Appendix II

Traffic Impact Assessment

Reference number CHK50709210

PLANNING APPLICATION FOR PROPOSED COMPREHENSIVE DEVELOPMENT SCHEME TO INCLUDE WETLAND RESTORATION PROPOSAL AND PROPOSED FILLING OF PONDS/LAND AND EXCAVATION OF LAND IN "OU(CDWRA)" ZONE AT VARIOUS LOTS IN D.D. 104, NORTH OF KAM POK ROAD EAST, POK WAI, YUEN LONG, NEW TERRITORIES

TRAFFIC IMPACT ASSESSMENT







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1. INTRODUCTION

1.1 Background

- 1.1.1 The proposed residential development is situated at Various lots in D.D.104, North of Kam Pok Road East, Pok Wai, Yuen Long, New Territories as indicated in **Drawing 1.1**.
- 1.1.2 The Application Site is currently zoned as "Other Specified Uses" annotated "Comprehensive Development to include Wetland Restoration Area" on the Approved Nam Sang Wai Outline Zoning Plan No.: S/YL-NSW/8 (the "OZP"). In addition, the southern part of the application site falls within the boundary of Wetland Buffer Area in accordance with the Town Planning Board Guideline 12C "Application for Developments within Deep Bay Area under Section 16 of the Town Planning Ordinance" ("TPB PG-No. 12C").
- 1.1.3 MVA Hong Kong Limited has been commissioned by the Applicant as a traffic consultant to carry out a Traffic Impact Assessment (TIA) in support of the present Section 16 application for a proposed comprehensive development scheme to include wetland restoration proposal. This TIA study is to investigate the potential traffic impact of the proposed development scheme on the local road system.

1.2 Study Objectives

- 1.2.1 The objective of this TIA is to assess the potential traffic impact due to the proposed development on the area with a view to supporting this planning application. The following tasks were carried out and included in this report:
 - Present the proposed development schedule and its internal transport provisions;
 - Review the current traffic conditions in the vicinity;
 - Estimate the traffic generation/attraction of the proposed development;
 - Produce traffic forecasts for the local road network at the adopted design year;
 - Investigate the traffic impact on the local road network upon operation of the proposed development; and
 - Suggest any traffic improvement measures, if considered necessary, to alleviate the potential traffic problem.

1.3 Report Structure

- 1.3.1 Following this introductory chapter, there are five further chapters;
 - Chapter 2 Proposed Development, introduces the proposed development scheme;
 - Chapter 3 Existing Traffic Context, reviews the current traffic condition in the vicinity;
 - Chapter 4 Traffic Forecasting, describes the traffic forecasting methodology;
 - Chapter 5 Traffic Impact Assessment, describes the assessments conducted;
 - Chapter 6 Long Term Traffic Forecasts, depicts the forecasting methodology of deriving the long-term traffic forecasts for Environmental Assessment;
 - Chapter 7 Conclusions, summarizes and concludes the study findings.



2. PROPOSED DEVELOPMENT

2.1 Proposed Development Schedule

2.1.1 The proposed scheme comprises a total of 114 units in 108 housing blocks (i.e. 89 blocks of 2to 4-storey on top of 1-level communal basement carpark and 25 houses of 3-storey including carport) with a total domestic GFA, approximately 20,430m² (round-up figure). The main development parameters of the proposed scheme are summarized in **Table 2.1**.

Application Site	Average Flat Size (sqm)	No. of Units	GFA (sqm)*
Northeast part	174.49	89	15,530
Southwest part	196	25	4,900
	Total	114	20,430

Table 2.1Development Parameters

*Round-up figures.

2.2 Vehicular Access Arrangement

- 2.2.1 Due to the limitation of the Application Site and in order to minimize the potential impact on the wetland restoration area, the whole development is proposed to divide into two parts, as presented in **Drawing 2.1**, it is therefore proposed to provide two vehicular accesses in this proposed development. The main vehicular access point (about 8m wide) of the proposed development is proposed at Kam Pok Road East. The second vehicular access point with around 7.3m wide of single two-lane carriageway and 2m wide of footpath is proposed at the southwest of the Application Site. The location of these two proposed two vehicular access points are illustrated in **Drawing 2.1**.
- 2.2.2 Swept path analysis of private vehicles, 11m long vehicles and fire engines at these two on-site vehicular accesses are attached in **Appendix B.**

2.3 Internal Transport Facility

2.3.1 The parking and loading/unloading provisions for the proposed comprehensive development are proposed in accordance with the Hong Kong Planning Standards and Guidelines "HKPSG" (August 2021 Edition) Table 2.2 provides the breakdown of the calculations of the proposed provisions.

