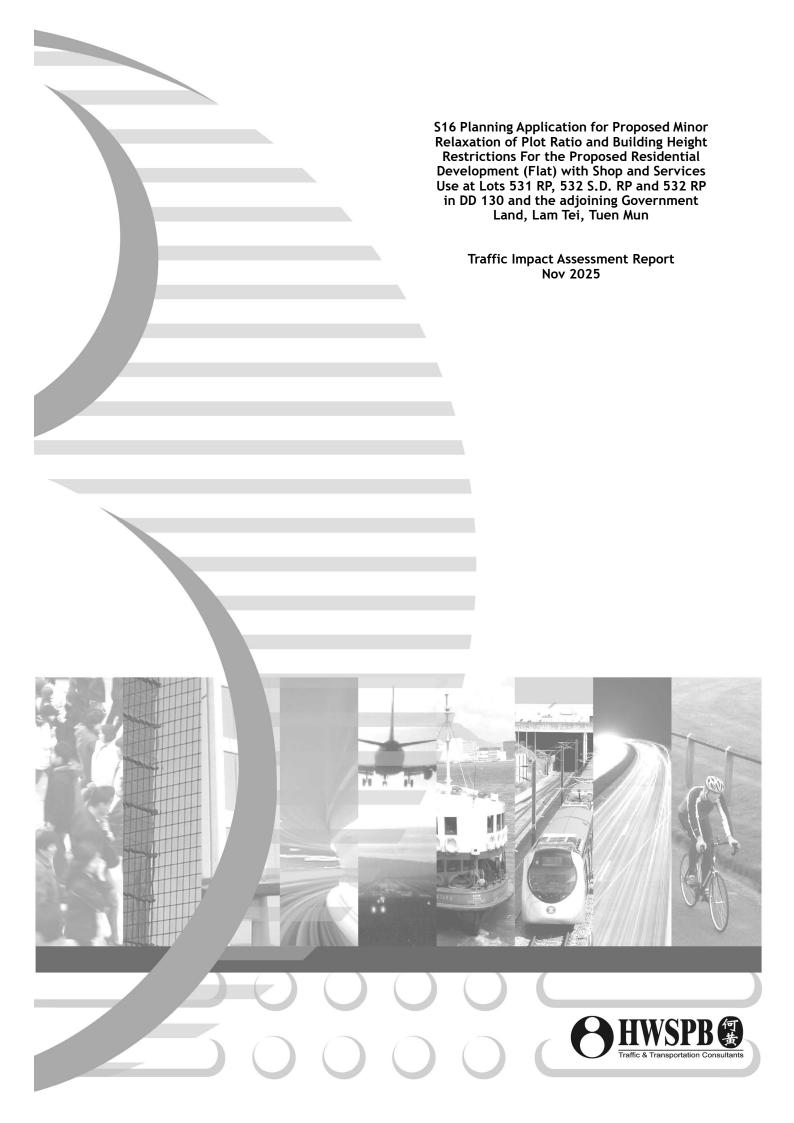
Proposed Residential Development (Flat) with Shop and Services Uses with Minor Relaxation of Plot Ratio and Building Height Restrictions at Lots 531 RP, 532 S.D. RP and 532 RP in DD 130 and adjoining Government Land, Lam Tei, Tuen Mun S16 Planning Application

Appendix 4

Traffic Impact Assessment



S16 Planning Application for the Proposed Minor Relaxation of Plot Ratio and Building Height Restrictions For the Proposed Residential Development (Flat) with Shop and Services Use at Lots 531 RP, 532 S.D. RP and 532 RP in DD 130 and the adjoining Government Land, Lam Tei, Tuen Mun

Traffic Impact Assessment Report

November 2025

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1. INTRODUCTION

1.1 **Background**

- 1.1.1 A similar application for minor relaxation of Plot Ratio and Building Height Restrictions for a proposed residential development with shop and services at this Site has been approved by Town Planning Board [TPB] (TPB Ref.: A/TM-LTYY/426) on May 2023.
- 1.1.2 Subsequent to the approval of the aforementioned planning application, the Applicant has lodged the land exchange application to the Lands Department to kick-start the approved development. For better management of the residual unmanned land near the Site, and as negotiated with the Lands Department, the Application Site has been modified to include the unmanned land and road works in relation to the proposed run in/out for the Proposed Residential Development. Whilst the resultant development scheme involves material changes to the approved scheme, a fresh Section 16 Planning Application is therefore required.
- 1.1.3 Due to the increase in site area, the applicant is planning a fresh Section 16 Planning Application for this site with the same approved plot ratio of 5.0 but with a larger site area. Hence, the number of flats will be increased from 184 (previously approved) to 336 (currently proposed).
- 1.1.4 Ho Wang SPB Ltd is commissioned as the traffic consultant to undertake a traffic impact assessment study for this fresh S16 Planning Application purpose.
- 1.1.5 The objectives of this TIA study are listed below:
 - Review and recommend on the car park and loading / unloading provisions for (a) the development site;
 - (b) Review the vehicular access and the internal parking arrangement of the site;
 - Conduct vehicle and pedestrian traffic surveys to record existing traffic and (c) pedestrian conditions during AM and PM peak periods within the study area;
 - Review the existing traffic and pedestrian conditions in the vicinity of the (d) development site including the critical junctions capacities;
 - (e) Estimate the development traffic generation and attraction; and traffic forecast based on the latest available 2021-Based TPEDM from Planning Department's website and Annual Traffic Census (ATC) from Transport Department; and
 - Assess the likely traffic and pedestrian impacts generated by the proposed (f) development site upon completion within the study area and develop traffic improvement schemes to mitigate any adverse impact; if necessary.
- Following this introductory chapter describes the background and study objectives, this TIA report focuses on the presentation and elaboration of the following Chapters:
 - Chapter 2 describes the proposed development schedule, vehicular access arrangements and the proposed internal transport facilities provisions and layout arrangements;
 - Chapter 3 describes the baseline traffic and pedestrian surveys and the existing traffic and pedestrian conditions in the vicinity;

- Chapter 4 describes the traffic forecast methodology and future traffic and pedestrian conditions in the appropriate reference and design year;
- Chapter 5 presents the traffic and pedestrian assessment results for the reference and design scenarios, and to propose improvement measures to mitigate adverse traffic and pedestrian impacts, if necessary; and
- Chapter 6 summarizes and concludes the study findings of this TIA study.

2. THE PROPOSED DEVELOPMENT

2.1 Site Location

- 2.1.1 The Application Site is lied within part of Lots 531 RP, 532 S.D. RP and 532 RP in DD 130 and the adjoining Government Land, Lam Tei, Tuen Mun.
- 2.1.2 The site is bounded by Castle Peak Road Lam Tei section to the east, Light Rail Transit (LRT) line and an elevated viaduct of MTR Tuen Ma Line to the west, the Lam Tei Vegetable Collection Centre (LTVCC) and some burial urns and graves to the north, and a nullah to the south.
- 2.1.3 The location of the Application Site is shown in Figure 2.1.

2.2 Development Schedule

- 2.2.1 The application site has an area of 3921m² (with 2200.338m² development site area) which is slightly larger than that of the previously Approved S16 Application in 2023.
- 2.2.2 The comparison of the 2023 approved development scheme and the current proposed development scheme is summarized in **Table 2.1**.

Table 2.1 Comparison of the Approved Development Scheme in 2023 and the Proposed Development Scheme

	Approved S16 Scheme in 2023 (a)	Proposed Scheme (b)	Changes (b) - (a)
Development use	Residential	Residential	No Change
Development Site Area (m²)	1,569.02	2,200.338	+631.318
Plot Ratio	5	5	No Change
Site Coverage	35.0%	Not more than 33.3%	-1.7%
Total GFA (m²)	7,845.10	11,001.69	+3,156.59
No. of Block	1	1	No Change
No. of Flat	184	336	+152
Average Flat Size (m²)	30.58	32.55	+1.97
Retail GFA (m²)	67.6	65	-2.6

