

Appendix D

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 September 2025
	Approved by: SLN	SLN	Date: 15 September 2025
	Revision No.: -		Date of Issue: 15 September 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, a traffic count survey was carried out at the following locations in the vicinity of the Site on 4 September 2025 (Thursday) 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, which are the same as the approved TIA report for the Previous Scheme, 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

- 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%

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 minibuses (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.

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
	235	Kwai Chung (On Yam Estate) – Tsuen Wan (Circular)	8 – 20

Mode	Route No.	Origin - Destination	Frequency (min)
	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
	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	0.56	0.60
J3	Tai Chung Road / Sha Tsui Road	Signalized/RC	40%	42%	40%	41%

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.

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.

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	2
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
Lay-by for single deck tour bus	1 lay-by 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. lay-by for single deck tour bus 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. ($2 \times 65\% = 1.3$, 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.

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
Lay-by for Single Deck Tour Bus	3.5m (W) x 12.0m (L) x 3.8m (H)	1

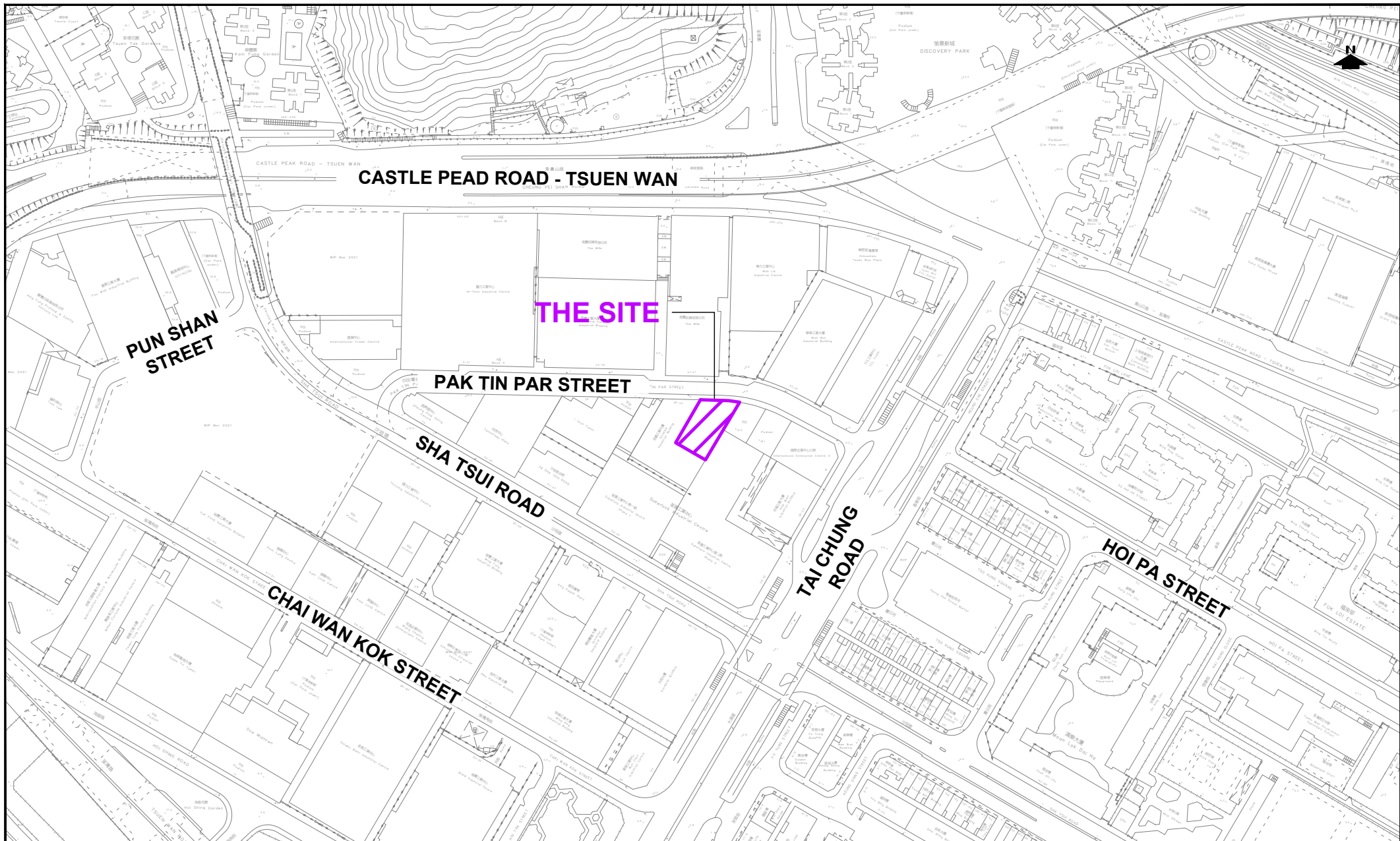
6 SUMMARY AND CONCLUSION

6.1 Summary

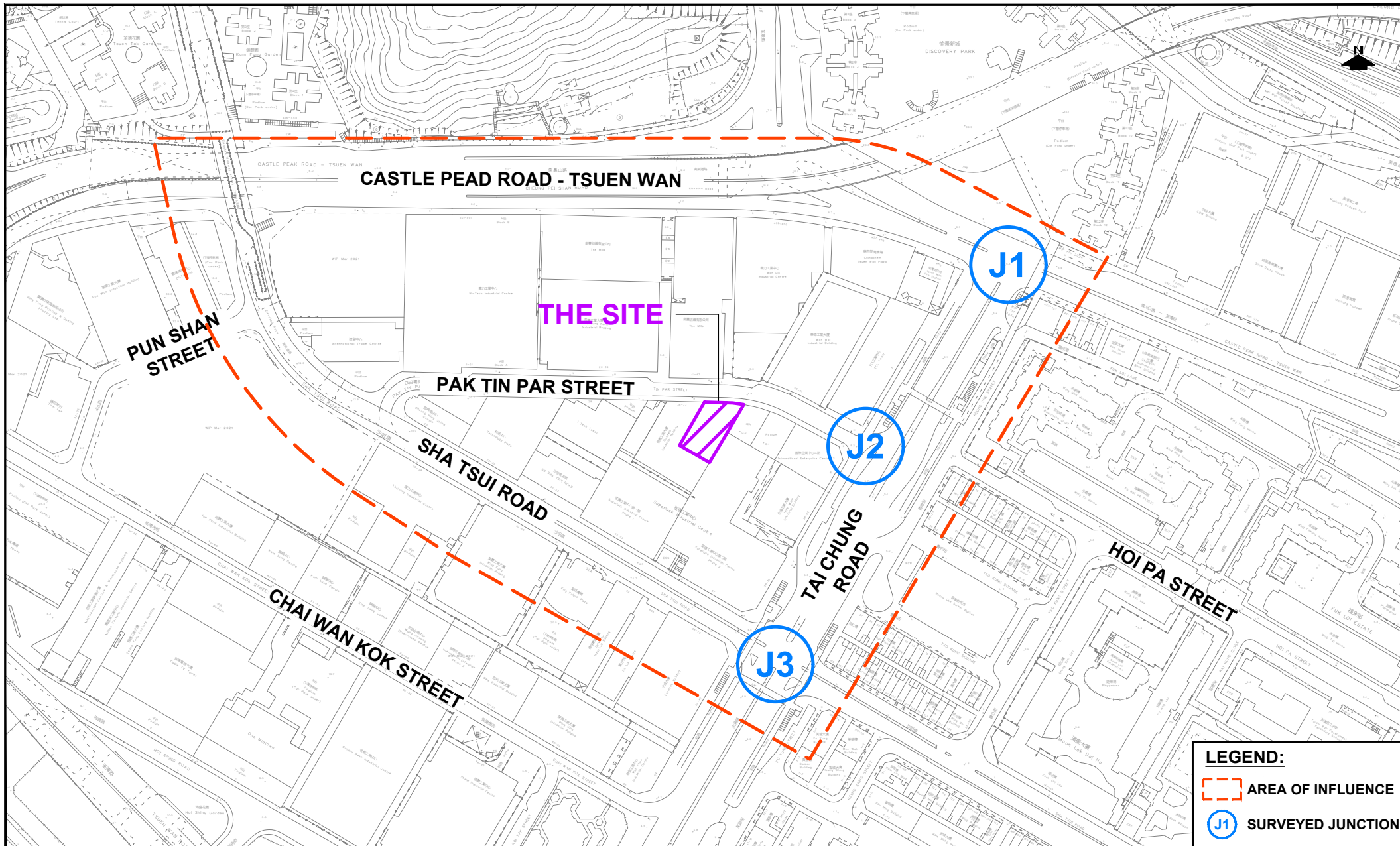
- 6.1.1 The owner of Tsuen Wan Inland Lot No. 46 S.C intends to redevelop the Site into a hotel development.
- 6.1.2 A traffic count survey was carried out on 4 September 2025 (Thursday) during the peak hour period from 07:30 to 9:30 and 17:00 to 19:00 at the identified key junctions, and the AM and 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 lay-by for single-deck tour buses 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					



