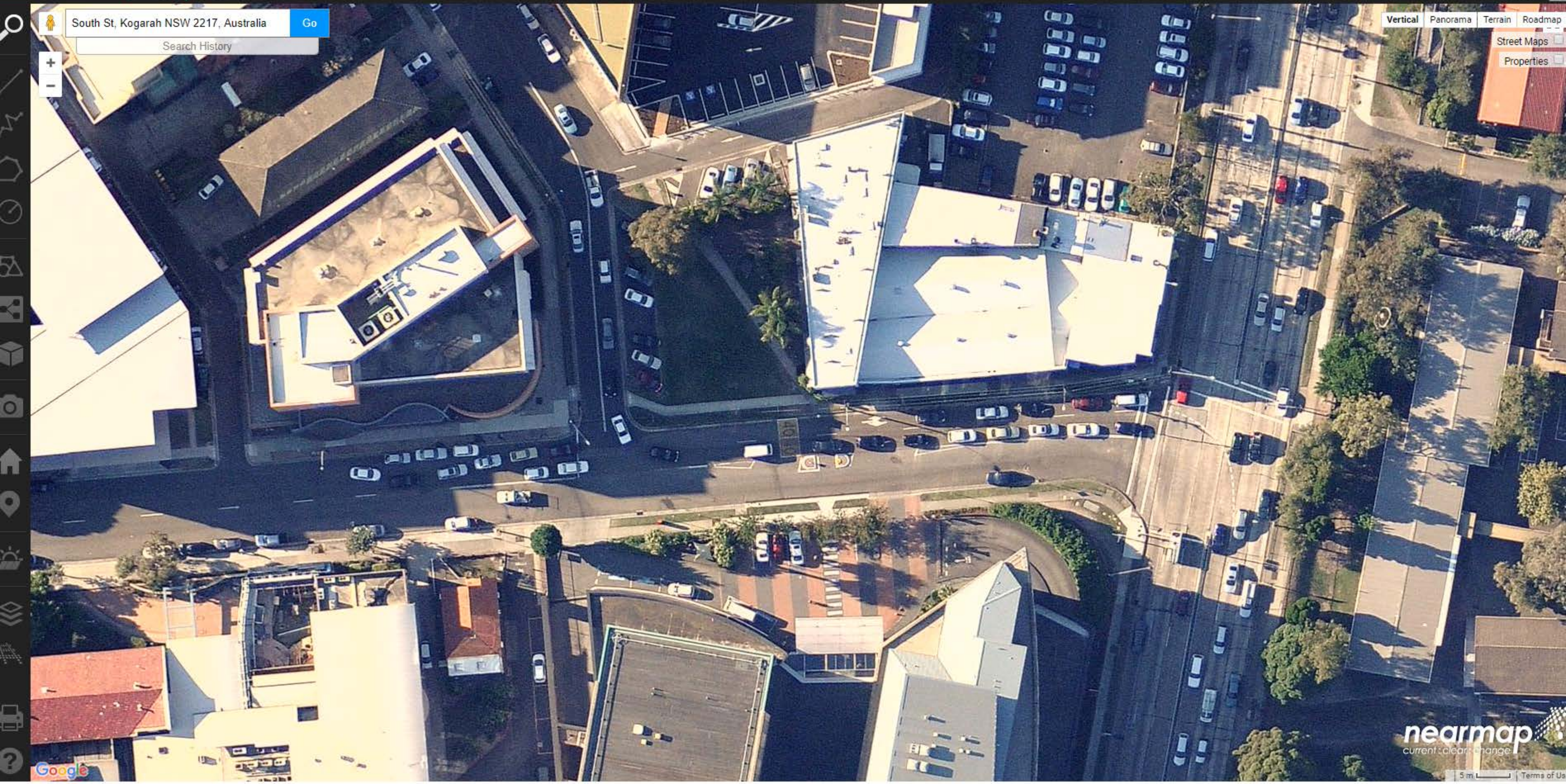
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Search History