2.2.3 The proposed flat mixes based on the increase in site area and flat numbers are summarized in **Table 2.2.**

Table 2.2 Proposed Development Schedule

Flat Size	Number of Units
<40 m ²	320
40 - 70m²	16
Total	336

- 2.3 Proposed Run-in/out Location and Arrangement [Minor amendment compared to Previously Approved \$16 Application]
- 2.3.1 The site is bounded by Castle Peak Road Lam Tei section to the east, Light Rail Transit (LRT) line and an elevated viaduct of MTR Tuen Ma Line to the west. A village environ, Lam Tei Vegetable Depot and some burial urns/graves to the north together with a nullah to the south.
- 2.3.2 Due to the existing nullah and LRT infrastructures, it is not feasible to provide a vehicular access at the western side of the site.
- 2.3.3 This section of Castle Peak Road is operating with a speed limit of 70 km/h. A deceleration lane is required for the ingress vehicles to slow down from Castle Peak Road prior to access the site in a safely and efficient manner. However, as the eastern side of the site is bounded by Castle Peak Road and CEDD's cycle track, there is inadequate space for the vehicular access at the eastern side of the site.
- 2.3.4 To further enhance the road safety, a deceleration lane for the ingress vehicles at Castle Peak Road at the southern end of the site is proposed taking into consideration of the road characteristics (i.e. gradient and the design speed of Castle Peak Road) and the site constraint (i.e. slope structures near the nullah). The egress vehicles can await at the slip road with give-way traffic arrangement. This proposed traffic arrangement can ensure vehicles can travel in a safe and efficient manner.
- 2.3.5 A central island outside the run-in/out is also provided for the pedestrian and cyclist to enhance safety. The existing footpath and cycle track widths outside the subject site is 1.65m and 3.00m respectively. A maximum of 2.00m wide footpath and 3.50m wide cycle track can be provided taking into consideration of the site boundary and Castle Peak Road constraints.
- 2.3.6 The details of the previously approved run-out with deceleration lane arrangement together with the proposed additional traffic signs at run-in/out at Castle Peak Road and other relevant traffic signs near the run-in which have complied with relevant TPDM requirements and are shown in **Appendix A**.
- 2.3.7 Both HKPF and TD have no-objection on this proposed run-in/out and the at-grade cycle track arrangements outside the run-in/out in the latest approved S16 Application in 2023.
- 2.3.8 For this application, the run-in/out is slightly shifted 4m downwards to avoid the WSD pipe for ease of construction and future maintenance purposes. The revised layout is shown in **Figure 2.1**.
- 2.3.9 Due to the narrow shape of the site (about 25m in width), there is insufficient space to provide a hammer-head within the site for the manoevuring of a 12m emergency vehicle. In case of emergency, the fire engine will need to occupy the inner traffic lane of Castle Peak Road for fire-fighting as in the already approved S16 scheme.
- 2.3.10 The swept path analysis (**Figure SP1** in **Appendix B**) showing there are adequate manoevuring space for the ingress/egress of a 7m vehicle at the run-in/out.

2.4 Car Parking and Loading/Unloading Provisions

2.4.1 The proposed internal car parking and loading/unloading provisions based on the latest HKPSG's requirements are summarized in Table 2.3.

Table 2.3 **Proposed Internal Transport Provision**

	Car Pa	arking	Moto	rcycle	Loading/Unloading		
	HKPSG Requirement	Proposed	HKPSG Requirement	Proposed	HKPSG Requirement	Proposed	
Residential (336 Flats)	26-45	45	3-4	4	1 [HGV]	2 [LGV]	
Residential Visitor Parking (1 block)	5	5	0	0	0	0	
Retail* (65m² GFA)	0	0	0	0	1 [HGV]	2 [LGV]	
Total	31-50	50	3-4	4	2 [HGV]	4 [LGV]	

HKPSG Car Parking Requirement:

Residential: GPS x R1 x R2 x R3 + 5 visitor car parking spaces

GPS: 1 car space per 4 -7 flats; R1=0.5 for flat size $< 40 \text{ m}^2$; R1 = 1.2 for flat size $> 40 \text{ m}^2$ and $< 70 \text{ m}^2$;

R2 = 1 for development outside 500 radius of railway station; R3 = 1 for plot ratio between 2 to 5

Retail: 1 car space per 150-300m² GFA

HKPSG Motorcycle Parking Requirement:

Residential: 1 M/C space per 100 - 150 flats Retail: 5 to 10% of the total car parking space

HKPSG Loading / Unloading Requirement:

Residential: Min 1 L/UL bay

Retail: 1 L/UL bay per 800-1200m², or part thereof, GFA

(*) According to the "Remarks" under Section 3 in Table 11, Chapter 8 of HKPSG "Generally nil provision is permitted for small road-side retail shops which are mainly serving local residents". As the retail use within the site is only 65m2 GFAs and is mainly serve for the locals. Hence nil car parking and nil motorcycle parking will be provided for the retail use.

- 2.4.2 Under the HKPSG's requirement, 1 loading / unloading bay should be provided for each housing block. However due to the site constraint, it is not feasible to provide a 11m HGV loading / unloading bay within the site.
- 2.4.3 Since the provision of 2 LGV L/UL instead of 1 HGV L/UL for this development site had received no objection from Transport Department in the previous approved S16 Application in 2023 due to the site constraint. 4 nos. 7m LGV loading / unloading bays are provided within the site instead which is considered adequate to serve the small to medium households and the small retail shops.
- 2.4.4 A total of 50 car parking spaces (including 5 visitor parking spaces), 5 motor-cycle parking spaces and 4 loading / unloading bays (LGV) are provided for this proposed development site based on the latest HKPSG requirement. In addition, 35 bicycle parking spaces are provided for this development site.
- 2.4.5 Two car-lifts with waiting bay will be provided for vehicles to access to/from G/F and 1/F.
- 2.4.6 All loading / unloading facilities are provided at G/F and parking facilities are provided at G/F and 1/F of the development site as shown in Figures 2.2 and 2.3 respectively and summarized in **Table 2.4**.

Table 2.4 **Internal Carpark Arrangement**

Internal Transport Provision	G/F	1/F
Private Car (Conventional)	10	9
Private Car (double-deck parking system)	0	30
Accessible Parking Space	0	1
Sub-Total (Private Car)	10	40
Motorcycle	5	0
LGV bay	4	0
Car-lift waiting space	1	1

2.4.7 The proposed carpark provision with 20 conventional parking spaces (including 1 accessible parking space) can fulfil the requirement of Lands Department's [Practice Note (issue No. 2/2000)] which "not less than one-sixth of the total number of space provided shall be accommodated in the conventional system" (i.e. 50 parking space /6 = minimum of 9 conventional parking space).

3. **EXISTING TRAFFIC CONDITION**

3.1 **Existing Road Networks**

- Castle Peak Road-Lam Tei is a Rural Trunk Road and is a major road connecting Hung Shiu Kiu and Tuen Mun. There is a light rail running along this road. It operates in dual two lane 2-way traffic directions with approximately 3.5m lane width.
- 3.1.2 Lam Tei interchange is a major roundabout connects with slips road from Castle Peak Road, Tuen Mun Road and Tsing Lun Road.
- 3.1.3 The section of Tsing Lun Road between Castle Peak Road Lam Tei and Hong Po Road is a dual carriageway with 2 traffic lanes at each direction.
- 3.1.4 Lam Tei Main Street is a one-way local road running in westbound direction and connects with Fuk Hang Tsuen Road and Castle Peak Road - Lam Tei.
- 3.1.5 Fuk Hang Tsuen Road is two-way single carriageway connects with Castle Peak Road -Lam Tei.
- 3.1.6 The Area of Influence (AOI) covers the 5 key junctions in the vicinity of the site is shown in Figure 3.1.

3.2 **Public Transport Facilities**

This site is well accessible by public transport facilities (franchised buses, GMBs and PLBs) in the vicinity of the site. The details of the nearby public transport facilities are summarised in Table 3.1.

Table 3.1 Existing Public Transport Facilities in the Vicinity of the Site

Location	Franchised Bus	GMB	PLB
Castle Peak Road - Lam Tei	53, 63X, 68A, 258A, 258P, 261P, 960P, 960X, A34, B2, N969 and NA37	606S	Causeway Bay to Tuen Mun / Yuen Long, Mongkok to Tuen Mun / Yuen Long and Tuen Mun to Yuen Long
Lam Tei Interchange	50, 55, 56, 56A, 67M, 67X, 261P, 267X, 950, 955, 960A, 960C, 960X, B3A, E33P, E36C, N50, N260, NA33		

- 3.2.2 The details of the public transport facilities in the vicinity of the site are shown in Figure 3.2.
- 3.2.3 The Lam Tei LRT stop and Siu Hong MTR station is also located at approx. 150m and 800m walking distance respectively from the proposed site as shown in Figure 3.3.

3.3 Baseline Traffic Surveys

- 3.3.1 In order to review the existing traffic conditions, vehicular count survey was carried out on a typical weekday in September 2025 during the AM (07:30-09:30) and PM (17:00-19:00) peak periods.
- 3.3.2 The AM and PM peak hours of the existing local road network are identified as 07:30-08:30 and 17:30-18:30 hours respectively.
- 3.3.3 The observed traffic flows for the 5 concerned junctions in 2025 are presented in Figure 3.4.

3.4 Existing Junction Performance

3.4.1 Based on the 2025 surveyed traffic flows, the junction capacity analysis for the 5 concerned junctions during the critical AM and PM peak periods have been assessed. The results of the junction capacity analysis are summarized in **Table 3.2**.

Table 3.2 2025 Existing Junction Performance

	Junction Location	Junction Type	AM Peak	PM Peak
J1	Lam Tei Interchange	Roundabout (DFC)	0.45	0.45
J2	Castle Peak Road / Tsing Lun Road	Signalized (RC)	106%	107%
J3	Castle Peak Road- Lam Tei/ Lam Tei Main Street	Signalized (RC)	43%	103%
J4	Castle Peak Road- Lam Tei/Fuk Hang Tsuen Road ⁽¹⁾	Signalized (RC)	40%	60%
J5	Tsing Tin Road / Tsun Wen Road	Signalized (RC)	135%	114%

Notes:

3.4.2 The results of the junction performance enclosed in **Appendix C** show all concerned junctions are operating with adequate junction capacities during the AM and PM peak periods.