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	Internal Transport	ernal Transport Facilities Use		quirement
Development Schedule	Facilities			Max.
Residential		Private Housing		
- Total GFA: ~20,430m ² - Actual Plot Ratio: 0.4 ⁽¹⁾	Private Car	(i) Residential Units flat size between 130 –160m ^{2 (2)}	66	115
- Total No. of Units: 114 (i) Flat size between	Parking Spaces ⁽⁵⁾	(ii) Residential Units flat size over 160m ^{2 (3)}	65	114
130 — 160m²: 64		Sub-total	131	229
nos.		Required Accessible car parking spaces (4)	2	3
(ii) Flat size over 160m ² : 50 nos.	Motorcycle Parking Spaces ⁽⁶⁾	Total	1	2
- No. of houses: 114 • Assuming 1	Loading/ Unloading Bay ⁽⁷⁾	Total	2	2
house for every 1 flat	Bicycle Parking ⁽⁸⁾	Total	4	4

Table 2.2 Proposed Internal Transport Facility

Notes:

(1) For Domestic Plot Ratio (PR) between 0 – 1, adjustment ratio of 1.3 would be applied for calculating the required private car parking spaces.

(2) For flat size between 130 – 160 m², 1 private car parking space would be provided for every 0.56 – 0.98units.

(3) For flat size over 160m², 1 private car parking space would be provided for every 0.44 – 0.77units. The standard for the developments of flat size greater than 160m² is a minimum requirement. Request for provision beyond the standard will be considered by Transport Department on a case-by-case basis.

(6) In the case of private housing, the calculation shall be based on 1 motorcycle parking space per 100-150 flats excluding non-residential elements.

(7) Please be advised that there is no specific requirement in provision of loading / unloading bay for houses, thus 2 no. of loading / unloading bay is proposed, or as determined by the Authority.

(8) For residential developments outside a 2km radius of rail station, 1 bicycle parking space for every 30 flats with flat size smaller than 70m².

2.3.2 The parking and loading/unloading provisions for the proposed comprehensive development are summarised in **Table 2.3**. Swept path analysis of private cars, 11m long vehicles and refuse collection vehicles on GF and Basement of the Application Site are attached in **Appendix B**, demonstrating sufficient space for maneuvering of long vehicles.

Internal Transport Facilities	Proposed Provision			
Private Car Parking Spaces	229			
Motorcycle Parking Spaces	2			
Loading/ Unloading Bay for heavy goods vehicle	2			
Bicycle Parking	4			

Table 2.3	Proposed Parking Provision
Table 2.5	Proposed Parking Provision

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⁽⁴⁾ For total 1 – 50 nos. of car parking spaces in lot, 1 accessible car parking space is required. For total 51 – 150 nos. of car parking spaces in lot, 2 accessible car parking spaces are required. For total 151 – 250 nos. of car parking spaces in lot, 3 accessible car parking spaces are required

⁽⁵⁾ Please be advised that there is no specific requirement in provision of visitor parking for houses, thus no visitor parking is proposed, or as determined by the Authority.



3. EXISTING TRAFFIC CONTEXT

3.1 Surrounding Road Network

- 3.1.1 As indicated in **Drawing 1.1**, the site is located north of Kam Pok Road East. The development traffic from San Tin Highway would access the site via Castle Peak Road Tam Mi Section and Kam Pok Road East. The proposed ingress and egress routes of the Application Site are illustrated in **Drawing 3.1**.
- 3.1.2 Kam Pok Road East is a standard single-two lane carriageway of 10m wide with a 2m wide footpath along its two sides. It mainly serves the local area (both for the Application Site and its surrounding developments).
- 3.1.3 Castle Peak Road Tam Mi Section is also a standard single-two lane carriageway of 6.75m wide with a 2m wide footpath to the western side of the Application Site. It is a local access road.

3.2 Current Junction Operational Performance

3.2.1 A total of three local junctions, as indicated in **Drawing 3.2**, have been identified for assessment purpose in this study. These three identified junctions are listed in **Table 3.1**, and their existing layouts are shown in **Drawings 3.3** to **3.5**.

Ref. ⁽¹⁾	Junction	Туре	Drawing No.
J1	Fairview Park Boulevard Roundabout	Roundabout	3.3
J2	Castle Peak Road – Tam Mi / Kam Pok Road East	Signal	3.4
J3	Kam Pok Road East / Kam Pok Road	Priority	3.5

Table 3.1	Identified Local Key Junctions
-----------	--------------------------------

Remark: (1) Refer to **Drawing 3.2** for junction reference.

Traffic Surveys

- 3.2.2 A series of manual classified traffic surveys were conducted at the three identified junctions to establish the current traffic condition in the vicinity. The surveys were carried out during the morning and evening peak hour periods on a typical weekday in early-December 2022.
- 3.2.3 The results of the survey results have indicated that the morning and evening peak hours occur during 08:00 09:00 and 17:30 18:30 respectively. The observed weekday peak hour traffic flows are shown in **Drawing 3.6.**
- 3.2.4 Junction capacity assessments of the identified junctions were conducted with respect to the observed traffic flows in order to evaluate their current operational performance during the weekday peak hours and the results are summarised in **Table 3.2**. The detailed calculation sheet is provided in **Appendix A**.