Vertical Panorama Terrain Roadmap

Street Maps

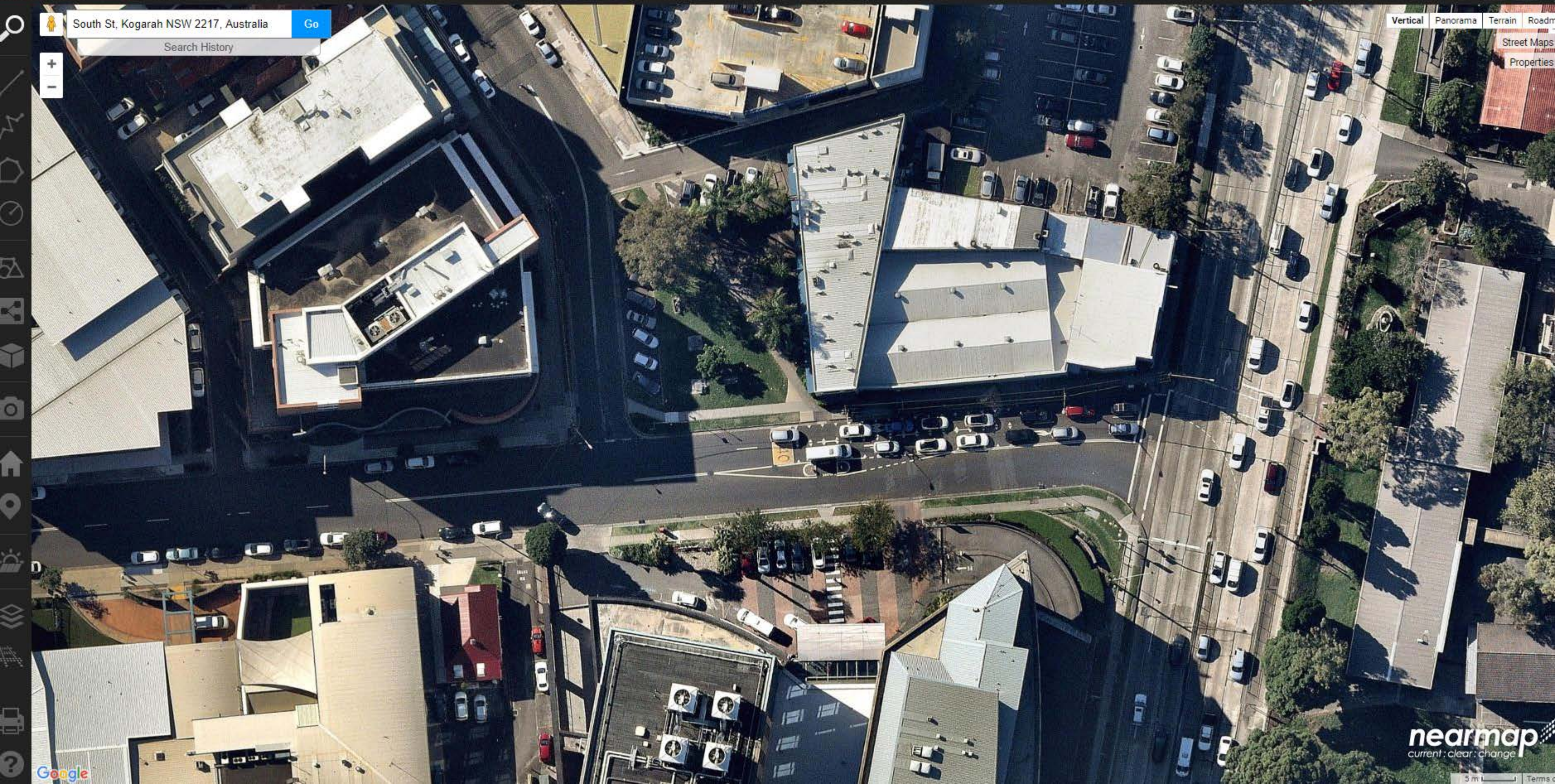
Properties



South St, Kogarah NSW 2217, Australia [Go](#)

Search History

Vertical Panorama Terrain Roadmap
Street Maps
Properties



South St, Kogarah NSW 2217, Australia

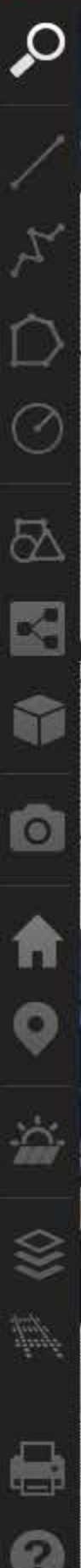
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Search History

Vertical Panorama Terrain Roadmap

Street Maps

Properties



APPENDIX B
TRAFFIC SURVEYS



R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Fax 88196849, Mob.0418-239019

Client : T.T.P.A
Job No/Name : 2123 KOGARAH South St
Day/Date : Thursday 31st January 2008

Peds

Time Per	South St	
	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

Peds

Time Per	South St	
	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

Peak Per	South St	
	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 Per	South St	
	Crossing	TOTAL
1500 - 1600	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

PEAK HR	109	109
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PEAK HR	165	165
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R.O.A.R. DATA
 Reliable, Original & Authentic Results
 Ph.88196847, Fax 88196849, Mob.0418-239019

