

Appendix D

Revised Traffic Impact Assessment

Document Status Control Record

**Application for Planning Permission
Under Section 16 of the Town Planning Ordinance (Cap. 131)
for Proposed Hotel Use and Minor Relaxation
of Plot Ratio and Building Height Restrictions
at “Other Specified Uses” Annotated “Business” Zone
at Tsun Wan Inland Lot No. 46 S.C,
Nos. 46-48 Pak Tin Par Street, Tsuen Wan,
New Territories**

Traffic Impact Assessment Report

Originating Organisation : LLA Consultancy Limited Unit 610, 6/F, Island Place Tower, 510 King's Road, North Point, Hong Kong	Prepared by: SKL	SKL	Date: 15 December 2025
	Approved by: SLN	SLN	Date: 15 December 2025
	Revision No.: -		Date of Issue: 15 December 2025

Note: © – LLA Consultancy Limited. All rights reserved. Except for the internal use by the client for whom this document is prepared by LLA Consultancy Limited. No part of this document, which contains valuable trade secrets of a confidential nature to LLA Consultancy Limited may be (1) reproduced, stored in a retrieval system, or transmitted in any format or by any means, electronic, mechanical, photocopying, recording or otherwise; or (2) disclosed to any third party, without the prior consent of LLA Consultancy Limited.

1 INTRODUCTION

1.1 Background

- 1.1.1 The owner of Tsuen Wan Inland Lot 46 S.C, Nos. 46-48 (even numbers only) Pak Tin Par Street, Tsuen Wan (hereinafter called "the Site"), intends to redevelop the Site into a hotel development (hereinafter called "the Proposed Hotel Development"). The location of the Site is shown in **Figure 1.1**.
- 1.1.2 On 28th January 2022, the Site was approved by the Town Planning Board (Application No. A/TW/529) for an office development cum shop and services and eating place uses with minor relaxation of plot ratio and building height restrictions (hereinafter called "the Previous Approved Scheme").
- 1.1.3 LLA Consultancy Limited has been commissioned by the owner to undertake a traffic impact assessment study to support the planning application of the Proposed Hotel Development. This report presents the findings of the study.

1.2 Study Objectives

- 1.2.1 The objectives of this study can be summarised as follows:
- to review the existing traffic conditions in vicinity of the Proposed Hotel Development;
 - to estimate the volume of traffic that will be induced by the Proposed Hotel Development;
 - to assess the future traffic situation of the surrounding network in vicinity of the Proposed Hotel Development;
 - to appraise the potential traffic impact of the Proposed Hotel Development;
 - to recommend the transport facilities provisions for the Proposed Hotel Development.

2 THE PROPOSED DEVELOPMENT

2.1 The Development Site

- 2.1.1 As shown in **Figure 1.1**, the Site is located at Nos. 46 – 48 (even numbers only) Pak Tin Par Street, Tsuen Wan and has a site area of about 721.59 m². The Site was previously occupied by an industrial building, named the Ideal Plaza, and is currently vacant. The Site has a single frontage at Pak Tin Par Street only.

2.2 Proposed Development Content

- 2.2.1 The Proposed Hotel Development will comprise of 299 hotel guestrooms and **Table 2.1** summarizes the key development parameters.

Table 2.1 Development Parameters

Item	Parameter
Site Area (about)	721.59 m ²
Plot Ratio (about)	11.4
Total GFA (about)	8,226.13 m ²
No. of hotel guestrooms (about)	299

3 EXISTING TRAFFIC SITUATION

3.1 Existing Traffic Conditions

- 3.1.1 Pak Tin Par Street is a one-way 2-lane eastbound local distributor which connects Sha Tsui Road to Tai Chung Road.
- 3.1.2 Tai Chung Road is a dual 3-lane primary distributor which connects Castle Peak Road – Tsuen Wan and Sha Tsui Road.
- 3.1.3 Sha Tsui Road is a dual 2-lane district distributor. The road connects to Pak Tin Par Street and Tai Ho Road, in the west and east of Tai Chung Road, respectively. The section of Sha Tsui Road between Pun Shan Street and Tso Kung Street carried an Annual Average Daily Traffic (AADT) of 17,430 vehicles in 2023.

3.2 Traffic Count Survey

- 3.2.1 In order to assess the existing traffic conditions, traffic count surveys were carried out at the following locations in the vicinity of the Site on 4 September 2025 (Thursday) and 17 November 2025 (Monday) during the peak hour period, i.e., from 07:30 to 09:30 and 17:00 to 19:00. The locations of the surveyed junctions are as follows and presented in **Figure 3.1**.

J1 – Castle Peak Road – Tsuen Wan / Tai Chung Road

J2 – Tai Chung Road / Pak Tin Par Street; and

J3 – Tai Chung Road / Sha Tsui Road

J4 – Castle Peak Road – Tsuen Wan / Tsuen King Circuit

J5 – Castle Peak Road – Tsuen Wan / Sai Lau Kok Road

J6 – Castle Peak Road – Tsuen Wan / Tai Ho Road

J7 – Tai Chung Road / Hoi Hing Road

J8 – Sha Tsui Road / Tai Ho Road (W)

J9 – Sha Tsui Road / Tai Ho Road (E)

J10 – Tai Ho Road / Yeung Uk Road

- 3.2.2 The identified AM and PM peak hours are 08:30 – 09:30 and 17:30 – 18:30, respectively. The recorded peak hour traffic flows are presented in **Figure 3.2**.

3.3 Junction Capacity Assessment

3.3.1 Junction capacity assessment was carried out to reveal the existing performance of the key junctions with the 2025 surveyed traffic flows. The assessment results are tabulated in **Table 3.1** and the detailed calculation sheets are presented in **Appendix A**.

Table 3.1 Existing Junction Performance

No.	Junction	Type /Capacity Index ⁽¹⁾	AM Peak	PM Peak
J1	Castle Peak Road – Tsuen Wan / Tai Chung Road	Signalized/RC	54%	61%
J2	Tai Chung Road / Pak Tin Par Street	Priority/DFC	0.51	0.55
J3	Tai Chung Road / Sha Tsui Road	Signalized/RC	53%	55%
J4	Castle Peak Road – Tsuen Wan / Tsuen King Circuit	Signalized/RC	58%	43%
J5	Castle Peak Road – Tsuen Wan / Sai Lau Kok Road	Signalized/RC	98%	151%
J6	Castle Peak Road - Tsuen Wan / Tai Ho Road	Signalized/RC	84%	83%
J7	Tai Chung Road / Hoi Hing Road	Roundabout/DFC	0.66	0.57
J8	Sha Tsui Road / Tai Ho Road (W)	Signalized/RC	46%	29%
J9	Sha Tsui Road / Tai Ho Road (E)	Signalized/RC	70%	48%
J10	Tai Ho Road / Yeung Uk Road	Signalized/RC	63%	28%

Note: (1) RC = Reserve Capacity for signalized junction; DFC = Design Flow to Capacity ratio for priority junction.

3.3.2 **Table 3.1** has indicated that the concerned junctions are operating satisfactorily during both AM and PM peak hours.

3.4 Existing Public Transport Facilities

3.4.1 Numerous franchised bus and scheduled minibus (GMB) routes operate in the vicinity of the Site along Sha Tsui Road, Tai Chung Road and Castle Peak Road – Tsuen Wan. **Table 3.2 and Figure 3.3** show the existing bus and minibus routes running in the vicinity of the Site. The walking routes to the nearest bus stops are shown in **Figure 3.3**.

Table 3.2 Existing Public Transport Routes

Mode	Route No.	Origin - Destination	Frequency (min)
Bus	30	Tsuen Wan (Allway Gardens) – Cheung Sha Wan	25 – 30
	30X	Tsuen Wan (Allway Gardens) – Whampoa Garden	13 – 30
	33R	Tsuen Wan (Discovery Park) – Pak Tam Chung	60
	34	Kwai Shing(Central) – Tsuen Wan (Bayview Garden)	14 – 25
	34M	Tsuen Wan (Bayview Garden) – Tsuen Wan Station (Circular)	8 – 25
	39A	Tsuen Wan West Station – Allway Gardens (Circular)	15 – 25
	39M	Tsuen Wan (Allway Gardens) – Tsuen Wan Station (Circular)	7 – 15
	40	Tsuen Wan (Belvedere Garden) – Laguna City	10 – 25
	48P	Fo Tan Chun Yeung Estate – Tsing Lung Tau	9 trips per day
	48X	Wo Che – Tsuen Wan (Bayview Garden)	5 – 20
	53	Yoho Mall (Yuen Long) – Tsuen Wan (Nina Tower)	25 – 35
	57M	Tuen Mun (Shan King Estate) – Lai King (North)	10 – 30
	58M	Tuen Mun (Leung King Estate) – Kwai Fong Station	3 – 20
	58P	Kwai Fong Station – Tin King Estate (Tin Yue House)	15 – 20
	59A	Tuen Mun Pier Head – Kwai Fong (Kwai Tsui Estate)	6 – 60
	59M	Tuen Mun Pier Head – Tsuen Wan Station	3 – 20
	60M	Tuen Mun Station – Tsuen Wan Station	7 – 30
	61M	Tuen Mun (Yau Oi South) – Lai King (North)	8 – 25
	61P	So Kwun Wat – Tsuen Wan Station	6 trips per day
	66M	Tuen Mun (Tai Hing Estate) – Tsuen Wan (Nina Tower)	15 – 30
	67A	Tuen Mun (Po Tin Estate) – Kwai Fong (Kwai Tsui Estate)	20 – 30
	67M	Tuen Mun (Siu Hong Court) – Kwai Fong Station	5 – 20
	68A	Long Ping Estate – Tsing Yi Station	12 – 30
	68M	Tsuen Wan Station – Yuen Long (West) B/T	5 – 20
	69M	Kwai Fong Station – Tin Shui Wai Town Centre	6 – 30
	69P	Tin Shui Wai Station – Kwai Fong Station	12 – 20
	230X	Tsuen Wan (Allway Gardens) – Whampoa Garden	3 trips per day
	234A	Sham Tseng (Sea Crest Villa) – Tsuen Wan West Station	12 – 27
	234B	Tsuen Wan West Station – Sham Tseng (Sea Crest Villa)	12 – 30
	234C	Sham Tseng – Kwun Tong (Tsui Ping North Estate)	6 trips per day
	234D	Tsing Lung Tau – Kwun Tong (Tsui Ping North Estate)	5 trips per day
	234P	Tsuen Wan (Bayview Garden) – Star Ferry	1 trip per day
	234X	Tsim Sha Tsui East (Mody Road) – Tsuen Wan (Bayview Garden)	15 – 25

Mode	Route No.	Origin - Destination	Frequency (min)
	235	Kwai Chung (On Yam Estate) – Tsuen Wan (Circular)	8 – 20
	243P	Tsing Yi (Mayfair Garden) – Tsuen Wan (Allway Gardens)	2 trips per day
	251M	Sheung Tsuen – Tsuen Wan	3 trips per day
	259E	Tuen Mun (Lung Mun Oasis) – Tsuen Wan Station	3 trips per day
	260C	Tuen Mun (Sam Shing Estate) – Kwai Fong Station	15 – 30
	265M	Tin Heng Estate – Lai Yiu	5 – 35
	265P	Tin Yan – Tsuen Wan	4 trips per day
	268M	Park Yoho – Tsuen Wan West Station	10 – 30
	269A	Wetland Park Road – Kwai Chung (Kwai Fong Estate)	9 trips per day
	269M	Tin Yan Estate – Cho Yiu	15 – 30
	269P	Kwai Chung (Kwai Fong Estate) – Wetland Park Road	7 trips per day
	930	Exhibition Centre Station – Tsuen Wan (Discovery Park)	10 – 25
	930X	Causeway Bay (Moreton Terrace) – Tsuen Wan (Discovery Park)	8 – 25
	934	Tsuen Wan (Bayview Garden) – Wan Chai (Fleming Road)	5 – 30
	934A	Tsuen Wan (Allway Gardens) – Wan Chai (Fleming Road)	4 trips per day
	A31	Tsuen Wan (Nina Tower) – Airport (Ground Transportation Centre)	15 – 30
	A38	Tsuen Wan (Allway Gardens) – Airport (Ground Transportation Centre)	30 – 60
	E32A	Tung Chung Development Pier – Kwai Fong (South)	12 – 30
	N39	Tsuen Wan Station – Allway Gardens (Circular)	30
	N252	Mei Foo – Tuen Mun (Sam Shing Estate)	2 trips per day
	N260	Tuen Mun Pier Head – Mei Foo	30
	N269	Tin Tsz – Mei Foo	20 – 25
	N930	Tsuen Wan (Discovery Park) – Causeway Bay (Moreton Terrace)	3 trips per day
	NA31	HZMB Hong Kong Port – Tsuen Wan (Nina Tower)	5 trips per day
	XR	Tsuen Wan – Huanggang(Night)	-
	XR	Tsuen Wan – Huanggang	-
GMB	84	Tsuen Wan Chung On Street – Allway Gardens	7 – 15
	95	Tsuen Wan Centre – Hoi Kwai Road Public Transport Interchange	5 – 25
	95A	Tsuen Tak Garden – Tsuen Wan Station (Circular route)	7 – 15
	95M	Tsuen Wan Station – Tsuen Wan Centre	2 – 20
	96	Tsuen Wan (Hoi Pa Street) – Tsing Lung Tau	6 – 25
	96A	Yau Kom Tau Village – Tsuen Wan Station (Circular route)	15 – 30
	96B	Belvedere Garden – Tsuen Wan Station (Circular route)	2 – 20
	96C	Tsuen Wan Station – Bellagio	15 – 30
	96M	Tsuen Wan Station – Tsing Lung Tau	10 – 25
	301	Clague Garden Estate – Tsuen Wan Station (Circular route)	15 – 20
	301M	Tsuen Wan West Station Public Transport Interchange – Tsuen Wan Station (Circular route)	2 trips per day
	302	Hong Kong Garden – Kwai Fong (Circular route)	8 – 30

Mode	Route No.	Origin - Destination	Frequency (min)
	313	Tsuen Wan (Tso Kung Street) – Princess Margaret Hospital	6 – 11

4 FUTURE TRAFFIC SITUATION

4.1 Design Year

- 4.1.1 It is anticipated that the Proposed Hotel Development can be operated by 2030. To consider 3 years after the planned completion of the Proposed Hotel Development, a design year of 2033 will be adopted in this study.

4.2 Traffic Generation for the Previous Approved Scheme and the Proposed Hotel Development

- 4.2.1 Based on the development parameters as listed in **Table 2.1**, the development traffic generation of the Previous Approved Scheme and the Proposed Hotel Development were estimated and compared in **Table 4.1**, based on the trip rates as documented in the Transport Planning and Design Manual, Volume 1 Chapter 3 – Transport Considerations of Town Plans (TPDM) published by the Transport Department.

Table 4.1 Traffic Generation of the Previous Approved Scheme and the Proposed Hotel Development

Use	Unit/Content	AM Peak Hour			PM Peak Hour		
		Gen.	Att.	Total	Gen.	Att.	Total
Adopted Trip Rates ⁽¹⁾							
Office	pcu/hr/100m ²	0.1703	0.2452	-	0.1573	0.1175	-
Retail	pcu/hr/100m ²	0.2296	0.2434	-	0.3100	0.3563	-
Hotel	pcu/hr/room	0.1329	0.1457	-	0.1290	0.1546	-
Traffic Generation of the Previous Approved Scheme [A]							
Office	7,793 m ² GFA	14	20	34	13	10	23
Retail	433 m ² GFA	1	2	3	2	2	4
Total		15	22	37	15	12	27
Traffic Generation of the Proposed Hotel Development [B]							
Hotel	299 guestrooms	40	44	84	39	47	86
Change in traffic generation: [B] – [A]		25	22	47	24	35	59

Note: (1) Mean trip rates are adopted from TPDM, Transport Department.

- 4.2.2 As shown in **Table 4.1**, the Proposed Hotel Development will generate a two-way traffic of 84 pcu and 86 pcu during the AM peak hour and PM peak hour, respectively. As compared with the Previous Approved scheme, the Proposed Hotel Development would result in generating additional traffic volumes of 47 pcu/hr and 59 pcu/hr during the AM and PM peak hour, respectively. The additional development traffic flows are distributed onto the road network as shown in **Figure 4.1**.

4.3 Traffic Generation for Planned/Committed Developments

4.3.1 To estimate the future traffic flows, updated information is being obtained from public domain regarding the planned and committed developments in the vicinity. The details of these developments are provided in **Table 4.2**.

Table 4.2 Planned / Committed Developments

Site Ref.	Reference	Location	Proposed Use	Content
1	Planning Application No. A/TW/522	18 – 20 Pun Shan Street	Data Centre	26,477.15 m ²
2	BD Monthly Digest (March 2023)	23 – 33 Chai Wan Kok Street	Data Centre	22,032.9 m ²

4.3.2 The traffic flows that would be generated by these developments have been considered, by making reference to the trip generation rates in the TPDM. The traffic generation and attraction numbers are shown in **Table 4.3**.

Table 4.3 Traffic Generation and Attraction of Planned / Committed Developments

Type / Development	Use	Unit / Content	AM Peak Hour			PM Peak Hour		
			Gen.	Att.	2-way	Gen.	Att.	2-way
Adopted Trip Rates								
Data Centre ⁽¹⁾		pcu/hr/100 m² GFA	0.0227	0.017	-	0.0170	0.0113	-
Traffic Generation of the Planned Developments								
Site 1	Data Centre	26,477.15 m²	7	5	12	5	3	8
Site 2	Data Centre	22,032.9 m²	6	4	10	4	3	7
Total			13	9	22	9	6	15

Notes: Gen. – Generation; Att. – Attraction

(1) Trip rates from the TIA report of A/TW/522 are adopted.

4.4 Traffic Forecast

Annual Traffic Census (ATC) – Historical Data

4.4.1 In order to establish the traffic growth rate in the vicinity of the Site, reference was made to the 2019 to 2023 Annual Traffic Census Reports published by the Transport Department, reporting on the AADT at the counting stations in the territory. The details of the counting stations in the vicinity and the corresponding counts are shown in **Table 4.4**.

Table 4.4 Annual Traffic Census Data

Stn. No.	Road Section			AADT ⁽¹⁾					Avg. Growth%
	Road	From	To	2019	2020	2021	2022	2023	
5227	Sha Tsui Rd	Pun Shan St	Tso Kung St	19,260	19,080 (-0.9%)	19,810 (3.8%)	19,610 (-1%)	17,430 (-11.1%)	-2.5%
5409	Castle Peak Rd - Tsuen Wan	Tai Ho Rd	Tai Chung Rd	31,620	28,220 (-10.8%)	27,420 (-2.8%)	26,450 (-3.5%)	29,880 (13%)	-1.4%
Total				50,880	47,300 (-7%)	47,230 (-0.1%)	46,060 (-2.5%)	47,310 (2.7%)	-1.8%

Note: (1) Figures in bracket indicated the % increase between two years.

- 4.4.2 **Table 4.4** showed that the recorded average annual growth rate of the concerned counting stations is -1.8% between years 2019 to 2023.

Territorial Population and Employment Data Matrix (TPEDM) – Projection Data

- 4.4.3 Reference was also made to the 2021 based Territorial Population and Employment Data Matrix (TPEDM) published by the Planning Department. The population and employment data of year 2021 and 2031 are summarized in **Table 4.5**.

Table 4.5 Population and Employment Data in Tsuen Wan District

Year	2021	2026	2031
Population	320,100	296,150	295,850
Employment	167,350	168,150	163,800
Total	487,450	464,300	459,650
Average Annual Growth %		-1.0% (2021 to 2026)	-0.2% (2026 to 2031)

- 4.4.4 As shown in **Table 4.5**, the average annual growth rate for both population and employment of Tsuen Wan district is -1.0% and -0.2% during 2021–2026 and 2026–2031, respectively. Having considered the rates derived from the ATC and the TPEDM data, to be conservative, a nominal growth rate of +1.0% will be adopted for the subsequent traffic forecasting.

4.5 Reference and Design Flows

- 4.5.1 The 2033 Reference Flows, i.e., the traffic flows in the vicinity **without** the traffic flows generated by the Proposed Hotel Development, were estimated based on the following equation.

$$\text{2033 Reference Flows} = \text{2025 Existing Flows} \times (1 + 1.0\%)^8 + \text{Traffic Flows Generated by the Approved and Planned/Committed Developments}$$

- 4.5.2 The 2033 Design Flows, i.e., the traffic flows in the vicinity **with** the traffic flows generated by the Proposed Hotel Development, were estimated based on the following equation:

$$\text{2033 Design Flows} = \text{2033 Reference Flows} + \text{Traffic Flows Generated by the Proposed Hotel Development}$$

- 4.5.3 The 2033 Reference and Design Flows are shown in **Figures 4.2 and 4.3**, respectively.

4.6 Junction Capacity Assessment

4.6.1 Junction capacity analysis was carried out for the assessment year 2033. The assessment results are shown in **Table 4.6** and the detailed calculation sheets are attached in **Appendix B**.

Table 4.6 2033 Junction Capacity Assessment

No.	Junction	Type /Capacity Index ⁽¹⁾	2033 Reference		2033 Design	
			AM	PM	AM	PM
J1	Castle Peak Road – Tsuen Wan / Tai Chung Road	Signalized/RC	42%	49%	41%	48%
J2	Tai Chung Road / Pak Tin Par Street	Priority/DFC	0.56	0.60	0.60	0.64
J3	Tai Chung Road / Sha Tsui Road	Signalized/RC	40%	42%	40%	41%
J4	Castle Peak Road – Tsuen Wan / Tsuen King Circuit	Signalized/RC	45%	31%	43%	30%
J5	Castle Peak Road – Tsuen Wan / Sai Lau Kok Road	Signalized/RC	83%	130%	83%	130%
J6	Castle Peak Road - Tsuen Wan / Tai Ho Road	Signalized/RC	70%	68%	70%	68%
J7	Tai Chung Road / Hoi Hing Road	Roundabout/D FC	0.76	0.65	0.77	0.65
J8	Sha Tsui Road / Tai Ho Road (W)	Signalized/RC	34%	19%	34%	19%
J9	Sha Tsui Road / Tai Ho Road (E)	Signalized/RC	57%	36%	57%	36%
J10	Tai Ho Road / Yeung Uk Road	Signalized/RC	51%	18%	50%	18%

Note: (1) RC = Reserve Capacity for signalized junction; DFC = Design Flow to Capacity ratio for priority junction.

4.6.2 As shown in **Table 4.6**, the assessed junctions will operate with capacities during the peak hours in 2033 with the expected traffic growth and the additional traffic flows generated by the Proposed Development.

4.7 Occupancy of Existing and Future Public Transport Service

Occupancy of Existing Public Transport Service

4.7.1 In order to review the occupancy of the existing public transport services, occupancy survey was conducted on 10 December 2025 (Wednesday) for the time periods of 07:00 - 10:00 hours for the following franchised bus routes and locations. The survey results are presented in **Table 4.10**.

- Bus route A31 at bus stops "Fuk Loi Estate" (stop nearest to the Site) and "Lung Tak Street" (last stop before leaving Tsuen Wan)
- Bus route E32A at bus stops "Fuk Loi Estate" (stop nearest to the Site) and "Clague Garden Estate" (last stop before leaving Tsuen Wan)

Table 4.7 Occupancy Survey Result on 10 December 2025 (Wednesday)

Period	AM Peak Hour			
Bus Route	A31		E32A	
Bus Stop	Fuk Loi Estate	Lung Tak Street	Fuk Loi Estate	Clague Garden Estate
No. of Vehicles [A]	4	4	5	5
Total Capacity (pax/hour) ⁽¹⁾ [B]	480	480	600	600
No. of Pax. on-board when arrived [C]	18	258	324	366
No. of Pax. alighting [D]	0	1	0	0
No. of Pax. boarding [E]	6	28	24	35
No. of Pax on-board when leave [F] = [C] - [D] + [E]	24	285	348	401
Occupancy (%) [G] = [F] / [B]	5%	59%	58%	67%

Notes: Pax. - Passengers

(1) The capacity of each bus is assumed to be 120.

Pedestrian Demand on Public Transport Services

4.7.2 In order to identify the sufficiency of future public transport services, additional passenger generated by the Proposed Hotel Development should be estimated. As there are no pedestrian trip rates established in TPDM, in-house pedestrian trip rates were retrieved for estimating the pedestrian generation and attraction of the Proposed Hotel Development, the additional pedestrian generation and attraction of the Proposed Hotel Development are estimated and tabulated in **Table 4.8**.

Table 4.8 Estimated Pedestrian Traffic Generation of the Proposed Hotel Development

Use	Unit/ Content	AM Peak Hour			PM Peak Hour		
		Gen.	Att.	Total	Gen.	Att.	Total
Adopted Pedestrian Trip Rates ⁽¹⁾							
Hotel	persons/hr/ guestroom	0.80	0.28	—	0.52	0.51	—
Estimated Pedestrian Generation of the Proposed Hotel Development							
Hotel	299 rooms	240	84	324	156	153	309

Notes: Gen. – Generation. Att. – Attraction.
(1) In-house pedestrian trip rates are adopted.

4.7.3 The Proposed Hotel Development is estimated to generate 2-way pedestrian flows of 324 and 309 persons/ hour during AM and PM peak hours respectively.

4.7.4 **Table 4.8** shows that the pedestrian traffic generation of Proposed Hotel Development in AM is generally more than that in PM. As such, AM peak hour is considered more critical in conducting occupancy assessment, the AM scenario is adopted for subsequent analysis.

4.7.5 In order to establish the visitor flow pattern to the different transport mode, reference was made to Chapter 7 of "Travel Characteristics Survey (TCS) 2011 Final Report". The estimated modal split for the visitors of the Proposed Hotel Development was estimated as shown in **Table 4.9**.