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Def (1)	lunction	RC/RFC ⁽²⁾			
Kel. V	Junction	AM Peak	PM Peak		
J1	Fairview Park Boulevard Roundabout	0.58	0.56		
J2	Castle Peak Road – Tam Mi / Kam Pok Road East	+23%	+48%		
J3 Kam Pok Road East / Kam Pok Road		0.36	0.23		

Remarks: (1) Refer to **Drawing 3.2** for junction reference.

(2) RC = reserved capacity, RFC = ratio of flow to capacity.

3.2.5 The results of the junction operational performance as indicated in **Table 3.2** have demonstrated that all identified junctions are currently operating with ample capacity during the typical weekday morning and evening peak hours.

3.3 Road Link Assessment

3.3.1 Apart from junction capacity assessments, road link assessments for the identified road links were also carried out as illustrated in **Drawing 3.2**. Performance of these road links were assessed in terms of traffic volume/capacity (V/C) ratio and the results are presented in **Table 3.3** below.

Ref. ⁽¹⁾			Link Capacity ⁽²⁾ (veh/hr)	Year 2022					
	Road Link	Direction		AM			PM		
		Direction		Flows (pcu/hr)	Flows (veh/hr)	V/C ratio	Flows (pcu/hr)	Flows (veh/hr)	V/C ratio
L1	Castle Peak	NB	765	500	313	0.41	385	262	0.34
	Road – Tam Mi	SB	765	320	192	0.25	315	183	0.24
L2	Kam Pok Road East	EB	990	250	120	0.12	185	102	0.10
		WB	990	250	142	0.14	215	119	0.12
L3	Kam Pok Road	EB	990	135	66	0.07	110	62	0.06
		WB	990	170	96	0.10	145	81	0.08
L4	Fairview Park Boulevard	EB	2600	845	735	0.28	625	526	0.20
		WB	2600	640	521	0.20	810	737	0.28

Table 3.3Road Link Assessment in Year 2022

Remark: (1) Refer to **Drawing 3.2** for the location of road section. (2) Refer to TPDM Vol. 2 Ch. 2.4 for the link capacity.

3.3.2 As shown in the above table, results of road link assessment have indicated that all the identified road links are currently operating with sufficient capacity (i.e. V/C ratio ≤0.85) during the typical weekday morning and evening peak hours.

3.4 Existing Public Transport Services

3.4.1 Three franchised bus routes and four GMB routes are operating along Castle Peak Road to/from Yuen Long City Centre. Details of these franchised bus and GMB services are listed in **Table 3.4** and illustrated in **Drawing 3.7**.

	/ /
Pok Wai, Yuen Long, New Territories	
Land in "OU(CDWRA)" Zone at Various Lots in D.D. 104, North of Kam Pok Road East,	CHR50703210
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Route	Destination – Origin	Peak Frequency (minutes)
Franchised Bu	5	
76K	Long Ping Estate – Ching Ho Estate	20 - 30
976	Lok Ma Chau (San Tin) → Sai Wan Ho	3 trips in Morning Peak
976	Sai Wan Ho → Lok Ma Chau (San Tin)	3 trips in Evening Peak
976A	Lok Ma Chau (San Tin) – Siu Sai Wan (Island Resort)	1 trip in Morning Peak
976A	Siu Sai Wan (Island Resort) – Lok Ma Chau (San Tin)	1 trip in Evening Peak
Green Mini-Bu	IS	
36	Yuen Long (Fook Hong Street) – Tai Sang Wai Rural Office	10 – 15
37	Yuen Long (Fook Hong Street) – Yau Tam Mei Village Office	12 – 15
38	Yuen Long (Fook Hong Street) – Yau Tam Mei West	10 – 15
75	Yuen Long (Fook Hong Street) – Lok Ma Chau Spur Line Public Transport Interchange	7-9

Table 3.4 Existing Public Transport Services

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4. TRAFFIC FORECAST

4.1 Design Year

4.1.1 The tentative operation year of the proposed development is by 2025. Hence, the design year 2028, three years upon operation, has been adopted for traffic forecast and assessment purposes.

4.2 Reference Traffic Forecast

4.2.1 To estimate the 2028 traffic flows in the local road network, an appropriate growth factor has identified for the area in the first instance.

Traffic Growth

4.2.2 Annual Traffic Census (ATC) traffic count stations are available in the vicinity of the Application Site. The traffic counts reported in the latest ATC report over the years between 2016 and 2021 have been referenced and the figures are shown in **Table 4.1**.