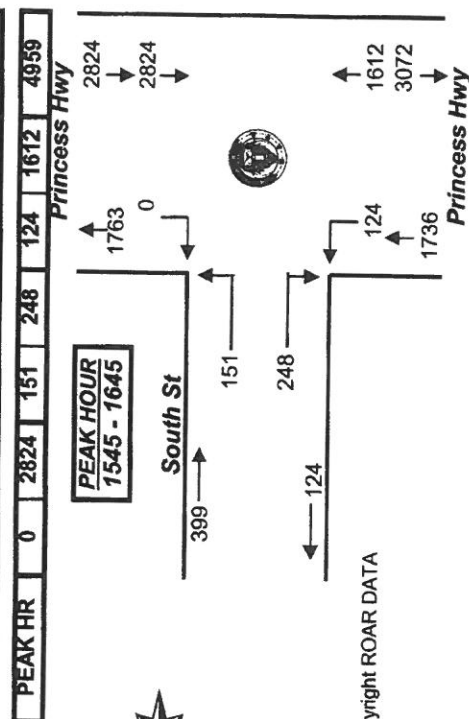
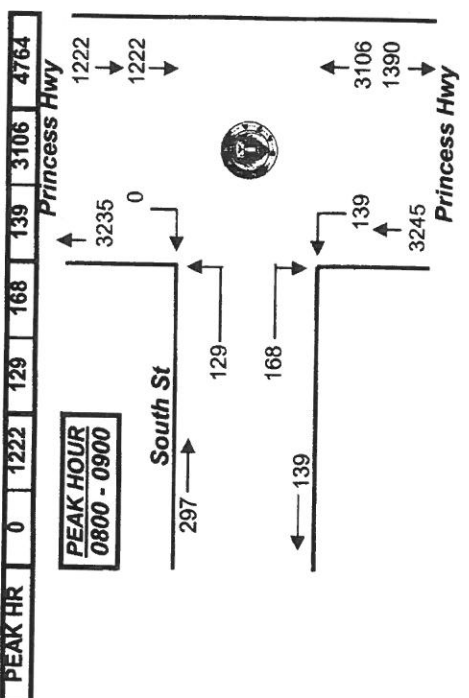
Client : T.T.P.A
 Job no/Name : 2123 KOGARAH South St
 Day/Date : Thursday 31st January 2008

Time Per	NORTH			WEST			SOUTH			TOTAL
	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	
0630 - 0645	0	161	12	11	9	842	1035			
0645 - 0700	0	201	15	9	23	849	1097			
0700 - 0715	0	234	20	12	25	895	1186			
0715 - 0730	0	232	27	27	32	833	1151			
0730 - 0745	0	223	32	29	16	796	1096			
0745 - 0800	0	241	39	28	13	737	1058			
0800 - 0815	0	313	41	28	29	818	1229			
0815 - 0830	0	312	33	57	33	708	1143			
0830 - 0845	0	301	23	47	39	711	1121			
0845 - 0900	0	296	32	36	38	869	1271			
Period End	0	2514	274	284	257	8058	11387			

Time Per	NORTH			WEST			SOUTH			TOTAL
	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	
1500 - 1515	0	545	26	45	32	427	1075			
1515 - 1530	0	633	32	64	35	381	1145			
1530 - 1545	0	744	49	51	25	365	1234			
1545 - 1600	0	707	43	49	34	385	1218			
1600 - 1615	0	726	47	65	39	410	1287			
1615 - 1630	0	675	30	56	26	390	1177			
1630 - 1645	0	716	31	78	25	427	1277			
1645 - 1700	0	691	44	58	29	372	1194			
1700 - 1715	0	610	40	81	22	435	1188			
1715 - 1730	0	507	37	71	26	410	1051			
1730 - 1745	0	709	36	62	31	445	1283			
1745 - 1800	0	714	44	74	15	360	1207			
Period End	0	7977	459	754	339	4807	14336			

Peak Per	NORTH			WEST			SOUTH			TOTAL
	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	
0630 - 0730	0	828	74	59	89	3419	4469			
0645 - 0745	0	890	94	77	96	3373	4530			
0700 - 0800	0	930	118	96	86	3261	4491			
0715 - 0815	0	1009	139	112	90	3184	4534			
0730 - 0830	0	1089	145	142	91	3059	4526			
0745 - 0845	0	1167	136	160	114	2974	4551			
0800 - 0900	0	1222	129	168	139	3106	4764			

Peak Per	NORTH			WEST			SOUTH			TOTAL
	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	
1500 - 1600	0	2629	150	209	126	1558	4672			
1515 - 1615	0	2810	171	229	133	1541	4884			
1530 - 1630	0	2852	169	221	124	1550	4916			
1545 - 1645	0	2824	151	248	124	1612	4959			
1600 - 1700	0	2808	152	257	119	1599	4935			
1615 - 1715	0	2692	145	273	102	1624	4836			
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			
PEAK HR	0	2824	151	248	124	1612	4959			



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R.O.A.R. DATA
 Reliable, Original & Authentic Results
 Ph.88196847, Fax 88196849, Mob.0418-239019

Client : T.T.P.A
 Job No/Name : 2123 KOGARAH South St
 Day/Date : Thursday 31st January 2008

X not all vehicles getting through

1730 - 1745

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33					
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1745 - 1800

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