Table 4.9 Estimated Modal Split for the Visitors of the Proposed Hotel Development

Mode	Distribution of Boardings by Mode in TCS 2011	Adjusted Modal Split for the Proposed Hotel Development ⁽¹⁾
MTR (including Airport Express)	35%	38%
Tourist Bus (including shuttle bus provided by hotel)	25%	27%
Taxi	20%	22%
Franchised Bus	8%	9%
Private Vehicle	4%	4%
Ferry	3%	N.A. ⁽¹⁾
LRT / Tram	2%	N.A. ⁽¹⁾
Others	3%	N.A. ⁽¹⁾
Total	100%	100%

Note: (1) Transport mode which is not available in the vicinity is excluded from the estimation of modal split.

4.7.6 The pedestrian generation and attraction of the Proposed Hotel Development to different transport mode is estimated in **Table 4.10**.

Table 4.10 Estimated Pedestrian Generation and Attraction to Different Mode of Transport

Mode of Transport	Percentage	Estimated Peak Hour Pedestrian Flows (persons / hr)					
		AM Peak			PM Peak		
		Gen.	Att.	Total	Gen.	Att.	Total
MTR	38%	90	32	124	60	58	118
Tourist Bus	27%	65	23	87	42	41	83
Taxi	22%	53	18	71	34	34	68
Franchised Bus	9%	22	8	29	14	14	28
Private Vehicle	4%	10	3	13	6	6	12
Total	100%	240	84	324	156	153	309

Notes: Gen. – Generation; Att. – Attraction.

Future Occupancy of Public Transport Service

4.7.7 The additional pedestrians generated by the Proposed Hotel Development are distributed onto the concerned franchised bus routes accordingly. The future occupancy of the concerned franchised bus routes is then estimated and presented in **Table 4.11**.

Table 4.11 Future Occupancy of Concerned Franchised Bus Routes

Period	AM Peak Hour			
	A31		E32A	
	Fuk Loi Estate	Lung Tak Street	Fuk Loi Estate	Clague Garden Estate
No. of Vehicles [A]	4	4	5	5
Total Capacity (pax/hour) ⁽¹⁾ [B]	480	480	600	600
No. of Pax. on-board when leave [C]	24	285	348	401
Additional Pax. Demand induced by the Proposed Hotel Development [D]	4	4	18	18
Projected No. of Pax. [E] = [C] x (1+1.0%) ⁸ + [D]	30	313	395	452
Occupancy (%) [F] = [E] / [B]	6%	65%	66%	75%

Notes: Pax. - Passengers

(1) The capacity of each bus is assumed to be 120.

4.7.8 As shown in **Table 4.11**, the existing bus routes would have spare capacity to accommodate the additional passengers generated by the Proposed Hotel Development during AM peak hour in the future.

5 PROVISION OF TRANSPORT FACILITIES

5.1 Access Arrangement

- 5.1.1 There is an existing vehicular access located at Pak Tin Par Street serving the Site and it will be maintained as the vehicular access for the Proposed Hotel Development. In order to prevent illegal parking on footpath at the proposed hotel frontage, traffic aids such as bollards and associated road markings (including but not limited to "KEEP CLEAR" and double yellow road markings) will be submitted to TD for approval during the detailed design stage.
- 5.1.2 Taking into consideration of the existing cautionary crossing near Tai Chung Road is away from the proposed hotel. A cautionary crossing is proposed for easy access to the Mills at the location as shown in **Figure 5.1**.

5.2 HKPSG Requirements in Car Parking and Loading/Unloading Provisions

- 5.2.1 The requirements of car parking and loading/unloading facilities are being estimated, taking into consideration of the latest requirements set out in the Hong Kong Planning Standards and Guidelines (HKPSG). The required car parking and loading/unloading facilities for the Proposed Hotel Development are outlined in **Table 5.1**.

Table 5.1 Car Parking and Loading/Unloading Facilities as Required by HKPSG

Facility	HKPSG Requirements	Required Nos.	Proposed Provision
Car Parking	1 car parking space per 100 rooms	3	3
Goods Vehicle Loading/ Unloading	0.5-1 goods vehicle bay per 100 rooms	2 – 3	3
Motorcycle Parking	10% of total car parking space	1	1
Lay-by for taxi and private car	2 lay-bys for hotel less than 299 rooms	2	2
Coach Space	1 space for hotel less than 299 rooms	1	1

- 5.2.2 As shown in **Table 5.1**, 3 nos. of private car parking spaces (including 1 no. of parking space for disabled users), 2 nos. of goods vehicle loading / unloading bays, 1 no. of motorcycle parking space, 1 no. of lay-by for taxi and private car and 1 no. coach space will be provided to fulfil the requirements of the HKPSG. The indicative ground floor car park layout plan is enclosed in **Appendix C**.
- 5.2.3 According to "Section 3: Parking Standards for Commercial Facilities" under HKPSG, goods vehicle provision is divided into 65% LGV and 35% HGV, which the proposed 2 goods vehicle loading/unloading bays, 1 no. (2 x 65% = 1.3, say 1 no.) should be for LGV and the remaining should be for HGV. **Table 5.2** lists out a summary of the numbers and the dimensions required for each type of space in the Proposed Development.
- 5.2.4 The picking-up/setting-down of the coach space with the passenger's routing to the lobby and the waiting area within the carpark when the turntable under normal operation are shown in **Figure 5.2**.

Table 5.2 Summary of Overall Transport Facilities Provisions

Facilities	Dimensions	Proposed Provision
Car Parking Space	2.5m (W) x 5.0m (L) x 2.4m (H)	2
Disabled Car Parking Space	3.5m (W) x 5.0m (L) x 2.4m (H)	1
Motorcycle Parking Space	1.0m (W) x 2.4m (L) x 2.4m (H)	1
Goods Vehicle Loading / Unloading Bay	3.5m (W) x 11.0m (L) x 4.7m (H)	1
	3.5m (W) x 7.0m (L) x 3.6m (H)	1
Lay-by for Taxi and Private Car	2.5m (W) x 5.0m (L) x 2.4m (H)	2
Coach Space	3.5m (W) x 12.0m (L) x 4.7m (H)	1

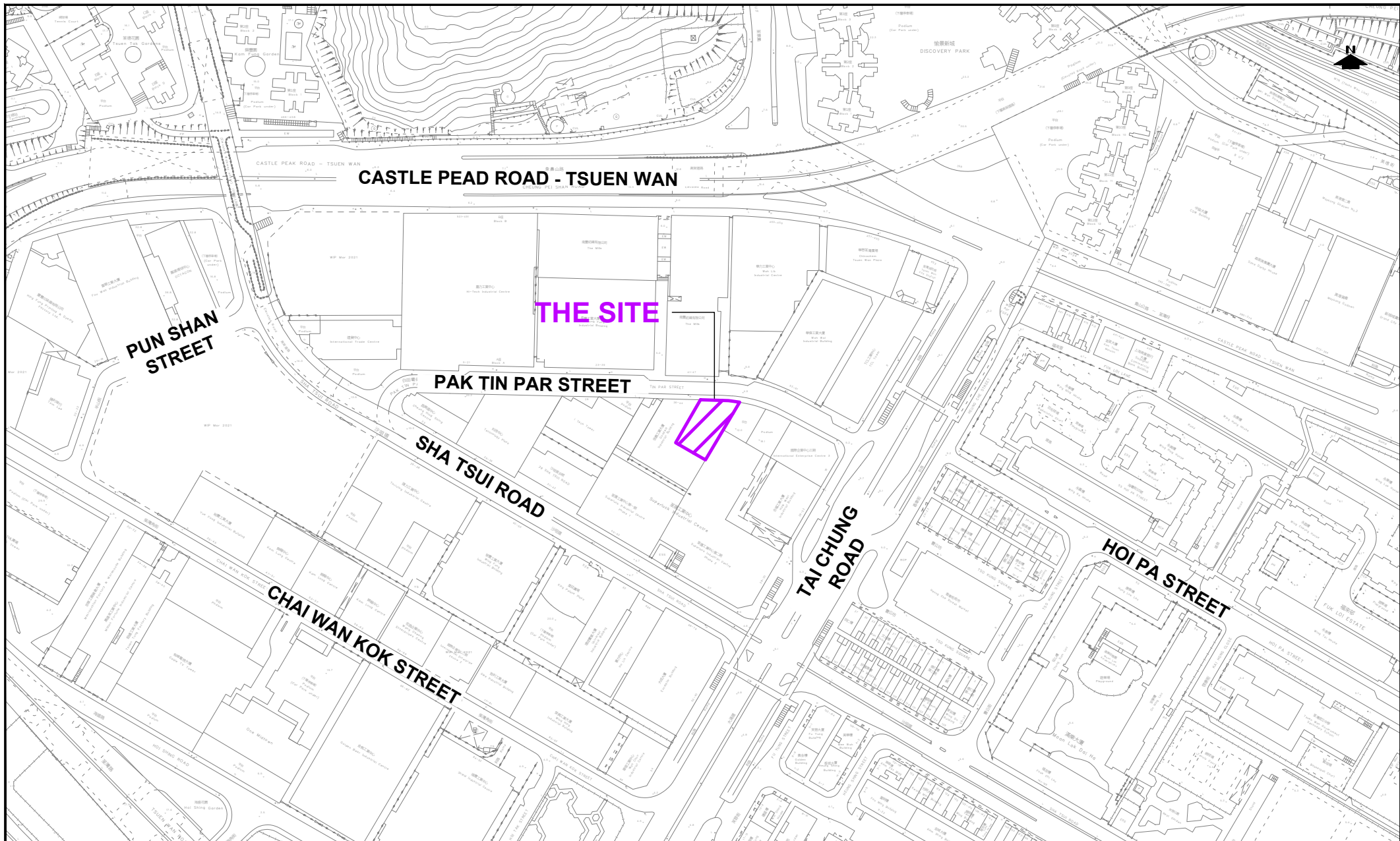
6 SUMMARY AND CONCLUSION

6.1 Summary

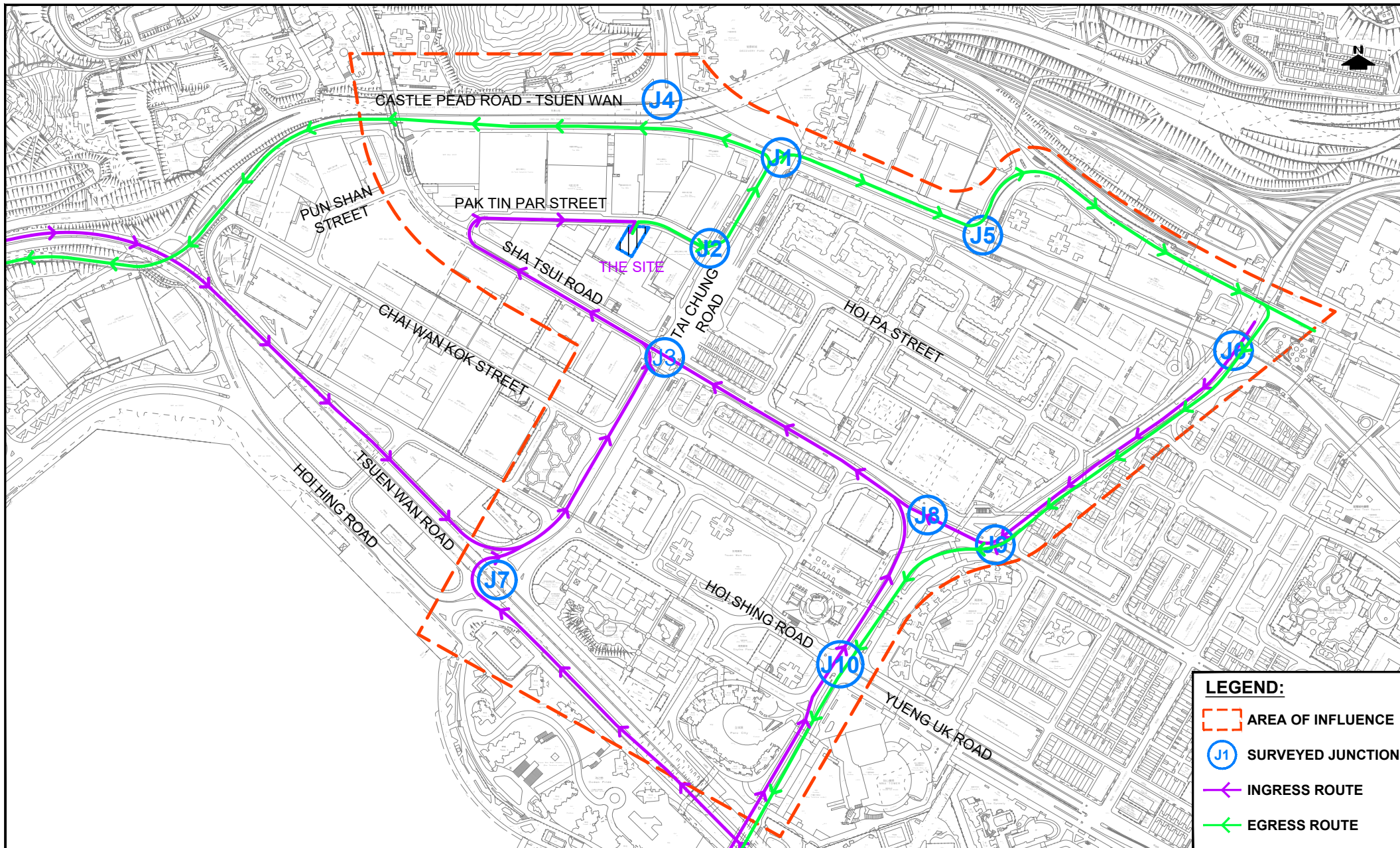
- 6.1.1 The owner of Tsuen Wan Inland Lot No. 46 S.C intends to redevelop the Site into a hotel development.
- 6.1.2 Traffic count surveys were carried out on 4 September 2025 (Thursday) and 17 November 2025 (Monday) during the peak hour period from 07:30 to 9:30 and 17:00 to 19:00 at the identified key junctions, and the AM and PM peak hours were found to be 08:30 – 09:30 and 17:30 – 18:30, respectively. The capacity of the key junctions in the vicinity of the Site was analysed and they are operating satisfactorily.
- 6.1.3 The Proposed Hotel Development would generate two-way traffic flows of 84 pcu/hr in the AM peak, 86 pcu/hr in the PM peak. By assigning the additional development traffic to the 2033 Reference Flows, the 2033 Design Flows were obtained.
- 6.1.4 Junction capacity assessments were carried out at the key junctions in the vicinity for the year 2033. The results have indicated that all junctions will operate satisfactorily for both reference and design scenarios. Therefore, it is anticipated that the Proposed Hotel Development will not induce significant traffic impact to the surrounding road network.
- 6.1.5 There is an existing vehicular access located at Pak Tin Par Street serving the Site and it will be maintained as the vehicular access for the Proposed Hotel Development.
- 6.1.6 It is proposed to provide a total of 3 car parking spaces, 2 loading/unloading bays, 1 motorcycle parking space, 1 lay-by for taxi and private cars and 1 coach space within the Proposed Hotel Development. The internal transport facilities of the Proposed Hotel Development can meet the requirements as set out in the latest HKPSG.

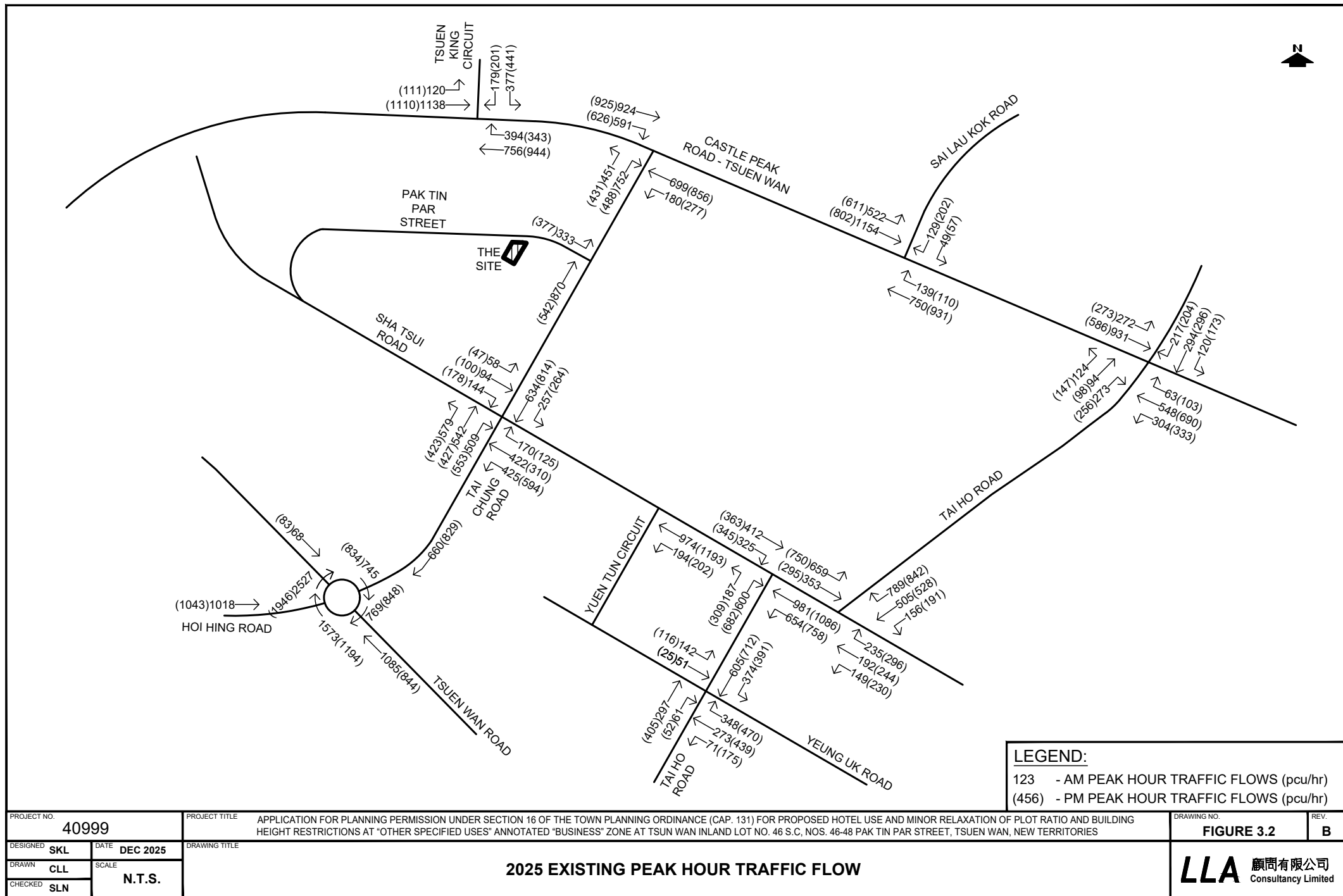
6.2 Conclusion

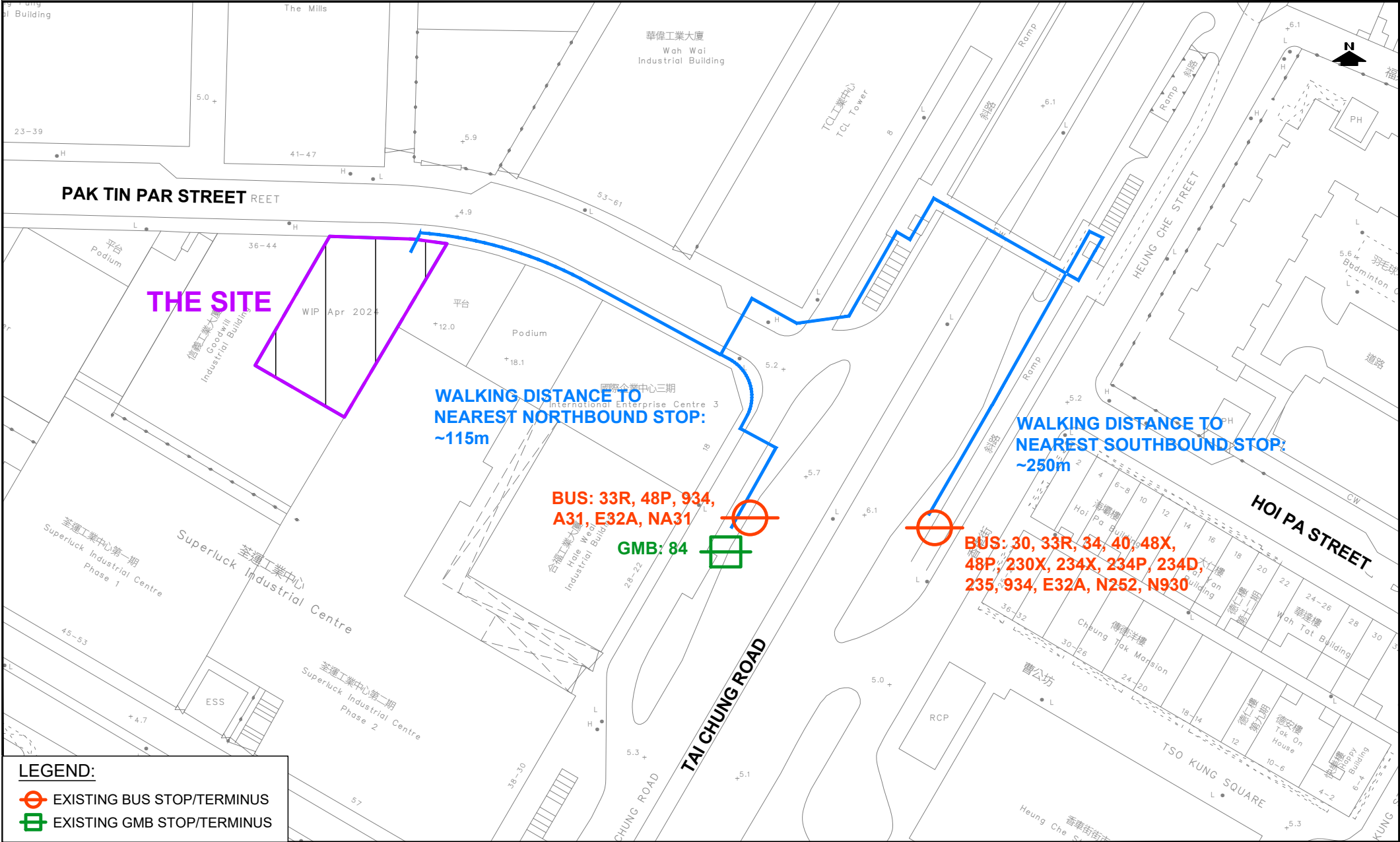
- 6.2.1 Based on the findings of the traffic impact assessment, it can be concluded that the Proposed Hotel Development will not induce adverse traffic impact onto the adjacent road network and shall be approved in traffic viewpoint.