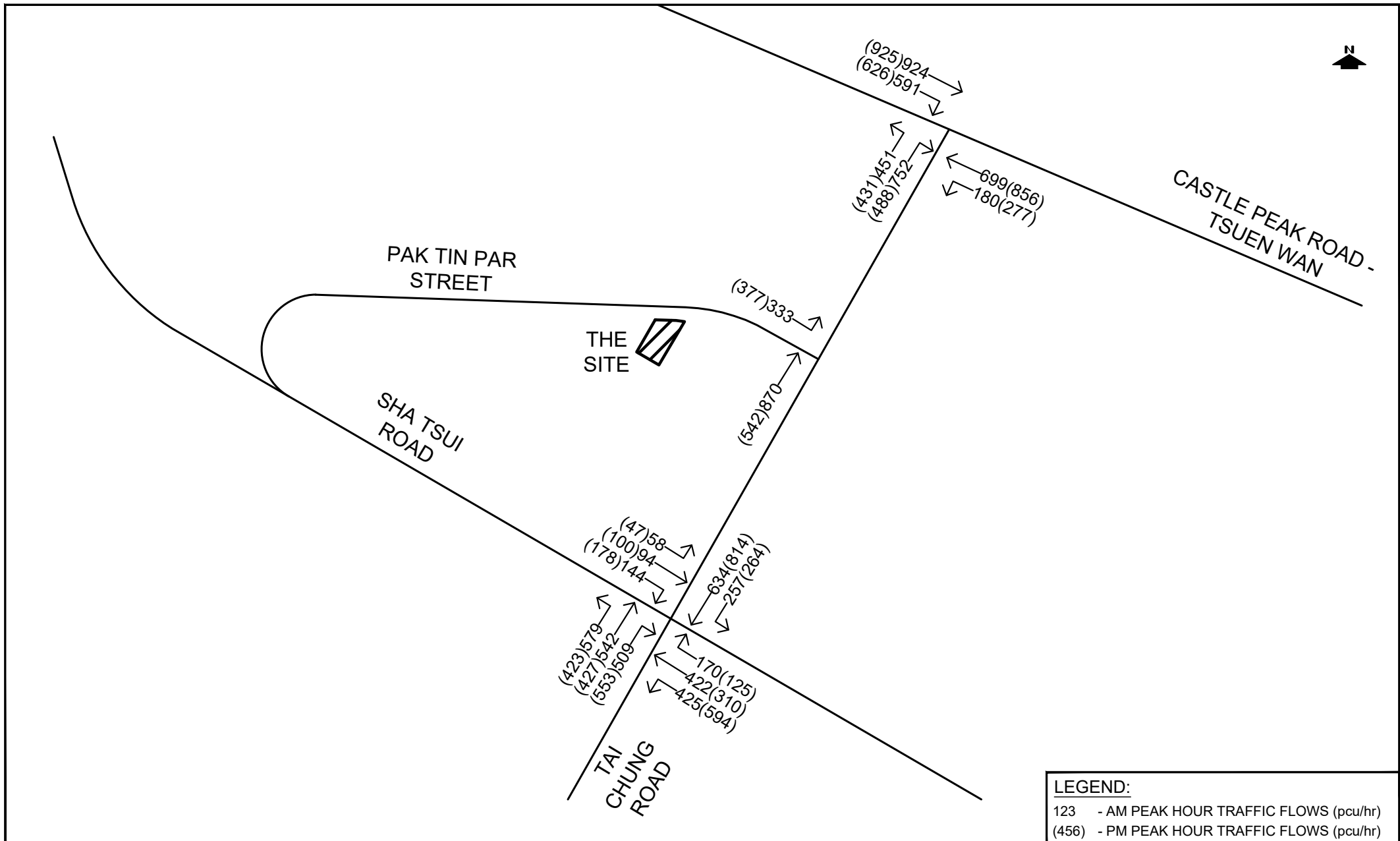
LEGEND:

AREA OF INFLUENCE

J1

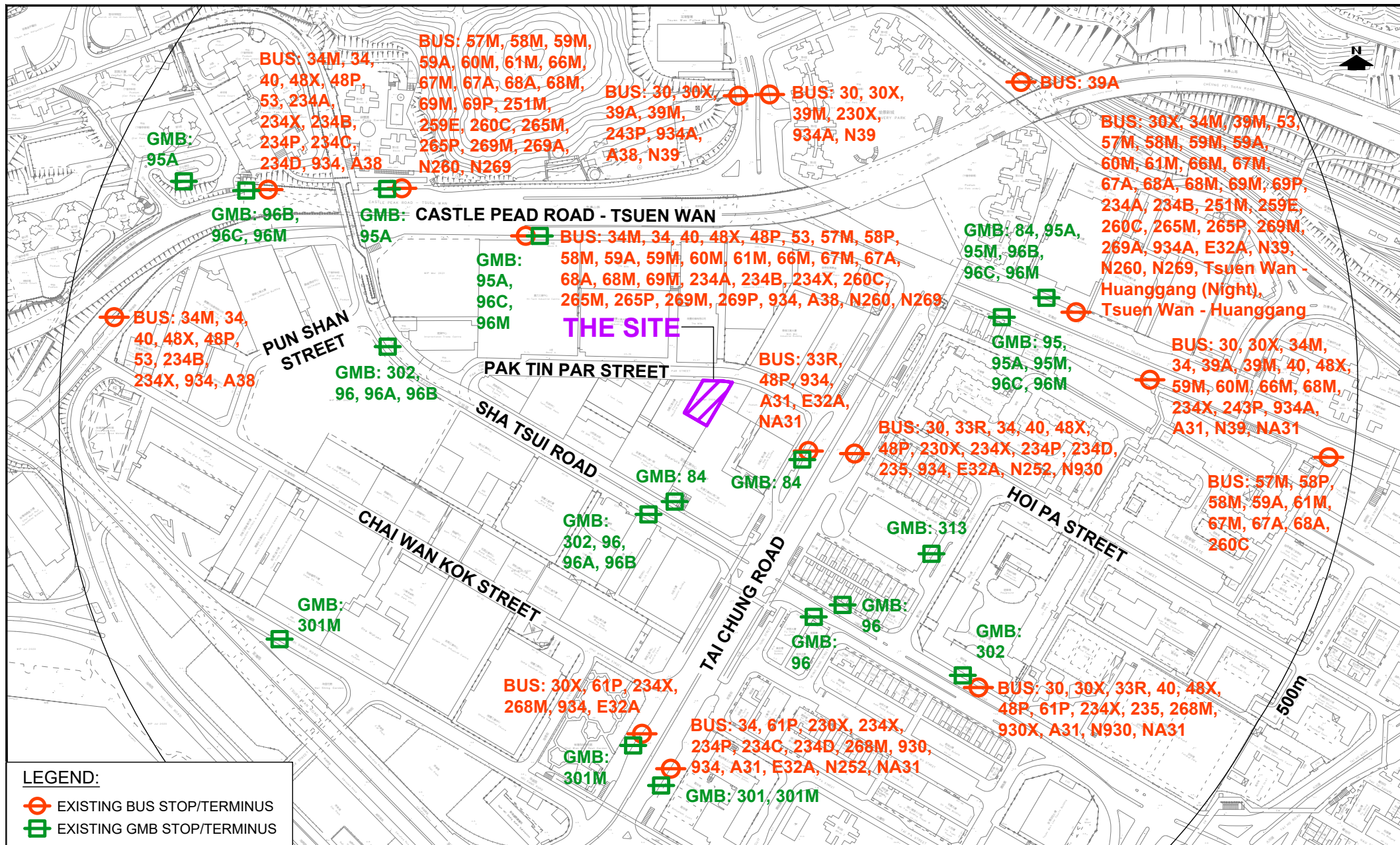
SURVEYED JUNCTION

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 3.1	REV. .
DESIGNED SKL	DATE JUL 2025	DRAWING TITLE AREA OF INFLUENCE AND LOCATION OF SURVEYED JUNCTIONS		LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE 1:3000				
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 3.2	REV. .
DESIGNED SKL	DATE SEP 2025	2025 EXISTING PEAK HOUR TRAFFIC FLOW			
DRAWN CLL	SCALE N.T.S.				
CHECKED SLN					