3.5 Existing Road Link Performance

3.5.1 Based on the 2025 surveyed traffic flows, the road link capacity of the Castle Peak Road in the vicinity of the site during the critical AM and PM peak periods has been assessed. The results of the road link performance are summarized in **Table 3.3**.

DFC = Design Flow/Capacity ratio for priority junction and roundabout.

RC = Reserve Capacity for signalised junction.

^{(1):} By on site observation of J4, there is only 1 pedestrian stage for every 2 cycle, and Phase D is skipped throughout the surveyed period, the calculation is based on 1 pedestrian stage and 1 phase D per every 2 cycles for conservative.

Table 3.3	2025 Existing Road Link Performance
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Location		Adopted Capacity	AM Peak		PM Peak	
			Flow (veh/hr)	V/C	Flow (veh/hr)	V/C
L1	Castle Peak Road (Northbound)	3000	1032	0.34	1096	0.37
LI	Castle Peak Road (Southbound)	3000	1545	0.52	1144	0.38
L2	Yuen Long Highway (Eastbound)	3000	3301	1.10	3683	1.23
LZ	Yuen Long Highway (Westbound)	3000	2307	0.77	2970	0.99
L3	Tuen Mun Road - Fu Tei Section (Northbound)	4700	4496	0.96	4921	1.05
L3	Tuen Mun Road - Fu Tei Section (Southbound)	4700	4041	0.86	4189	0.89
1.4	Tsing Tin Road (Eastbound)	4200	1521	0.36	1715	0.41
L4	Tsing Tin Road (Westbound)	4200	1530	0.36	1247	0.30
	If one traffic lane is o	ccupied by the	emergency	vehicles		
L1	Castle Peak Road (Northbound)	1500	1032	0.69	1096	0.73

Adopted from TPDM Vol 2 Chapter 2.4 Table 2.4.1.1. Note: (1)

- 3.5.2 The road link performance shows that Castle Peak Road and Tsing Tin Road are having adequate capacity, except Tuen Mun Road which is operating at a V/C ratio > 0.85. In addition, Yuen Long Highway is operating at a V/C ratio > 1 during the AM and PM peak periods.
- 3.5.3 There is adequate traffic flow capacity along Castle Peak Road (Northbound) if one traffic lane is occupied by the emergency vehicles (i.e. V/C ratio <1) in 2025.

3.6 **Pedestrian Count Survey**

- 3.6.1 A pedestrian count survey was conducted for the pedestrian footpaths in the vicinity of the site (between site and public transport stop/LRT stop/MTR Station) during the AM and PM peak hour periods on a normal typical weekday in September 2025.
- 3.6.2 The concerned critical footpath section between Castle Peak Road western footpath and footpath to Lam Tei LRT stop/Siu Hong MTR Station are indicated in Figure 3.5 and the observed pedestrian flows are presented in Table 3.4.

Table 3.4 2025 Surveyed Pedestrian Flows in the Vicinity of the	Table 3.4	2025 Surveyed Pedestrian	Flows in the Vicinit	v of the Site
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No.	Location	Pedestrian Flows (ped/15 mins)	
		AM Peak	PM Peak
P1	Castle Peak Road - Lam Tei Western Footpath	193	42
P2	Footpath to Lam Tei LRT stop	195	51
Р3	Footbridge across Tsing Lun Road	41	35
P4	Footpath to Siu Hong MTR Station	15	13

3.7 **Existing Footpath Performance**

- 3.7.1 According to TPDM Volume 6 Chapter 10.4 Section 10.4.2, The Level of Service (LOS) is defined varied from A to F, with the best LOS 'A' and the worst LOS 'F'. According to TPDM Volume 2 Chapter 10.4 Section 3.4.11, "LOS C is considered as an optimal level of service in the HCM. In view of the public expectation for a better walking environment, the upper end of LOS C (23 pedestrians/minute/m as stated in the HCM) is preferred."
- 3.7.2 The Level of Service for the concerned footpaths during the AM and PM peak hour periods have been assessed and the performance are summarized in Table 3.5.

Table 3.5 2025 Existing Footpath Capacity Assessment

			AM Peak			PM Peak		
No.	Location	Flow (ped/15 mins)	Flow Rate (ped/min /m)	LOS	Flow (ped/15 mins)	Flow Rate (ped/min /m)	LOS	
P1	Castle Peak Road - Lam Tei Western Footpath ⁽¹⁾	193	12.87	Α	42	2.80	А	
P2	Footpath to Lam Tei LRT stop ⁽²⁾	195	1.86	Α	51	0.49	Α	
Р3	Footbridge across Tsing Lun Road ⁽³⁾	41	0.55	Α	35	0.47	Α	
P4	Footpath to Siu Hong MTR Station ⁽⁴⁾	15	1.00	Α	13	0.87	А	

Note:

- The clear footpath width = 2.0m actual width 1m dead width = 1.0m. (1)
- (2) The clear footpath width = 8.0m actual width - 1m dead width = 7.0m.
- (3) The clear footbridge width = 6.0m actual width - 1m dead width = 5.0m.
- (4) The clear footpath width = 2.5m actual width - 1m dead width = 1.5m.
- 3.7.3 The assessment results show that the concerned pedestrian footpaths can operate with ample capacity [LOS A] in the AM and PM peak periods.

4. FUTURE TRAFFIC CONDITIONS

4.1 Traffic Forecast Approach

- 4.1.1 The proposed residential development is anticipated to be completed by 2030. The design year 2033 is adopted (i.e. 3 years after the completion) to assess the impact of the proposed development traffic on the local road network.
- 4.1.2 Since there are no major changes of the road network in the vicinity, the traffic forecast has been conducted based on the following data:
 - Historical trend data from the Annual Traffic Census (ATC) by Transport Department
 - 2021-based Territorial Population and Employment Data Matrix (TPEDM) planning data by Planning Department's website
 - Projections of Population Distribution 2023-2031 by Planning Department
 - Hong Kong Population Projections 2022-2046 by Census and Statistics Department
- 4.1.3 The historical traffic data of the surrounding road links are based on the Annual Average Daily Traffic (AADT) extracted from the "Annual Traffic Census" report issued by Transport Department. The relevant AADT data from 2019 to 2023 are summarized in **Table 4.1**.

Table 4.1 AADT at Counting Stations Extracted from Annual Traffic Census - 2019 to 2023

Stn No.	Road	From	То	2019	2020	2021	2022	2023	
6604	Lam Tei Main St	Castle Peak Rd - Lam Tei	Fuk Hang Tsuen Rd	960	950	1,020	1,070	1,150	
6213	Castle Peak Rd - Hung Shui Kiu	Tin Ha Rd	Fanling Highway	33,220	34,710	34,800	34,500	34,030	
5025	Yuen Long Highway	Tin Shui Wai West INT	Lam Tei INT	109,220	103,100	113,690	109,410	116,440	
5405	Tuen Mun Rd	Tsing Chui Path	Lam Tei INT	126,570	117,560	123,290	117,820	125,200	
5647	Tsing Lun Rd	Tsing Chung Koon Rd	Lam Tei INT	11,500	12,870	13,870	13,450	13,770	
	All Stations Total				269,190	286,670	276,250	290,590	
	Average Growth Rate (% p. a.)				-4.36%	6.49%	-3.63%	5.19%	
	Overall Growth Rate (% p. a.) from 2019 to 2023				+0.80%				

4.1.4 The annual growth factors for future traffic forecasts from various sources from 2023 to 2033 are summarized in **Table 4.2**.

Table 4.2 Summary of Annual Growth Factors Information

Information	Planning	District	Annual Growth Rates					
	Horizon	3.34.76	2019-2023	2021-2026	2026-2031	2031-2036		
Annual Traffic Census by Transport Department		Tuen Mun	+0.8% (1)					
2021-based Territorial Population and Employment Data Matrix (TPEDM) by Planning Department's website	2031	Tuen Mun District		-0.92%	-1.15%			
Projections of Population Distribution 2023-2031 by Planning Department	2031	Tuen Mun District		+0.92% (2)				
Hong Kong Population Projections 2022-2046 by Census and Statistics Department	2046	Territorial-wide		+0.50%	+0.60%	+0.50%		

Note:

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- (1) Growth rate between 2019 to 2023
- (2) Growth rate between 2025 to 2031
- 4.1.5 Based on the above information, an annual growth rate of +0.92% p.a. from 2025 to 2031 and +0.5% p.a. from 2031 to 2033 is adopted for future traffic forecast.