Road (Section)	From	То	Stn No.	Average Annual Daily Traffic (A.A.D.T.)			.)	Growth Rate (p.a.)		
				2016	2017	2018	2019	2020	2021	16/21
San Tin Highway, Castle Peak Road & San Tam Road	Kam Tin Road	Fairview Park Boulevard	5016	92,230	90,650	86,230	90,860	81,870	86,620	-1.25%
Castle Peak Road – Yuen Long	Yuen Long On Lok Road	Kam Tin Road	5019	31,990	30,040	29,300	30,160	27,640	29,600	-1.54%
Castle Peak Road – Tam Mi, Mai Po & San Tin	Fairview Park Boulevard	Lok Ma Chau Road	5257	10,940*	10,770*	11,980	11,910	11,420*	11,880*	1.66%
San Tam Road	Castle Peak Road - Mai Po	Fairview Park Boulevard Roundabout	5297	6,400*	6,300*	8,540	7,530	7,220*	7,510*	3.25%
Lok Ma Chau Road	Castle Peak Road	Ha Wan Tsuen Road	5861	12,920	9,820	10,060*	9,990*	9,580*	4,260	-19.90%
San Tam Road	Fairview Park Boulevard RA	End	5505	12,590*	12,390*	12,700*	13,330	13,420	13,960*	2.09%
San Tin Highway	Fairview Park Boulevard	Lok Ma Chau Rd	5508	90,760*	90,110*	92,980*	80,460	82,010	86,000*	-1.07%
			Total	257,830	250,080	251,790	244,210	233,160	239,830	-1.44%

Table 4.1ATC Traffic Counts between 2016 and 2021

Remark: *AADT estimated by Growth Factor

- 4.2.3 As shown in **Table 4.1**, it is noted that over the past 5 years, the average annual traffic growth pattern shows a negative trend with rate of -1.44% per annum from years 2016-2021.
- 4.2.4 Apart from ATC traffic count, reference has been made to the Projection of Population Distribution by Tertiary Planning Unit from 2022-2025 published by the Planning Department as presented in **Table 4.2**.

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Table 4.2Average Annual Growth Rate of Projection of Population Distribution by
Tertiary Planning Unit 2022-2025

Tertiary Planning	Projection of Po	pulation by Terti	Growth Rate (p.a.)		
Unit	2022	2023	2024	2025	22/25
525	1,500	1,500	1,500	1,600	2.17%
526	12,600	12,500	12,500	12,400	-0.53%
541	18,900	18,600	18,500	18,200	-1.25%
542	13,900	13,800	13,900	14,100	0.48%
543 & 546	4,300	4,200	4,800	5,000	5.16%
544	3,000	3,000	3,000	3,000	0.00%
548	4,000	3,900	3,900	3,900	-0.84%
Total	58,200	57,500	58,100	58,200	0.00%

Remark: (1) Projection of Population by Tertiary Planning Unit are taken from Table 15 of "Projection of Population Distribution 2021-2029" published by Planning Department.

- 4.2.5 As shown in **Table 4.2**, Projection of Population by Tertiary Planning Unit shows there will be no changes in population from year 2022 to year 2025.
- 4.2.6 Based on the information given by Annual Traffic Census (ATC) traffic count historical data and Projection of Population by Tertiary Planning Unit as shown in **Tables 4.1** to **4.2**, in order to provide a conservative assessment, the growth rate +0.5% per annum is being adopted to cover the growth in traffic from year 2022 to design year 2028.

Adjacent Planned/Committed Developments

4.2.7 A number of other planned/committed developments have been identified in the vicinity of the Application Site expected to be completed by year 2028. The development schedules of these developments are outlined in **Table 4.3** and the location of these developments are shown in **Drawing 4.1**.

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Ref. (1)	Committed/Approved Developments	Parameters
1	Sha Po North Development	82,430 m ² GFA
2	Residential Development R(D) at Kam Pok Road (to the west of Chuk Yuen Tsuen)	13,183 m ² GFA
3	Lots 43 S.A RP, 50 S.A and 50 RP in D.D.101, Wo Shang Wai, Mai Po, Yuen Long, New Territories	82,963 m ² GFA
4	Residential Development next to Shek Wu Wai San Tsuen	45,197 m ² GFA
5	Residential Development at the Junction of San Tam Road and Maple Gardens 1 st Street	4,249 m² GFA
6	Residential Development at Kam Pok Road near Fairview Park	17,225 m² GFA
7	Comprehensive Development and Wetland Protection near Yau Mei San Tsuen	16,200 m² GFA
8	Lots 8 RP (Part), 14S.B. RP (Part), 45 and 1740S.A. RP in D.D.107 and adjoining government land to the south of Wing Kei Tsuen, Yuen Long	37,171 m² GFA
9	Lot 1743 S.C. RP (Part) in D.D.107 to the South of Wing Kei Tsuen, Yuen Long	Retail: 38,300 m ² GFA Hotel: 700 Rooms
10	Residential development in D.D.104 and adjoining government land, Mai Po, Yuen Long	7,540 m² GFA

Table 4.3 P	Planned/Committed	Developments
-------------	-------------------	--------------

Remark: (1) Refer to **Drawing 4.1** for development locations.

4.3 Development Traffic Generations

Trip Generation of Proposed Scheme

4.3.1 The proposed development comprises a total of 114 houses and their trip generations of the proposed development are estimated in accordance with the relevant trip rates as tabulated in the Transport Planning Design Manual (TPDM). **Table 4.4** summarizes the trip rates of the proposed development.