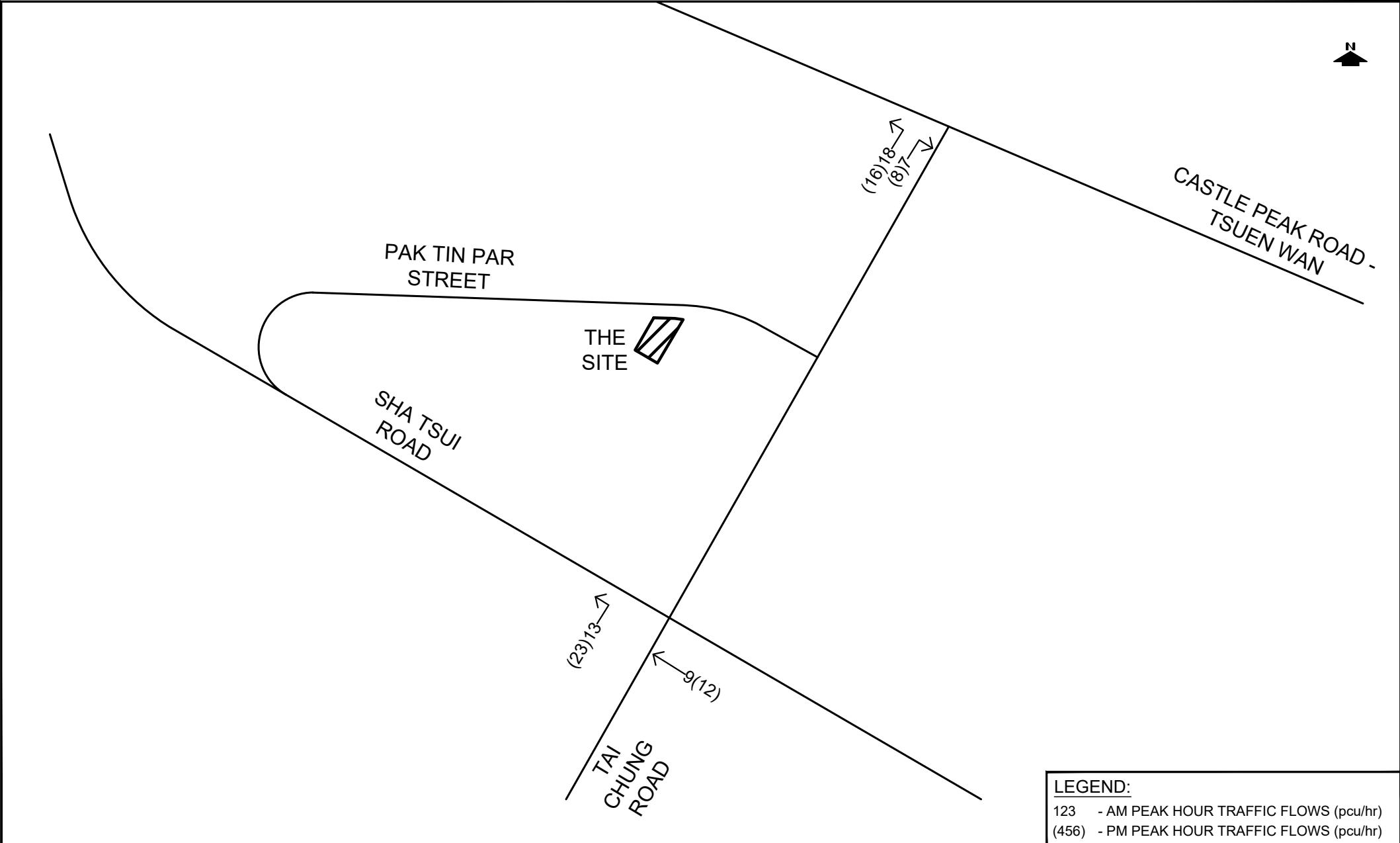
LLA 顧問有限公司
Consultancy Limited



LEGEND:

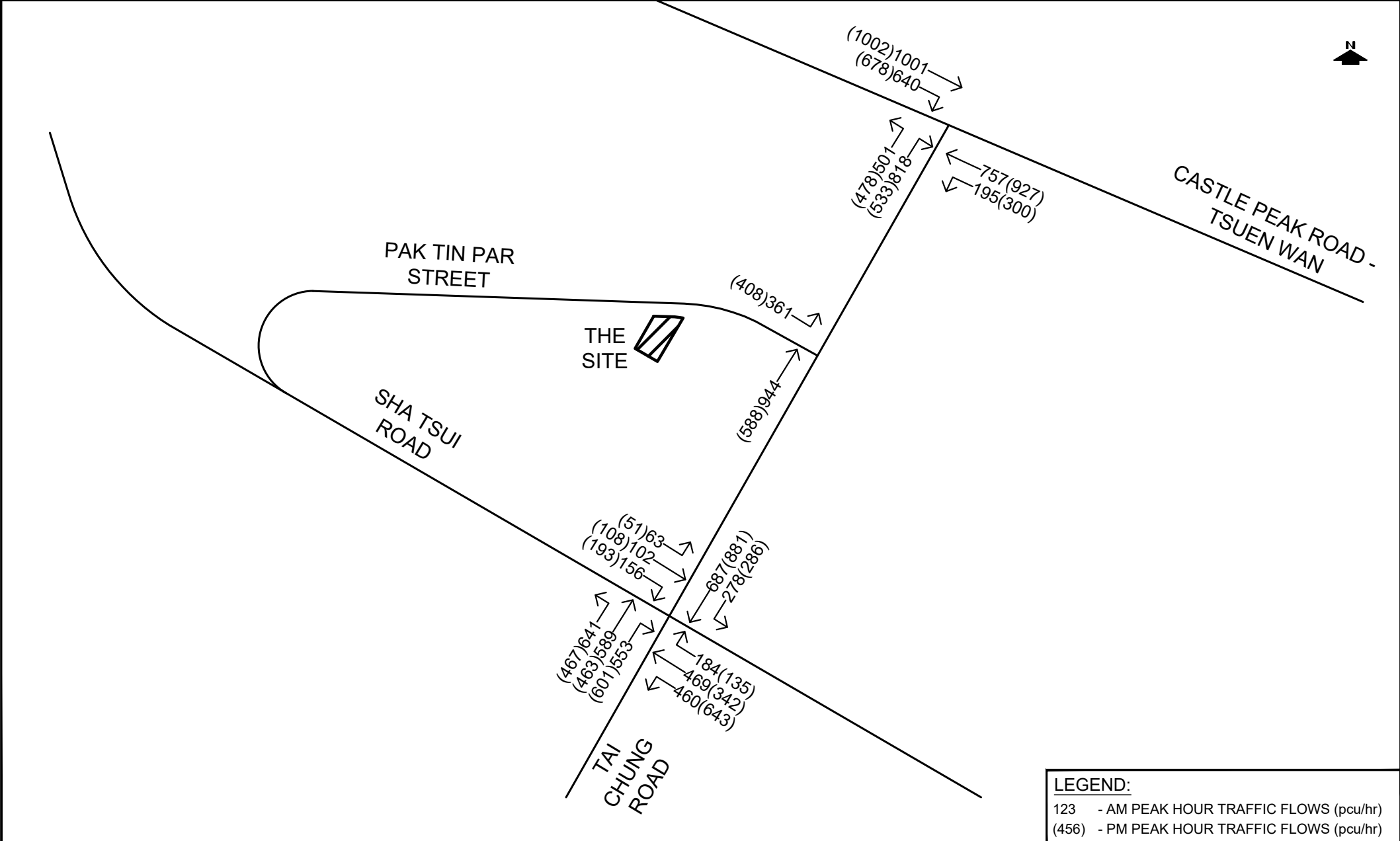
- EXISTING BUS STOP/TERMINUS
- EXISTING GMB STOP/TERMINUS

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 JUL 2025	DRAWING TITLE PUBLIC TRANSPORT SERVICES IN THE VICINITY				LLA 顧問有限公司 Consultancy Limited	
DRAWN CLL	SCALE 1:4000						
CHECKED SLN							