PROJECT NO. 40999		PROJECT TITLE APPLICATION FOR PLANNING PERMISSION UNDER SECTION 16 OF THE TOWN PLANNING ORDINANCE (CAP. 131) FOR PROPOSED HOTEL USE AND MINOR RELAXATION OF PLOT RATIO AND BUILDING HEIGHT RESTRICTIONS AT "OTHER SPECIFIED USES" ANNOTATED "BUSINESS" ZONE AT TSUN WAN INLAND LOT NO. 46 S.C, NOS. 46-48 PAK TIN PAR STREET, TSUEN WAN, NEW TERRITORIES		DRAWING NO. FIGURE 1.1	REV. .
DESIGNED SKL	DATE JUL 2025	DRAWING TITLE LOCATION PLAN		LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE 1:3000				
CHECKED SLN					



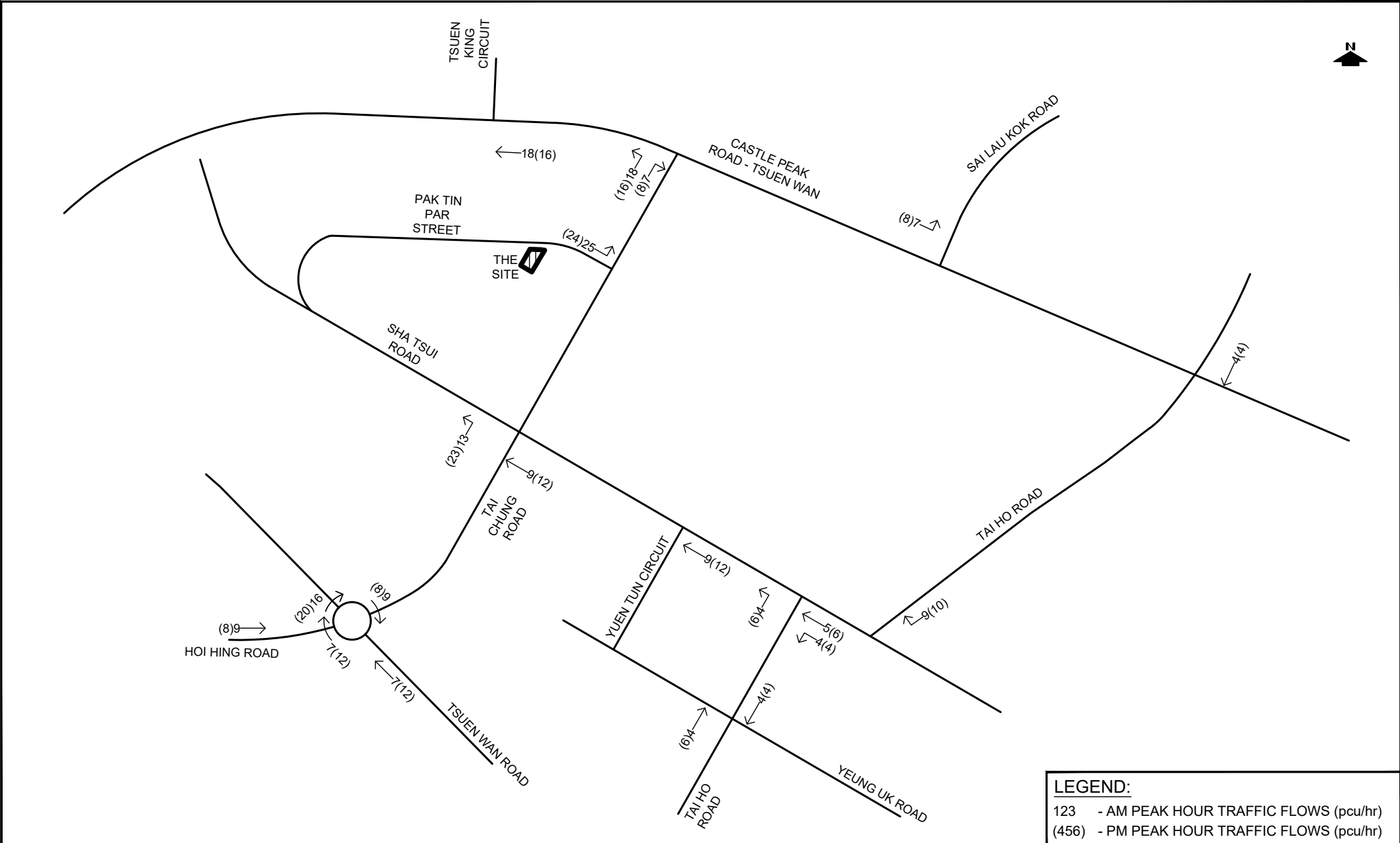




LEGEND:

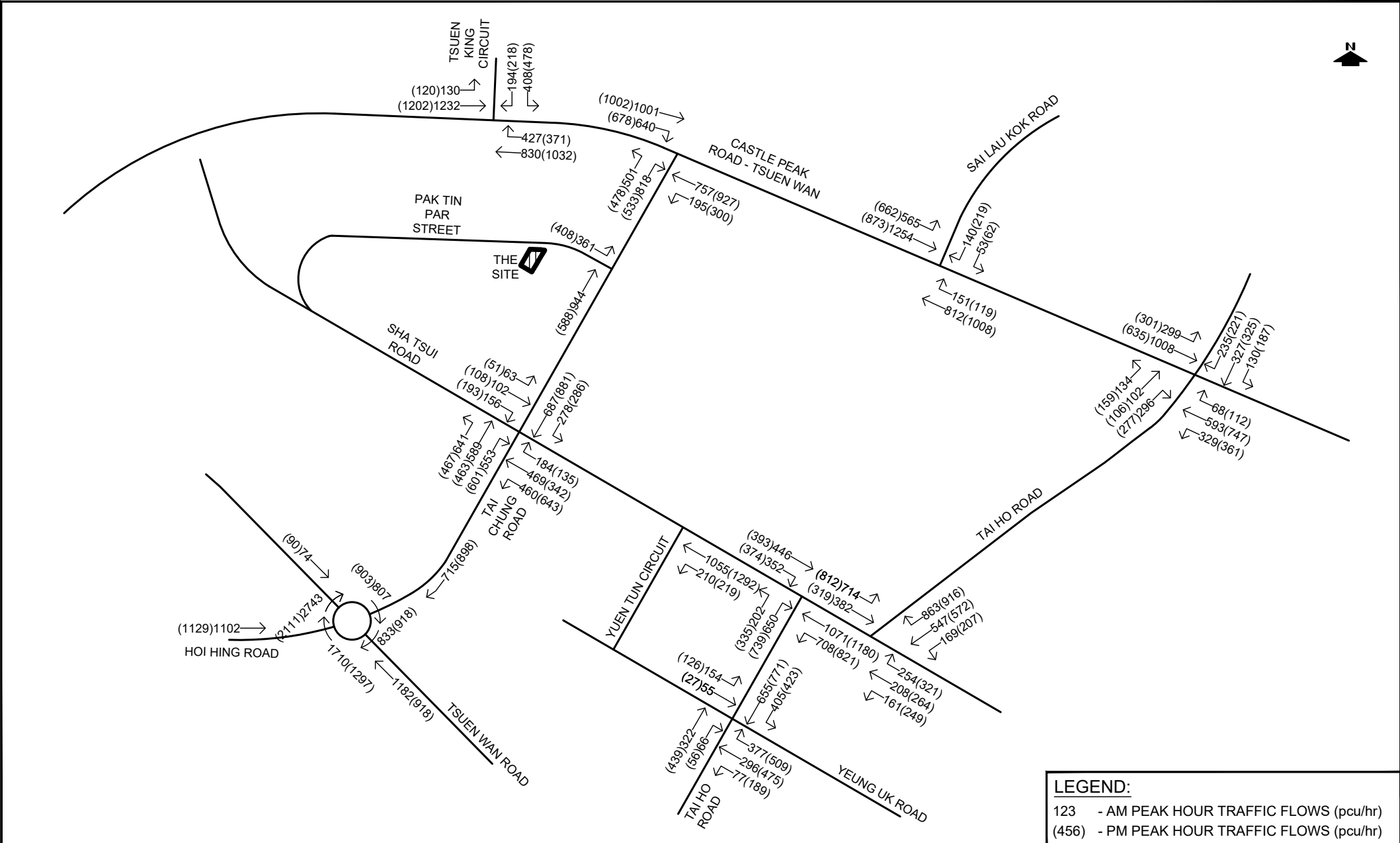
- EXISTING BUS STOP/TERMINUS
- EXISTING GMB STOP/TERMINUS

PROJECT NO. 40999		PROJECT TITLE APPLICATION FOR PLANNING PERMISSION UNDER SECTION 16 OF THE TOWN PLANNING ORDINANCE (CAP. 131) FOR PROPOSED HOTEL USE AND MINOR RELAXATION OF PLOT RATIO AND BUILDING HEIGHT RESTRICTIONS AT "OTHER SPECIFIED USES" ANNOTATED "BUSINESS" ZONE AT TSUN WAN INLAND LOT NO. 46 S.C, NOS. 46-48 PAK TIN PAR STREET, TSUEN WAN, NEW TERRITORIES		DRAWING NO. FIGURE 3.3	REV. .
DESIGNED SKL	DATE DEC 2025	DRAWING TITLE WALKING DISTANCE BETWEEN THE NEAREST STOPS AND THE SITE		LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE 1:1000				
CHECKED SLN					

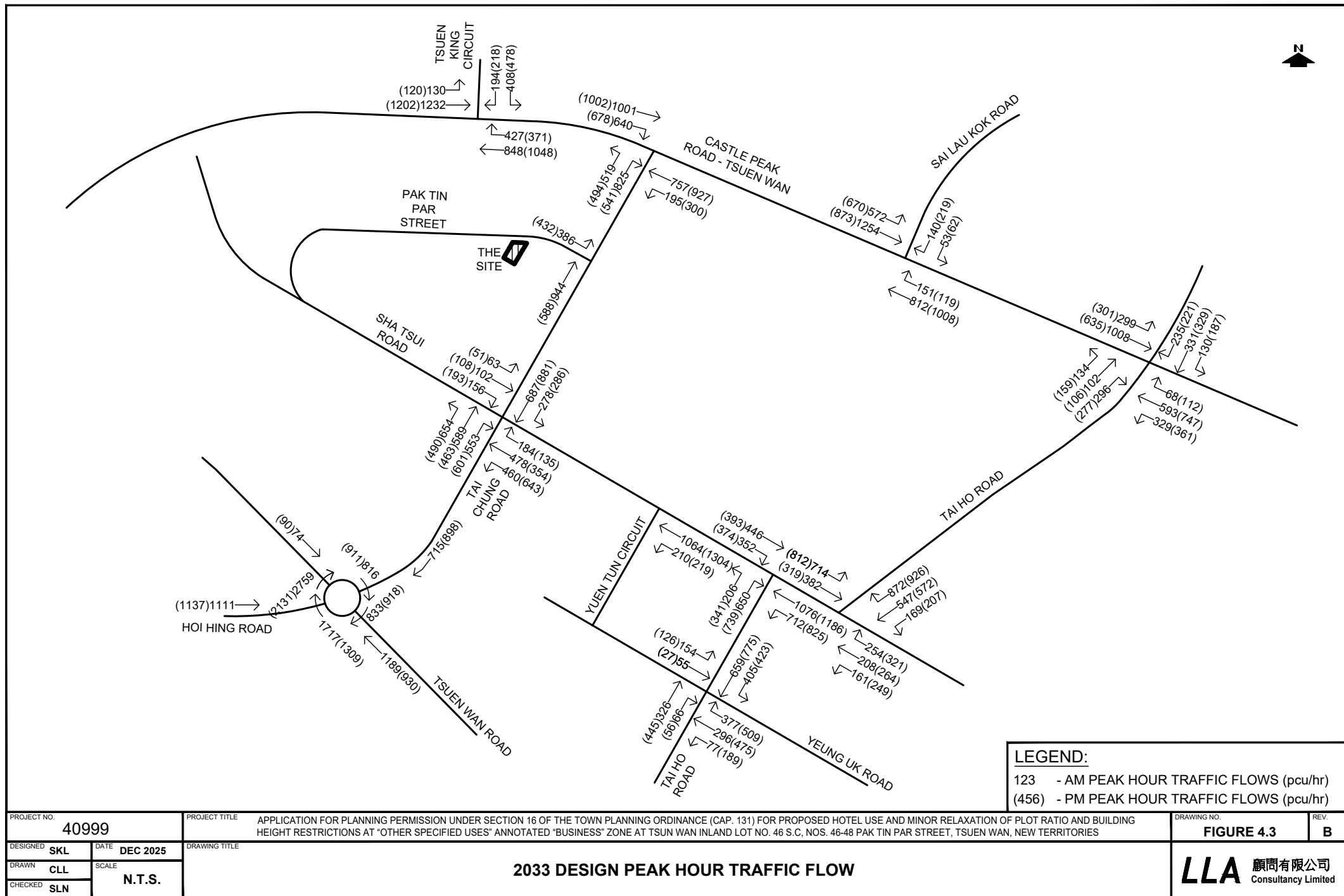


LEGEND:		
123	- AM PEAK HOUR TRAFFIC FLOWS (pcu/hr)	
(456)	- PM PEAK HOUR TRAFFIC FLOWS (pcu/hr)	

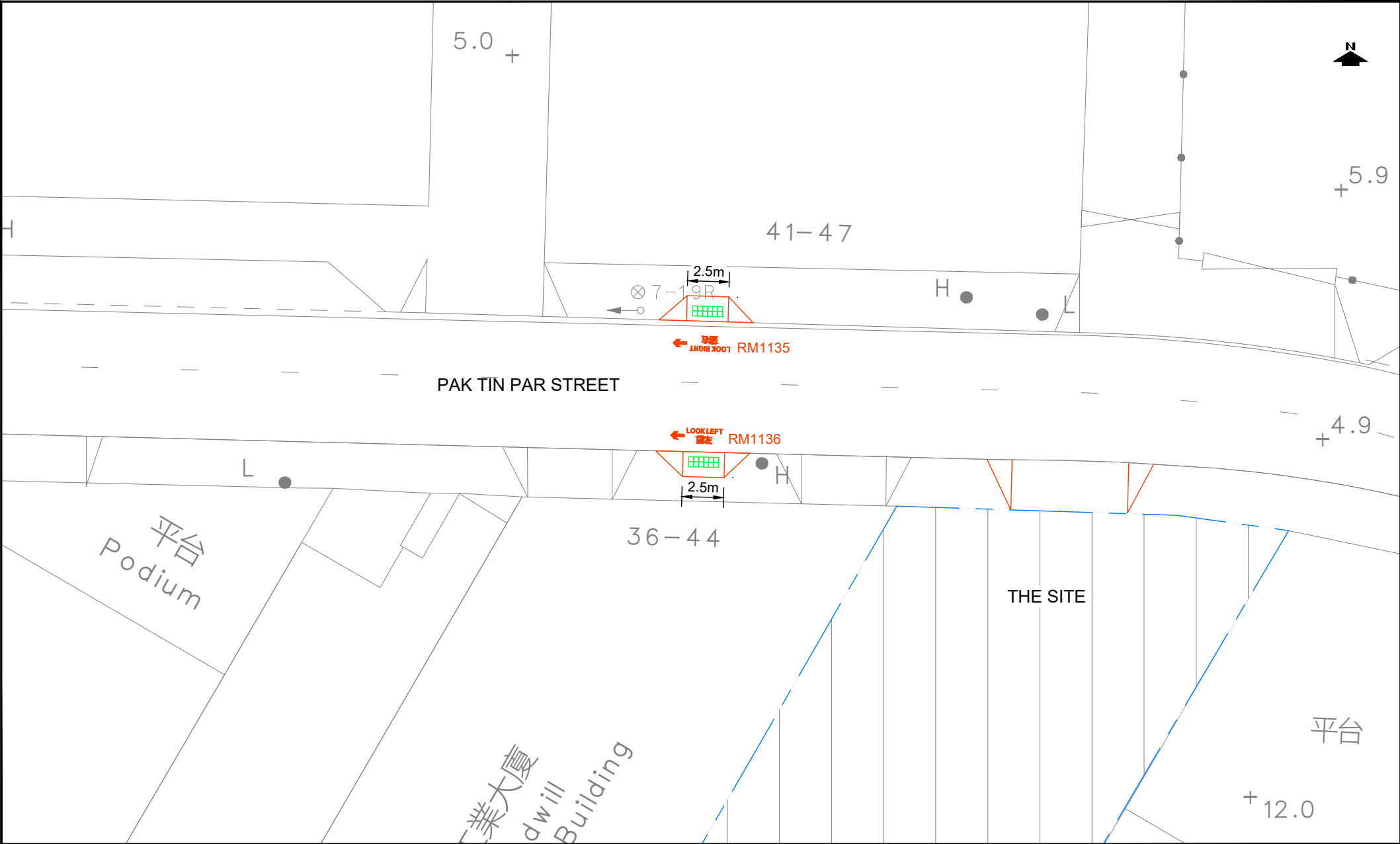
PROJECT NO. 40999		PROJECT TITLE APPLICATION FOR PLANNING PERMISSION UNDER SECTION 16 OF THE TOWN PLANNING ORDINANCE (CAP. 131) FOR PROPOSED HOTEL USE AND MINOR RELAXATION OF PLOT RATIO AND BUILDING HEIGHT RESTRICTIONS AT "OTHER SPECIFIED USES" ANNOTATED "BUSINESS" ZONE AT TSUN WAN INLAND LOT NO. 46 S.C, NOS. 46-48 PAK TIN PAR STREET, TSUEN WAN, NEW TERRITORIES		DRAWING NO. FIGURE 4.1	REV. B
DESIGNED SKL	DATE DEC 2025	DRAWING TITLE ADDITIONAL DEVELOPMENT PEAK HOUR TRAFFIC FLOW		LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE N.T.S.				
CHECKED SLN					



PROJECT NO. 40999		PROJECT TITLE APPLICATION FOR PLANNING PERMISSION UNDER SECTION 16 OF THE TOWN PLANNING ORDINANCE (CAP. 131) FOR PROPOSED HOTEL USE AND MINOR RELAXATION OF PLOT RATIO AND BUILDING HEIGHT RESTRICTIONS AT "OTHER SPECIFIED USES" ANNOTATED "BUSINESS" ZONE AT TSUN WAN INLAND LOT NO. 46 S.C, NOS. 46-48 PAK TIN PAR STREET, TSUEN WAN, NEW TERRITORIES		DRAWING NO. FIGURE 4.2	REV. B
DESIGNED SKL	DATE DEC 2025	DRAWING TITLE 2033 REFERENCE PEAK HOUR TRAFFIC FLOW		LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE N.T.S.				
CHECKED SLN					



PROJECT NO. 40999		PROJECT TITLE APPLICATION FOR PLANNING PERMISSION UNDER SECTION 16 OF THE TOWN PLANNING ORDINANCE (CAP. 131) FOR PROPOSED HOTEL USE AND MINOR RELAXATION OF PLOT RATIO AND BUILDING HEIGHT RESTRICTIONS AT "OTHER SPECIFIED USES" ANNOTATED "BUSINESS" ZONE AT TSUN WAN INLAND LOT NO. 46 S.C, NOS. 46-48 PAK TIN PAR STREET, TSUEN WAN, NEW TERRITORIES		DRAWING NO. FIGURE 4.3	REV. B
DESIGNED SKL	DATE DEC 2025	DRAWING TITLE 2033 DESIGN PEAK HOUR TRAFFIC FLOW		LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE N.T.S.				
CHECKED SLN					



PROJECT NO. 40999		PROJECT TITLE APPLICATION FOR PLANNING PERMISSION UNDER SECTION 16 OF THE TOWN PLANNING ORDINANCE (CAP. 131) FOR PROPOSED HOTEL USE AND MINOR RELAXATION OF PLOT RATIO AND BUILDING HEIGHT RESTRICTIONS AT "OTHER SPECIFIED USES" ANNOTATED "BUSINESS" ZONE AT TSUN WAN INLAND LOT NO. 46 S.C, NOS. 46-48 PAK TIN PAR STREET, TSUEN WAN, NEW TERRITORIES		DRAWING NO. FIGURE 5.1	REV. .
DESIGNED SKL	DATE DEC 2025	DRAWING TITLE PROPOSED CAUTIONARY CROSSING AT PAK TIN PAR STREET		LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE 1:300 @ A4				
CHECKED SLN					



PROJECT NO. 40999		PROJECT TITLE APPLICATION FOR PLANNING PERMISSION UNDER SECTION 16 OF THE TOWN PLANNING ORDINANCE (CAP. 131) FOR PROPOSED HOTEL USE AND MINOR RELAXATION OF PLOT RATIO AND BUILDING HEIGHT RESTRICTIONS AT "OTHER SPECIFIED USES" ANNOTATED "BUSINESS" ZONE AT TSUN WAN INLAND LOT NO. 46 S.C, NOS. 46-48 PAK TIN PAR STREET, TSUEN WAN, NEW TERRITORIES		DRAWING NO. FIGURE 5.2	REV. .
DESIGNED SKL	DATE DEC 2025	DRAWING TITLE COACH PICK - UP / SET - DOWN ARRANGEMENT AND VEHICLE WAITING AREA		LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE 1:300 @ A4				
CHECKED SLN					

Appendix A

Junction Calculation Sheets - Existing Scenario

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Amotated "Business" Zone at Tsun Wan Island Lot No. 46 S.C. Nos. 48-49 Pak Tin Par Street, Tsuen Wan, New Territories

J1 Castle Peak Road – Tsuen Wan / Tai Chung Road

2025 Existing AM

40999

Prepared By:	
Checked By:	

--	--

N	
SKL	

pV-25

J1

Castle Peak Road – Tsuen Wan / Tai Chung Road

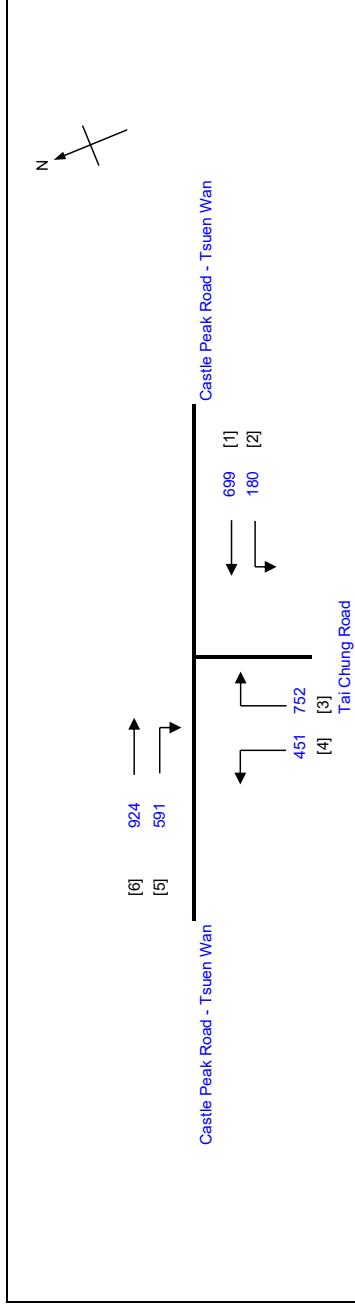
51

Reviewed By:

--	--

N	NTS
---	-----

W-25



Stage 1 G= 27 Int = 6 [6] → → [1] → [2]	Stage 2 G= 30 Int = 5 [6] → → [5] → →	Stage 3 G= 38 Int = 6 → → [4] [3]		
---	--	---	--	--

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m /lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
6 5	1,2 2	3.00 3.00	2 2			N	3970 4110		924 591	0.00 1.00	3970 3685									3970 3685	0.233 0.160		14	45 31	59 31	0.585 0.585	51 39	25 34
	1,2 1	3.40 3.20	1 2			N	1955 4150	180 613	266 613	0.68 0.00	1803 4150									1803 4150	0.148 0.148			28 28	28 28	0.585 0.585	36 42	38 35
4 3	2,3 3	3.00 3.00	2 2			N	3970 4110	451 752	451 752	1.00 1.00	3559 3685									3559 3685	0.127 0.204	0.204		24 39	70 39	0.585 0.585	30 45	38 29

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annulated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C., Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

2025 Existing PM

40999

Prepared By:

PROJECT NO.:	40999
--------------	-------

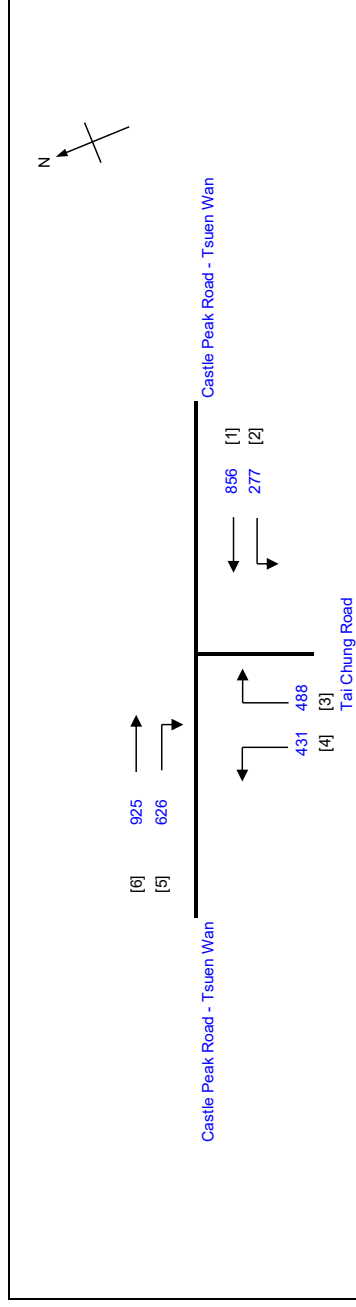
Prepared By:

PROJECT NO.:	40999
--------------	-------

SKL

5

J1	Castle Peak Road – Tsuen Wan / Tai Chung Road
----	---



No. of stages per cycle	N	3
Cycle time	C	122 sec
Sum(y)	Y	0.494
Loss time	L	14 sec
Total Flow		3603 pcu
Co	= $(1.5^*L+5)/(1-Y)$	51.3 sec
Cm	= $L/(1-Y)$	27.6 sec
Yult		0.795
R.C. ult	= $(Yult+Y)/Y^*100\%$	61.0 %
Cp	= $0.9^*L/(0.9-Y)$	31.0 sec
Ymax	= $1-L/C$	0.885
R.C.(C)	= $(0.9^*Ymax-Y)/Y^*100\%$	61 %

Stage 1 G= 41 Int = 6 [6] →	Stage 2 G= 36 Int = 5 [6] → [5] →	Stage 3 G= 28 Int = 6 [4] [3]	
--	--	--	--

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																	
6	1,2	3.00	2			N	3970		925	925	0.00	3970						3970	0.233		14	51	79	0.558	54	25	
5	2	3.00	2	13			4110		626	626	1.00	3685						3685	0.170	0.170		37	37	0.558	42	34	
1,2	1	3.40	1	12		N	1955	277	339	62	0.82	1774						1774	0.191			42	42	0.558	42	33	
1	1	3.20	2				4150	794	794	794	0.00	4150						4150	0.191	0.191		42	42	0.558	51	31	
4	2,3	3.00	2	13		N	3970	431	431	431	1.00	3559						3559	0.121			26	66	0.558	33	41	
3	3	3.00	2	13			4110		488	488	1.00	3685						3685	0.132	0.132		29	29	0.558	36	39	

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

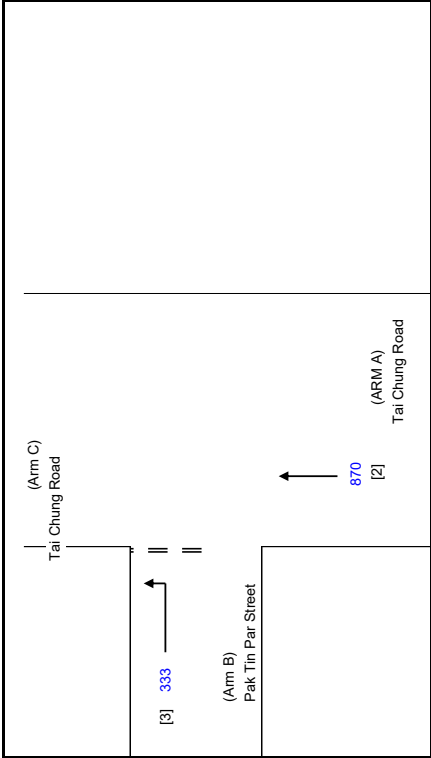
SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED		PRIORITY JUNCTION CALCULATION			INITIALS	DATE
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories		2025 Existing AM		PROJECT NO.: 40999	PREPARED BY:	Nov-25
				FILENAME.: J2_TCR_PTP	CHECKED BY:	Nov-25
				REFERENCE NO.:	REVIEWED BY:	Nov-25
J2	Tai Chung Road / Pak Tin Par Street					



NOTES : (GEOMETRIC INPUT DATA)

- W = MAJOR ROAD WIDTH
- W cr = CENTRAL RESERVE WIDTH
- W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
- W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
- W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
- Vr b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
- Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
- Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
- D = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
- D = STREAM-SPECIFIC B-A
- E = STREAM-SPECIFIC B-C
- F = STREAM-SPECIFIC C-B
- Y = (1-0.0345W)

GEOMETRIC DETAILS:

MAJOR ROAD (ARM A)

W = 20.00 (metres)
W cr = 3.4 (metres)
q a-b = 0 (pcu/hr)
q a-c = 870 (pcu/hr)