	Trip Rates (pcu/hr)				
Private Housing	AM	Peak	PM Peak		
	Gen	Att	Gen	Att	
R(C), Average flat size = 180m ²					
per units, Mean rate, for 89 houses	0 2772	0 1760	0 1625	0 2204	
with an average flat size 174.5m ²	0.2772	0.1709	0.1055	0.2394	
(Northeast part of Application Site)					
R(C), Average flat size = 240m ²					
per units, Mean rate, for 25 houses	0 2012	0 2190	0 2225	0 2224	
with an average flat size 196m ²	0.3012	0.2169	0.2255	0.5254	
(Southwest part of Application Site)					

 Table 4.4
 Estimated Trip Rates of Proposed Development

* Trip rates extracted from TPDM.

4.3.2 The resulting trips generated and attracted by the proposed development are given in Table **4.5**.

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	Trip Generations (pcu/hr)			
	AM Peak		PM	Peak
	Generation	Attraction	Generation	Attraction
89 houses with an average flat size 174.5m ² (Northeast part of Application Site)	25	16	15	22
25 houses with an average flat size 196m ² (Southwest part of Application Site)	8	6	6	9
Total (2-way)) 55 52			2

Table 4.5 Estimated Trip Generation and Attraction of Proposed Development

- 4.3.3 As indicated in **Table 4.5**, the proposed development would generate a two-way total of 55 pcu/hr and 52 pcu/hr during the weekday morning and evening peak hour periods respectively.
- 4.3.4 Based on the above, the year 2028 reference traffic flows and year 2028 design flows are produced according to the following:

Year 2028 Reference Case =	Observed Traffic Flows x Adopted Grow Factor (i.e. +0.5%) + Other Planned or Committed Development Trip Generation
Year 2028 Design Case =	2028 Reference Case + Proposed Trip Generation due to Application Site

4.3.5 The traffic flows under year 2028 reference case and year 2028 design case are shown in **Drawing 4.2** and **Drawing 4.3** respectively.

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Pok Wai, Yuen Long, New Territories	



5. TRAFFIC IMPACT ASSESSMENT

5.1 Year 2028 Junction Operational Performance

5.1.1 To assess the traffic impact of the proposed development on the surrounding road network at the design year 2028, operational performances of the identified key local junctions J1 and J2 were reviewed based on the existing junction layouts for both reference and design scenarios. As mentioned in Section 2.2, the access road with around 7.3m wide of single two-lane carriageway and 2m wide of footpath is proposed to connect the second vehicular access at the southwest of the Application Site to Kam Pok Road East, the junction layout of junction J3 is proposed to be modified slightly as shown in Drawing 5.1. The results of the assessment for the year 2028 reference and design scenarios are summarized in Table 5.1. The detailed calculation sheet is in Appendix A.

		RC/RFC ⁽²⁾			
$\mathbf{Pof}^{(1)}$	lunction	Reference	e Scenario	Design Scenario	
Rel.	Junction	AM PM AM F			PM
		Peak	Peak	Peak	Peak
J1	Fairview Park Boulevard Roundabout	0.71	0.72	0.72	0.73
J2	Castle Peak Road – Tam Mi / Kam Pok Road	+8%	+14%	+2%	+11%
	East				
J3	Kam Pok Road East / Kam Pok Road	0.37	0.24	0.37	0.24

 Table 5.1
 Year 2028 Junction Operational Performance

Remarks: (1) Refer to **Drawing 3.2** for junction reference.

(2) RC = reserved capacity, RFC = ratio of flow to capacity.

- 5.1.2 The results of the above assessment have indicated that the identified key junction J1 and J3 would operate with ample capacity but junction J2 would operate at capacity in year 2028 with the proposed development at the Application Site.
- 5.1.3 In order to cater for the future traffic demand, junction improvement schemes are proposed for junction J2 illustrated in **Section 5.2**.

5.2 Proposed Traffic Improvement Scheme

Proposed Junction Improvement of Kam Pok Road / Castle Peak Road – Tam Mi (J2)

5.2.1 Modification of cycle time of the signal junction is proposed to be increased from 94 and 90 seconds to 120 seconds during AM and PM peak period respectively, while the existing method-of-control for the signal junction is maintained. The junction performance of junction J2 under the proposed improvement scheme is summarized in the below **Table 5.2**. The detailed calculation sheet is in **Appendix A**.

Planning Application for Proposed Comprehensive Development Scheme to include Wetland Restoration Proposal and Proposed Filling of Ponds/Land and Excavation of Land in "OU(CDWRA)" Zone at Various Lots in D.D. 104, North of Kam Pok Road East, Pok Wai, Yuen Long, New Territories	СНК50709210



Table 5.2Junction Performances in year 2028 with Proposed Traffic ImprovementScheme

			Year 2028 R.C. ⁽¹⁾ / DFC ⁽²⁾				
Ref	Junction	Method of Control	Design Scenario (without junction Improvement)		Design Scenario (with junction Improvement)		
			AM Peak	PM Peak	AM Peak	PM Peak	
J2	Castle Peak Road – Tam Mi / Kam Pok Road East	Signal	+2%	+12%	+18%	+33%	

5.3 Year 2028 Road Link Assessment

5.3.1 Road link assessments were also conducted for the identified road links to assess the traffic impact of the proposed development on the surrounding road network at the design year 2028 under reference and design scenarios. The results are presented in **Tables 5.3** to **5.4** below.