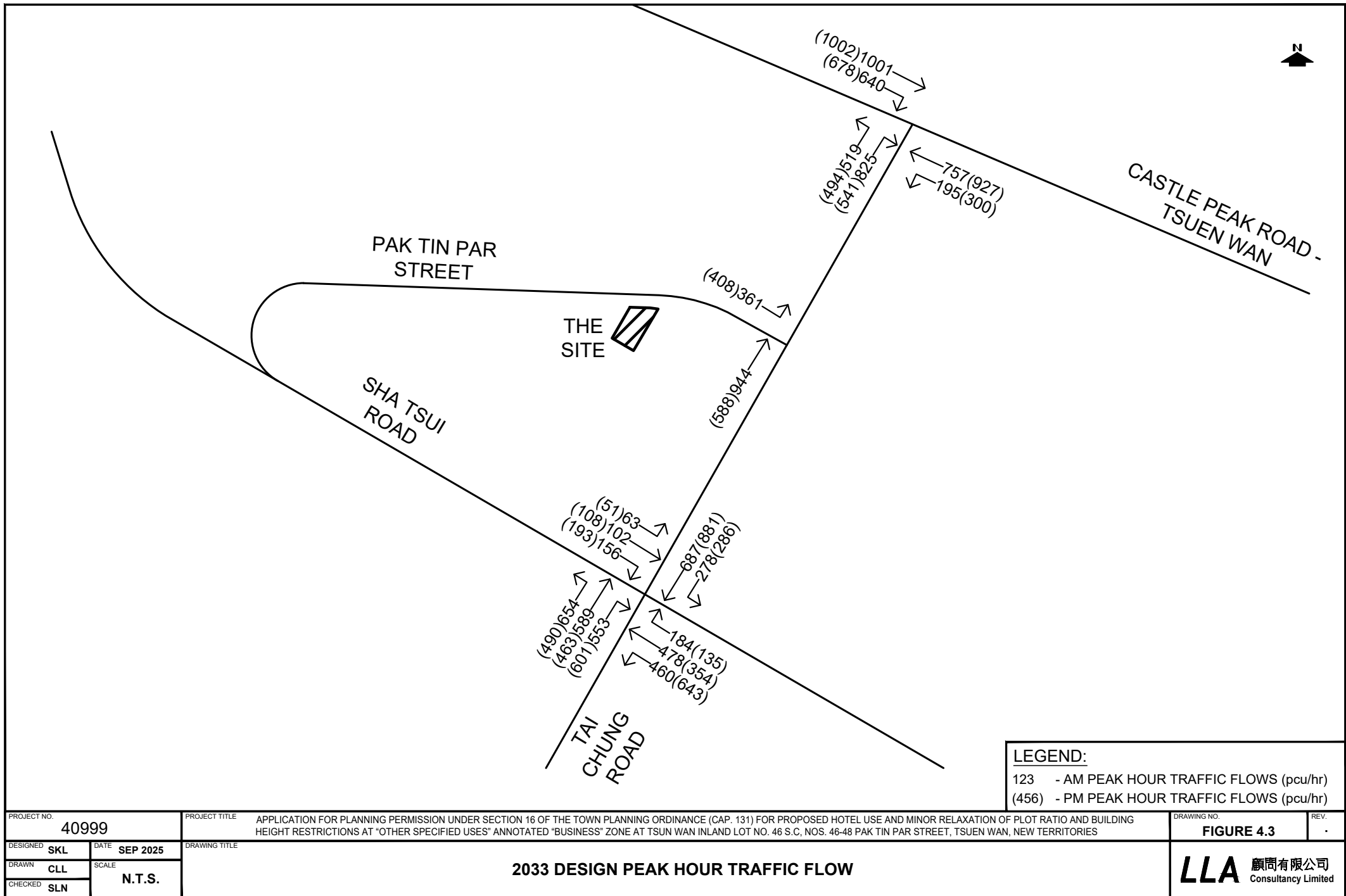


LEGEND:		
123	- AM PEAK HOUR TRAFFIC FLOWS (pcu/hr)	
(456)	- PM PEAK HOUR TRAFFIC FLOWS (pcu/hr)	

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. .
DESIGNED SKL	DATE SEP 2025	DRAWING TITLE ADDITIONAL DEVELOPMENT 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. .
DESIGNED SKL	DATE SEP 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					



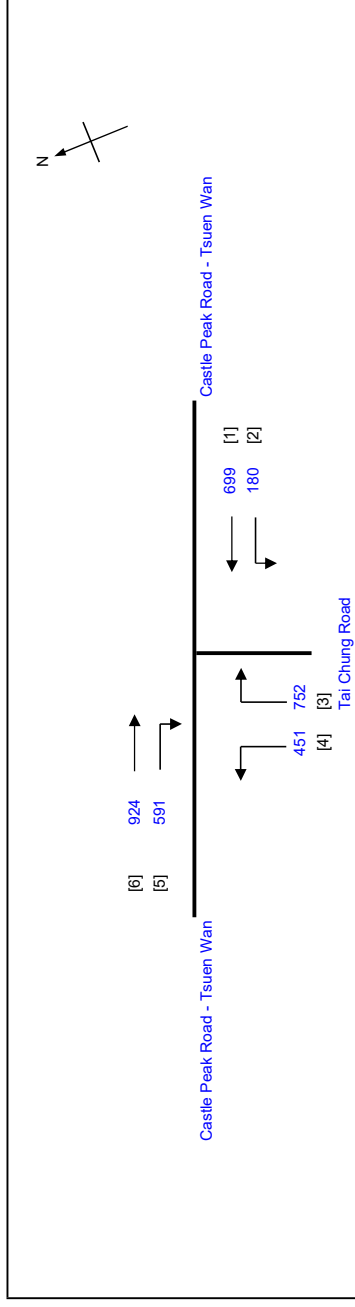
Appendix A

Junction Calculation Sheets - Existing Scenario

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 Island Lot No. 46 S.C. Nos. 46-48 Pak Tin Par Street, Tsuen Wan, New Territories	PROJECT NO.: 40999 FILENAME: J1_CPRTW_TCR.xlsx	Prepared By: Checked By: Reviewed By:	Sep-25 Sep-25 Sep-25
----	---	---	---	---	----------------------------

[illegible]

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			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	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

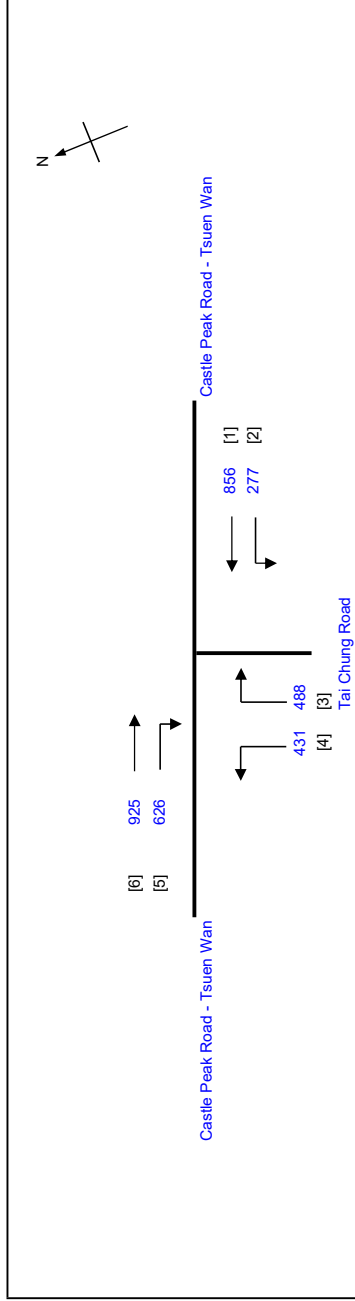
PEDESTRAIN WALKING SPEED = 1.2m/s

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" 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:	SKL	Sep-25
				FILENAME:	J1_CPRTW_TCR.xlsx	Checked By:	SLN	Sep-25
J1 Castle Peak Road – Tsuen Wan / Tai Chung Road						Reviewed By:	SLN	Sep-25