4.2 Future Planned Developments

- 4.2.1 The traffic flows generated by adjacent potential planned / committed developments in the vicinity have also been taken into consideration in the reference case scenario.
- 4.2.2 The planned developments in the vicinity are summarized as follows
- Public Housing Developments at Tuen Mun Area 54
- Public Housing Developments at San Hong Road and Hong Po Road
- Proposed Residential Development at Various Lots in D.D. 130, Lam Tei (Planning Application: Y/TM-LTYY/9)
- Proposed Residential Development at Lots 220 RP (part) and 221 in D.D. 130, San Hing Tsuen (Planning Application No: Y/TM-LTYY/10)
- Pok Oi Hospital Lam Tei Elderly Home at Fuk Hang Tsuen Road
- Hung Shui Kiu/Ha Tsuen New Development Area (HSK/HT NDA)
- Proposed Minor Relaxation of Building Height Restriction for Permitted Educational Institution Use [Lingnan University] (Planning Application: A/TM/595)

- 4.2.3 The traffic generations of the above planned / committed developments have also been taken into account in the 2033 reference case scenario.
- 4.2.4 The 2033 reference traffic flows are shown in **Figure 4.1**.

5. TRAFFIC IMPACT ASSESSMENT

5.1 Proposed Development Traffic Generation

5.1.1 Based on the adopted trip rates, the vehicle trip generations for this development are summarized in **Table 5.1**.

Table 5.1 Vehicular Trips for this Development

Campanant	Proposed	AM I	Peak	PM Peak		
Component	Development	Attraction	Generation	Attraction	Generation	
Residential	Adopted Trip Rate (1) (pcu/hr/flat)	0.0425	0.0718	0.0370	0.0286	
(336 flats)	Vehicular Trips (pcu/hr)	24	14	10	12	

Note: (1) Adopted from TPDM Vol 1, Chap. 3.

- 5.1.2 Since the proposed retail facilities (with small-scale) are mainly serving residents, thus, it is considered that there is nil traffic generation for retail.
- 5.1.3 The proposed development will attract and generate 38 (i.e. 24 + 14) pcus in the AM peak hour and 22 (i.e. 10 + 12) pcus in the PM peak hour.
- 5.1.4 The distribution of the proposed development traffic travelling along the concerned junctions is shown in **Figure 5.1**.

5.2 2033 Design Traffic Flows and Traffic Impact Assessments

- 5.2.1 The 2033 design traffic flows are derived by adding the proposed development traffic flows (**Figure 5.1**) onto the 2033 reference traffic flows (**Figure 4.1**) to provide the 2033 design traffic flows (**Figure 5.2**). (i.e. 2033 design flow = 2033 reference flow + development flow).
- 5.2.2 The assessments of the junction performance based on the 2033 reference and 2033 design are summarized in **Table 5.2.**

Table 5.2 Junction Capacity Assessment for Year 2033

Junction	Junction	lunction Type	2033 Re	ference	2033	Design
No	Junction	Junction Type	AM	PM	AM	PM
J1	Lam Tei Interchange	Roundabout (DFC)	0.73	0.80	0.73	0.80
J2	Castle Peak Road / Tsing Lun Road	Signalized (RC)	31%	49%	31%	49%
J3	Castle Peak Road- Lam Tei/ Lam Tei Main Street	Signalized (RC)	16%	65%	15%	64%
J4	Castle Peak Road- Lam Tei/Fuk Hang Tsuen Road ⁽²⁾	Signalized (RC)	19%	35%	17%	34%
J5	Tsing Tin Road / Tsun Wen Road	Signalized (RC)	79 %	75%	78%	74%

Notes:

DFC = Design Flow/Capacity ratio for priority junction and roundabout.

RC = Reserve Capacity for signalised junction.

(1): By on site observation of J4, there is only 1 pedestrian stage for every 2 cycle, and Phase D is skipped

throughout the surveyed period, the calculation is based on 1 pedestrian stage and 1 phase D per every 2 cycles for conservative.

- 5.2.3 The results of the junction capacity analysis enclosed in **Appendix C** show that all concerned junctions will operate with adequate junction capacity during the AM and PM peak periods in both 2033 reference and design scenarios.
- 5.2.4 The assessments of the road link performance based on the 2033 reference and 2033 design are summarized in **Table 5.3**.

Table 5.3 2033 Reference and Design Road Link Performance

			2	.033 Re	eference			2033	Design	
	Location	Adopted - Capacity	AM Peak		PM Peak		AM Peak		PM Peak	
		(veh/hr) ⁽¹⁾	Flow (veh/hr)	V/C	Flow (veh/hr)	V/C	Flow (veh/hr)	V/C	Flow (veh/hr)	V/C
		ı	Nori	mal Sitı	uation	ı	ı	ı	ı	I
L1	Castle Peak Road (Northbound)	3000	1417	0.47	1400	0.47	1437	0.48	1408	0.47
_ L1	Castle Peak Road (Southbound)	3000	1893	0.63	1491	0.50	1910	0.64	1499	0.50
L2	Yuen Long Highway (Eastbound)	3000	3522	1.17	3930	1.31	3522	1.17	3930	1.31
LZ	Yuen Long Highway (Westbound)	3000	2461	0.82	3170	1.06	2463	0.82	3173	1.06
L3	Tuen Mun Road - Fu Tei Section (Northbound)	4700	5041	1.07	5494	1.17	5052	1.07	5504	1.17
L3	Tuen Mun Road - Fu Tei Section (Southbound)	4700	4720	1.00	4809	1.02	4734	1.01	4818	1.03
L4	Tsing Tin Road (Eastbound)	4200	1624	0.39	1828	0.44	1624	0.39	1828	0.44
L 4	Tsing Tin Road (Westbound)	4200	1635	0.39	1327	0.32	1635	0.39	1327	0.32
		If one traffic	lane is occ	upied b	y the emer	gency v	ehicles	ı	I	
L1	Castle Peak Road (Northbound)	1500	1417	0.94	1400	0.93	1437	0.96	1408	0.94

Note: (1) Adopted from TPDM Vol 2 Chapter 2.4 Table 2.4.1.1.

- 5.2.5 The road link performance shows that Castle Peak Road and Tsing Tin Road will operate with adequate capacity, except Tuen Mun Road and Yuen Long Highway which are operating at a V/C ratio > 1 during the AM and PM peak periods in both 2033 reference and design scenario. However, the traffic generation to the concerned major roads due to the proposed development are insignificant.
- 5.2.6 There will be future strategic road network improvement such as Route 11, Tuen Mun Bypass, Yuen Long Highway widening etc. Upon completion of these new

infrastructure and road networks by Government Departments, the traffic capacities in the vicinity are expected to be improved significantly.

5.2.7 In addition, the road link capacity assessment show that V/C ratio along Castle Peak Road (Northbound) during emergency [i.e. one traffic lane is occupied by the emergency vehicles] is closed to 1.0 under the 2033 scenarios. However, during emergency, temporary closure of one traffic lane for fire engine and ambulance etc. is considered tolerable. Consultation with FSD on the EVA arrangement will be carried out in detailed design stage.

5.3 Pedestrian Generation by the Proposed Development

The peak hour pedestrian traffic generations and attractions of the proposed development are derived by using the adopted pedestrian trip rates and are presented in Table 5.4.

Table 5.4 Estimated of Pedestrian Generation and Attraction of Proposed **Development Site**

Proposed	AM I	Peak	PM Peak			
Development (336 Flats)	Generation	Attraction	Generation	Attraction		
Adopted Trip Rate (ped/15mins/flat) ⁽¹⁾	0.2312	0.0238	0.0520	0.0933		
Estimated Pedestrian Trips (ped/15mins)	78	8	18	32		

(1) Conservative trip rates adopted are based on reference projects of similar private residential Note: sites, as shown in the table below.

Reference	AM I	Peak	PM Peak		
Reference	Generation	Attraction	Attraction Generation		
Kornville, Tai Koo (504 flats)	0.1230	0.0238	0.0417	0.0933	
T Plus, Tuen Mun (356 flats)	0.0674	0.0169	0.0140	0.0730	
Park Nara, Hung Shui Kiu (173 flats)	0.2312	0.0173	0.0520	0.0867	
Adopted Highest Trip Rate (pcu/15mins/flat)	0.2312	0.0238	0.0520	0.0933	

5.3.2 The proposed development will attract and generate 86 (i.e. 78 + 8) ped/15mins in the AM peak hour and 50 (i.e. 18 + 32) ped/15mins in the PM peak hour.

5.4 Pedestrian Impact Assessment (Design Year)

- The section of Castle Peak Road Lam Tei footpath adjacent to the development site has been assessed for the 2033 design scenario.
- 5.4.2 The results of the pedestrian impact assessment in the 2033 design scenario are tabulated in Table 5.5.

Table 5.5 Pedestrian Impact Assessment in 2033 Design Scenario

			AM Peak		PM Peak			
No.	Location	Flow (ped/15 mins)	Flow Rate (ped/min /m)	LOS	Flow (ped/15 mins)	Flow Rate (ped/min /m)	LOS	
P1	Castle Peak Road - Lam Tei Western Footpath ⁽¹⁾	292	19.47	В	95	6.33	Α	
P2	Footpath to Lam Tei LRT stop ⁽²⁾	295	2.81	Α	105	1.00	Α	
P3	Footbridge across Tsing Lun Road ⁽³⁾	130	1.73	Α	88	1.17	Α	
P4	Footpath to Siu Hong MTR Station ⁽⁴⁾	103	6.87	Α	64	4.27	Α	

Note:

- The clear footpath width = 2.0m actual width 1m dead width = 1.0m.
- (1) (2) The clear footpath width = 8.0m actual width - 1m dead width = 7.0m.
- (3) The clear footbridge width = 6.0m actual width - 1m dead width = 5.0m.
- (4) The clear footpath width = 2.5m actual width - 1m dead width = 1.5m.
- 5.4.3 The results of pedestrian assessment demonstrated that all concerned footpaths adjacent to the site will operate with ample pedestrian capacity [i.e. Level of Service "C" or above] upon the development.