Table 5.3Road Link Assessment in Year 2028 under Reference Scenario

			1 in h	Year 2028 Reference Scenario					
Dof (1)	Pood Link	Dead Link Direction			AM			РМ	
Kel.		Direction	(veh/hr)	Flows (pcu/hr)	Flows (veh/hr)	V/C ratio	Flows (pcu/hr)	Flows (veh/hr)	V/C ratio
11	Castle Peak	NB	765	595	372	0.49	490	334	0.44
LI F	Road – Tam Mi	SB	765	415	249	0.33	435	252	0.33
12	Kam Pok Road	EB	990	255	122	0.12	190	105	0.11
LZ	East	WB	990	255	145	0.15	220	121	0.12
12		EB	990	135	66	0.07	110	62	0.06
L3	кат Рок коао	WB	990	175	99	0.10	150 84	0.08	
L4	Fairview Park	EB	2600	930	809	0.31	680	572	0.22
	Boulevard	WB	2600	655	533	0.21	830	755	0.29

Remark: (1) Refer to **Drawing 3.2** for the location of road section.

(2) Refer to TPDM Vol. 2 Ch. 2.4 for the link capacity.

Table 5.4	Road Link Assessment in Year 2028 under Design Scenario
-----------	---

				Year 2028 Design Scenario					
$\mathbf{D} = \mathbf{f} (1)$	Pood Link	Direction	Link Capacity ⁽²⁾ (veh/hr)	AM			РМ		
Rel.	KUdu LIIIK	Direction		Flows (pcu/hr)	Flows (veh/hr)	V/C ratio	Flows (pcu/hr)	Flows (veh/hr)	V/C ratio
14	Castle Peak	NB	765	628	393	0.51	511	348	0.45
L1	Road – Tam Mi	SB	765	437	262	0.34	466	270	0.35
L2	Kam Pok Road	EB	990	288	138	0.14	211	116	0.12
	East	WB	990	282	160	0.16	251	138	0.14
12	Kam Pok Road	EB	990	135	66	0.07	110	62	0.06
L3		WB	990	175	99	0.10	150	84	0.08
	Fairview Park	EB	2600	930	809	0.31	680	572	0.22
L4	Boulevard	WB	2600	655	533	0.21	830	755	0.29

Remark: (1) Refer to **Drawing 3.2** for the location of road section.

(2) Refer to TPDM Vol. 2 Ch. 2.4 for the link capacity.

5.3.2 As shown in **Tables 5.3** to **5.4**, results of road link assessment have indicated that all the identified road links are expected to operate with sufficient capacity (i.e. V/C ratio ≤0.85) in year 2028 under reference and design scenarios.

Planning Application for Proposed Comprehensive Development Scheme to include	
Wetland Restoration Proposal and Proposed Filling of Ponds/Land and Excavation of	CHKE0700210
Land in "OU(CDWRA)" Zone at Various Lots in D.D. 104, North of Kam Pok Road East,	CHR50709210
Pok Wai, Yuen Long, New Territories	
Traffic Impact Assessment	14/03/2023



6. LONG TERM TRAFFIC FORECASTS

6.1 Design Year

6.1.1 Taking into consideration that the anticipated completion year of the proposed development is year 2025, the design year 2040 traffic forecasts (i.e. 15 years after the completion) was adopted as the assumption for the Noise Impact Assessment.

6.2 Traffic Forecast Methodology

6.2.1 The long-term traffic forecast exercise covers the road links within the 300m radius catchment of the proposed development site, which includes a total of 55 road sections identified, as illustrated and summarized in **Drawing 6.1 and Table 6.1**.

Road Sections	Road Name	Road Type
1E	Slip Road of San Tin Highway	
1F	Slip Road of San Tin Highway	
1G	Slip Road of San Tin Highway	
1H	Slip Road of San Tin Highway	
2A	Castle Peak Road - Tam Mi	
2B - NB	Castle Peak Road - Tam Mi	
2B - SB	Castle Peak Road - Tam Mi	
2C	Castle Peak Road - Tam Mi	
3A	San Tam Road	
3B	San Tam Road	
3C	San Tam Road	
4A	Fairview Park Boulevard	
4B	Fairview Park Boulevard	
4C	Fairview Park Boulevard	
4D	Fairview Park Boulevard	Local Road
4E	Fairview Park Boulevard	LUCAI KUAU
4F	Fairview Park Boulevard	
4G	Fairview Park Boulevard	
4H	Fairview Park Boulevard	
41	Ha San Wai Road	
5A - EB	Kam Pok Road East	
5A - WB	Kam Pok Road East	
5B - EB	Kam Pok Road East	
5B - WB	Kam Pok Road East	
5C	Kam Pok Road West	
5D	Kam Pok Road West	
6A	Yau Pok Road	
6B	Yau Pok Road	
6C	Yau Pok Road	
6D	Unnamed Road	