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

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

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																		
6 5	1,2 2	3.00 3.00	2 2			N	3970 4110		925 626	0.00 1.00	3970 3685									3970 3685	0.233 0.170		14	51 37	79 37	0.558 0.558	54 42	25 34
	1,2 1	3.40 3.20	1 2			N	1955 4150	277 794	339 794	0.82 0.00	1774 4150									1774 4150	0.191 0.191			42 42	42 42	0.558 0.558	42 51	33 31
4 3	2,3 3	3.00 3.00	2 2	13 13		N	3970 4110	431 488	431 488	1.00 1.00	3559 3685									3559 3685	0.121 0.132	0.132		26 29	66 29	0.558 0.558	33 36	41 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

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. 48-49 Pak Tin Par Street, Tsuen Wan, New Territories

2025 Existing AM

PROJECT NO.:	40995
FILE NAME:	13 TO

Prepared By:	
Checked By:	

PROJECT NO.:	40999
FILE NAME:	13 TCR STR v1sv

Prepared By:	
Checked By:	

Prepared By:	
Checked By:	

SKL	SIN
-----	-----

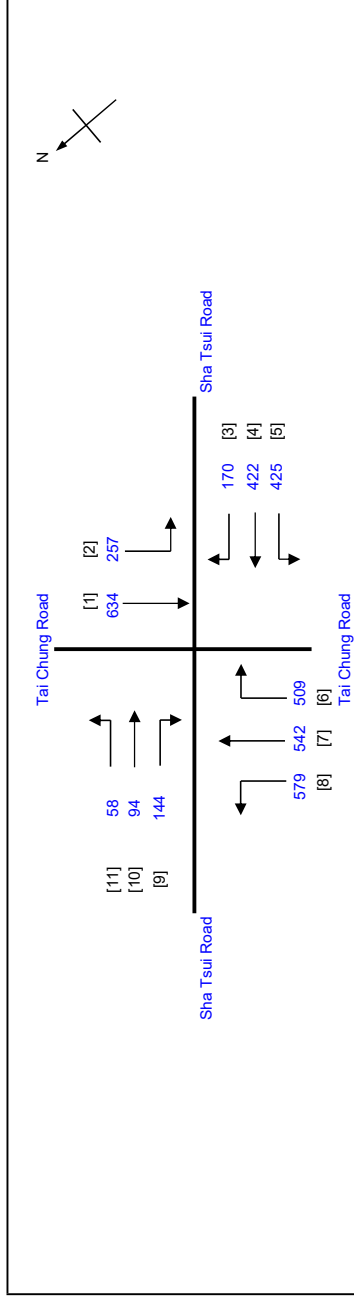
SKL	S
SIN	S

SKL	Sep-25
SIN	Sep-25

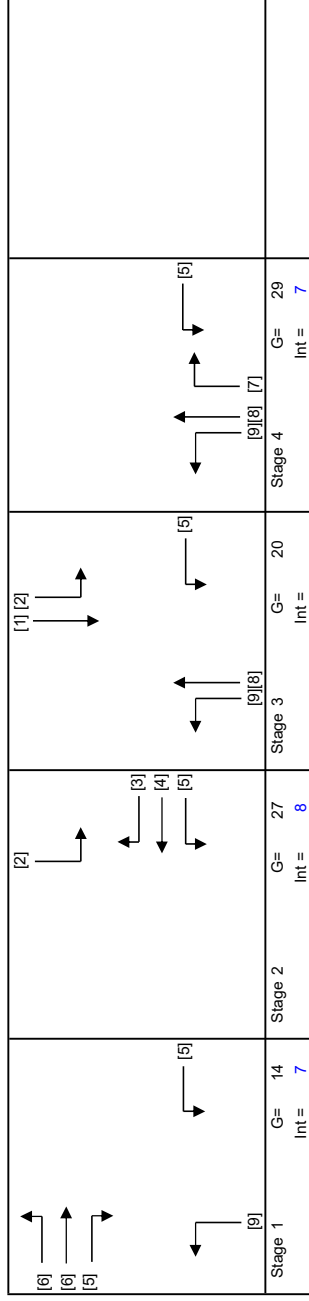
SKL	Sep-25
SIN	Sep-25

SKL	Sep-25
SIN	Sep-25

SKL	Sep-25
SIN	Sep-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	=	65.5 sec
Cm	=	37.1 sec
Yult	=	0.758
R.C.ult	=	55.1 %
Cp	=	41.5 sec
Ymax	=	0.830
R.C.(C)	=	53 %
		$= (0.9 \cdot Y_{\max} - Y) / Y \cdot 100\%$



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

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	20	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		170	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	50	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	509	1.00	3671						3671	0.139			30	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 Inland 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 TO

PROJECT NO.:	40999
FILE NAME :	13 TCR STR y/sy

Prepared By:	
Checked By:	

Prepared By:	
Checked By:	

Prepared By:	
Checked By:	

SKL	S
SIN	S

SKL	S
SIN	S

SKL	S
SIN	S

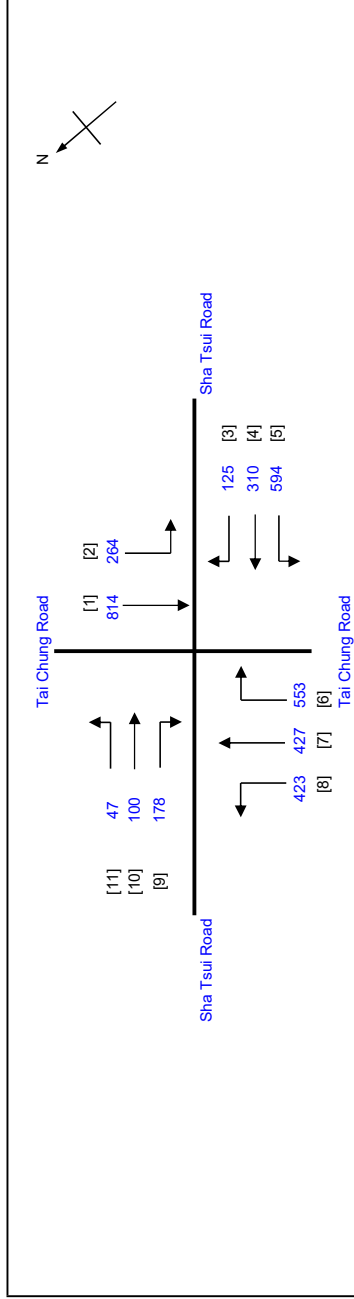
SKL	S
SIN	S

SKL	S
SIN	S

SKL	S
SIN	S

SKL	S
SIN	S

SKL	S
SIN	S



No. of stages per cycle	N =	4
Cycle time	C =	120 sec
Sum(y)	Y =	0.485
Loss time	L =	20 sec
Total Flow	=	3241 pcu
Co	= $(1.5^*L+5)/(1-Y)$	68.0 sec
Cm	= $L/(1-Y)$	38.8 sec
Yult	=	0.750
R.C.ult	= $(Yult-Y)/Y^*100\%$	54.6 %
Cp	= $0.9^*L/(0.9-Y)$	43.4 sec
Ymax	= $1-L/C$	0.833
R.C.(C)	= $(0.9^*Ymax-Y)/Y^*100\%$	55 %

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)
								Left pcu/h	Straight pcu/h	Right pcu/h																		
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		0	178	1.00	1860						1860	0.096	0.096	20		20	0.582	24	49		
2 1	2,3	3.00	2	12		N	3970	264	814	264	1.00	3529						3529	0.075			15	49	0.582	21	49		
	3	3.00	3				6165			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	228	0.00	2135							2135	0.107			22	22	0.582	36	46	
	2	3.00	1	15			2055		82	125	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	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