MAJOR ROAD (ARM C)

W c-b = 0.00 (metres)
Vr c-b = 0 (metres)
q c-a = 0 (pcu/hr)
q c-b = 0 (pcu/hr)

MINOR ROAD (ARM B)

W b-a = 0.00 (metres)
W b-c = 4.50 (metres)
Vr b-a = 0 (metres)
Vr b-c = 40 (metres)
q b-a = 0 (pcu/hr)
q b-c = 333 (pcu/hr)

THE CAPACITY OF MOVEMENT :

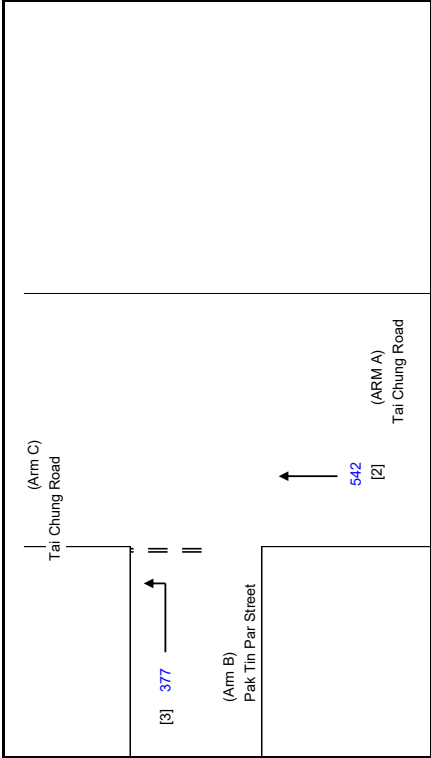
Q b-a = 307
Q b-c = 648
Q c-b = 379
Q b-ac = 648
TOTAL FLOW = 1203 (PCU/HR)

COMPARISON OF DESIGN FLOW TO CAPACITY:

DFC b-a = 0.0000
DFC b-c = 0.5139
DFC c-b = 0.0000
DFC b-c (share lane) = 0.5139

CRITICAL DFC = 0.51

LLA CONSULTANCY LIMITED		PRIORITY JUNCTION CALCULATION			INITIALS	DATE
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories		2025 Existing PM		PROJECT NO.: 40999	PREPARED BY:	Nov-25
				FILENAME.: J2_TCR_PTP	CHECKED BY:	Nov-25
				REFERENCE NO.:	REVIEWED BY:	Nov-25
J2	Tai Chung Road / Pak Tin Par Street					



NOTES : (GEOMETRIC INPUT DATA)

- W = MAJOR ROAD WIDTH
- W cr = CENTRAL RESERVE WIDTH
- W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
- W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
- W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
- Vl b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
- Vr b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
- Vl b-c = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-c
- Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
- Vl c-b = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM c-b
- D = STREAM-SPECIFIC B-A
- E = STREAM-SPECIFIC B-C
- F = STREAM-SPECIFIC C-B
- Y = (1-0.0345W)

GEOMETRIC DETAILS:

MAJOR ROAD (ARM A)					
W	=	20.00	(metres)		
W cr	=	3.4	(metres)		
q a-b	=	0	(pcu/hr)		
q a-c	=	542	(pcu/hr)		
MAJOR ROAD (ARM C)					
W c-b	=	0.00	(metres)		
Vr c-b	=	0	(metres)		
q c-a	=	0	(pcu/hr)		
q c-b	=	0	(pcu/hr)		
MINOR ROAD (ARM B)					
W b-a	=	0.00	(metres)		
W b-c	=	4.50	(metres)		
Vl b-a	=	0	(metres)		
Vr b-a	=	0	(metres)		
Vr b-c	=	40	(metres)		
q b-a	=	0	(pcu/hr)		
q b-c	=	377	(pcu/hr)		

GEOMETRIC FACTORS :

D	=	0.53322
E	=	1.00215
F	=	0.58595
Y	=	0.31000
F for (Qb-ac)	=	1

THE CAPACITY OF MOVEMENT :

Q b-a	=	327		
Q b-c	=	685	Q b-c (O) =	685
Q c-b	=	401		
Q b-ac	=	685		
TOTAL FLOW	=	919	(PCU/HR)	

COMPARISON OF DESIGN FLOW TO CAPACITY:

DFC b-a	=	0.0000
DFC b-c	=	0.5504
DFC c-b	=	0.0000
DFC b-c (share lane)	=	0.5504

CRITICAL DFC = 0.55

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annulated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C., Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

2025 Existing AM

40999

Prepared By:

SKL

Nov-25

J3 Tai Chung Road / Sha Tsui Road

2025 Existing AM

Checked By:	
-------------	--

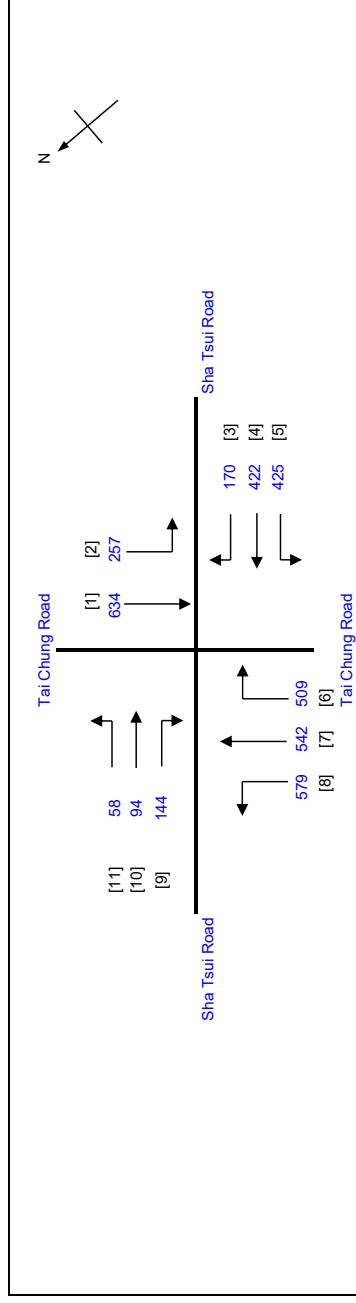
NTS	
-----	--

Nov-25

Reviewed By

NS	
----	--

Nov-25



No. of stages per cycle	N =	4
Cycle time	C =	112 sec
Sum(y)	Y =	0.488
Loss time	L =	19 sec
Total Flow	=	3409 pcu
Co	= $(1.5 \cdot L + 5) / (1 - Y)$	65.5 sec
Cm	= $L / (1 - Y)$	37.1 sec
Yult	=	0.758
R.C.ult	= $(Yult - Y) / Y * 100\%$	55.1 %
Cp	= $0.9 \cdot L / (0.9 - Y)$	41.5 sec
Ymax	= $1 - L/C$	0.830
R.C.(C)	= $(0.9 \cdot Ymax - Y) / Y * 100\%$	53 %

Stage 1 G = 14 Int = 7	Stage 2 G = 27 Int = 8	Stage 3 G = 20 Int =	Stage 4 G = 29 Int = 7
--	--	--	--

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
10,11 9,10	1	3.40	1	8		N	1955	58	88	146	0.40	1819							1819	0.080		19	15	15	0.588	18	50	
	1	3.20	1	13			2075		6	150	0.96	1868							1868	0.080	0.080			15	15	0.588	24	50
2 1	2,3	3.00	2	12		N	3970	257		257	1.00	3529							3529	0.073			47	47	0.588	21	47	
	3	3.00	3				6165		634	634	0.00	6165							6165	0.103			20	20	0.588	32	40	
4 3,4	2	3.80	1				2135		310	310	0.00	2135							2135	0.145			28	28	0.588	42	38	
	2	3.00	1	15			2055		112	282	0.60	1938							1938	0.145	0.145		28	28	0.588	36	38	
8 7	1,3,4	3.10	1	20		N	1925	579		579	1.00	1791							1791	0.323			65	65	0.588	48	17	
	3,4	3.10	1				2065		542	542	0.00	2065							2065	0.262	0.262		50	50	0.588	54	23	
6	4	3.10	2	12			4130			509	1.00	3671							3671	0.139			26	30	0.588	36	37	

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

2025 Existing PM

PROJECT NO.:	40999
FILE NAME:	13 TC

Prepared By:	
Checked By:	

1

Prepared By:	
Checked By:	

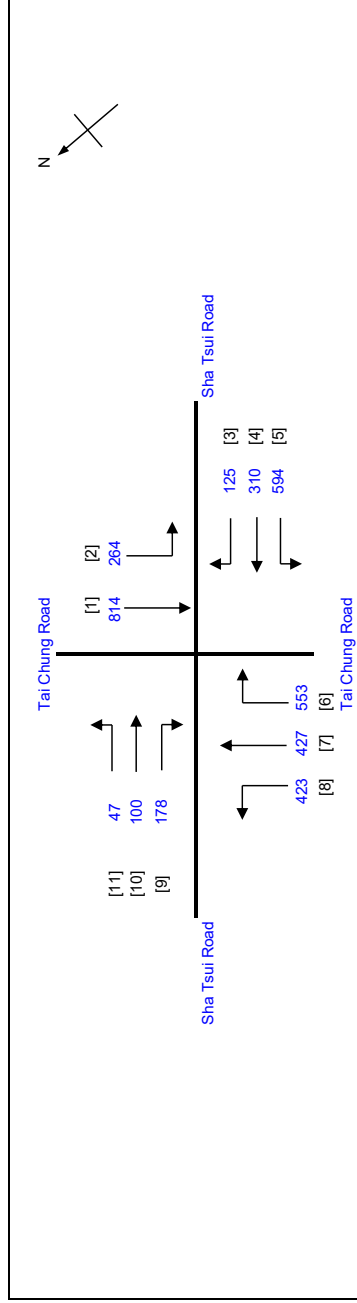
Prepared By:	
Checked By:	

Prepared By:	
Checked By:	

Prepared By:	
Checked By:	

Prepared By:	
Checked By:	

Prepared By:	
Checked By:	



Stage 1 G = 19 Int = 7	Stage 2 G = 21 Int = 5	Stage 3 G = 26 Int = 5	Stage 4 G = 30 Int = 7
--	--	--	--

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m /lane)	Average Delay (seconds)
10,11 9,10	1	3.40	1	8		N	1955	47	100	147	0.32	1844								1844	0.080		20	16	20	0.582	24	53
	1	3.20	1	13			2075		178	178	1.00	1860								1860	0.096	0.096			20	20	0.582	24
2 1	2,3	3.00	2	12		N	3970	264		264	1.00	3529								3529	0.075			15	49	0.582	21	49
	3	3.00	3				6165		814	814	0.00	6165								6165	0.132	0.132		27	27	0.582	40	39
4 3,4	2	3.80	1				2135	228		228	0.00	2135								2135	0.107			22	22	0.582	36	46
	2	3.00	1	15			2055		125	207	0.60	1938								1938	0.107	0.107		22	22	0.582	30	47
8 7	1,3,4	3.10	1	20		N	1925	423		423	1.00	1791								1791	0.236			49	78	0.582	48	28
	3,4	3.10	1				2065		427	427	0.00	2065								2065	0.207			43	58	0.582	54	31
6	4	3.10	2	12			4130		553	553	1.00	3671								3671	0.151	0.151		31	31	0.582	39	37

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at 'Other Specified Uses' Annotated 'Business' Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

2025 Existing AM

6660

Prepared By:

Prepared By:

Prepared By:

INITIALS

DATE _____

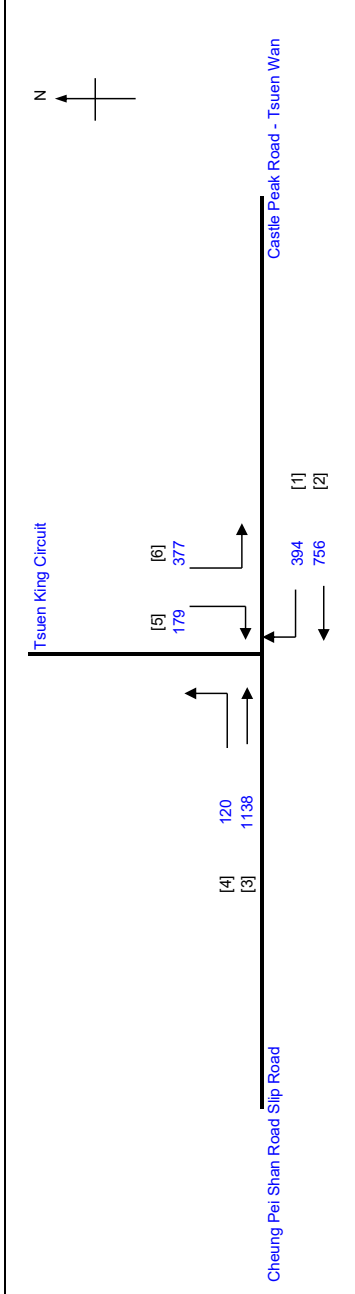
Nov-25

Nov-25

Nov-25

Nov-25

J4 Castle Peak Road – Tsuen Wan / Tsuen King Circuit



No. of stages per cycle	N =	3
Cycle time	C =	112 sec
Sum(y)	Y =	0.423
Loss time	L =	29 sec
Total Flow	=	2964 pcu
Co	= $(1.5 \cdot L + 5) / (1 - Y)$	84.1 sec
Co	= $L / (1 - Y)$	50.3 sec
Y _{ult}	=	0.683
R.C. _{ult}	= $(Y_{ult} - Y) / Y \cdot 100\%$	61.2 %
Cp	= $0.9 \cdot L / (0.9 - Y)$	54.8 sec
Y _{max}	= $1 - L / C$	0.741
R.C.(C)	= $(0.9 \cdot Y_{max} - Y) / Y \cdot 100\%$	58 %

				Stage 1 G= 36 Int = 11
Stage 2 G= 28 Int = 7	Stage 3 G= 17 Int = 14			

Pedestrian Phase	Stage	Green Time Required			Green Time Provided	
		SG	FG	Delay	SG	FG
P1	2	5	6	2	27	6
P2	1,2	5	13	0	68	13
P3	2,3	5	13	6	46	13
P4	1,3	5	8	0	69	8
P5	1,3	5	13	0	64	13

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
1 2	1 1	3.65 3.40	3 2	33			6360 4050		394 756	394 756	1.00 0.00	6083 4050							6083 4050	0.065 0.187		29	13 37	37 37	0.571 0.571	20 45 30		
	3,4 3	3.60 3.60	1 3	48		N	1975 6345	120 971	287 971	287 971	0.42 0.00	1950 6345	12	248					1950 6593	0.147 0.147	0.147		29 29	29 29	0.571 0.571	36 44	37 34	
6 5,6	3 3	3.00 3.40	2 1	15 50		N	3970 2095	374 3	374 179	374 182	1.00 1.00	3609 2034	18	600					4209 2034	0.089 0.089	0.089		18 18	18 18	0.571 0.571	0 24 46		

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at 'Other Specified Uses' Anticipated 'Business' Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Street, Tsuen Wan, New Territories		2025 Existing AM		PROJECT NO.: 40999	Prepared By:	SKL	Nov-25
J5 Castle Peak Road – Tsuen Wan / Sai Lau Kok Road				FILENAME: J5_CPRTW_SLKR.xlsx	Checked By:	SLN	Nov-25
					Reviewed By:	SLN	Nov-25

J5 Castle Peak Road – Tsuen Wan / Sai Lau Kok Road

PROJECT NO.:	40999	Prepared By:	SKL	Nov-25
FILENAME :	J5_CPRTW_SLKR.xlsx	Checked By:	SLN	Nov-25
		Reviewed By:	SLN	Nov-25

2025 Existing AM

PROJECT NO.:	40333	Prepared By:
FILENAME:	J5 CPRTW SLKR.xlsx	Checked By:

Prepared By:	SLN
Checked By:	SLN

Checked By:	
Repaired By:	

Checked By:	
Repaired By:	

SLN	Nov-25
Nov-25	

SLN	Nov-25
Nov-25	

SLN	Nov-25
Nov-25	

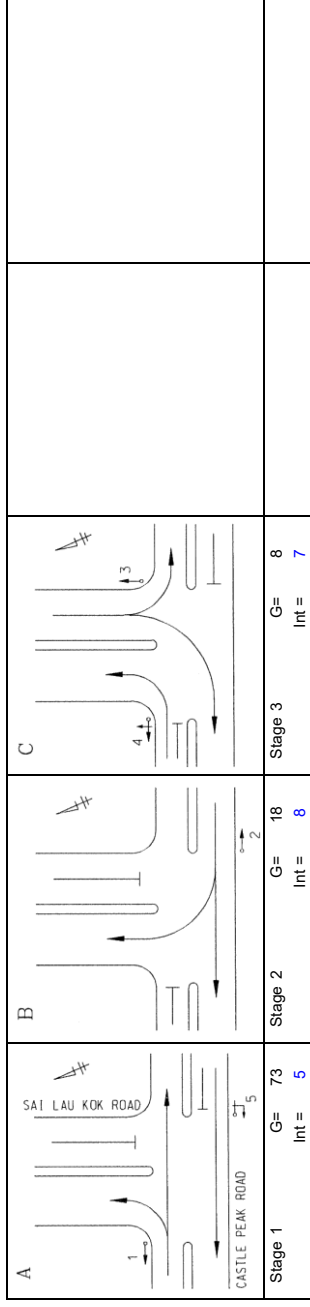
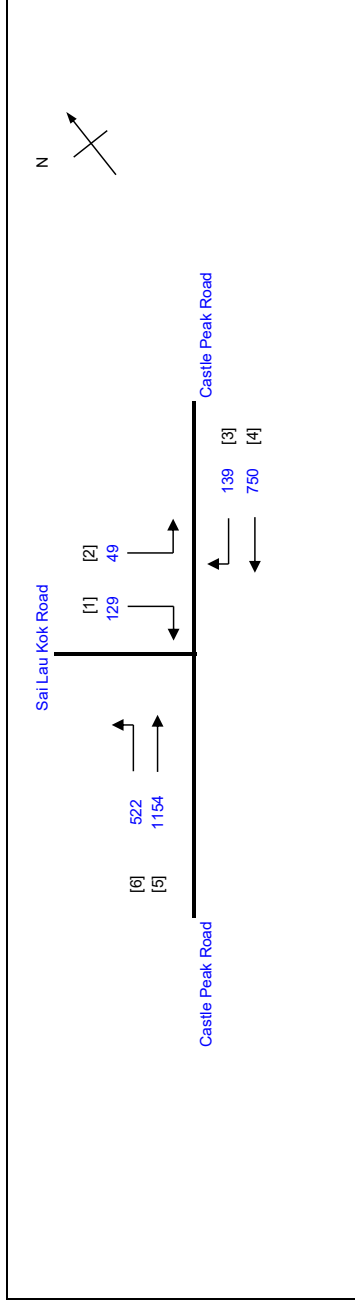
SLN	Nov-25
Nov-25	

SLN	Nov-25
Nov-25	

SLN	Nov-25
Nov-25	

SLN	Nov-25
Nov-25	

SLN	Nov-25
Nov-25	



Movement	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight-Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m /lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
6	1,3	3.00	2	12		N	3970	522	522	522	1.00	3529								3529	0.148		17	39	84	0.454	33	30
5	1	3.00	2				4110	1154	1154	1154	0.00	4110								4110	0.281	0.281		74	74	0.454	42	11
4	1,2	3.00	3			N	6025	750	750	750	0.00	6025								6025	0.124			33	94	0.454	36	33
3	2	3.00	1	17			2055	139		139	1.00	1888								1888	0.074	0.074		19	19	0.454	18	45
2	3	3.60	1	20		N	1975	49	49	49	1.00	1837								1837	0.027			7	9	0.454	6	62
1,2	3	3.60	1	10			2115	65	65	65	1.00	1839								1839	0.035	0.035		9	9	0.454	12	57
1	3	3.60	1	10			2115	64	64	64	1.00	1839								1839	0.035			9	9	0.454	12	57

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses Annotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories		2025 Existing PM		PROJECT NO.: 40999	Prepared By:	Nov-25
J5 Castle Peak Road – Tsuen Wan / Sai Lau Kok Road				FILENAME: J5_CPRTW_SLKR.xlsx	Checked By:	Nov-25
					Reviewed By:	Nov-25

J5 Castle Peak Road – Tsuen Wan / Sai Lau Kok Road

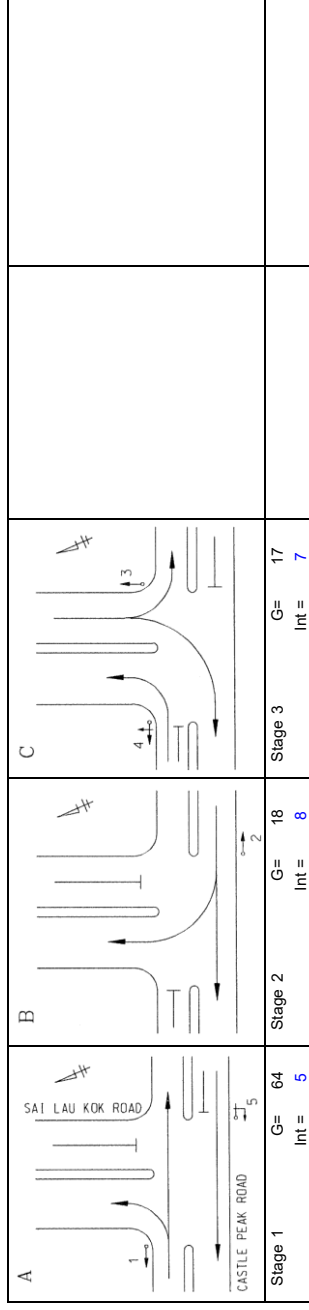
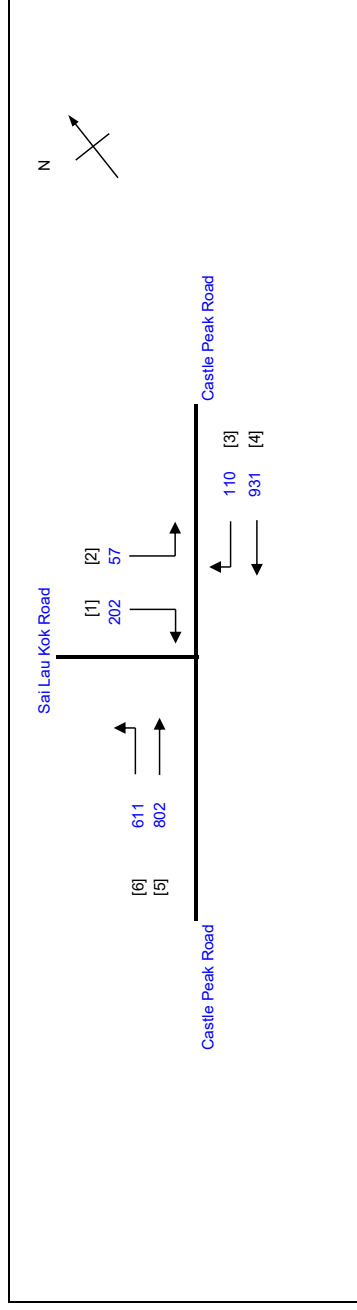
PROJECT NO.:	40999	Prepared By:	SKL	Nov-25
FILENAME :	J5_CPRTW_SLKR.xlsx	Checked By:	SLN	Nov-25
		Reviewed By:	SLN	Nov-25

PROJECT NO.:	40999	Prepared By:	SKL	Nov-25
FILENAME :	J5_CPRTW_SLKR.xlsx	Checked By:	SLN	Nov-25
		Reviewed By:	SLN	Nov-25

PROJECT NO.:	40999	Prepared By:	Nov-25
FILENAME :	J5_CPRTW_SLKR.xlsx	Checked By:	Nov-25
		Reviewed By:	Nov-25

PROJECT NO.:	40999	Prepared By:	SKL	Nov-25
FILENAME :	J5_CPRTW_SLKR.xlsx	Checked By:	SLN	Nov-25
		Reviewed By:	SLN	Nov-25

PROJECT NO.:	40999	Prepared By:	Nov-25
FILENAME :	J5_CPRTW_SLKR.xlsx	Checked By:	Nov-25
		Reviewed By:	Nov-25



Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
6	1,3	3.00	2	12		N	3970	611		611	1.00	3529								3529	0.173		17	58	84	0.359	30	18
5	1	3.00	2				4110		802		0.00	4110								4110	0.195	0.195		65	65	0.359	36	14
4	1,2	3.00	3			N	6025		931		0.00	6025								6025	0.155			52	85	0.359	34	21
3	2	3.00	1	17			2055			110	1.00	1888								1888	0.058	0.058		19	19	0.359	18	43
2	3	3.60	1	20		N	1975	57		57	1.00	1837								1837	0.031			10	18	0.359	6	52
1,2	3	3.60	1	10			2115	0		101	1.00	1839								1839	0.055	0.055		18	18	0.359	12	44
1	3	3.60	1	10			2115			101	1.00	1839								1839	0.055			18	18	0.359	12	44

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION			
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annulated Business Zone at Tsuen Wan Island Lot No. 40 S.C. Nos. 40-46 Pak Tin Far Street, Tsuen Wan, New Territories				PROJECT NO.: 40999			
J6 Castle Peak Road - Tsuen Wan / Tai Ho Road				FILENAME: J6_CPRTW_THR.xlsx			
				Prepared By:			
				Checked By:			
				Reviewed By:			
				INITIALS			
				DATE			
				Nov-25			
				Nov-25			
				Nov-25			

				No. of stages per cycle Cycle time Sum(y) Loss time Total Flow Co Cm Yult R.C.ult Cp Ymax			
N = 4 C = 120 sec Y = 0.386 L = 25 sec = 3240 pcu = 69.3 sec = 40.7 sec = 0.713 = 84.4 % = 43.8 sec = 0.792				R.C.(C) = (0.9*Ymax-Y)*100% = 84 %			