6. SUMMARY AND CONCLUSION

6.1 Summary

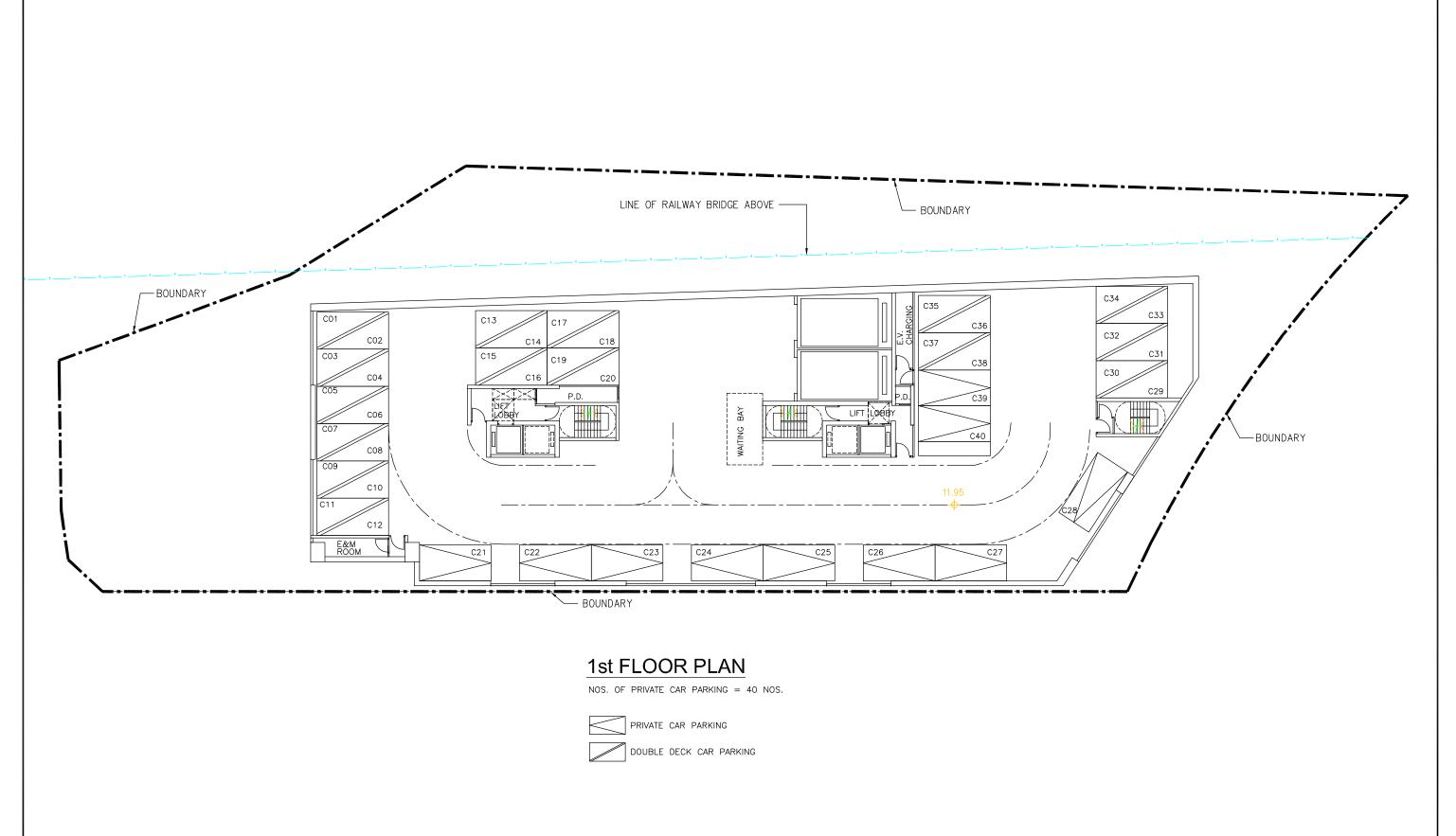
- 6.1.1 A minor amendment in S16 Planning Application for a residential development scheme was submitted to TPB and was approved by Planning Department and Transport Department in March 2023.
- 6.1.2 The purpose of this Traffic Impact Assessment Report is to support a fresh S16 Planning Application with an increase in 152 flat numbers.
- 6.1.3 A total of 50 car parking spaces (including 5 visitor parking spaces and accessible parking space), 5 motor-cycle parking spaces and 4 loading / unloading bays (LGV) are provided for this proposed development site based on the latest HKPSG's requirement. In addition, 35 bicycle parking spaces are provided for this development site.
- 6.1.4 The proposed development will attract and generate 38 pcus in the AM peak hour and 22 pcus in the PM peak hour.
- 6.1.5 There is adequate traffic flow capacity along Castle Peak Road if one traffic lane is occupied by the emergency vehicles (i.e. V/C ratio <1).
- 6.1.6 All concerned junctions will be operates with adequate junction capacity during the AM and PM peak periods.
- 6.1.7 The footpaths adjacent to the site are operating with ample Level of Services [B or above] in the AM and PM peak periods.
- 6.1.8 A 2033 design year is adopted for this TIA study [i.e. 3 years after the completion of this development].
- 6.1.9 A growth factor of +0.92% p.a. is adopted from 2025 to 2031 and +0.50% p.a. is adopted from 2031 to 2033 for the traffic forecast.
- 6.1.10 The traffic assessments show that all the concerned junctions will operate with ample junction capacity in both 2033 reference and 2033 design scenarios.
- 6.1.11 The results of pedestrian assessment demonstrated that the footpaths adjacent to the site will operate with ample Level of Services [B or above] upon the development in 2033.

6.2 Conclusion

- 6.2.1 The findings of this traffic impact study show that the proposed development will not cause any significant traffic impact onto the local road network.
- 6.2.2 There will be future highway infrastructure projects (e.g. Route 11, Tuen Mun Bypass, Yuen Long Highway widening etc) which will be in place in medium to long terms that the traffic condition in NWNT will be further improved.
- 6.2.3 The proposed residential development is therefore supported from the traffic engineering point of view.

FIGURES

T:\04(Thu)2025-11-06\J977.4-cad\TIA1 2025-11-03\J977.4-TIA1-F21.dwg, A3, HWSTEPS





Appendix A Previous Approved Run-in/out Arrangement

Appendix B Swept Path Analysis

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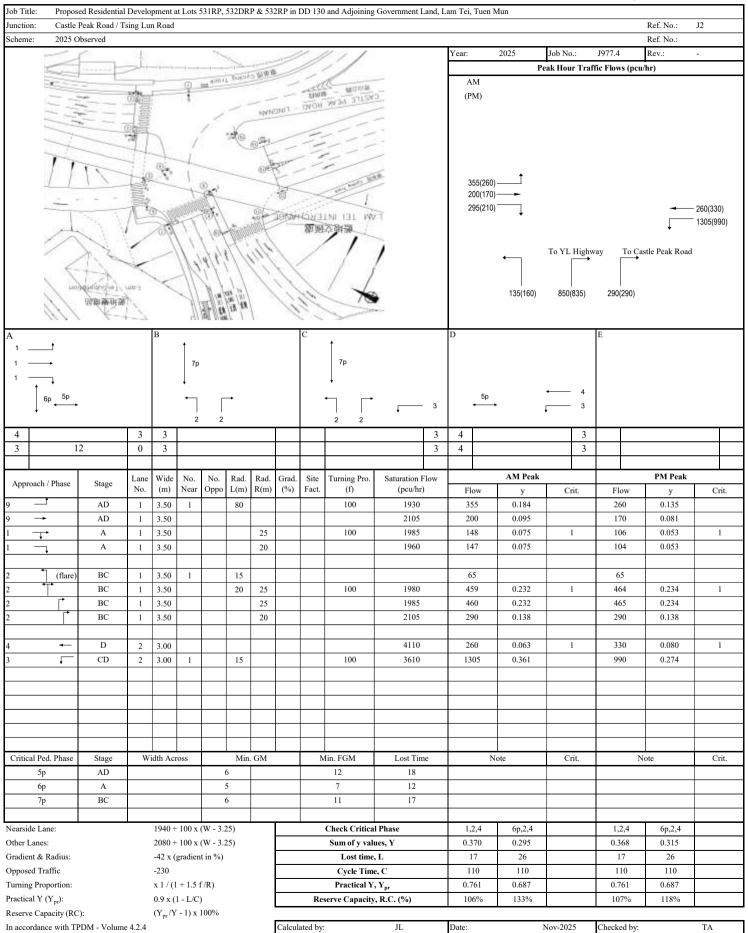
Appendix C Junction Calculation Sheets