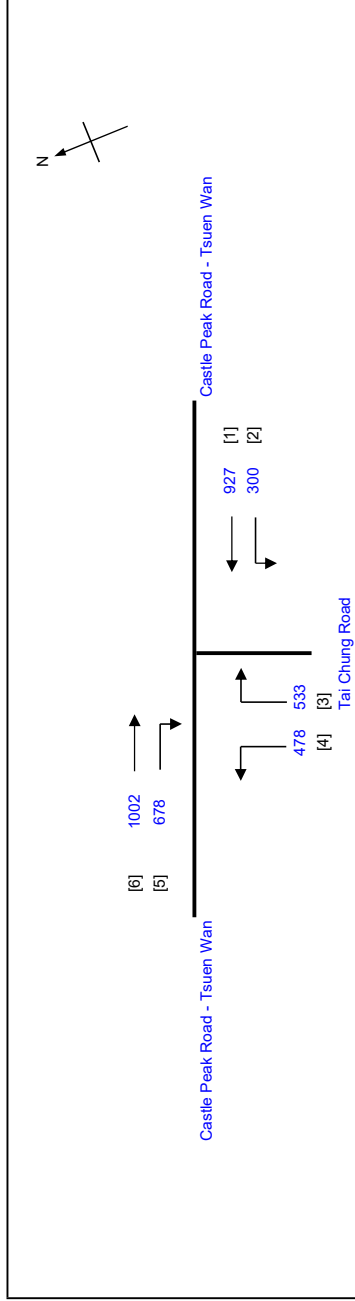
Appendix B

Junction Calculation Sheets - Reference & Design Scenarios

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	J1	Castle Peak Road – Tsuen Wan / Tai Chung Road	2033 Reference PM				PROJECT NO. : 40999	Prepared By:	SKL	Sep-25
			FILENAME : J1_CPRTW_TCR.xlsx	Checked By:	SLN	Sep-25				
				Reviewed By:	SLN	Sep-25				



No. of stages per cycle	N =	3
Cycle time	C =	122 sec
Sum(y)	Y =	0.536
Loss time	L =	14 sec
Total Flow	=	3918 pcu
Co	= $(1.5*L+5)/(1-Y)$	56.0 sec
Cm	= $L/(1-Y)$	30.2 sec
Yult	=	0.795
R.C.ult	= $(Yult-Y)/Y*100\%$	48.3 %
Cp	= $0.9*L/(0.9-Y)$	34.6 sec
Ymax	= $1-L/C$	0.885
R.C.(C)	= $(0.9*Ymax-Y)/Y*100\%$	49 %

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

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

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	13		N	3970 4110		1002 678	0.00 1.00	3970 3685									0.252 0.184			14	51 37	79 37	0.606 0.606	57 45	26 35
	1,2 1	3.40 3.20	1 2				1955 4150	300 859	0.82 0.00	1774 4150	0.207 0.207									1774 4150				0.207 0.207	42 42	42 42	0.606 0.606	48 57
4 3	2,3 3	3.00 3.00	2 2	13 13		N	3970 4110		478 533	1.00 1.00	3559 3685									0.134 0.145				66 29	0.606 0.606	36 39	42 40	

NOTE:

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

FG - FLASHING GREEN

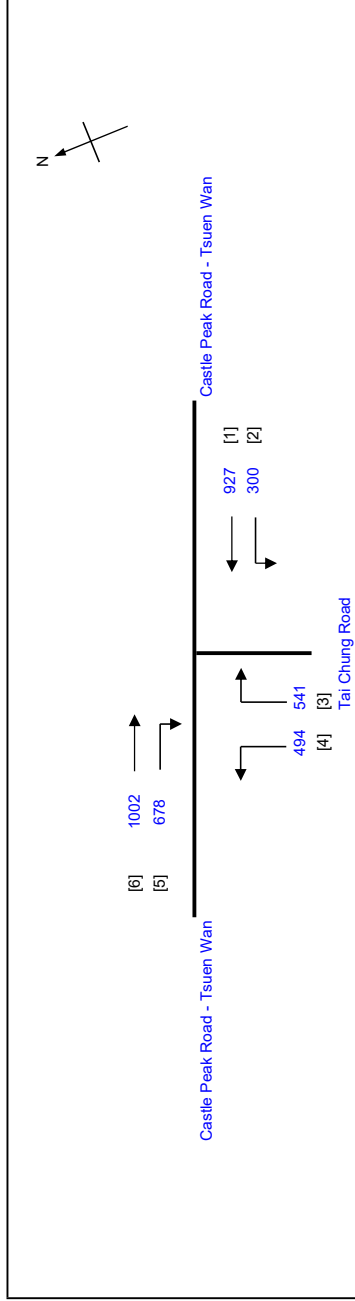
PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

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 Design PM	PROJECT NO.:	40999	Prepared By:	SKL	Sep-25
				FILENAME :	J1_CPRTW_TCR.xlsx	Checked By:	SLN	Sep-25
						Reviewed By:	SLN	Sep-25



No. of stages per cycle	N	3
Cycle time	C	122 sec
Sum(y)	Y	0.538
Loss time	L	14 sec
Total Flow	=	3942 pcu
Co	=	56.3 sec
Cm	=	30.3 sec
Yult	=	0.795
R.C.ult	=	47.7 %
Cp	=	34.8 sec
Ymax	=	0.885
R.C.(C)	=	48 %

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

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

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	1,2	3.00	2			N	3970		1002		0.00	3970								3970	0.252		14	51	79	0.608	57	27
5	2	3.00	2	13			4110			678	1.00	3685								3685	0.184	0.184		37	37	0.608	48	35
1,2	1	3.40	1	12		N	1955				0.82	1774								1774	0.207	0.207		42	42	0.608	48	34
1	1	3.20	2				4150		300	859	0.00	4150								4150	0.207	0.207		42	42	0.608	57	32
4	2,3	3.00	2	13		N	3970	494			1.00	3559								3559	0.139			28	66	0.608	36	41
3	3	3.00	2	13			4110			541	1.00	3685								3685	0.147	0.147		29	29	0.608	39	40

NOTE:

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

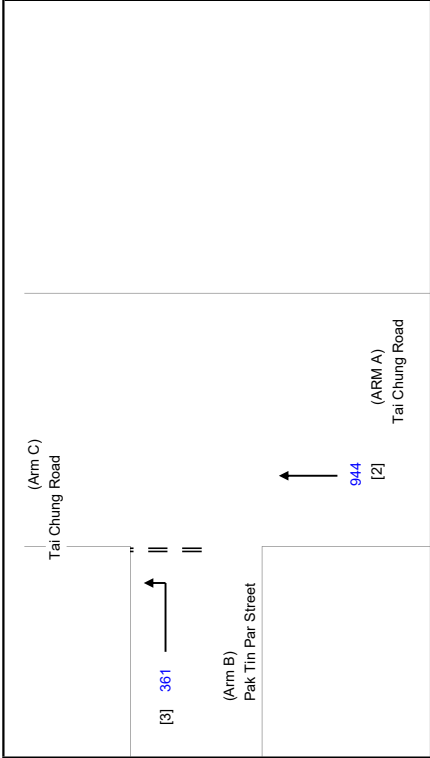
SG - STEADY GREEN

FG - FLASHING GREEN

PEDESTRAIN WALKING SPEED = 1.2m/s

QUEUING LENGTH = AVERAGE QUEUE * 6m

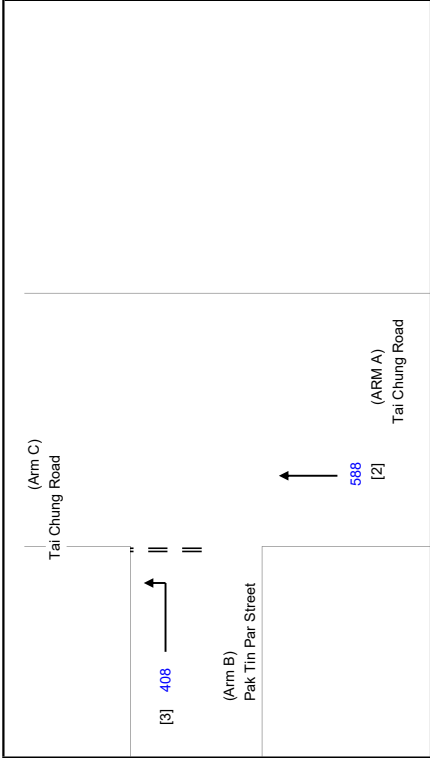
LLA CONSULTANCY LIMITED		PRIORITY JUNCTION CALCULATION		INITIALS	DATE
Application for Planning Permission Under Section 16 of the Town Planning Ordinance (Cap. 131) for Proposed Hotel Use and Minor Relaxation of Plot Ratio and Building Height Restrictions at "Other Specified Uses" Annotated "Business"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