				Pedestrian Phase Stage Green Time Required SG FG Delay Green Time Provided SG FG			

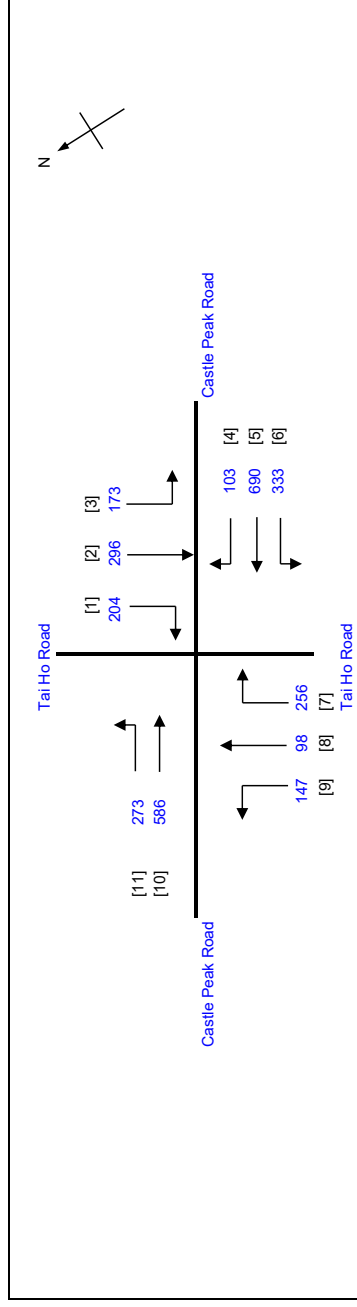
Move-ment	Stage	Lane Width m.	No. of lane	N	O	Radius m.	Straight-Ahead Sat. Flow	Movement		Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m /lane)	Average Delay (seconds)
10,11	1	3.50	1	N		12	1965	Left	74	346	0.79	1789		225					1789	0.193	0.193	25	48	48	0.488	36	27
10	1	3.50	2				4210	Right	857	857	0.00	4210	18						4435	0.193			48	48	0.488	51	25
6	1,2,4	3.65	1	N		70	1980	Left	304	304	1.00	1938	30	243					2181	0.139	0.139		34	74	0.488	42	35
5	1,2	3.65	2				4240	Right	548	548	0.00	4240	18	196					4436	0.124	0.124		30	55	0.488	39	36
4	2	3.65	1			20	2120	Left	63	63	1.00	1972							1972	0.032	0.032		8	8	0.488	12	61
3	3	3.30	1	N		11	1945	Left	120	120	1.00	1712							1712	0.070	0.070		17	21	0.488	18	49
2	3	3.30	1				2085	Right	176	176	0.00	2085							2085	0.084	0.084		21	21	0.488	24	45
1,2	3	3.30	1			24	2085	Left	118	171	0.31	2045							2045	0.084	0.084		21	21	0.488	24	45
1	3	3.30	1			24	2085	Right	164	164	1.00	1962							1962	0.084	0.084		21	21	0.488	24	45
8,9	4	3.50	1	N		28	1965	Left	124	144	0.86	1878							1878	0.077	0.077		19	19	0.488	24	47
7,8	4	3.50	1			22	2105	Right	74	197	0.62	2019	18	568					2587	0.076	0.076		19	19	0.488	30	45
7	4	3.50	1			22	2105	Left	150	150	1.00	1971							1971	0.076	0.076		19	19	0.488	24	47

NOTE :				O - OPPOSING TRAFFIC	N - NEAR SIDE LANE	SG - STEADY GREEN	FG - FLASHING GREEN	PEDESTRAIN WALKING SPEED = 1.2m/s				QUEUEING LENGTH = AVERAGE QUEUE * 6m			
--------	--	--	--	----------------------	--------------------	-------------------	---------------------	-----------------------------------	--	--	--	--------------------------------------	--	--	--

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Anticulated "Business Zone" at Tsun Wan Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories		2025 Existing PM		PROJECT NO. : 40999	Prepared By:	Nov-25
J6 Castle Peak Road - Tsuen Wan / Tai Ho Road				FILENAME : J6_CPRTW_THR.xlsx	Checked By:	Nov-25
					Reviewed By:	Nov-25



	Stage 1 G= 37 Int = 6
	Stage 2 G= 12 Int = 6
	Stage 3 G= 24 Int = 10
	Stage 4 G= 18 Int = 7

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
10,11 10	1	3.50	1	12		N	1965	273	0	273	1.00	1747							1747	0.156	0.156	25	38	38	0.491	36	33	
	1	3.50	2				4210	586	586	586	0.00	4210	18	284					4494	0.130	0.130			32	38	0.491	42	35
6 5	1,2,4 1,2	3.65	1	70		N	1980	333		333	1.00	1938	30	257					2195	0.152	0.152		37	70	0.491	42	33	
		3.65	2				4240	690	690	690	0.00	4240	18	212					4452	0.155	0.155		38	51	0.491	45	31	
4	2	3.65	1	20			2120			103	1.00	1972							1972	0.052	0.052		13	13	0.491	18	53	
3	3	3.30	1	11		N	1945	173		173	1.00	1712							1712	0.101	0.101		25	25	0.491	24	42	
2	3	3.30	1				2085		171	171	0.00	2085							2085	0.082	0.082		20	25	0.491	24	45	
1,2	3	3.30	1	24			2085	168	125	168	0.26	2052							2052	0.082	0.082		20	25	0.491	24	45	
1	3	3.30	1	24			2085	161		161	1.00	1962							1962	0.082	0.082		20	25	0.491	24	46	
8,9 7,8	4	3.50	1	28		N	1965	147	0	147	1.00	1865							1865	0.079	0.079		19	19	0.491	24	47	
	4	3.50	1	22			2105	202	98	202	0.51	2034	18	568					2602	0.078	0.078		19	19	0.491	30	45	
7	4	3.50	1	22			2105	152		152	1.00	1971							1971	0.077	0.077		19	19	0.491	24	47	

NOTE : O - OPPOSING TRAFFIC
N - NEAR SIDE LANE
SG - STEADY GREEN
FG - FLASHING GREEN
PEDESTRAIN WALKING SPEED = 1.2m/s
QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 48 S.C. Nos. 48-48 Pak Tin Par Street, Tsuen Wan, New Territories

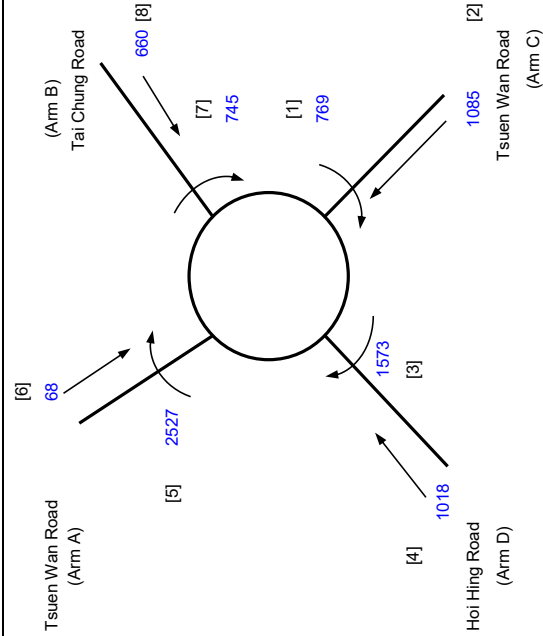
J7 Tai Chung Road / Hoi Hing Road

ROUNDAABOUT CALCULATION

2025 Existing AM

PROJECT NO.: 40999
FILENAME : J7_TCR_HHR.xls
REFERENCE NO.:

INITIALS DATE
SKL Nov-25
SLN Nov-25
SLN Nov-25



ARM

INPUT PARAMETERS:

	A	B	C	D
V = Approach half width (m)	5.40	6.90	6.60	6.50
E = Entry width (m)	8.20	7.60	10.50	15.00
L = Effective length of flare (m)	50.00	100.00	9.00	13.00
R = Entry radius (m)	15.00	100.00	65.00	20.00
D = Inscribed circle diameter (m)	60.00	60.00	60.00	60.00
A = Entry angle (degree)	30.00	35.00	23.00	43.00
Q = Entry flow (pcu/h)	68	660	1085	1018
Qc = Circulating flow across entry (pcu/h)	2527	745	769	1573

OUTPUT PARAMETERS:

S = Sharpness of flare = 1.6(E-V)/L	0.09	0.01	0.69	1.05
K = 1-0.00347(A-30)-0.978(1/R-0.05)	0.98	1.02	1.06	0.95
X2 = V + ((E-V)/(1+2S))	7.77	7.58	8.23	9.25
M = EXP((D-60)/10)	1	1	1	1
F = 303*X2	2356	2298	2495	2802
Td = 1+(0.5/(1+M))	1.25	1.25	1.25	1.25
Fc = 0.21*Td(1+0.2*X2)	0.67	0.66	0.69	0.75
Qe = K(F-Fc*Qc)	650	1845	2075	1552

DFC = Design flow/Capacity = Q/Qe

DFC of Critical Approach = 0.66

Total In Sum = 2831 PCU

LLA CONSULTANCY LIMITED

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 48 S.C. Nos. 48-48 Pak Tin Par Street, Tsuen Wan, New Territories

J7 Tai Chung Road / Hoi Hing Road

ROUNDAABOUT CALCULATION

2025 Existing PM

PROJECT NO.: 40999

FILENAME : J7_TCR_HHR.xls

REFERENCE NO.:

PREPARED BY:

CHECKED BY:

REVIEWED BY:

INITIALS

SKL

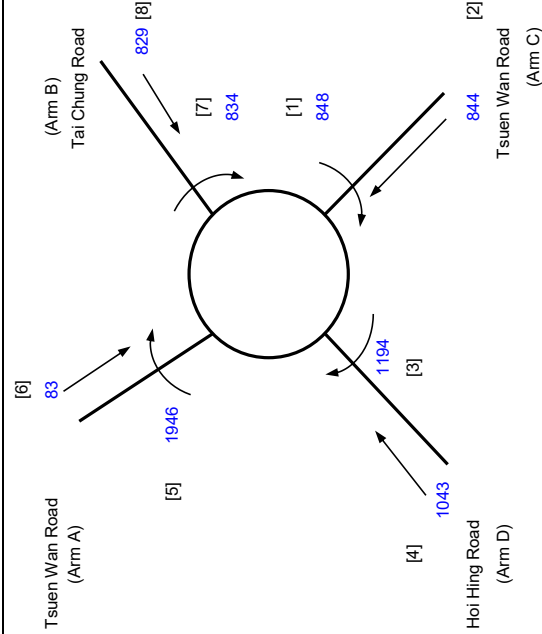
Nov-25

SUN

Nov-25

SUN

Nov-25



ARM

INPUT PARAMETERS:

	A	B	C	D
V = Approach half width (m)	5.40	6.90	6.60	6.50
E = Entry width (m)	8.20	7.60	10.50	15.00
L = Effective length of flare (m)	50.00	100.00	9.00	13.00
R = Entry radius (m)	15.00	100.00	65.00	20.00
D = Inscribed circle diameter (m)	60.00	60.00	60.00	60.00
A = Entry angle (degree)	30.00	35.00	23.00	43.00
Q = Entry flow (pcu/h)	83	829	844	1043
Qc = Circulating flow across entry (pcu/h)	1946	834	848	1194

OUTPUT PARAMETERS:

S = Sharpness of flare = 1.6(E-V)/L	0.09	0.01	0.69	1.05
K = 1-0.00347(A-30)-0.978(1/R-0.05)	0.98	1.02	1.06	0.95
X2 = V + ((E-V)/(1+2S))	7.77	7.58	8.23	9.25
M = EXP((D-60)/10)	1	1	1	1
F = 303*X2	2356	2298	2495	2802
Td = 1+(0.5/(1+M))	1.25	1.25	1.25	1.25
Fc = 0.21*Td(1+0.2*X2)	0.67	0.66	0.69	0.75
Qe = K(F-Fc*Qc)	1033	1785	2017	1823

DFC = Design flow/Capacity = Q/Qe

Total In Sum =

2799 PCU

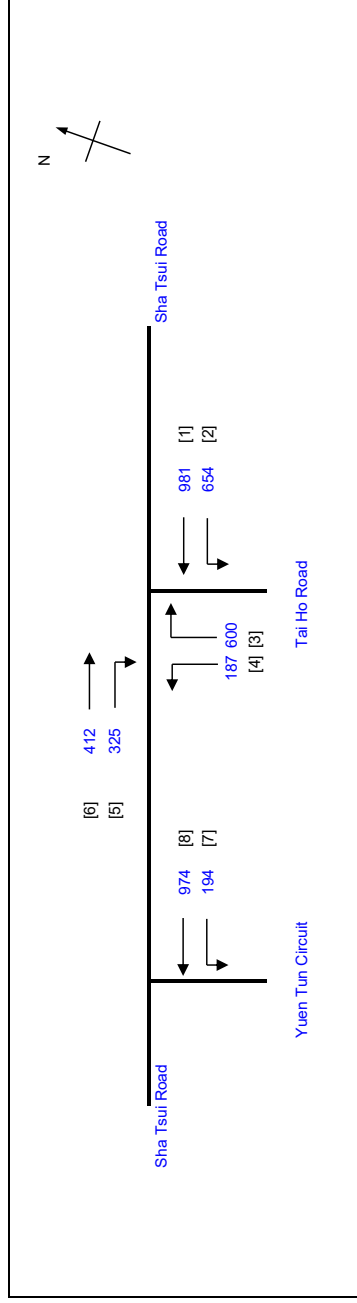
DFC of Critical Approach =

0.57

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories J8 Sha Tsui Road / Tai Ho Road (W)	2025 Existing AM			PROJECT NO.:	40999	Prepared By:	Nov-25
				FILENAME:	J8_STR_THRW.xlsx	Checked By:	Nov-25
						Reviewed By:	Nov-25



	Stage 1 G= 9 Int= 5
	Stage 2 G= 26 Int= 5
	Stage 3 G= 24 Int= 5
	Stage 4 G= 46 Int=

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m /lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
1,2 1	1,4	4.00	1	67		N	2015	654	0	654	1.00	1971	28	300					2271	0.288	0.288	12	56	56	0.618	66	24	
	1,4	4.00	2				4310	981	981		0.00	4310	28	300					4610	0.213	0.213			41	56	0.618	63	31
7,8 8	1,2	3.50	1	37		N	1965	194	166	360	0.54	1923	6	100					1923	0.187	0.187		36	36	0.618	48	37	
	1,2	3.50	2				4210	808	808	808	0.00	4210							4310	0.187	0.187		36	36	0.618	54	34	
6 5	1,2	3.50	2			N	4070	412	412	412	0.00	4070							4070	0.101	0.101		20	36	0.618	33	46	
	2	3.50	1	15			2105	325	325	325	1.00	1914	20	444					2358	0.138	0.138		27	27	0.618	48	43	
4 3	2,3	3.50	1	78		N	1965	187		187	1.00	1928							1928	0.097	0.097		19	52	0.618	30	51	
	3	3.50	2	20			4210	600	600	600	1.00	3916	28	672					4588	0.131	0.131		25	25	0.618	45	41	

NOTE : O - OPPOSING TRAFFIC
N - NEAR SIDE LANE
SG - STEADY GREEN
FG - FLASHING GREEN
PEDESTRIAN WALKING SPEED = 1.2m/s
QUEUEING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at 'Other Specified Uses' Annotated 'Business' Zone at Tsun Wan Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

PROJECT NO.:	40999
--------------	-------

Prepared By:

Nov-25

Nov-25

2025 Existing PM

PROJECT NO.:	40393
FILE NAME:	18 STR THRW v1sy

Prepared By:	
Checked By:	

Nov-25	
07-NOV	

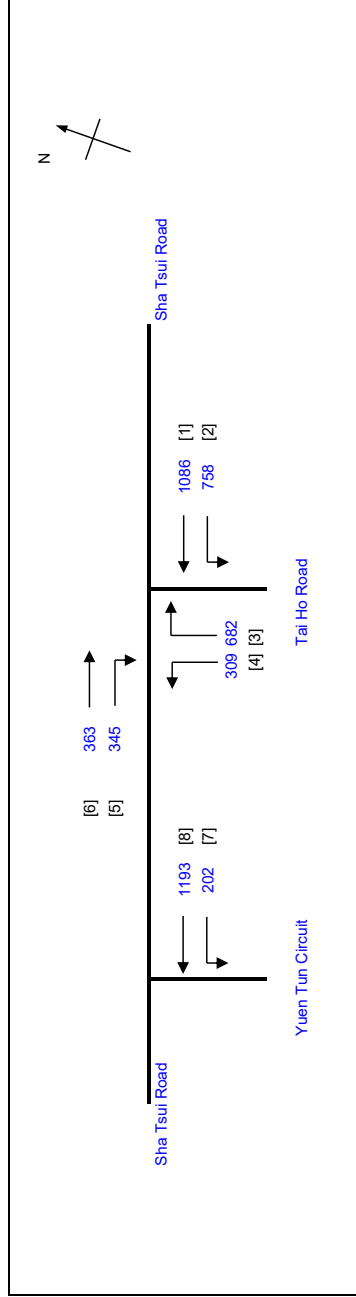
Nov-25	
07-NOV	

J8 Sha Tsui Road / Tai Ho Road (W)

Reviewed By:

Nov-25

Nov-25



	Stage 1	G = 13 Int = 5
	Stage 2	G = 24 Int = 5
	Stage 3	G = 25 Int = 5
	Stage 4	G = 44 Int =

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m /lane)	Average Delay (seconds)
1,2 1	1,4	4.00	1	67		N	2015	758	0	758	1.00	1971	28	290						2261	0.335	0.335	12	58	58	0.699	78	25
	1,4	4.00	2				4310	1086	1086		0.00	4310	28	290						4800	0.236	0.236		41	58	0.699	69	33
7,8 8	1,2	3.50	1	37		N	1965	202	229	431	0.47	1928								1928	0.224	0.224		38	38	0.699	54	38
	1,2	3.50	2				4210	964	964	964	0.00	4210	6	95						4305	0.224	0.224		38	38	0.699	63	35
6 5	1,2	3.50	2			N	4070	363	363	363	0.00	4070								4070	0.089	0.089		15	38	0.699	30	52
	2	3.50	1	15			2105	345	345	345	1.00	1914	20	480						2394	0.144	0.144		25	25	0.699	54	47
4 3	2,3	3.50	1	78		N	1965	309		309	1.00	1928								1928	0.160	0.160		28	50	0.699	42	47
	3	3.50	2	20			4210	682	682	682	1.00	3916	28	646						4562	0.149	0.149		26	26	0.699	51	43

NOTE: O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

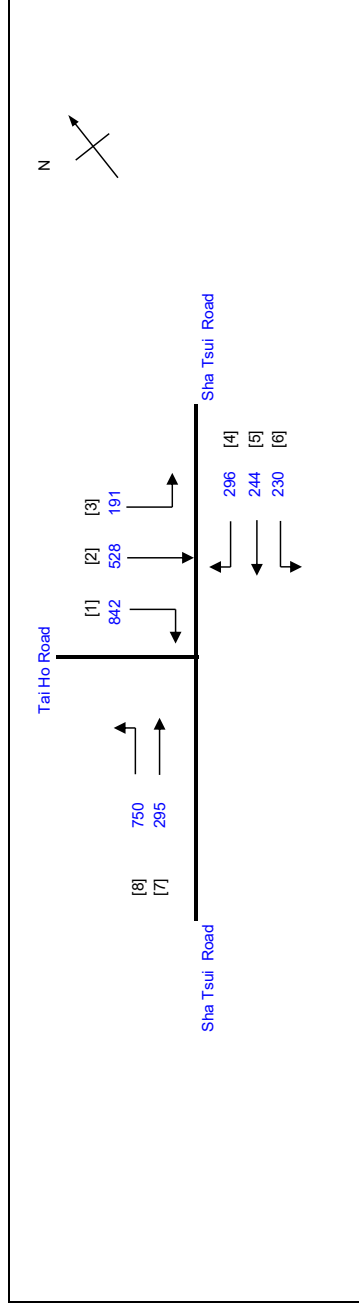
QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

[illegible]

		No. of stages per cycle N = 3
Cycle time C = 120 sec		
Sum(y) Y = 0.538		
Loss time L = 14 sec		
Total Flow = (1.5*L+5)/(1-Y) = 3376 pcu		
Co = 56.2 sec		
Cm = 30.3 sec		
Yult = 0.795		
R.C.ult = (Yult-Y)/Y*100% = 47.8 %		
Cp = 0.9*L/(0.9-Y) = 34.8 sec		
Ymax = 1-L/C = 0.883		
R.C.(C) = (0.9*Ymax-Y)/Y*100% = 48 %		



Pedestrian Phase	Stage	Green Time Required		Green Time Provided	
		SG	FG	SG	FG
P1	1	8	15	4	36
P2	1,3	5	9	5	64
P3	2,3	5	10	1	54
P4	2,3	5	9	0	56
P3	2	5	8	1	33

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m /lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
2,3	1	3.30	1	10		N	1945	191	320	511	0.37	1842	12	141					1983	0.258		14	51	51	0.609	54	27	
1,2	1	3.30	1	20			2085	208	342	550	0.62	1992	12	141					2133	0.258			51	51	0.609	60	27	
1	1	3.30	1	20			2085		500	500	1.00	1940							1940	0.258			51	51	0.609	54	27	
8	1,3	3.50	1	45		N	1965	750		750	1.00	1902	12	97					1999	0.375	0.375		74	74	0.609	54	15	
5,6	2,3	3.40	1	65		N	1955	230	244	474	0.49	1933							1933	0.245			55	55	0.609	54	29	
4	2	3.40	1	10			2095			296	1.00	1822							1822	0.162	0.162		32	32	0.609	42	40	
7	3	3.50	2				4210	295	295	295	0.00	4210							4210	0.070			23	23	0.609	24	51	

NOTE : O - OPPOSING TRAFFIC
N - NEAR SIDE LANE
SG - STEADY GREEN
FG - FLASHING GREEN
PEDESTRIAN WALKING SPEED = 1.2m/s
QUEUEING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at Other Specified Uses Amotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

2025 Existing PM

40999

HR YUR.XLSX

Prepared By:

11

Prepared By:	
Checked By:	
Reviewed By:	

SKL

SKL

SKL

SKL

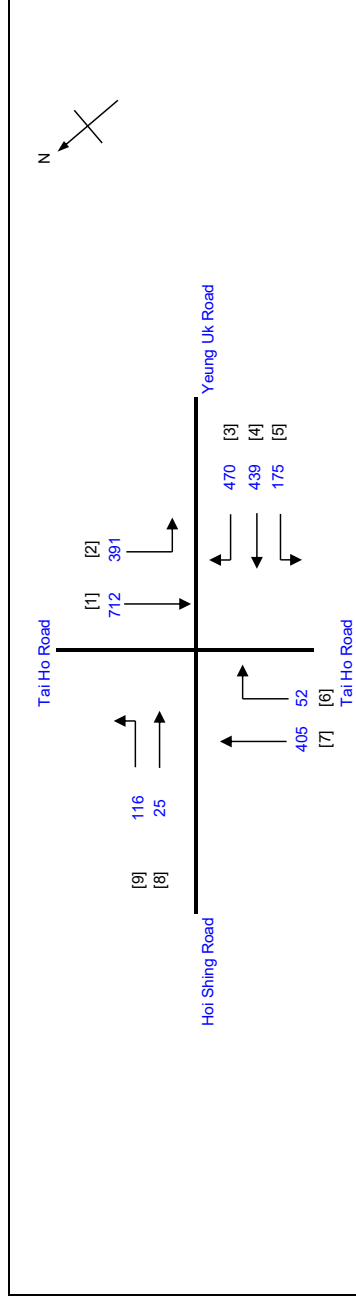
SKL

SKL

SKL

SKL

J10 Tai Ho Road / Yeung Uk Road



No. of stages per cycle	N =	4
Cycle time	C =	120 sec
Sum(y)	Y =	0.573
Loss time	L =	22 sec
Total Flow	=	2785 pcu
Co	= $(1.5L+5)/(1-Y)$	89.1 sec
Cm	= $L/(1-Y)$	51.6 sec
Yult	=	0.735
R.C.ult	= $(Yult-Y)/Y*100\%$	28.2 %
Cp	= $0.9L/(0.9-Y)$	60.6 sec
Ymax	= $1-L/C$	0.817
R.C.(C)	= $(0.9*Ymax-Y)/Y*100\%$	28 %

A YUNG LUK ROAD HOI SHING ROAD	B 9	C 9	D 9	<table><tr><th>Stage 1</th><th>Stage 2</th><th>Stage 3</th><th>Stage 4</th></tr><tr><td>G = 28 Int = 7</td><td>G = 20 Int = 8</td><td>G = 11 Int = 6</td><td>G = 35 Int = 5</td></tr></table>	Stage 1	Stage 2	Stage 3	Stage 4	G = 28 Int = 7	G = 20 Int = 8	G = 11 Int = 6	G = 35 Int = 5
Stage 1	Stage 2	Stage 3	Stage 4									
G = 28 Int = 7	G = 20 Int = 8	G = 11 Int = 6	G = 35 Int = 5									

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
2 1	1,4 1	3.40	2	16		N	4050	391		391	1.00	3703								3703	0.106		22	18	65	0.702	33	50
		3.40	2		4190	712		712	0.00	4190	0.170		29	0.702	51	41												
7 6	2 2	3.30	2			N	4030	405		405	0.00	4030		-806	0.8				3224	0.126	0.126		21	21	0.702	33	48	
		3.30	2	18			4170		52		52	1.00	3849		-770	0.8			3079	0.017			3	21	0.702	6	104	
9 8	3 3	3.65	1	10		N	1980	116		116	1.00	1722							1722	0.067	0.067		12	12	0.702	24	70	
		3.65	1		2120	25		25	0.00	2120	0.012		2	0.702	6	160												
5 4,5	4 4	3.30	1	17		N	1945	175		175	1.00	1787							1787	0.098	0.211		17	36	0.702	30	60	
		3.30	1		2085	0	439	0.00	2085	0.211		36	0.702	60	40													
3	4	3.30	2	21			4170	470	470	470	1.00	3892						3892	0.121			21	36	0.702	36	48		