Simplified Roundabout Capacity Calculation



Job Title:	Proposed Re	esidential Deve	elopment at	Lots 531RP, 532	DRP & 532	2RP in DD 130	and Adjoini	ng Government La	nd, Lam Tei	, Tuen Mun
Junction:	Lam Tei	Interchang	e					Ref. No.:	J	1
Scheme:	2025 Obs		Ref. No.:							
Year:	2025			Job No.:		J977.4		Rev.:		-
AM	PM			•				•		
ARM A:		Tuen Mun R	oad (Exit or	ılv)						
ARM B:	-	om Tuen Mun		3,				Lo		
ARM C:	Tsing Lun R							D		
ARM D:		om Castle Pea	ık Road							
nun D.	onp reducin	om custre i cu	in Houa			C-	—()	·A	
								\smile		
GEOMETI	RY							В		
ARM	V	e	L	r	D	Phi	S	_		
A	7.00	10.00	10	50	70	30	0.48			
В	7.00	7.50	5	30	70	45	0.16			
C	7.00	7.50	5	60	70	30	0.16			
D	7.00	10.00	10	60	70	30	0.48			
AM FLOW	•									
from \ to	A	В	C	D				Circ	Entry	•
A	0	0	0	0				0	0	
В	0	0	0	0				1105	585	
C	0	0	0	0				435	695	
D	0	0	0	0				555	1040	
PM FLOW										
from \ to	В А	В	С	D				Circ	Entry	
A	0	0	0	0				0	0	•
В	0	0	0	0				1135	675	
C	0	0	0	0				450	425	
D	0	0	0	0				420	1035	
CALCULA	TIONS							$Q_{\rm E}$	RFC	
ARM	K	X_2	M	F	t_{D}	f_c	AM	PM	AM	PM
A	1.03	8.53	2.72	2585	1.13	0.64	2661	2661	0.00	0.00
В	0.96	7.38	2.72	2236	1.13	0.59	1527	1510	0.38	0.45
C	1.03	7.38	2.72	2236	1.13	0.59	2044	2035	0.34	0.21
D	1.03	8.53	2.72	2585	1.13	0.64	2300	2389	0.45	0.43
	I						I	Critical Arm:	D	В
								RFC:	0.45	0.45
In accorda	nce with TPL	OM V2.4						111 0.	AM	PM
Calculated b		SL		Date:	Nov-25		Checked 1		ГА	2 172

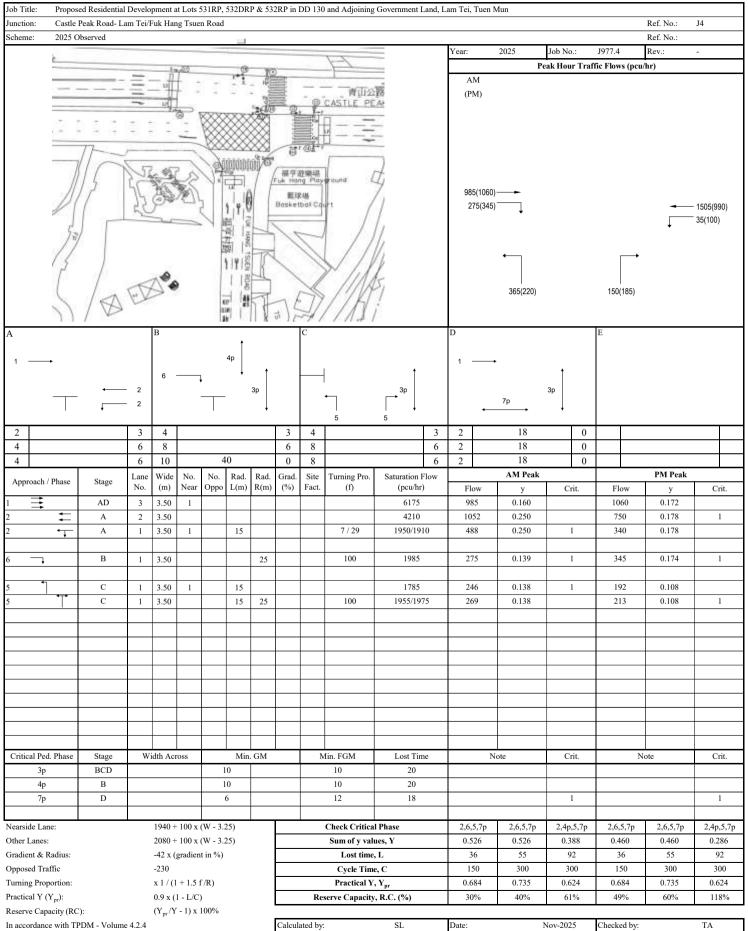




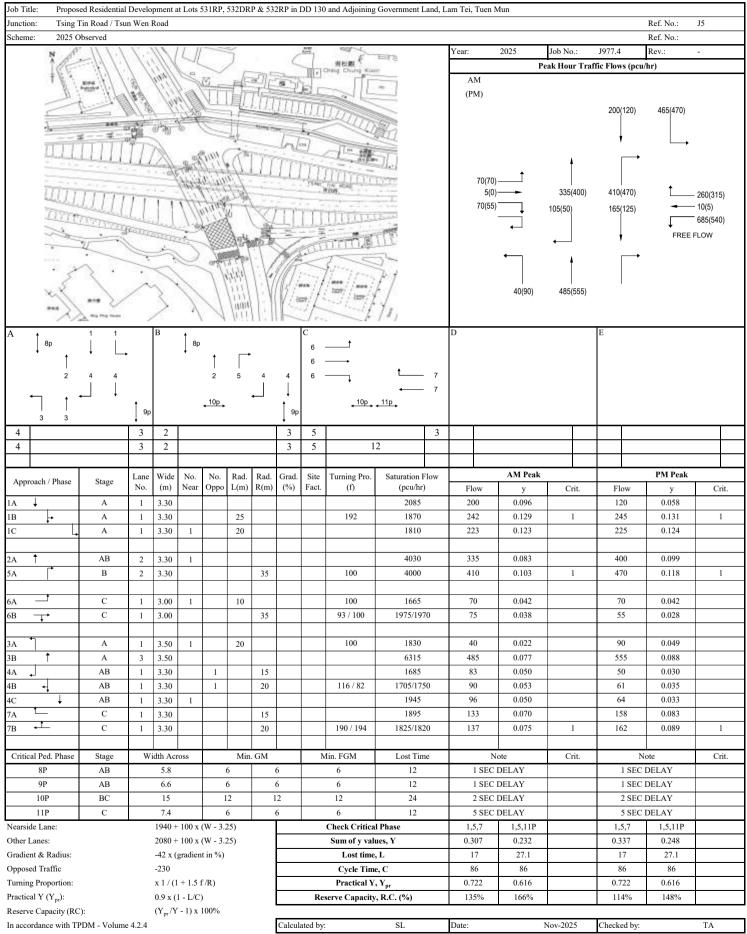


Proposed Residential Development at Lots 531RP, 532DRP & 532RP in DD 130 and Adjoining Government Land, Lam Tei, Tuen Mun Junction: Castle Peak Road- Lam Tei/ Lam Tei Main Street Ref. No.: Scheme 2025 Observed Ref. No.: Rev.: Peak Hour Traffic Flows (pcu/hr) AM (PM) - LAM TET 1260(1405)----**—** 1990(1315) 16 AM Peak PM Peak Wide Rad. Turning Pro. Saturation Flow Approach / Phase Stage (m) L(m) R(m) (%) Crit. 0.310 0.345 3.50 4070 1260 1405 0.489 0.323 1B 2 3.50 4070 1990 1315 Critical Ped. Phase Width Across Min. GM Min. FGM Lost Time Note Crit Crit. 2p В 16 1940 + 100 x (W - 3.25) Check Critical Phase Nearside Lane: 1,2p 1,2p 2080 + 100 x (W - 3.25) Sum of y values, Y 0.489 0.345 Other Lanes: Gradient & Radius: -42 x (gradient in %) Lost time, L 24 24 -230 108 108 Opposed Traffic Cycle Time, C Practical Y, Yp x 1 / (1 + 1.5 f/R)0.700 0.700 Turning Proportion: Practical Y (Ypr): 0.9 x (1 - L/C) Reserve Capacity, R.C. (%) 43% 103% Reserve Capacity (RC): $(Y_{pr}/Y - 1) \times 100\%$ In accordance with TPDM - Volume 4.2.4 Calculated by: SL Date: Nov-2025 Checked by:







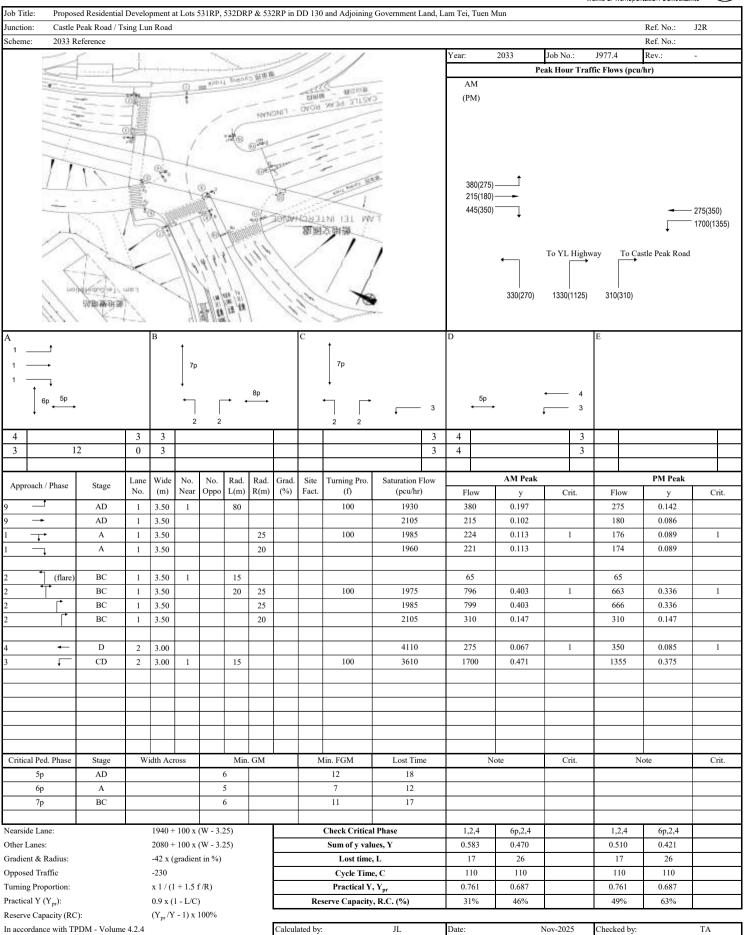


Simplified Roundabout Capacity Calculation



Job Title:	Proposed Re	esidential Deve	elopment at	Lots 531RP, 532	DRP & 532	2RP in DD 130	and Adjoinir	ng Government La	nd, Lam Tei	, Tuen Mun
Junction:	Lam Tei	Interchang	e					Ref. No.:	J	IR
Scheme:	2033 Ref	erence						Ref. No.:		
Year:	2033			Job No.:		J977.4		Rev.:		-
AM	PM									
ARM A:	Slip Road to	Tuen Mun R	oad (Exit or	ıly)						
ARM B:	Slip Road fr	om Tuen Mun	Road					D		
ARM C:	Tsing Lun R	Road						<u> </u>		
ARM D:	Slip Road fr	om Castle Pea	k Road							
						C-	——(}	·A	
								\bigvee		
~~ ~										
GEOMETI ARM	1	0	L		D	Phi	C	В		
	7.00	e 10.00	10	50	70	30	S 0.48			
A B	7.00	7.50	5	30	70 70	45	0.48			
С	7.00	7.50	5	60	70 70	30	0.16			
D	7.00	10.00	15	60	70 70	30	0.10			
D	7.00	10.00	13	00	70	30	0.32			
AM FLOW	•							1		
from \ to	A	В	C	D 0				Circ	Entry	
A B	0	0	0	0				0 1615	0 875	
C C	0	0	0	0				465	1110	
D	0	0	0	0				960	1545	
D		V	V	v				700	1343	
PM FLOW										
from \ to	A A	В	С	D				Circ	Entry	
A	0	0	0	0				0	0	•
В	0	0	0	0				1635	980	
C	0	0	0	0				480	655	
D	0	0	0	0				645	1530	
CALCULA	TIONS							$Q_{\rm E}$	RFC	
ARM	K	X_2	M	F	t_{D}	f_c	AM	PM	AM	PM
A	1.03	8.53	2.72	2585	1.13	0.64	2661	2661	0.00	0.00
В	0.96	7.38	2.72	2236	1.13	0.59	1237	1226	0.71	0.80
C	1.03	7.38	2.72	2236	1.13	0.59	2025	2016	0.55	0.32
D	1.03	8.83	2.72	2675	1.13	0.66	2109	2324	0.73	0.66
	ı						1	Critical Arm:	D	В
								RFC:	0.73	0.80
In accorda	nce with TPL	OM V2.4							AM	PM
Calculated b		SL		Date:	Nov-25		Checked b	- ov:	ГА	