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
V b-a	= VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
V b-b	= 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:		GEOMETRIC FACTORS :		THE CAPACITY OF MOVEMENT :		COMPARISON OF DESIGN FLOW TO CAPACITY:	
MAJOR ROAD (ARM A)							
W	= 20.00 (metres)	D	= 0.53322	Q b-a	= 303	DFC b-a	= 0.0000
W cr	= 3.4 (metres)	E	= 1.00215	Q b-c	= 640	DFC b-c	= 0.5641
q a-b	= 0 (pcu/hr)	F	= 0.58595	Q c-b	= 374	DFC c-b	= 0.0000
q a-c	= 944 (pcu/hr)	Y	= 0.31000	Q b-ac	= 640	DFC b-c (share lane)	= 0.5641
MAJOR ROAD (ARM C)		F for (Qb-ac) = 1		TOTAL FLOW = 1305 (PCU/HR)			
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 b-a	= 0 (metres)						
Vr b-a	= 0 (metres)						
Vr b-c	= 40 (metres)						
q b-a	= 0 (pcu/hr)						
q b-c	= 361 (pcu/hr)						
CRITICAL DFC						=	0.56

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 Reference PM		PROJECT NO.: 40999	PREPARED BY: SKL
				FILENAME: J2_TCR_PTP	CHECKED BY: SLN
				REFERENCE NO.:	REVIEWED BY: SLN
J2	Tai Chung Road / Pak Tin Par Street				Sep-25



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 V 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 Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c Vr 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 = 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) Vi b-a = 0 (metres) Vr b-a = 0 (metres) Vr b-c = 40 (metres) q b-a = 0 (pcu/hr) q b-c = 408 (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 = 996 (PCU/HR)		COMPARISON OF DESIGN FLOW TO CAPACITY: DFC b-a = 0.0000 DFC b-c = 0.6000 DFC c-b = 0.0000 DFC b-c (share lane) = 0.6000		CRITICAL DFC = 0.60	
--	--	---	--	---	--	--	--	----------------------------	--

LLA CONSULTANCY LIMITED

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

J2 Tai Chung Road / Pak Tin Par Street

PRIORITY JUNCTION CALCULATION

2033 Design PM

PROJECT NO.: 40999

FILENAME: J2_TCR_PTP CHECKED BY:

REFERENCE NO.: _____

REVIEWED BY: _____

INITIALS	DATE
----------	------

SKL	Sep-25
-----	--------

SLN	Sep-25
-----	--------

SLN	Sep-25
-----	--------

DATE _____

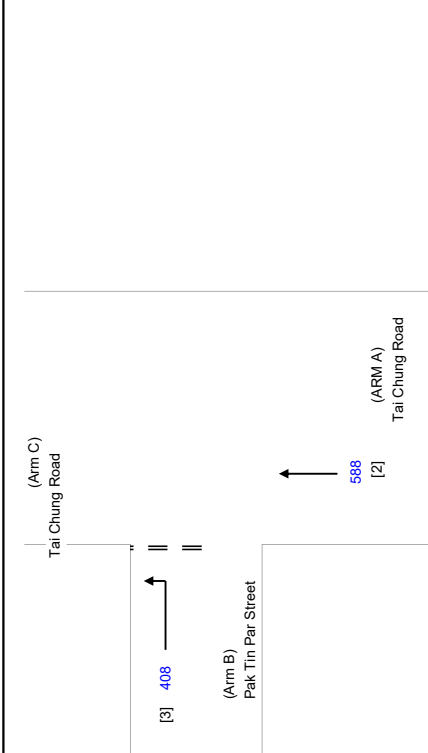
Sep-25

Sep-25

Sep-25

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
W _{l-b-a}	=	VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
W _{r-b-a}	=	VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
W _{l-b-c}	=	VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-c
W _{r-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)
V	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 =	408	(pcu/hr)

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

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

GEOMETRIC FACTORS :

$Q_{b-a} =$	324
$Q_{b-c} =$	680
$Q_{c-b} =$	398
$Q_{b-ac} =$	680

TOTAL FLOW = 996 (PCU/HR)

THE CAPACITY OF MOVEMENT :

DFC b-a
DFC b-c
DFC c-b
DFC b-c

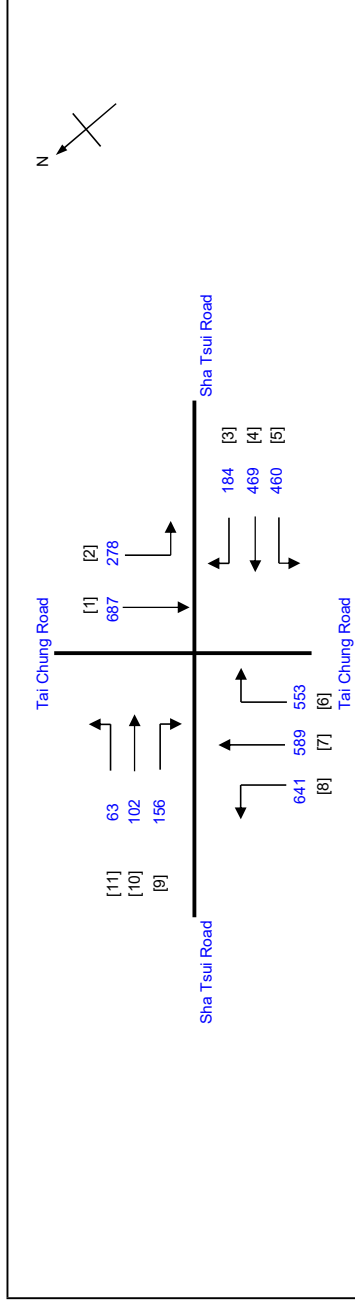
lane)	=	0.0000
=	=	0.6000
=	=	0.0000
=	=	0.6000

CRITICAL DFC = 0.60

LLA CONSULTANCY LIMITED

TRAFFIC SIGNAL CALCULATION

J3	Tai Chung Road / Sha Tsui 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 Tsun 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 :	J3_TCR_STR.xlsx
Prepared By:	
Checked By:	
Reviewed By:	
Sep-25	SKL
Sep-25	SLN
Sep-25	SLN



No. of stages per cycle	N =	4
Cycle time	C =	112 sec
Sum(y)	Y =	0.533
Loss time	L =	19 sec
Total Flow	=	3722 pcu
Co	= $(1.5^*L+5)/(1-Y)$	71.7 sec
Cm	= $L/(1-Y)$	40.7 sec
Yult	=	0.758
R.C.ult	= $(Yult-Y)/Y^*100\%$	42.1 %
Cp	= $0.9^*L/(0.9-Y)$	46.6 sec
Ymax	= $1-L/C$	0.830
R.C.(C)	= $(0.9^*Ymax-Y)/Y^*100\%$	40 %

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

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

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				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			47 19	47 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		28 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	0.285		62 50	65 50	0.642 0.642	48 60	18 25	
	4	3.10	2	12			4130			553	1.00	3671							3671	0.151			26 30	30	0.642	39	38	

NOTE:

O - OPPOSING TRAFFIC

N - NEAR SIDE LANE

SG - STEADY GREEN

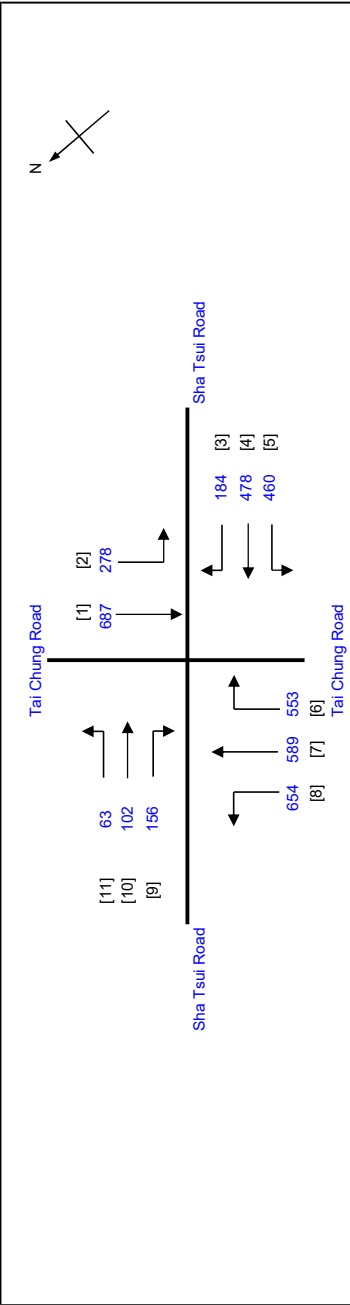
FG - FLASHING GREEN

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' Annulated '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:	SKL
J3 Tai Chung Road / Sha Tsui Road				2033 Reference PM		Checked By:	SLN
				FILENAME : J3_TCR_STR.xlsx		Reviewed By:	SLN
							Sep-25
							Sep-25
							Sep-25
				No. of stages per cycle Cycle time Sum(y) Loss time Total Flow Co Crm Yult R.C.ult Cp Ymax			
				N = 4 C = 120 sec Y = 0.527 L = 20 sec = 3527 pcu = 74.1 sec = 42.3 sec = 0.750 = 42.2 % = 48.3 sec = 0.833			
				R.C.(C) = 0.9*Ymax-Y/Y*100% = 42 %			
				Pedestrian Phase	Stage	Green Time Required SG FG Delay	Green Time Provided SG FG