NOTE: O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

QUEUING LENGTH = AVERAGE QUEUE * 6m

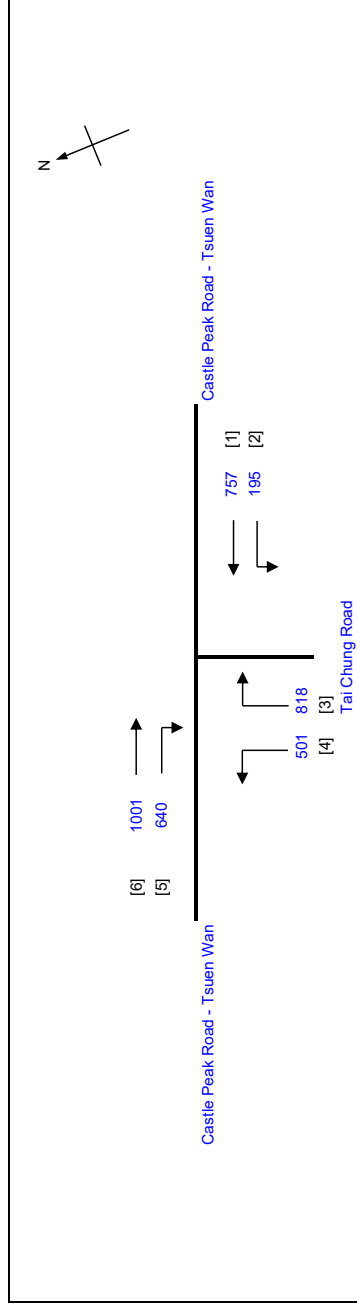
Appendix B

Junction Calculation Sheets - Reference & Design Scenarios

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

J1	Castle Peak Road – Tsuen Wan / Tai Chung Road	Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at 'Other Specified Uses' Annotated 'Business' Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories	2033 Reference AM	PROJECT NO.: 40999 FILENAME: J1_CPRTW_TCR.xlsx	Prepared By: Checked By: Reviewed By:	SKL SLN SLN	Dec-25 Dec-25 Dec-25
----	---	--	---------------------------------	--	--	----------------------------------	---



[6] →	[6] → [5] →	[1] → [2] →	Stage 1 G= 27 Int= 6
[6] → [5] →	[6] → [5] →	[1] → [2] →	Stage 2 G= 30 Int= 5
[6] → [5] →	[6] → [5] →	[1] → [2] →	Stage 3 G= 38 Int= 6

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
6 5	1,2 2	3.00 3.00	2 2			N	3970 4110		1001 640	0.00 1.00	3970 3685									3970 3685	0.252 0.174		14	44 31	59 31	0.635 0.635	54 42	26 35
	1,2 1	3.40 3.20	1 2			N	1955 4150		288 664	0.68 0.00	1802 4150									1802 4150	0.160 0.160			28 28	28 28	0.635 0.635	36 45	40 36
4 3	2,3 3	3.00 3.00	2 2			N	3970 4110		501 818	1.00 1.00	3559 3685									3559 3685	0.141 0.222			25 39	70 39	0.635 0.635	36 48	39 30

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

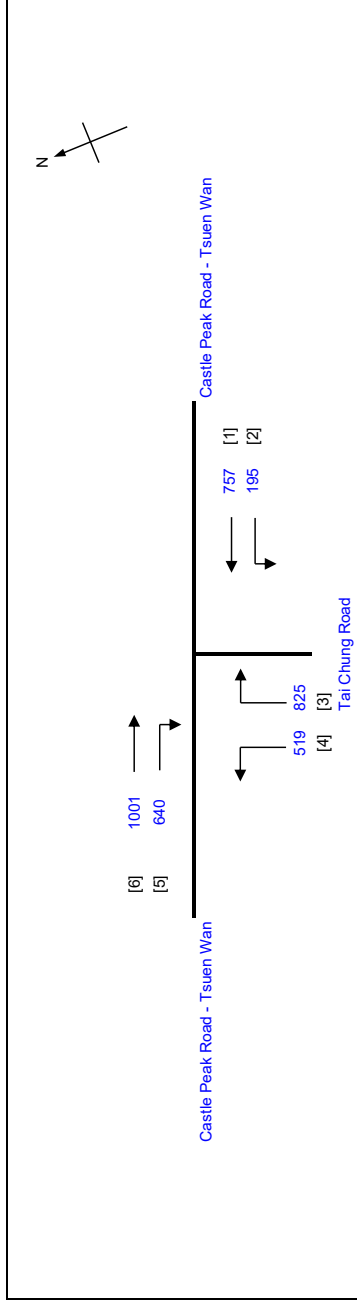
QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION				INITIALS		DATE	
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Pai Street, Tsuen Wan, New Territories				2033 Reference PM				PROJECT NO.: 40999		Prepared By:	
								FILENAME : J1_CPRTW_TCR.xlsx		Checked By:	
										Reviewed By:	
J1 Castle Peak Road – Tsuen Wan / Tai Chung Road								SLN		Dec-25	
								SLN		Dec-25	
								</			

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

J1	Castle Peak Road – Tsuen Wan / Tai Chung Road	2033 Design AM	PROJECT NO. : 40999	Prepared By:	Dec-25
	Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories		FILENAME : J1_CPRTW_TCR.xlsx	Checked By:	Dec-25
				Reviewed By:	Dec-25



Stage 1 G= 27 Int = 6	Stage 2 G= 30 Int = 5	Stage 3 G= 38 Int = 6		
---	---	---	--	--

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
6 5	1,2 2	3.00	2			N	3970 4110			1001 640	0.00 1.00	3970 3685								3970 3685	0.252 0.174		14	44 31	59 31	0.637 0.637	54 42	26 35
		3.00	2	13																								
1,2 1	1 1	3.40	1			N	1955 4150			288 664	0.68 0.00	1802 4150								1802 4150	0.160 0.160			28 28	28 28	0.637 0.637	36 45	40 36
		3.20	2	12																								
4 3	2,3 3	3.00	2			N	3970 4110			519 825	1.00 1.00	3559 3685								3559 3685	0.146 0.224	0.224		26 39	70 39	0.637 0.637	36 48	39 30
		3.00	2	13																								

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION				INITIALS	DATE	
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Pai Street, Tsuen Wan, New Territories				PROJECT NO.: 40999				Prepared By:	SKL	Dec-25
				2033 Design PM				Checked By:	SLN	Dec-25
				J1 Castle Peak Road – Tsuen Wan / Tai Chung Road				Reviewed By:	SLN	Dec-25

LLA CONSULTANCY LIMITED

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Inland Lot No. 48 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

J2 Tai Chung Road / Pak Tin Par Street

PRIORITY JUNCTION CALCULATION

2033 Design AM

PROJECT NO.: 40999

FILENAME: J2_TCR_PTF

REFERENCE NO.:

	DATE
	 INITIALS

SKL

SLN
Dec-25

SLN
Dec-25

DATE _____

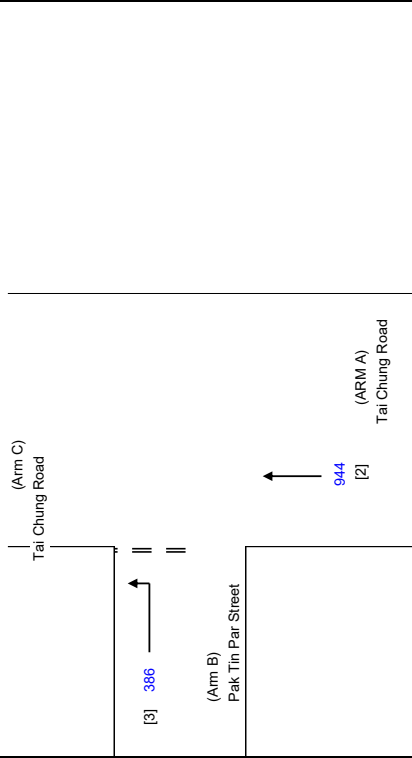
Dec-25

Dec-25

Dec-25

NOTES: (GEOMETRIC INPUT DATA)

W	=	MAJOR ROAD WIDTH
W	=	CENTRAL RESERVE WIDTH
W _a	=	LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
W _{b-a}	=	LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
W _{b-c}	=	LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
W _{c-b}	=	VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
V _{b-a}	=	VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
V _{b-c}	=	VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
V _{c-b}	=	VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
D	=	STREAM-SPECIFIC B-A
E	=	STREAM-SPECIFIC B-C
F	=	STREAM-SPECIFIC C-B
Y	=	(1-0.0345W)



GEOMETRIC DETAILS:

MAJOR ROAD (ARM A)

W	=	20.00	(metres)
W cr	=	3.4	(metres)
q a-b	=	0	(pcu/hr)
q a-c	=	944	(pcu/hr)

MAJOR ROAD (ARM C)

W c-b =	0.00	(metres)
Vr c-b =	0	(metres)
q c-a =	0	(pcu/hr)
q c-b =	0	(pcu/hr)

MINOR ROAD (ARM B)

W b-a =	0.00	(metres)
W b-c =	4.50	(metres)
V l b-a =	0	(metres)
V r b-a =	0	(metres)
V r b-c =	40	(metres)
q b-a =	0	(pcu/hr)
q b-c =	386	(pcu/hr)

D	=	0.53322
E	=	1.00215
F	=	0.58595
Y	=	0.31000

$$F \text{ for } (Qb-ac) = 1$$

GEOMETRIC FACTORS :

Q b-a =	303
Q b-c =	640
Q c-b =	374
Q b-ac =	640

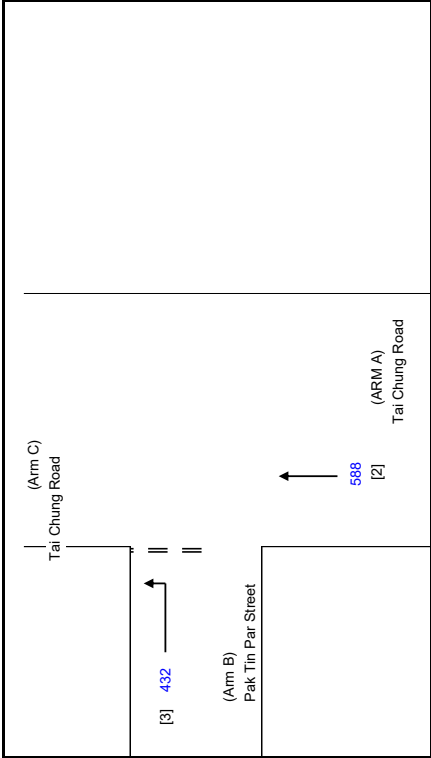
TOTAL FLOW	=	1330	(PCU/HR)
------------	---	------	----------

THE CAPACITY OF MOVEMENT :

DFC b-a	=	0.0000
DFC b-c	=	0.6031
DFC c-b	=	0.0000
DFC b-c (share lane)	=	0.6031

CRITICAL DFC
= 0.60

LLA CONSULTANCY LIMITED		PRIORITY JUNCTION CALCULATION			INITIALS	DATE
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories		2033 Design PM		PROJECT NO.: 40999	PREPARED BY:	Dec-25
				FILENAME: J2_TCR_PTP	CHECKED BY:	Dec-25
				REFERENCE NO.:	REVIEWED BY:	Dec-25
J2	Tai Chung Road / Pak Tin Par Street					



NOTES : (GEOMETRIC INPUT DATA)

- W = MAJOR ROAD WIDTH
- W cr = CENTRAL RESERVE WIDTH
- W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
- W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
- W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
- Vl b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
- Vr b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
- Vl b-c = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-c
- Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
- D = STREAM-SPECIFIC B-A
- E = STREAM-SPECIFIC B-C
- F = STREAM-SPECIFIC C-B
- Y = (1-0.0345W)

GEOMETRIC DETAILS:

MAJOR ROAD (ARM A)	
W = 20.00 (metres)	
W cr = 3.4 (metres)	
q a-b = 0 (pcu/hr)	
q a-c = 588 (pcu/hr)	
MAJOR ROAD (ARM C)	
W c-b = 0.00 (metres)	
Vr c-b = 0 (metres)	
q c-a = 0 (pcu/hr)	
q c-b = 0 (pcu/hr)	
MINOR ROAD (ARM B)	
W b-a = 0.00 (metres)	
W b-c = 4.50 (metres)	
Vl b-a = 0 (metres)	
Vr b-a = 0 (metres)	
Vr b-c = 40 (metres)	
q b-a = 0 (pcu/hr)	
q b-c = 432 (pcu/hr)	

GEOMETRIC FACTORS :

D = 0.53322	
E = 1.00215	
F = 0.58595	
Y = 0.31000	
F for (Qb-ac) = 1	

THE CAPACITY OF MOVEMENT :

Q b-a = 324	
Q b-c = 680	
Q c-b = 398	
Q b-ac = 680	
TOTAL FLOW = 1020	(PCU/HR)

COMPARISON OF DESIGN FLOW TO CAPACITY:

DFC b-a = 0.0000	
DFC b-c = 0.6353	
DFC c-b = 0.0000	
DFC b-c (share lane) = 0.6353	

CRITICAL DFC = 0.64

LLA CONSULTANCY LIMITED

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at 'Other Specified Uses' Annulated 'Business' Zone at Tsun Wan Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan New Territories

J3 Tai Chung Road / Sha Tsui Road

TRAFFIC SIGNAL CALCULATION

2033 Reference AM

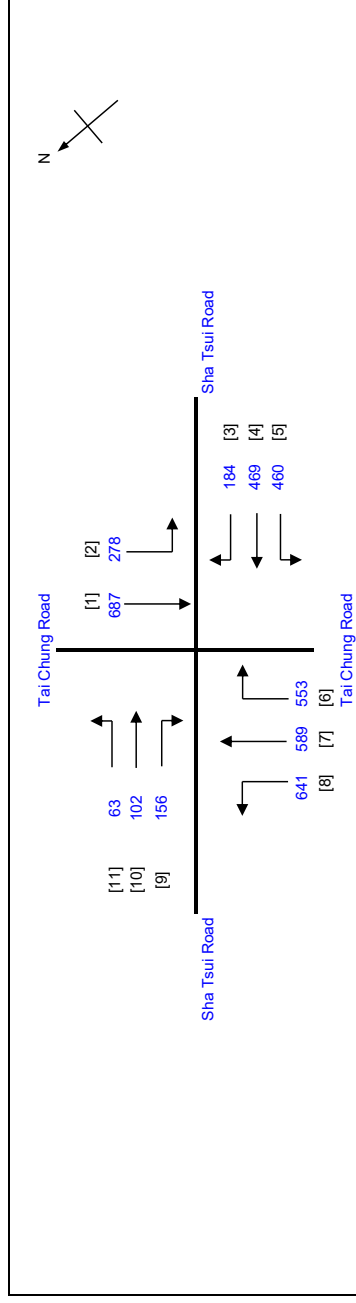
40999

CR_STR.xlsx

Prepared By:

SKL	D.
-----	----

ec-25	
ec-25	



Stage 1 G= 14 Int = 7	Stage 2 G= 27 Int = 8	Stage 3 G= 19 Int =	Stage 4 G= 29 Int = 7
---	---	---------------------------------------	---

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
10,11 9,10	1	3.40	1	8		N	1955	63	96	159	0.40	1820							1820	0.087	0.087	19	15	15	0.642	24	53	
	1	3.20	1	13			2075		6	162	0.96	1868						1868	0.087	0.087			15	15	0.642	24	53	
2 1	2,3 3	3.00 3.00	2 3	12		N	3970 6165	278	687	278 687	1.00 0.00	3529 6165							3529 6165	0.079 0.111	0.079 0.111		47 19	19	0.642 0.642	21 34	49 41	
	4 3,4	3.80 3.00	1 1				2135 2055		342 127	342 311	0.00 0.59	2135 1940							2135 1940	0.160 0.160	0.160 0.160		28 28	28	0.642 0.642	42 42	39 40	
8 7	1,3,4 3,4	3.10 3.10	1 1	20		N	1925 2065	641	589	641 589	1.00 0.00	1791 2065							1791 2065	0.358 0.285	0.358 0.285		65 50	50	0.642 0.642	48 60	18 25	
	6 4	3.10	2	12			4130			553	1.00	3671							3671	0.151	0.151		26	30	0.642	39	38	

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

2033 Reference PM

409

Prepared By:

SKL	
-----	--

Dec-25

J3 Tai Chung Road / Sha Tsui Road

.J3 TCR STR.xlsx

Checked By:	
-------------	--

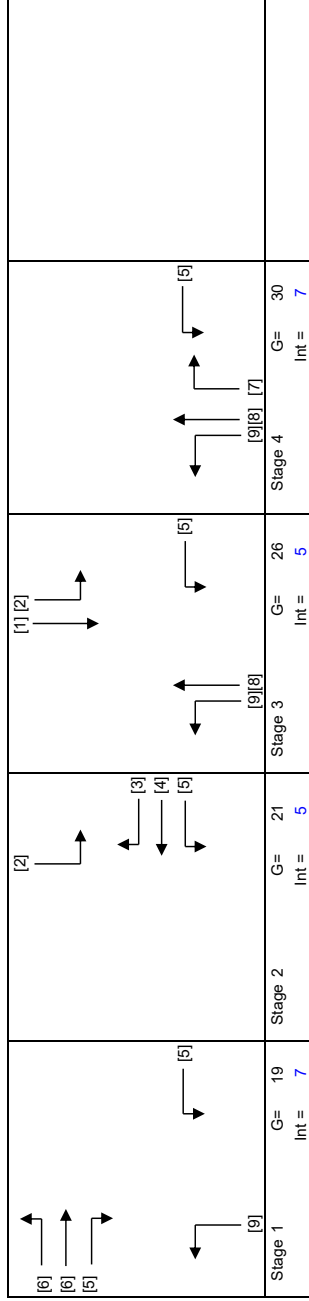
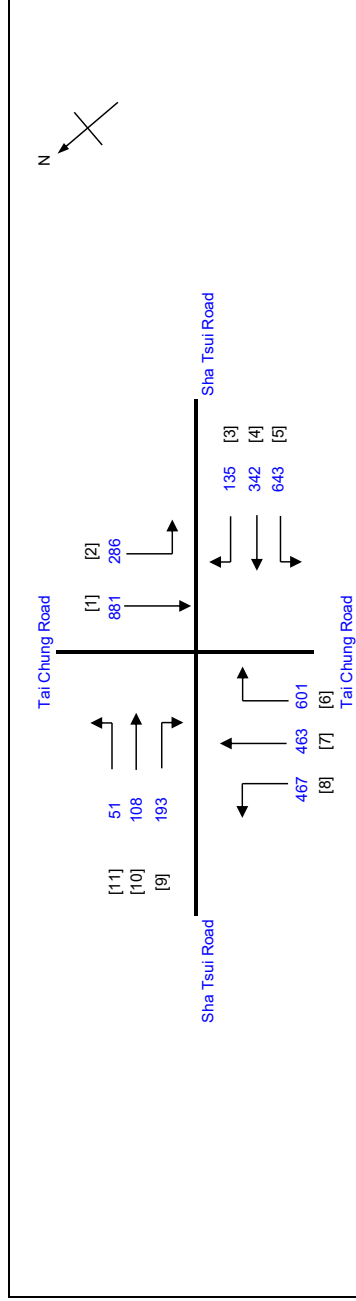
NS

Dec-25

Reviewed By

NTS	
-----	--

Dec-25



Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m /lane)	Average Delay (seconds)
10,11 9,10	1	3.40	1	8		N	1955	51	108	159	0.32	1844								1844	0.086		20	16	20	0.633	24	55
	1	3.20	1	13			2075		193	193	1.00	1860								1860	0.104	0.104		20	20	0.633	30	51
2 1	2,3	3.00	2	12		N	3970	286		286	1.00	3529								3529	0.081			15	49	0.633	24	51
	3	3.00	3				6165	881	881	881	0.00	6165								6165	0.143	0.143		27	27	0.633	44	40
4 3,4	2	3.80	1				2135	250	250	250	0.00	2135								2135	0.117	0.117		22	22	0.633	36	48
	2	3.00	1	15			2055		135	227	0.59	1940								1940	0.117			22	22	0.633	36	48
8 7	1,3,4	3.10	1	20		N	1925	467		467	1.00	1791								1791	0.261			49	78	0.633	54	29
	3,4	3.10	1				2065	463	463	463	0.00	2065								2065	0.224			43	58	0.633	54	33
6	4	3.10	2	12			4130		601	601	1.00	3671								3671	0.164	0.164		31	31	0.633	42	38

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

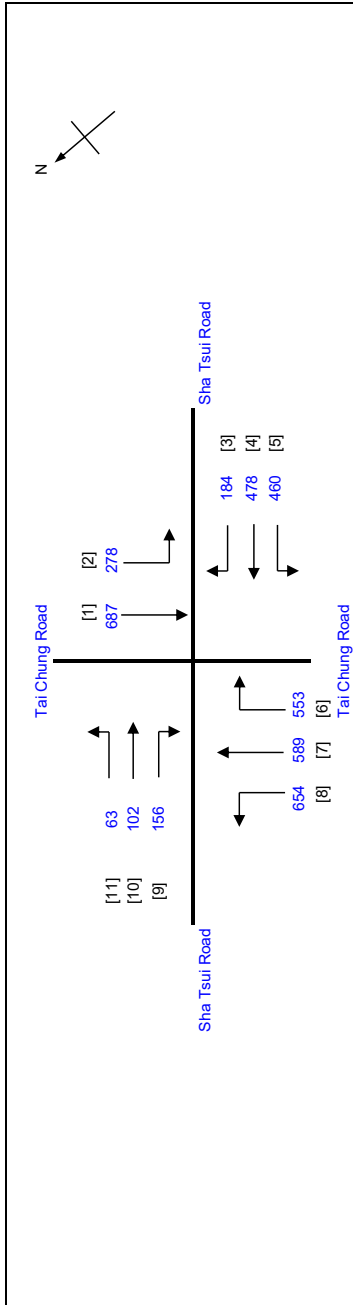
SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

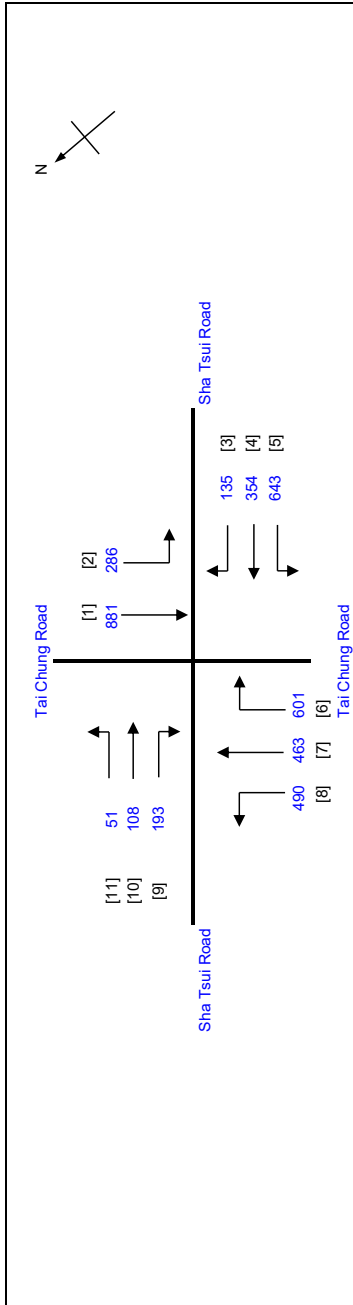
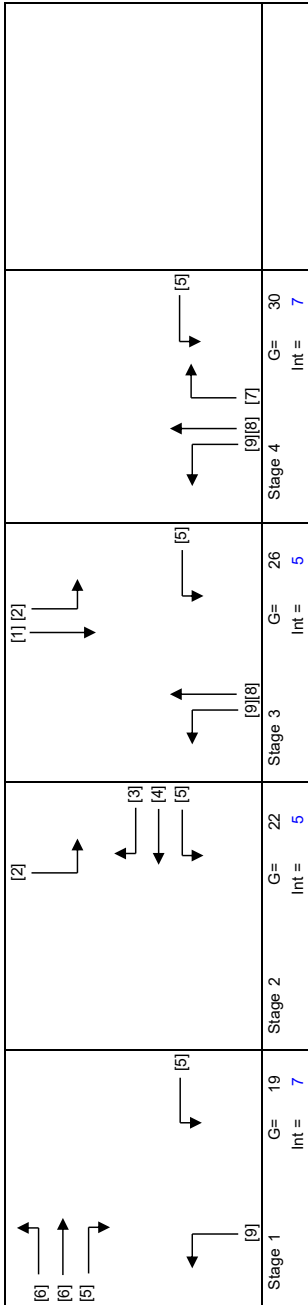
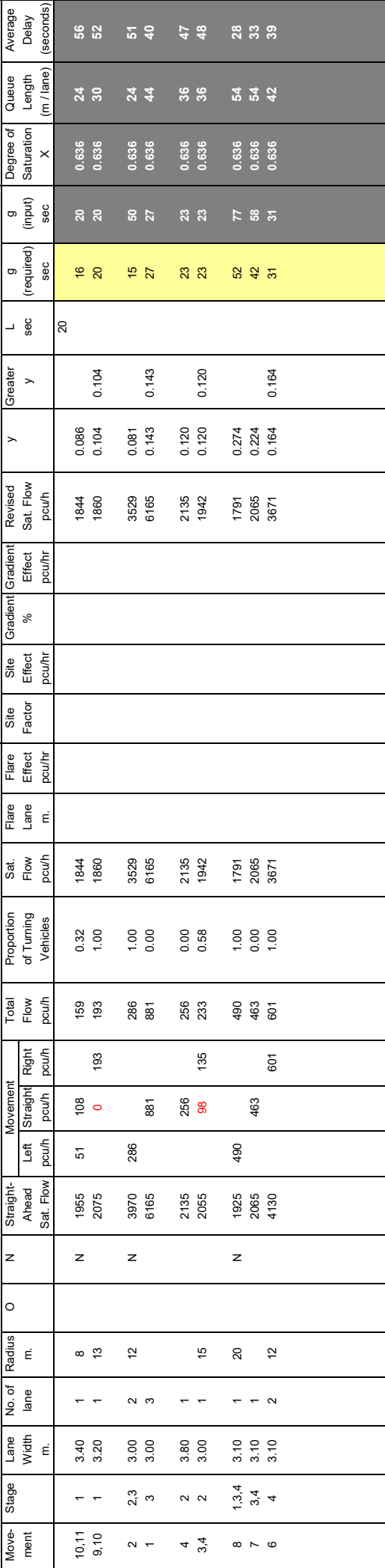
LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION				INITIALS	DATE
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Pai Street, Tsuen Wan, New Territories				PROJECT NO.: 40999				Prepared By:	Dec-25
J3 Tai Chung Road / Sha Tsui Road				2033 Design AM				Checked By:	Dec-25
				FILENAME : J3_TCR_STR.xlsx				Reviewed By:	Dec-25