 Table 6.1
 List of Road Sections for Noise Impact Assessment

Planning Application for Proposed Comprehensive Development Scheme to include Wetland Restoration Proposal and Proposed Filling of Ponds/Land and Excavation of Land in "OU(CDWRA)" Zone at Various Lots in D.D. 104, North of Kam Pok Road East, Pok Wai, Yuen Long, New Territories

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Road Sections	Road Name	Road Type
6E	Unnamed Road	
6F	Unnamed Road	
7A	Pok Wai South Road	
7B - NB	Kam Pok Road	
7B - SB	Kam Pok Road	
7C	Kam Pok Road	
7D	Kam Pok Road	
8A	Kam Pok Road	
8B	Pok Wai Road	
8C	Unnamed Road	
8D	Unnamed Road	
9A	Access Road to Application Site	Local Dood
10A	Fairview Park Boulevard Roundabout	
10B	Fairview Park Boulevard Roundabout	
10C	Fairview Park Boulevard Roundabout	
10D	Fairview Park Boulevard Roundabout	
10E	Fairview Park Boulevard Roundabout	
10F	Fairview Park Boulevard Roundabout	
10G	Fairview Park Boulevard Roundabout	
10H	Fairview Park Boulevard Roundabout	
101	Fairview Park Boulevard Roundabout	
1A	San Tin Highway	
1B	San Tin Highway	Stratogic Boad
1C	San Tin Highway	Strategic Rodu
1D	San Tin Highway	

Local Roads

6.2.2 Road section 1E to 10I were identified as local roads. To derive the 2040 future traffic forecast data, the year 2028 design traffic flows as discussed in **Section 4** have been used as basis.

Traffic Growth from year 2028 to 2040

6.2.3 For the growth of the 2028 traffic flows up to the 2040 traffic flows, reference has been made to Hong Kong resident population estimates from "Hong Kong Population Projections 2020-2069" published by the Census and Statistics Department. The available projected Hong Kong resident population at the year 2028 and 2040 are illustrated in **Table 6.2**.

Table 6.2	Average Annual Gro	wth Rate of Hong Kong Res	sident Population 2028-2040
-----------	--------------------	---------------------------	-----------------------------

	2028	2040	Annual Growth Rate (2028- 2040)
Hong Kong Population (in thousands)	7,864.6	8,104.9	+0.25%

6.2.4 As shown in **Table 6.2**, Hong Kong population shows a positive growth trend with rate of +0.3% per annum from 2028-2040, which was adopted for projecting the year 2028 traffic flows up to year 2040.

Planning Application for Proposed Comprehensive Development Scheme to include Wetland Restoration Proposal and Proposed Filling of Ponds/Land and Excavation of Land in "OU(CDWRA)" Zone at Various Lots in D.D. 104, North of Kam Pok Road East, Pok Wai, Yuen Long, New Territories	СНК50709210
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Strategic Road

6.2.5 San Tin Highway (i.e. road section 1A to 1D) is an important strategic road link in Northwest New Territories (NWNT). Since the traffic growth of the strategic road would be affected by developments of a wider area, the traffic growth rate has been made reference to the latest 2019-Based Territorial Population and Employment Data Matrices (TPEDM) planning data published by the Planning Department in the NWNT.

Traffic Growth from year 2022 to 2031

6.2.6 **Drawing 6.1** shows the TPEDM zone plan of the NWNT. The average annual growth rate in terms of population from years 2019 to 2031 is illustrated in **Table 6.3**.

Sub region	Рори	lation	Growth Rate per annum (%)
300-1681011	2019	2031	2019/2031
Northwest New Territories (NWNT)	1,154,400	1,396,650	+1.60%

 Table 6.3
 2019 and 2031 Population Growth in NWNT Sub-region

6.2.7 From **Table 6.3**, the average annual growth rate of population in the area from year 2019 to 2031 is +1.60% per annum, which was adopted for projecting the observed traffic flows in year 2021 up to year 2031.

Traffic Growth from year 2031 to 2040

6.2.8 For the growth of the 2031 traffic flows up to the 2040 traffic flows, reference has been made to Hong Kong resident population estimated in "Hong Kong Population Projections 2020-2069" published by the Census and Statistics Department. The available projected Hong Kong resident population at the year 2026 and 2040 are illustrated in **Table 6.4**.

Table 6.4Average Annual Growth Rate of Hong Kong Resident Population 2031-2040

	2031	2040	Annual Growth Rate (2031 - 2040)
Hong Kong Population (in thousands)	7,945.8	8,104.9	+0.22%

6.2.9 As shown in **Table 6.4**, Hong Kong population shows a positive growth trend with an average rate of +0.22% per annum from 2031 to 2040, which was adopted for projecting the year 2031 traffic flows up to year 2040.