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:	SKL	Sep-25
										FILENAME : J3_TCR_STR.xlsx										Checked By:	SLN	Sep-25
J3 Tai Chung Road / Sha Tsui Road																				Reviewed By:	SLN	Sep-25

									
No. of stages per cycle N = 4 Cycle time C = 112 sec Sum(y) Y = 0.535 Loss time L = 19 sec Total Flow = 3744 pcu Co = (1.5*L+5)/(1-Y) = 72.1 sec Cm = L/(1-Y) = 40.9 sec Yult = 0.758 R.C.ult = (Yult-Y)*Y*100% = 41.6 % Cp = 0.9*L/(0.9-Y) = 46.9 sec Ymax = 1-L/C = 0.830									
R.C.(C) = [0.9*Ymax-Y]*Y*100% = 40 %									

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		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 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	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	0.079		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	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

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

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' Annulated 'Business' Zone at Tsun Wan Inland Lot No. 46 S.C., Nos. 46-48 Pak Tin Pai Street, Tsuen Wan, New Territories				2033 Design PM			
J3 Tai Chung Road / Sha Tsui Road				PROJECT NO.:	40999	Prepared By:	SKL
				FILENAME :	J3_TCR_STR.xlsx	Checked By:	SLN
						Reviewed By:	SLN
							DATE
							Sep-25
							Sep-25
							Sep-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 %			

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)
10,11 9,10	1 1	3.40 3.20	1 1	8 13		N	1955 2075			159 193	0.32 1.00	1844 1860							1844 1860	0.086 0.104	0.104	20	16 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	1.00 0.00	3529 6165							3529 6165	0.081 0.143	0.143		15 27	50 27	0.636 0.636	24 44	51 40
4 3,4	2 2	3.80 3.00	1 1	15			2135 2055			256 135	0.00 0.58	2135 1942							2135 1942	0.120 0.120	0.120		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	1.00 0.00 1.00	1791 2065 3671							1791 2065 3671	0.274 0.224 0.164	0.164		52 42 31	77 58 31	0.636 0.636 0.636	54 54 42	28 33 39

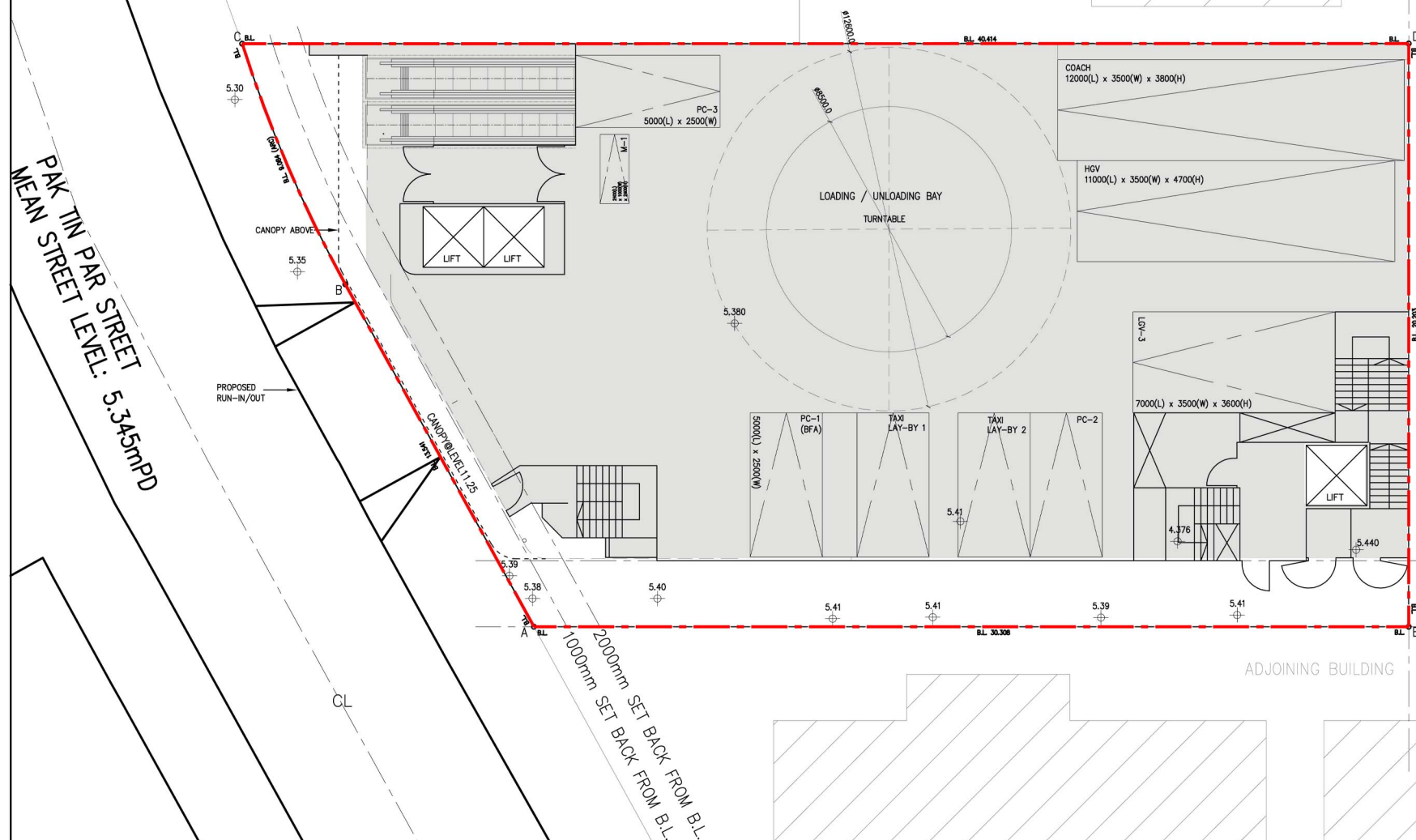
Stage 1	Stage 2	Stage 3	Stage 4
[6] [6] [5] [9] G= 19 Int = 7	[2] [3] [4] [5] G= 22 Int = 5	[1] [2] [9] [8] G= 26 Int = 5	[9] [8] [7] G= 30 Int = 7

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
--------	----------------------	--------------------	-------------------	---------------------	-----------------------------------	--------------------------------------

Appendix C

Indicative Ground Floor Layout Plan

TOP SOIL LEVEL 11.725



A & N ARCHITECT & INTERIOR DESIGNER LTD.
A & N 建築設計有限公司

香港灣仔軒尼詩道245-251號 2樓B座 Unit B, 2/F, Success Commercial Building, 245-251 Hennessy Road, Wanchai, Hong Kong
Tel. 電話 : 2143 6782 Fax 傳真 : 2143 6799 email 電子郵件 : info@anaid.com.hk

This drawing and design are copyright of the authorized person. No portion may be reproduced without his written permission. Used written dimensions. Measurements to existing works to be verified on site. This drawing shall be read in conjunction with specification and condition of contract.

REVISION

PROJECT
PROPOSED MINOR RELAXATION OF PLOT RATIO (PR)
AND BUILDING HEIGHT RESTRICTIONS (BHR) FOR
PROPOSED HOTEL USE IN "OTHER SPECIFIED USES"
ANNOTATED "BUSINESS" ("OU(B)") ZONE AT TSUEN
WAN INLAND LOT (TWIL) 46 S.C

TITLE
GROUND FLOOR PLAN

DRAWN RC	CHECKED NH
SCALE 1:150	DATE 01-09-25
JOB NO. 2520	DRAWING NO. 2520-DWG-01