									
No. of stages per cycle Cycle time Sum(y) Loss time Total Flow Co Cm Yult R.C.ult Cp Ymax N = 4 C = 112 sec Y = 0.535 L = 19 sec = 3744 pcu = 72.1 sec = 40.9 sec = 0.758 = 41.6 % = 46.9 sec = 0.830									
R.C.(C) = $0.9 \times Y_{max} - Y \times 100\%$ = 40 %									

Pedestrian Phase		Stage	Green Time Required SG	Delay FG	Green Time Provided SG	FG

Movement	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight-Ahead Sat. Flow	Movement		Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
10,11 9,10	1 1	3.40 3.20	1 1	8 13		N	1955 2075	63	96	159 162	0.40 0.96	1820 1868						1820 1868	0.087 0.087	0.087	19	15 15	15 15	0.644 0.644	24 24	53 53
2 1	2,3 3	3.00 3.00	2 3	12		N	3970 6165	278	687	278 687	1.00 0.00	3529 6165						3529 6165	0.079 0.111			14 19	48 19	0.644 0.644	21 34	49 42
4 3,4	2 2	3.80 3.00	1 1	15			2135 2055		347 184	347 315	0.00 0.58	2135 1942						2135 1942	0.163 0.162	0.163		28 28	28 28	0.644 0.644	48 42	39 40
8 7 6	1,3,4 3,4 4	3.10 3.10 3.10	1 1 2	20 12		N	1925 2065 4130	654	589	654 589 553	1.00 0.00 1.00	1791 2065 3671						1791 2065 3671	0.365 0.285 0.151	0.285		63 50 26	65 50 30	0.644 0.644 0.644	48 60 39	18 25 38

NOTE :				O - OPPOSING TRAFFIC	N - NEAR SIDE LANE	SG - STEADY GREEN	FG - FLASHING GREEN	PEDESTRAIN WALKING SPEED = 1.2m/s		QUEUEING LENGTH = AVERAGE QUEUE * 6m	
--------	--	--	--	----------------------	--------------------	-------------------	---------------------	-----------------------------------	--	--------------------------------------	--

LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION				INITIALS	DATE																								
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Pai Street, Tsuen Wan, New Territories				PROJECT NO.: 40999				Prepared By:	Dec-25																								
J3 Tai Chung Road / Sha Tsui Road				2033 Design PM				Checked By:	Dec-25																								
				FILENAME : J3_TCR_STR.xlsx				Reviewed By:	Dec-25																								
				No. of stages per cycle Cycle time Sum(y) Loss time Total Flow Co Cm Yult R.C.ult Cp Ymax N = 4 C = 120 sec Y = 0.530 L = 20 sec = 3562 pcu = 74.5 sec = 42.6 sec = 0.750 = 41.4 % = 48.7 sec = 0.833																													
				R.C.(C) = 0.9*Ymax*Y/Y*100% = 41 %																													
				Pedestrian Phase		Stage	Green Time Required SG	Delay FG	Green Time Provided SG	FG																							
				Move-ment		Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight-Ahead Sat. Flow	Movement Left pcu/h		Straight Right pcu/h		Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
10,11 9,10		1 1	3.40 3.20	1 1	8 13		N	1955 2075	51 193	108 193	159 193	0.32 1.00	1844 1860	0.086 0.104	0.104	20	16 20	20 20	20 20	0.636 0.636	24 30	56 52											
2 1		2,3 3	3.00 3.00	2 3	12		N	3970 6165	286 881	286 881	286 881	1.00 0.00	3529 6165	0.081 0.143	0.143		15 27	50 27	27 27	0.636 0.636	24 44	51 40											
4 3,4		2 2	3.80 3.00	1 1	15			2135 2055	256 98	256 135	256 233	0.00 0.58	2135 1942	0.120 0.120	0.120		23 23	23 23	23 23	0.636 0.636	36 36	47 48											
8 7 6		1,3,4 3,4 4	3.10 3.10 3.10	1 1 2	20 12		N	1925 2065 4130	490 463 601	490 463 601	490 463 601	1.00 0.00 1.00	1791 2065 3671	0.274 0.224 0.164	0.164		52 42 31	77 58 31	58 31	0.636 0.636 0.636	54 54 42	28 33 39											
NOTE :				O - OPPOSING TRAFFIC				N - NEAR SIDE LANE				SG - STEADY GREEN				FG - FLASHING GREEN				PEDESTRAIN WALKING SPEED = 1.2m/s				QUEUEING LENGTH = AVERAGE QUEUE * 6m									

LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION				INITIALS	DATE																																																																																																																																																																																																											
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories				PROJECT NO.: 40999				Prepared By:	SKL	Dec-25																																																																																																																																																																																																										
				FILENAME: J4_CRPTW_TKC.xlsx				Checked By:	SLN	Dec-25																																																																																																																																																																																																										
				J4 Castle Peak Road – Tsuen Wan / Tsuen King Circuit				Reviewed By:	SLN	Dec-25																																																																																																																																																																																																										
				No. of stages per cycle Cycle time Sum(y) Loss time Total Flow Co Cm Yult R.C.ult Cp Ymax N = 3 C = 112 sec Y = 0.461 L = 29 sec = 3221 pcu = 90.0 sec = 53.8 sec = 0.683 = 48.1 % = 59.4 sec = 0.741 R.C.(C) = $(0.9 \cdot Y_{\max} \cdot Y) / Y + 100\%$ = 45 %																																																																																																																																																																																																																
				<table><tr><th>Pedestrian Phase</th><th>Stage</th><th>Green Time SG</th><th>Green Time FG</th><th>Delay</th><th>Green Time Provided SG</th><th>Green Time Provided FG</th></tr><tr><td>P1</td><td>2</td><td>5</td><td>6</td><td>2</td><td>27</td><td>6</td></tr><tr><td>P2</td><td>1,2</td><td>5</td><td>13</td><td>0</td><td>69</td><td>13</td></tr><tr><td>P3</td><td>2,3</td><td>5</td><td>13</td><td>6</td><td>46</td><td>13</td></tr><tr><td>P4</td><td>1,3</td><td>5</td><td>8</td><td>0</td><td>69</td><td>8</td></tr><tr><td>P5</td><td>1,3</td><td>5</td><td>13</td><td>0</td><td>64</td><td>13</td></tr></table>						Pedestrian Phase	Stage	Green Time SG	Green Time FG	Delay	Green Time Provided SG	Green Time Provided FG	P1	2	5	6	2	27	6	P2	1,2	5	13	0	69	13	P3	2,3	5	13	6	46	13	P4	1,3	5	8	0	69	8	P5	1,3	5	13	0	64	13																																																																																																																																																																	
Pedestrian Phase	Stage	Green Time SG	Green Time FG	Delay	Green Time Provided SG	Green Time Provided FG																																																																																																																																																																																																														
P1	2	5	6	2	27	6																																																																																																																																																																																																														
P2	1,2	5	13	0	69	13																																																																																																																																																																																																														
P3	2,3	5	13	6	46	13																																																																																																																																																																																																														
P4	1,3	5	8	0	69	8																																																																																																																																																																																																														
P5	1,3	5	13	0	64	13																																																																																																																																																																																																														
				<table><tr><th>Move-ment</th><th>Stage</th><th>Lane Width m.</th><th>No. of lane</th><th>Radius m.</th><th>O</th><th>N</th><th>Straight-Ahead Sat. Flow</th><th>Movement Left pcu/h</th><th>Movement Straight pcu/h</th><th>Movement Right pcu/h</th><th>Total Flow pcu/h</th><th>Proportion of Turning Vehicles</th><th>Sat. Flow pcu/h</th><th>Flare Lane m.</th><th>Flare Effect pcu/hr</th><th>Site Factor</th><th>Site Effect pcu/hr</th><th>Gradient %</th><th>Gradient Effect pcu/hr</th><th>Revised Sat. Flow pcu/hr</th><th>y</th><th>Greater y</th><th>L sec</th><th>g (required) sec</th><th>g (input) sec</th><th>Degree of Saturation X</th><th>Queue Length (m / lane)</th><th>Average Delay (seconds)</th></tr><tr><td>1</td><td>1</td><td>3.65</td><td>3</td><td>33</td><td></td><td></td><td>6360</td><td></td><td></td><td>427</td><td>427</td><td>1.00</td><td>6083</td><td></td><td></td><td></td><td></td><td></td><td></td><td>6083</td><td>0.070</td><td></td><td>29</td><td>13</td><td>37</td><td>0.622</td><td>22</td><td>47</td></tr><tr><td>2</td><td>1</td><td>3.40</td><td>2</td><td></td><td></td><td>N</td><td>4050</td><td></td><td>830</td><td></td><td>830</td><td>0.00</td><td>4050</td><td></td><td></td><td></td><td></td><td></td><td></td><td>4050</td><td>0.205</td><td>0.205</td><td></td><td>37</td><td>37</td><td>0.622</td><td>51</td><td>30</td></tr><tr><td>3,4</td><td>2</td><td>3.60</td><td>1</td><td>48</td><td></td><td>N</td><td>1975</td><td>130</td><td>181</td><td>1051</td><td>311</td><td>0.42</td><td>1950</td><td>12</td><td>248</td><td></td><td></td><td></td><td></td><td>1950</td><td>0.160</td><td>0.160</td><td></td><td>29</td><td>29</td><td>0.622</td><td>42</td><td>38</td></tr><tr><td>3</td><td>2</td><td>3.60</td><td>3</td><td></td><td></td><td></td><td>6345</td><td></td><td>1051</td><td></td><td>1051</td><td>0.00</td><td>6345</td><td></td><td></td><td></td><td></td><td></td><td></td><td>6593</td><td>0.159</td><td></td><td></td><td>29</td><td>29</td><td>0.622</td><td>48</td><td>35</td></tr><tr><td>6</td><td>3</td><td>3.00</td><td>2</td><td>15</td><td></td><td>N</td><td>3970</td><td>406</td><td></td><td></td><td>406</td><td>1.00</td><td>3609</td><td>18</td><td>635</td><td></td><td></td><td></td><td></td><td>4244</td><td>0.096</td><td>0.096</td><td></td><td>17</td><td>17</td><td>0.622</td><td>0</td><td>0</td></tr><tr><td>5,6</td><td>3</td><td>3.40</td><td>1</td><td>50</td><td></td><td></td><td>2095</td><td>2</td><td></td><td>194</td><td>196</td><td>1.00</td><td>2034</td><td></td><td></td><td></td><td></td><td></td><td></td><td>2034</td><td>0.096</td><td>0.096</td><td></td><td>17</td><td>17</td><td>0.622</td><td>30</td><td>48</td></tr></table>						Move-ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight-Ahead Sat. Flow	Movement Left pcu/h	Movement Straight pcu/h	Movement Right pcu/h	Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/hr	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)	1	1	3.65	3	33			6360			427	427	1.00	6083							6083	0.070		29	13	37	0.622	22	47	2	1	3.40	2			N	4050		830		830	0.00	4050							4050	0.205	0.205		37	37	0.622	51	30	3,4	2	3.60	1	48		N	1975	130	181	1051	311	0.42	1950	12	248					1950	0.160	0.160		29	29	0.622	42	38	3	2	3.60	3				6345		1051		1051	0.00	6345							6593	0.159			29	29	0.622	48	35	6	3	3.00	2	15		N	3970	406			406	1.00	3609	18	635					4244	0.096	0.096		17	17	0.622	0	0	5,6	3	3.40	1	50			2095	2		194	196	1.00	2034							2034	0.096	0.096		17	17	0.622	30	48
Move-ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight-Ahead Sat. Flow	Movement Left pcu/h	Movement Straight pcu/h	Movement Right pcu/h	Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/hr	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)																																																																																																																																																																																								
1	1	3.65	3	33			6360			427	427	1.00	6083							6083	0.070		29	13	37	0.622	22	47																																																																																																																																																																																								
2	1	3.40	2			N	4050		830		830	0.00	4050							4050	0.205	0.205		37	37	0.622	51	30																																																																																																																																																																																								
3,4	2	3.60	1	48		N	1975	130	181	1051	311	0.42	1950	12	248					1950	0.160	0.160		29	29	0.622	42	38																																																																																																																																																																																								
3	2	3.60	3				6345		1051		1051	0.00	6345							6593	0.159			29	29	0.622	48	35																																																																																																																																																																																								
6	3	3.00	2	15		N	3970	406			406	1.00	3609	18	635					4244	0.096	0.096		17	17	0.622	0	0																																																																																																																																																																																								
5,6	3	3.40	1	50			2095	2		194	196	1.00	2034							2034	0.096	0.096		17	17	0.622	30	48																																																																																																																																																																																								
NOTE :				O - OPPOSING TRAFFIC	N - NEAR SIDE LANE	SG - STEADY GREEN	FG - FLASHING GREEN	PEDESTRAIN WALKING SPEED = 1.2m/s	QUEUEING LENGTH = AVERAGE QUEUE * 6m																																																																																																																																																																																																											

LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION				INITIALS	DATE
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories				PROJECT NO.: 40999		Prepared By:		SKL	Dec-25
J4 Castle Peak Road – Tsuen Wan / Tsuen King Circuit				FILENAME : J4_CRPTW_TKC.xlsx		Checked By:		SLN	Dec-25
						Reviewed By:		SLN	Dec-25

Pedestrian Phase		Stage		Green Time Required		Green Time Provided	
SG	Delay	SG	Delay	SG	FG	SG	FG
P1	2	5	6	2	25	6	6
P2	1,2	5	13	0	76	13	13
P3	2,3	5	13	6	47	13	13
P4	1,3	5	8	0	81	8	8
P5	1,3	5	13	0	76	13	13

No. of stages per cycle	N = 3
Cycle time	C = 122 sec
Sum(y)	Y = 0.526
Loss time	L = 29 sec
Total Flow	= 3437 pcu
Co	= (1.5*L+5)/(1-Y)
Cm	= L/(1-Y)
Yult	= (Yult-Y)*100%
R.C.ult	= 0.9*L/(0.9-Y)
Cp	= 61.2 sec
Ymax	= 0.683
	= 29.8 %
	= 69.7 sec
	= 0.762
R.C.(C)	= (0.9*Ymax-Y)*100% = 30 %

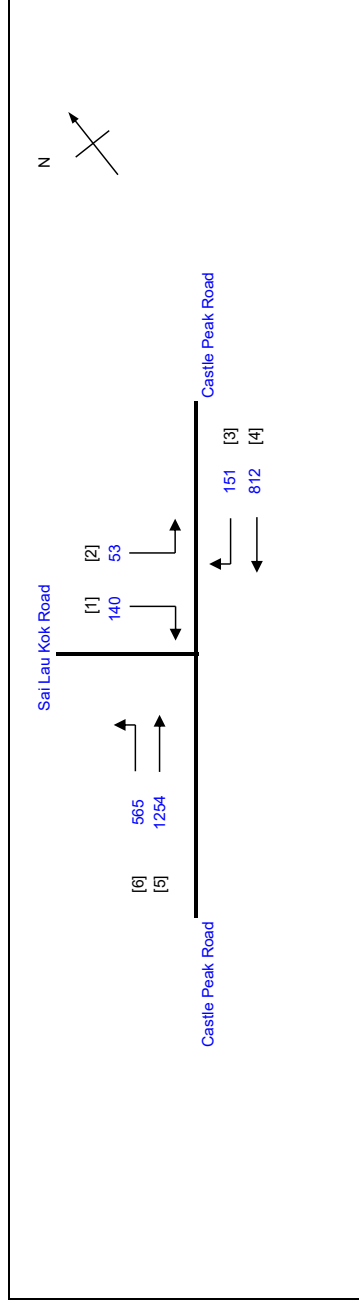
Move-ment	Stage	Lane	Width m.	No. of lane	Radius m.	O	N	Straight-Ahead Sat. Flow	Movement	Left pcu/h	Straight pcu/h	Right pcu/h	Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/hr	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
1	1	3.65	3	3	33		N	6360				371	371	1.00	6083							6083	0.061		29	11	46	0.690	22	55
2	1	3.40	2	2				4050			1048		1048	0.00	4050							4050	0.259	0.259		46	46	0.690	66	31
3,4	2	3.60	1	1	48		N	1975		120	181	1021	301	0.40	1951	12	267					1951	0.154	0.154		27	27	0.690	42	47
3	2	3.60	3	3				6345			1021		1021	0.00	6345							6612	0.154	0.154		27	27	0.690	52	42
6	3	3.00	2	2	15		N	3970		467			467	1.00	3609	18	540					4149	0.113	0.113		20	20	0.690	0	0
5,6	3	3.40	1	1	50			2095		11		218	229	1.00	2034							2034	0.113	0.113		20	20	0.690	36	54

NOTE : O - OPPOSING TRAFFIC N - NEAR SIDE LANE SG - STEADY GREEN FG - FLASHING GREEN PEDESTRAIN WALKING SPEED = 1.2m/s QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at 'Other Specified Uses' Anticipated 'Business' Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Street, Tsuen Wan, New Territories		2033 Reference AM		PROJECT NO.: 40999	Prepared By:	SKL	Dec-25
J5 Castle Peak Road – Tsuen Wan / Sai Lau Kok Road				FILENAME: J5_CPRTW_SLKR.xlsx	Checked By:	SLN	Dec-25
					Reviewed By:	SLN	Dec-25



No. of stages per cycle	N =	3
Cycle time	C =	120 sec
Sum(y)	Y =	0.423
Loss time	L =	17 sec
Total Flow	=	2975 pcu
Co	= $(1.5 \cdot L + 5) / (1 - Y)$	52.9 sec
Cm	= $L / (1 - Y)$	29.5 sec
Yult	=	0.773
R.C.ult	= $(Yult - Y) / Y \cdot 100\%$	82.6 %
Cp	= $0.9 \cdot L / (0.9 - Y)$	32.1 sec
Ymax	= $1 - L / C$	0.858
R.C.(C)	= $(0.9 \cdot Ymax - Y) / Y \cdot 100\%$	83 %

A SAI LAU KOK ROAD CASTLE PEAK ROAD	B	C	Stage 1 G= 73 Int = 5	Stage 2 G= 18 Int = 8	Stage 3 G= 8 Int = 7
---	-----------------	-----------------	--	--	---

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m /lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
6	1,3	3.00	2	12		N	3970	565		565	1.00	3529								3529	0.160		17	39	84	0.493	36	31
5	1	3.00	2				4110	1254	1254	1254	0.00	4110								4110	0.305	0.305		74	74	0.493	45	12
4	1,2	3.00	3			N	6025	812	812	812	0.00	6025								6025	0.135			33	94	0.493	38	34
3	2	3.00	1	17			2055			151	1.00	1888								1888	0.080	0.080		19	19	0.493	24	46
2	3	3.60	1	20		N	1975	53		53	1.00	1837								1837	0.029			7	9	0.493	6	64
1,2	3	3.60	1	10			2115	0		70	1.00	1839								1839	0.038	0.038		9	9	0.493	12	59
1	3	3.60	1	10			2115			70	1.00	1839								1839	0.038			9	9	0.493	12	59

NOTE : O - OPPOSING TRAFFIC
N - NEAR SIDE LANE
SG - STEADY GREEN
FG - FLASHING GREEN
PEDESTRAIN WALKING SPEED = 1.2m/s
QUEUEING LENGTH = AVERAGE QUEUE * 6m

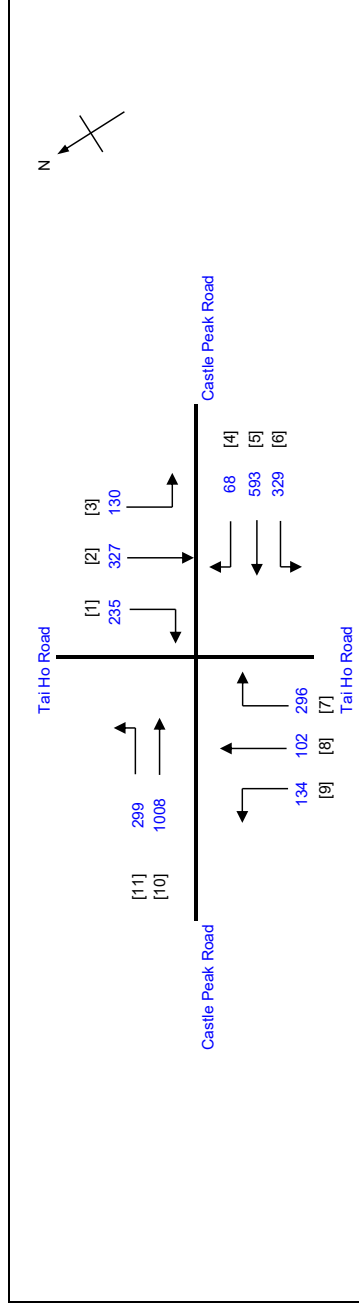
LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION				INITIALS	DATE
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Island Lot No. 40 S.C. Nos. 40-48 Pak Tin Far Street, Tsuen Wan, New Territories				PROJECT NO.: 40999				Prepared By:	Dec-25
J5 Castle Peak Road – Tsuen Wan / Sai Lau Kok Road				2033 Reference PM				Checked By:	Dec-25
				FILENAME : J5_CPRTW_SLKR.xlsx				Reviewed By:	Dec-25
				</					

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business Zone" at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories		PROJECT NO. : 40999	Prepared By:	Dec-25
J6 Castle Peak Road - Tsuen Wan / Tai Ho Road		FILENAME : J6_CPRTW_THR.xlsx	Checked By:	Dec-25
			Reviewed By:	Dec-25

		No. of stages per cycle N = 4
Cycle time C =	120 sec	
Sum(Y) Y =	0.420	
Loss time L =	25 sec	
Total Flow	3521 pcu	
Co = (1.5*L+5)/(1-Y)	73.3 sec	
Cm = L/(1-Y)	43.1 sec	
Yult = (Yult-Y)/Y*100%	0.713	
R.C.ult = 0.9*L/(0.9-Y)	69.6 %	
Cp = 1-L/C	46.9 sec	
Ymax	0.792	
R.C.(C) = (0.9*Ymax-Y)/Y*100%	70 %	



Pedestrian Phase	Stage	Green Time Required		Green Time Provided	
		SG	FG Delay	SG	FG
 A	Stage 1	G= 46	Int = 6		
 B	Stage 2	G= 7	Int = 6		
 C	Stage 3	G= 20	Int = 10		
 D	Stage 4	G= 18	Int = 7		

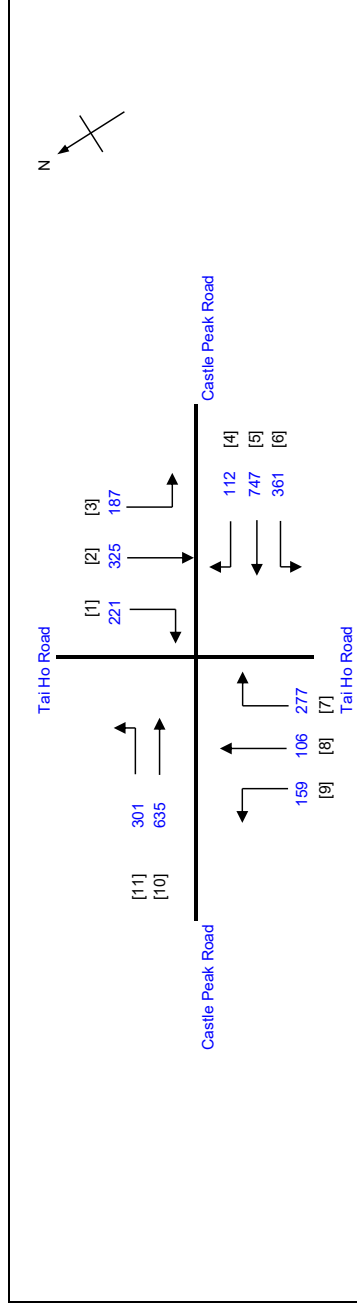
Movement	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight-Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	γ	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																	
10,11 10	1	3.50	1	12		N	1965	299	76	375	0.80	1787						1787	0.210		25	47	47	0.531	42	28	
	1	3.50	2				4210	932	932	932	0.00	4210	18	230				4440	0.210	0.210		47	47	0.531	54	26	
6 5	1,2,4 1,2	3.65 3.65	1 2	70		N	1980 4240	329	593	329 593	1.00 0.00	1938 4240	30 18	243 196				2181 4436	0.151 0.134				34 30	74 55	0.531 0.531	42 42	36 37
	2	3.65	1	20			2120		68	68	1.00	1972						1972	0.034	0.034		8	8	0.531	12	63	
3 2	3 3	3.30 3.30	1 1	11		N	1945 2085	130	193	130 193	1.00 0.00	1712 2085						1712 2085	0.076 0.093	0.093			17 21	21	0.531 0.531	18 30	50 46
1,2 1	3 3	3.30 3.30	1 1	24 24			2085 2085		134 180	189 180	0.29 1.00	2048 1962						2048 1962	0.092 0.092				21 21	21	0.531 0.531	30 24	46 46
8,9 7,8	4 4	3.50 3.50	1 1	28 22		N	1965 2105	134	22	156 213	0.86 0.62	1879 2019	18	568				1879 2587	0.083 0.082	0.083			19 19	19	0.531 0.531	24 30	48 47
	4 4	3.50 3.50	1 1	22 22			2105 2105		80 163	163	1.00	1971						1971	0.082 0.083				19	19	0.531	24	48