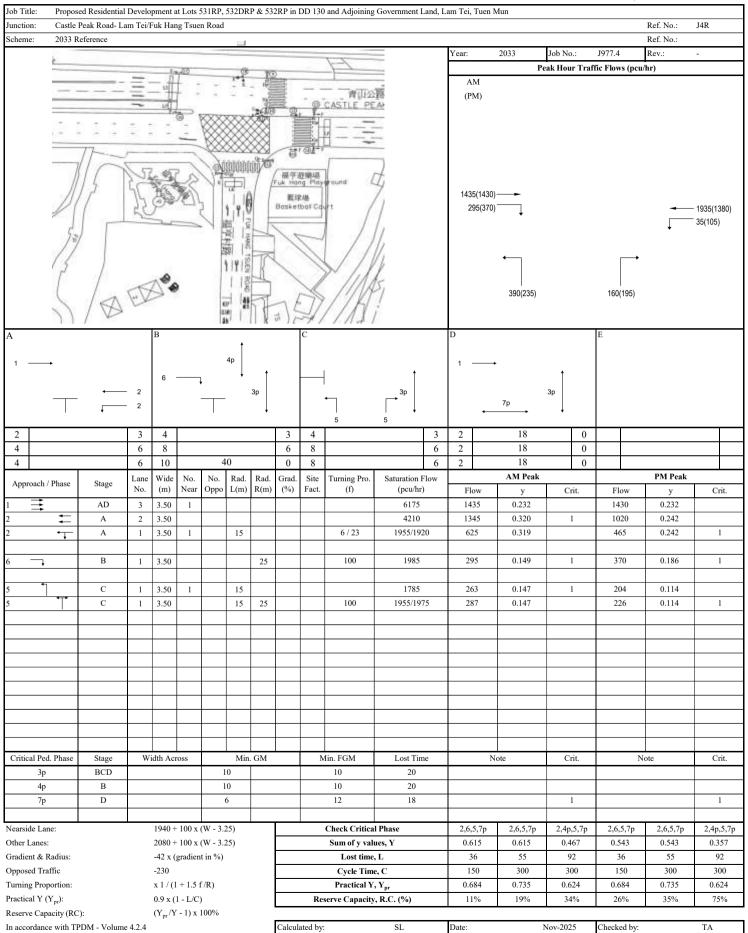




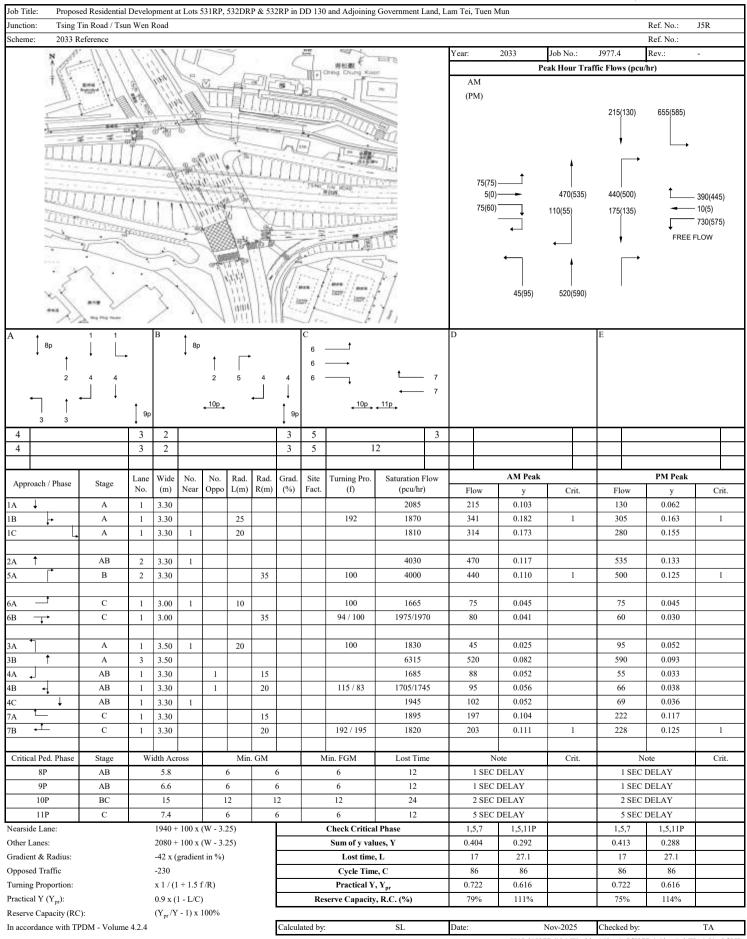


Job Title:	Propose	d Residential	Develo	pment a	t Lots	531RP,	532DR	P & 53	2RP in	DD 130	and Adjoining	Government l	Land, L	am Tei,	Tuen N	Mun				
Junction:	Castle P	eak Road- La	ım Tei/	Lam Te	i Main	Street													Ref. No.:	J3R
Scheme:	2033 Re	eference																	Ref. No.:	
			11		11						- 1			Year:		2033	Job No.:	J977.4	Rev.:	-
	1		1/	-	1.7	8			(3)		1/1	11				Pe	eak Hour Traf	ffic Flows (pcu	/hr)	
- LAN	TEI	3		1 2.6	7		0)		0		9		A) (P)	M)				-	- 2455(1730)
				В						C				D				Ir.		
A				В						С				ט				E		
								1												
		•	- 1					2p												
								1												
											1									
4			3	2]	16		0											
			Lane	Wide	No.	No.	Rad.	Rad.	Grad.	Site	Turning Pro.	Saturation 1	Flow			AM Peak		<u>l</u>	PM Peak	l
Approach / I	Phase	Stage	No.	(m)	Near			R(m)		Fact.	(f)	(pcu/hr		Flo	ow	у	Crit.	Flow	у	Crit.
1A 📑		A	2	3.50	1							4070		134		0.330		1500	0.369	
1B	=	A	2	3.50	1							4070		24:	55	0.603	1	1730	0.425	1
Critical Ped.	Phase	Stage	W	idth Acı	ross		Min	. GM		N	In. FGM	Lost Tin	ne		N	ote	Crit.	N	ote	Crit.
2p		В					9				7	16					1			1
																1				
Nearside Lane	e:					(W - 3.					Check Critica			1,2		1		1,2p		
Other Lanes:	adine:			2080 +							Sum of y val			0.6		-	1	0.425	-	-
Gradient & Ra Opposed Traff				-42 x (gradier	и п %)					Lost time			2				24 108	-	
Turning Propo				x 1 / (1	+1.5	f/R)			Cycle Time, C Practical Y, Y _{pr}						00			0.700	<u> </u>	
Practical Y (Y				0.9 x (Re	serve Capacity			16		1	1	65%	<u> </u>	
Reserve Capac):		(Y _{pr} /Y							£			<u> </u>		1	ı	1	1	1.
In accordance			4.2.4	•					Calcul	ated by	:	SL		Date:		1	Nov-2025	Checked by:		TA







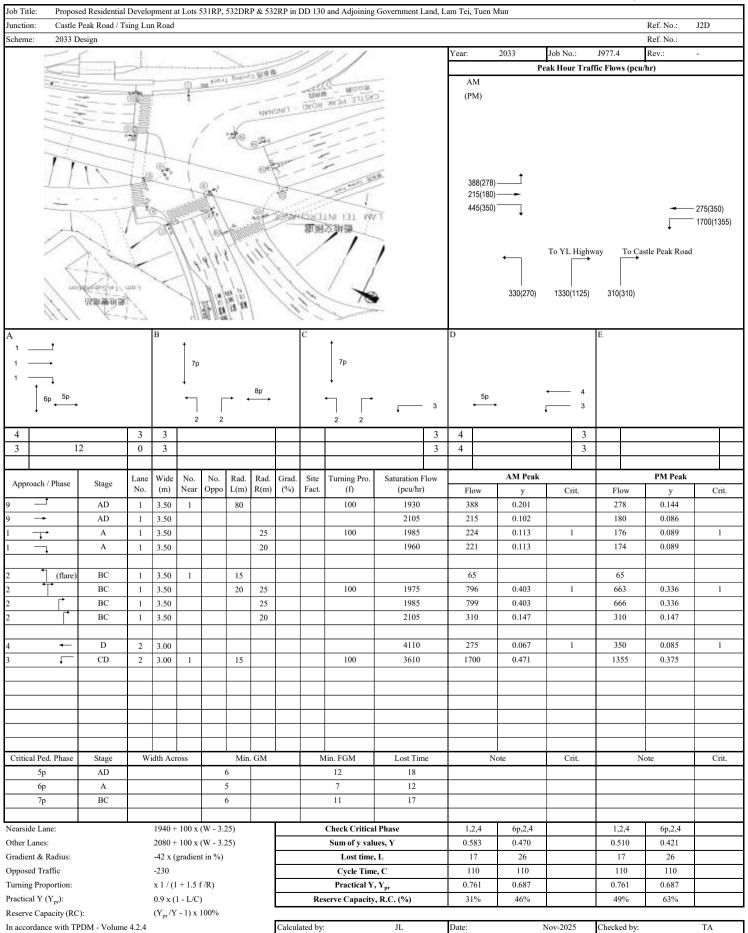


Simplified Roundabout Capacity Calculation



Job Title:	Proposed Re	esidential Deve	lopment at	Lots 531RP, 532	DRP & 532	2RP in DD 130	and Adjoinir	ng Government La	nd, Lam Tei	, Tuen Mun
Junction:	Lam Tei l	nterchang	e					Ref. No.:	J1	D
Scheme:	2033 Des	sign	Ref. No.:							
Year:	2033			Job No.:		J977.4		Rev.:		-
AM	PM									
ARM A:	Slip Road to	Tuen Mun Ro	oad (Exit or	nly)						
ARM B:	Slip Road fr	om Tuen Mun	Road					L		
ARM C:	Tsing Lun R							<u></u> □		
ARM D:		om Castle Pea	k Road							
	-					C-	—()—	·A	
							`	\bigvee		
GEOMETE	RY							I B		
ARM	v	e	L	r	D	Phi	S			
A	7.00	10.00	10	50	70	30	0.48			
В	7.00	7.50	5	30	70	45	0.16			
C	7.00	7.50	5	60	70	30	0.16			
D	7.00	10.00	15	60	70	30	0.32			
AM FLOW	<u> </u>									
from \ to	A	В	С	D				Circ	Entry	1
A	0	0	0	0				0	0	
В	0	0	0	0				1615	875	
C	0	0	0	0				465	1110	
D	0	0	0	0				960	1545	
PM FLOW	S									
from \setminus to	A	В	C	D				Circ	Entry	
A	0	0	0	0				0	0	ı
В	0	0	0	0				1635	980	
C	0	0	0	0				480	655	
D	0	0	0	0				645	1530	
CALCULA	TIONS							$Q_{\rm E}$	RFC	
ARM	K	X_2	M	F	$t_{\rm D}$	f_c	AM	PM	AM	PM
A	1.03	8.53	2.72	2585	1.13	0.64	2661	2661	0.00	0.00
В	0.96	7.38	2.72	2236	1.13	0.59	1237	1226	0.71	0.80
C	1.03	7.38	2.72	2236	1.13	0.59	2025	2016	0.71	0.32
D	1.03	8.83	2.72	2675	1.13	0.66	2109	2324	0.73	0.52
	I						1	Critical Arm:	D 0.73	B 0.80
. In accorda	nce with TPL	M V2 A						KrC.	AM	PM
ın uccoraa	nce wiin IPL	SL		Date:					TA	T IVI







	ed Residential Peak Road- La					532DR	P & 53	2RP in	DD 130	and Adjoining	Government Land	d, L	am Tei, Tuen I	Mun			Ref. No.:	J3D
Scheme: 2033 I	Design																Ref. No.:	
_		16		11						- 1			Year:	2033	Job No.:	J977.4	Rev.:	-
1-1		"/		6/				8		M			AM	P	eak Hour Tra	ffic Flows (pcu	ı/hr)	
- LAM TEI	15		N 1-2.6	7		O WHITE			0		19		(PM))——►			-	- 2478(1740)
A			В						С				D			Е		
1							+											
		- 1					2p											
	•						۲											
							•											
4		3	2		1	6		0										
4 1 / M	G.	Lane	Wide	No.	No.	Rad.	Rad.	Grad.	Site	Turning Pro.	Saturation Flov	w	1	AM Peak	<u>l</u>	<u> </u>	PM Peak	<u> </u>
Approach / Phase	Stage	No.	(m)	Near	Oppo	L(m)	R(m)	(%)	Fact.	(f)	(pcu/hr)		Flow	у	Crit.	Flow	у	Crit.
IA 📑	A	2	3.50	1							4070		1369	0.336		1510	0.371	
1B ←	A	2	3.50	1							4070		2478	0.609	1	1740	0.428	1
																+	+	
																1	1	
Critical Ped. Phase	Stage B	W	idth Acı	ross		Min 9	. GM		N	fin. FGM	Lost Time 16		N	lote	Crit.	N	Note	Crit.
2p	В					7				7	10				1	1		1
Nearside Lane:					(W - 3.					Check Critica			1,2p			1,2p	ļ <u> </u>	
Other Lanes:					(W - 3.					Sum of y value			0.609			0.428 24	-	
Gradient & Radius: Opposed Traffic			-42 x (gradien	ıt in %)					Lost time			24 108			108	+	
Turning Proportion:			x 1 / (1	1 + 1.5 1	f/R)			-		Practical Y			0.700			0.700	1	
Practical Y (Y _{pr}):			0.9 x (Re	serve Capacity			15%		1	64%	1	
(- pr)			,		,					onputti	, 14.6.	_	1570	<u> </u>				<u></u> '