NOTE : O - OPPOSING TRAFFIC
N - NEAR SIDE LANE
SG - STEADY GREEN
FG - FLASHING GREEN
PEDESTRAIN WALKING SPEED = 1.2m/s
QUEUEING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Amortized "Business" Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories		PROJECT NO. : 40999	Prepared By:	Dec-25
J6 Castle Peak Road - Tsuen Wan / Tai Ho Road		FILENAME : J6_CPRTW_THR.xlsx	Checked By:	Dec-25
			Reviewed By:	Dec-25



	Stage 1 G= 38 Int= 6
	Stage 2 G= 12 Int= 6
	Stage 3 G= 24 Int= 10
	Stage 4 G= 18 Int= 7

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m /lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
10,11 10	1	3.50	1	12		N	1965	301	0		1.00	1747							1747	0.172		25	39	39	0.535	36	33	
	1	3.50	2				4210	635	635		0.00	4210	18	277					4487	0.142			32	39	0.535	45	36	
6 5	1,2,4	3.65	1	70		N	1980	361		361	1.00	1938	30	257					2195	0.164			37	70	0.535	48	34	
	1,2	3.65	2				4240	747	747	747	0.00	4240	18	212					4452	0.168			38	51	0.535	51	32	
4	2	3.65	1	20			2120			112	1.00	1972							1972	0.057			13	13	0.535	18	55	
3	3	3.30	1	11		N	1945	187		187	1.00	1712							1712	0.109			25	25	0.535	24	44	
2	3	3.30	1				2085		187	187	0.00	2085							2085	0.090			20	25	0.535	30	46	
1,2	3	3.30	1	24			2085		138	184	0.25	2053							2053	0.090			20	25	0.535	30	47	
1	3	3.30	1	24			2085		175	175	1.00	1962							1962	0.089			20	25	0.535	24	47	
8,9 7,8 7	4	3.50	1	28		N	1965	159	0	159	1.00	1865							1865	0.085			19	19	0.535	24	48	
	4	3.50	1	22			2105		106	218	0.51	2034	18	568					2602	0.084			19	19	0.535	36	47	
	4	3.50	1	22			2105		165	165	1.00	1971							1971	0.084			19	19	0.535	24	48	

NOTE : O - OPPOSING TRAFFIC N - NEAR SIDE LANE SG - STEADY GREEN FG - FLASHING GREEN PEDESTRAIN WALKING SPEED = 1.2m/s QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION			
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Island Lot No. 40 S.C. Nos. 40-48 Pak Tin Far Street, Tsuen Wan, New Territories				PROJECT NO.: 40999			
J6 Castle Peak Road - Tsuen Wan / Tai Ho Road				2033 Design PM			
J6				Prepared By: J6_CPRTW_THR.xlsx			
				Checked By:			
				Reviewed By:			
				Dec-25			
				Dec-25			
				Dec-25			

LLA CONSULTANCY LIMITED

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

J7 Tai Chung Road / Hoi Hing Road

ROUNDABOUT CALCULATION

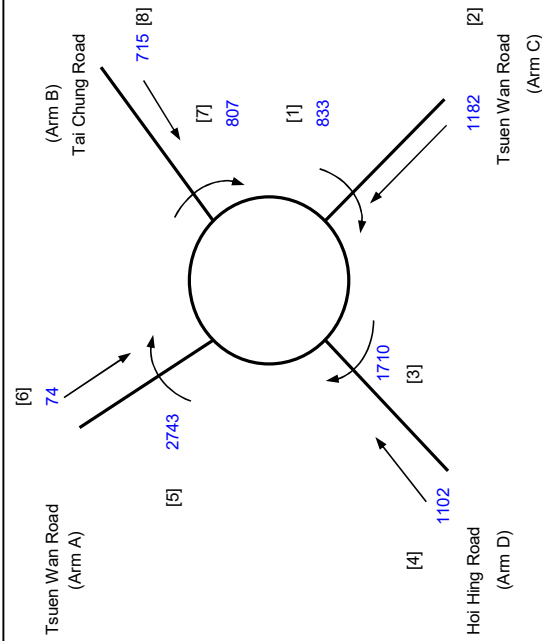
2033 Reference AM

PROJECT NO.: 40999

FILENAME : J7_TCR_HHR.xls

REFERENCE NO.:

INITIALS	DATE
SKL	Dec-25
SLN	Dec-25
SLN	Dec-25



ARM

INPUT PARAMETERS:

	A	B	C	D
V = Approach half width (m)	5.40	6.90	6.60	6.50
E = Entry width (m)	8.20	7.60	10.50	15.00
L = Effective length of flare (m)	50.00	100.00	9.00	13.00
R = Entry radius (m)	15.00	100.00	65.00	20.00
D = Inscribed circle diameter (m)	60.00	60.00	60.00	60.00
A = Entry angle (degree)	30.00	35.00	23.00	43.00
Q = Entry flow (pcu/h)	74	715	1182	1102
Qc = Circulating flow across entry (pcu/h)	2743	807	833	1710

OUTPUT PARAMETERS:

S = Sharpness of flare = $1.6(E-V)/L$	0.09	0.01	0.69	1.05
K = $1-0.00347(A-30)-0.978(1/R-0.05)$	0.98	1.02	1.06	0.95
X2 = $V + ((E-V)/(1+2S))$	7.77	7.58	8.23	9.25
M = $EXP((D-60)/10)$	1	1	1	1
F = $303 \times X2$	2356	2298	2495	2802
Td = $1+(0.5/(1+M))$	1.25	1.25	1.25	1.25
Fc = $0.21 \times Td \times (1+0.2 \times X2)$	0.67	0.66	0.69	0.75
Qe = $K(F-Fc)Qc$	508	1803	2028	1454

DFC = Design flow/Capacity = Q/Qe

DFC of Critical Approach = 0.76

Total In Sum = 3073 PCU

LLA CONSULTANCY LIMITED

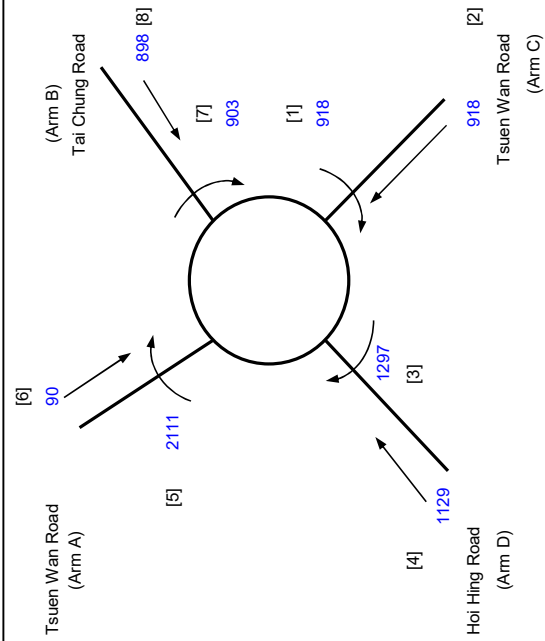
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

J7 Tai Chung Road / Hoi Hing Road

ROUNDAABOUT CALCULATION

2033 Reference PM

PROJECT NO.:	40999	PREPARED BY:	SKL	INITIALS	DATE
FILENAME :	J7_TCR_HHR.xls	CHECKED BY:	SLN		Dec-25
REFERENCE NO.:		REVIEWED BY:	SLN		Dec-25



ARM

INPUT PARAMETERS:

	A	B	C	D
V = Approach half width (m)	5.40	6.90	6.60	6.50
E = Entry width (m)	8.20	7.60	10.50	15.00
L = Effective length of flare (m)	50.00	100.00	9.00	13.00
R = Entry radius (m)	15.00	100.00	65.00	20.00
D = Inscribed circle diameter (m)	60.00	60.00	60.00	60.00
A = Entry angle (degree)	30.00	35.00	23.00	43.00
Q = Entry flow (pcu/h)	90	898	918	1129
Qc = Circulating flow across entry (pcu/h)	2111	903	918	1297

OUTPUT PARAMETERS:

S = Sharpness of flare = $1.6(E-V)/L$	0.09	0.01	0.69	1.05
K = $1-0.00347(A-30)-0.978(1/R-0.05)$	0.98	1.02	1.06	0.95
X2 = $V + ((E-V)/(1+2S))$	7.77	7.58	8.23	9.25
M = $EXP((D-60)/10)$	1	1	1	1
F = $303 \times X2$	2356	2298	2495	2802
Td = $1+(0.5/(1+M))$	1.25	1.25	1.25	1.25
Fc = $0.21 \times Td(1+0.2 \times X2)$	0.67	0.66	0.69	0.75
Qe = $K(F-Fc)Qc$	925	1739	1965	1749

DFC = Design flow/Capacity = Q/Qe

Total In Sum = 3035 PCU

DFC of Critical Approach = 0.65

LLA CONSULTANCY LIMITED

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

J7 Tai Chung Road / Hoi Hing Road

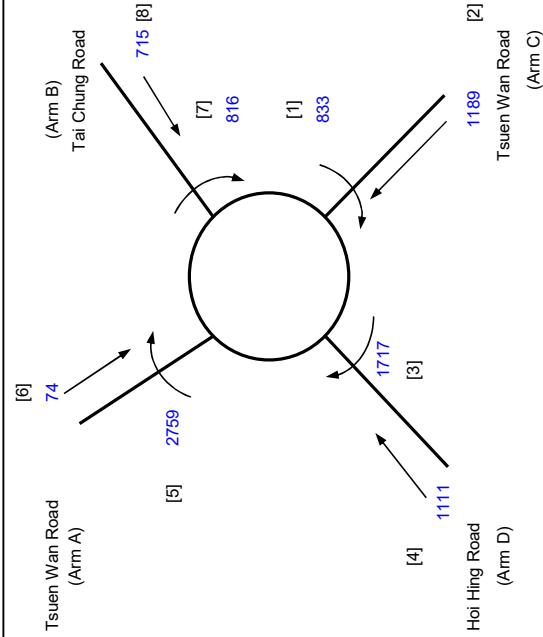
ROUNDAABOUT CALCULATION

2033 Design AM

PROJECT NO.: 40999
FILENAME : J7_TCR_HHR.xls
REFERENCE NO.:

INITIALS
SKL
SLN
SLN

DATE
Dec-25
Dec-25
Dec-25



ARM

INPUT PARAMETERS:

	A	B	C	D
V = Approach half width (m)	5.40	6.90	6.60	6.50
E = Entry width (m)	8.20	7.60	10.50	15.00
L = Effective length of flare (m)	50.00	100.00	9.00	13.00
R = Entry radius (m)	15.00	100.00	65.00	20.00
D = Inscribed circle diameter (m)	60.00	60.00	60.00	60.00
A = Entry angle (degree)	30.00	35.00	23.00	43.00
Q = Entry flow (pcu/h)	74	715	1189	1111
Qc = Circulating flow across entry (pcu/h)	2759	816	833	1717

OUTPUT PARAMETERS:

S = Sharpness of flare = $1.6(E-V)/L$	0.09	0.01	0.69	1.05
K = $1-0.00347(A-30)-0.978(1/R-0.05)$	0.98	1.02	1.06	0.95
X2 = $V + ((E-V)/(1+2S))$	7.77	7.58	8.23	9.25
M = $EXP((D-60)/10)$	1	1	1	1
F = $303 \times X2$	2356	2298	2495	2802
Td = $1+(0.5/(1+M))$	1.25	1.25	1.25	1.25
Fc = $0.21 \times Td(1+0.2 \times X2)$	0.67	0.66	0.69	0.75
Qe = $K(F-Fc)Qc$	497	1797	2028	1449

DFC = Design flow/Capacity = Q/Qe

DFC of Critical Approach = 0.77

Total In Sum = 3089 PCU

LLA CONSULTANCY LIMITED

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsuen Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

J7 Tai Chung Road / Hoi Hing Road

ROUNDAABOUT CALCULATION

2033 Design PM

PROJECT NO.: 40999

FILENAME : J7_TCR_HHR.xls

PREPARED BY:

CHECKED BY:

REVIEWED BY:

INITIALS

DATE

SKL

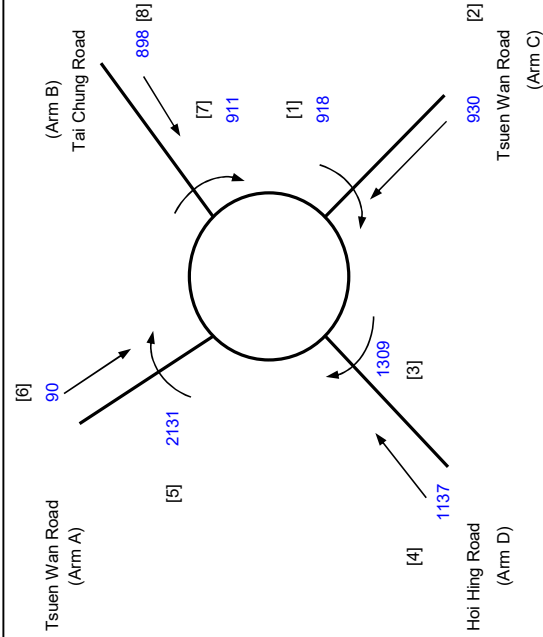
Dec-25

SUN

Dec-25

SUN

Dec-25



ARM

INPUT PARAMETERS:

	A	B	C	D
V = Approach half width (m)	5.40	6.90	6.60	6.50
E = Entry width (m)	8.20	7.60	10.50	15.00
L = Effective length of flare (m)	50.00	100.00	9.00	13.00
R = Entry radius (m)	15.00	100.00	65.00	20.00
D = Inscribed circle diameter (m)	60.00	60.00	60.00	60.00
A = Entry angle (degree)	30.00	35.00	23.00	43.00
Q = Entry flow (pcu/h)	90	898	930	1137
Qc = Circulating flow across entry (pcu/h)	2131	911	918	1309

OUTPUT PARAMETERS:

S = Sharpness of flare = $1.6(E-V)/L$	0.09	0.01	0.69	1.05
K = $1-0.00347(A-30)-0.978(1/R-0.05)$	0.98	1.02	1.06	0.95
X2 = $V + ((E-V)/(1+2S))$	7.77	7.58	8.23	9.25
M = $EXP((D-60)/10)$	1	1	1	1
F = $303 \times X2$	2356	2298	2495	2802
Td = $1+(0.5/(1+M))$	1.25	1.25	1.25	1.25
Fc = $0.21 \times Td(1+0.2 \times X2)$	0.67	0.66	0.69	0.75
Qe = $K(F-Fc)Qc$	911	1733	1965	1741

DFC = Design flow/Capacity = Q/Qe

Total In Sum =

3055 PCU

DFC of Critical Approach = 0.65

LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION			
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Island Lot No. 40 S.C. Nos. 40-48 Pak Tin Far Street, Tsuen Wan, New Territories				PROJECT NO.: 40999			
J8 Sha Tsui Road / Tai Ho Road (W)				2033 Reference PM			
FILENAME: J8_STR_THRW.xlsx				Prepared By:			
				Checked By:			
				Reviewed By:			
				INITIALS			
				DATE			
				SKL			
				SLN			
				SLN			
				Dec-25			
				Dec-25			
				Dec-25			

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at 'Other Specified Uses' Annotated 'Business' Zone at Tsun Wan Inland Lot No. 48 S.C. Nos. 48-48 Pak Tin Par Street, Tsuen Wan, New Territories J8 Sha Tsui Road / Tai Ho Road (W)	2033 Design AM			PROJECT NO.:	40999	Prepared By:	Dec-25
				FILENAME:	J8_STR_THRW.xlsx	Checked By:	Dec-25
						Reviewed By:	Dec-25

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at Other Specified Uses' Annotated 'Business' Zone at Tsun Wan Inland Lot No. 48 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories

PROJECT NO.:	40999
--------------	-------

Prepared By:

SKL	D
-----	---

2033 Design PM

PROJECT NO.:	40699
FILE NAME:	19 STD THPW/√Cv

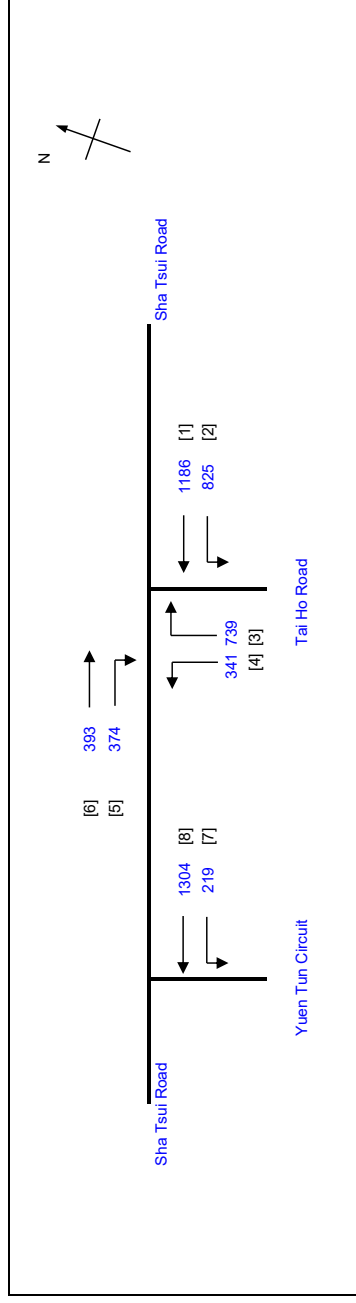
Checked By:	Prepared By:
-------------	--------------

D	13
D	14

J8 Sha Tsui Road / Tai Ho Road (W)

Reviewed By:

D	SLN
---	-----



	Stage 1	G = 13 Int = 5	
	Stage 2	G = 24 Int = 5	
	Stage 3	G = 25 Int = 5	
	Stage 4	G = 44 Int =	

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m / lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
1,2 1	1,4	4.00	1	67		N	2015	825	0	825	1.00	1971	28	290					2261	0.365	0.365	12	58	58	0.759	84	28	
	1,4	4.00	2				4310	1186	1186		0.00	4310	28	290					4600	0.258	0.258			41	58	0.759	78	35
7,8 8	1,2	3.50	1	37		N	1985	219	253	472	0.46	1929							1929	0.245	0.245		39	39	0.759	60	41	
	1,2	3.50	2				4210	1051	1051		0.00	4210	6	92					4302	0.244	0.244		39	39	0.759	69	37	
6 5	1,2	3.50	2			N	4070	393	393	393	0.00	4070							4070	0.097	0.097		15	39	0.759	33	55	
	2	3.50	1	15			2105			374	1.00	1914	20	480					2394	0.156	0.156		25	25	0.759	60	51	
4 3	2,3	3.50	1	78		N	1985	341		341	1.00	1928							1928	0.177	0.177		28	50	0.759	54	50	
	3	3.50	2	20			4210			739	1.00	3916	28	646					4562	0.162	0.162		26	26	0.759	57	45	

NOTE: O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Anticipated "Business Zone" at Tsun Wan Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories	2033 Design AM	PROJECT NO. : 40999	Prepared By:	Dec-25
J9 Sha Tsui Road / Tai Ho Road (E)		FILENAME : J9_STR_THRE.xlsx	Checked By:	Dec-25
			Reviewed By:	Dec-25

		No. of stages per cycle	N	3
		Cycle time	C	120 sec
		Sum(y)	Y	0.493
		Loss time	L	17 sec
		Total Flow		3307 pcu
		Co		60.2 sec
		Cm		33.5 sec
		Yult		0.773
		R.C.ult		56.7 %
		Cp		37.6 sec
		Ymax		0.858
		R.C.(C)		57 %

Pedestrian Phase	Stage	Green Time Required		Green Time Provided	
		SG	FG	SG	FG
P1	1	8	15	41	15
P2	1,3	5	9	70	9
P3	2,3	5	10	49	10
P4	2,3	5	9	51	9
P3	2	5	8	27	8

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation X	Queue Length (m /lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
2,3 1,2 1	1	3.30	1	10		N	1945	169	353	522	0.32	1855	12	131					1986	0.263		17	55	55	0.575	54	24	
	1	3.30	1	20			2085	194	362	556	0.65	1988	12	131					2119	0.262				55	55	0.575	60	24
	1	3.30	1	20			2085		510	510	1.00	1940							1940	0.263	0.263			55	55	0.575	54	24
8	1,3	3.50	1	45		N	1965	714		714	1.00	1902	12	97					1999	0.357			74	74	0.575	54	14	
5,6	2,3	3.40	1	65		N	1955	161	208	369	0.44	1936							1936	0.191			40	48	0.575	48	33	
4	2	3.40	1	10			2095			254	1.00	1822							1822	0.139	0.139		29	29	0.575	36	41	
7	3	3.50	2				4210		382	382	0.00	4210							4210	0.091	0.091		19	19	0.575	30	45	

NOTE :

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

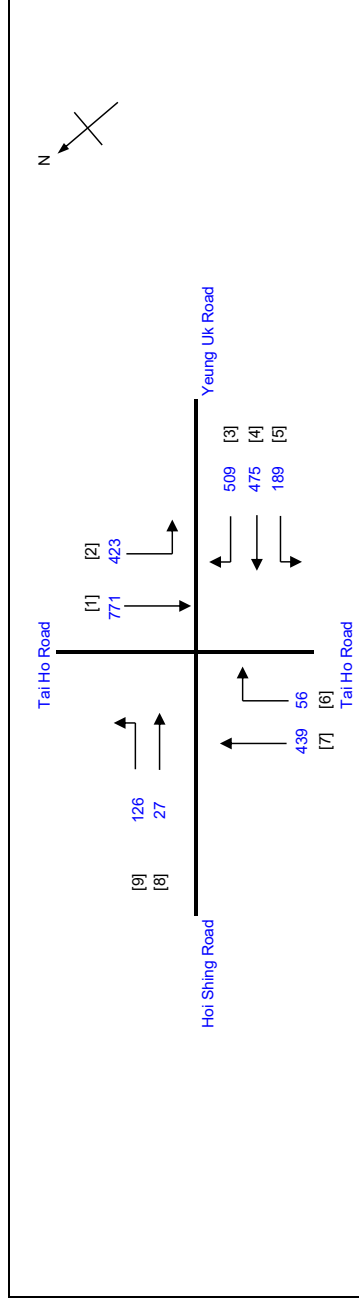
LLA CONSULTANCY LIMITED				TRAFFIC SIGNAL CALCULATION			
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business" Zone at Tsun Wan Island Lot No. 48 S.C. Nos. 48-48 Pak Tin Par Street, Tsuen Wan, New Territories				PROJECT NO.: 40999			
J10 Tai Ho Road / Yeung Uk Road				2033 Reference AM			
				Prepared By: SKL			
				Checked By: SLN			
				Reviewed By: SLN			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			
				Dec-25			

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses Annotated "Business" Zone at Tsun Wan Inland Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories	2033 Reference PM PROJECT NO.: 40999 FILENAME: J10_THR_YUR.xlsx		Prepared By:	Dec-25
J10 Tai Ho Road / Yeung Uk Road			Checked By:	Dec-25
			Reviewed By:	Dec-25

		No. of stages per cycle = 4
Cycle time	120 sec	
Sum(γ)	0.621	
Loss time	22 sec	
Total Flow	3015 pcu	
Co	$= (1.5 \cdot L + 5) / (1 - \gamma)$	
Cm	$= L / (1 - \gamma)$	
γ_{ult}	0.735	
R.C.ult	$= (\gamma_{ult} - \gamma) / \gamma * 100\%$	
Cp	$= 0.9 \cdot L / (0.9 - \gamma)$	
γ_{max}	$= 1 - L / C$	
R.C.(C)	$= (0.9 * \gamma_{max} - \gamma) / \gamma * 100\%$	18 %



Pedestrian Phase	Stage	Green Time Required SG FG Delay	Green Time Provided SG FG
P1	2,3	5 11 5	29 11
P2	1,3,4	5 11 2	79 11
P3	1,2	5 8 7	49 8

Move- ment	Stage	Lane Width m.	No. of lane	Radius m.	O	N	Straight- Ahead Sat. Flow	Movement			Total Flow pcu/h	Proportion of Turning Vehicles	Sat. Flow pcu/h	Flare Lane m.	Flare Effect pcu/hr	Site Factor	Site Effect pcu/hr	Gradient %	Gradient Effect pcu/hr	Revised Sat. Flow pcu/h	y	Greater y	L sec	g (required) sec	g (input) sec	Degree of Saturation	Queue Length (m /lane)	Average Delay (seconds)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
2 1	1,4 1	3.40	2	16		N	4050	423		423	1.00	3703							3703	0.114		22	18	65	0.761	36	53	
		3.40	2				4190	771		771	0.00	4190							4190	0.184	0.184			29	29	0.761	57	43
7 6	2 2	3.30	2			N	4030			439	0.00	4030			-806				3224	0.136	0.136		21	21	0.761	36	51	
		3.30	2	18			4170			56	1.00	3849	0.8	0.8	-770				3079	0.018	0.018		3	21	0.761	6	122	
9 8	3 3	3.65	1	10		N	1980	126		126	1.00	1722							1722	0.073	0.073		12	12	0.761	24	79	
		3.65	1				2120	27		27	0.00	2120							2120	0.013	0.013		2	12	0.761	6	198	
5 4,5 3	4 4 4	3.30	1	17		N	1945	189		189	1.00	1787							1787	0.106	0.106		17	36	0.761	36	65	
		3.30	1				2085	475		475	0.00	2085							2085	0.228	0.228		36	36	0.761	66	43	
		3.30	2	21			4170	509		509	1.00	3892							3892	0.131	0.131		21	36	0.761	42	50	

NOTE : O - OPPOSING TRAFFIC
N - NEAR SIDE LANE
SG - STEADY GREEN
FG - FLASHING GREEN
PEDESTRIAN WALKING SPEED = 1.2m/s
QUEUING LENGTH = AVERAGE QUEUE * 6m

Appendix C

Indicative Ground Floor Layout Plan