6.3 Vehicle Classes

- 6.3.1 The types of vehicles in the traffic forecast were first sectored into 12-class according to surveyed vehicle distribution.
- 6.3.2 For noise impact assessment purpose, it is understood that vehicles with an unladen weight of 1,525 kg should be categorised as heavy vehicles. Therefore, heavy vehicle (HV) percentage including the category of goods vehicle (GV) (comprise with vans, light goods vehicles (LGV), medium/heavy goods vehicles (MGV/HGV) and container trucks) and the category of public transport (PT) (comprise with public light buses (PLB), non-franchised buses (SPB) (including

small coaches and large coaches) and franchised buses (FB)) are adopted in accordance with the NIA requirement.

6.4 2040 Traffic Forecasts

6.4.1 The 2040 traffic forecasts together with the vehicle composition breakdown as per the requirements of Environmental Consultant for NIA purpose are summarized in **Table 6.5**.

Road Section No. ⁽¹⁾	Road Name	Direction	2040 AM Peak Traffic Flows ⁽²⁾ (veh/hr)	HV% ⁽³⁾
1A	San Tin Highway	NB	4230	45%
1B	San Tin Highway	SB	4520	47%
1C	San Tin Highway	NB	3310	48%
1D	San Tin Highway	SB	3440	51%
1E	Slip Road of San Tin Highway	NB	920	35%
1F	Slip Road of San Tin Highway	NB	560	37%
1G	Slip Road of San Tin Highway	SB	700	35%
1H	Slip Road of San Tin Highway	SB	1090	33%
2A	Castle Peak Road - Tam Mi	2-way	520	37%
2B - NB	Castle Peak Road - Tam Mi	NB	430	49%
2B - SB	Castle Peak Road - Tam Mi	SB	300	50%
2C	Castle Peak Road - Tam Mi	2-way	1000	33%
3A	San Tam Road	2-way	960	42%
3B	San Tam Road	2-way	1000	41%
3C	San Tam Road	2-way	920	35%
4A	Fairview Park Boulevard	EB	850	24%
4B	Fairview Park Boulevard	WB	570	31%
4C	Fairview Park Boulevard	EB	810	22%
4D	Fairview Park Boulevard	WB	520	31%
4E	Fairview Park Boulevard	EB	700	14%
4F	Fairview Park Boulevard	WB	530	22%
4G	Fairview Park Boulevard	EB	700	15%
4H	Fairview Park Boulevard	WB	510	22%
41	Ha San Wai Road	2-way	50	37%
5A - EB	Kam Pok Road East	EB	170	67%
5A - WB	Kam Pok Road East	WB	170	69%
5B - EB	Kam Pok Road East	EB	120	71%
5B - WB	Kam Pok Road East	WB	120	76%
5C	Kam Pok Road West	2-way	330	61%
5D	Kam Pok Road West	2-way	320	59%
6A	Yau Pok Road	2-way	30	50%
6B	Yau Pok Road	SB	20	25%
6C	Yau Pok Road	NB	0 ⁽³⁾	N/A
6D	Unnamed Road	2-way	120	61%
6E	Unnamed Road	2-way	60	56%
6F	Unnamed Road	2-way	170	64%
7A	Pok Wai South Road	SB	60	19%
7B - NB	Kam Pok Road	NB	110	50%
7B - SB	Kam Pok Road	SB	100	37%

Table 6.52040 Traffic Forecasts

Planning Application for Proposed Comprehensive Development Scheme to include Wetland Restoration Proposal and Proposed Filling of Ponds/Land and Excavation of Land in "OU(CDWRA)" Zone at Various Lots in D.D. 104, North of Kam Pok Road East, Pok Wai, Yuen Long, New Territories

CHK50709210



7C	Kam Pok Road	2-way	200	24%
7D	Kam Pok Road	2-way	210	20%
8A	Kam Pok Road	2-way	170	70%
8B	Pok Wai Road	2-way	20	22%
8C	Unnamed Road	2-way	100	43%
8D	Unnamed Road	2-way	30	37%
9A	Access Road to Application Site	2-way	20	13%
10A	Fairview Park Boulevard RB	1-way	2220	34%
10B	Fairview Park Boulevard RB	1-way	2260	33%
10C	Fairview Park Boulevard RB	1-way	1700	32%
10D	Fairview Park Boulevard RB	1-way	2400	33%
10E	Fairview Park Boulevard RB	1-way	2480	33%
10F	Fairview Park Boulevard RB	1-way	1980	35%
10G	Fairview Park Boulevard RB	1-way	890	39%
10H	Fairview Park Boulevard RB	1-way	1810	37%
101	Fairview Park Boulevard RB	1-way	1940	38%

Remark: (1) Location refer to **Drawing 6.1**.

(2) Round up to the nearest 10.

(3) Heavy Vehicle (HV) percentage includes light/medium/heavy goods vehicle/container truck, non-franchised bus, public light bus and franchised bus.

(4) The road section is emergency vehicle access road with emergency crash gate, thus no general traffic is forecasted

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14/03/2023



7. CONCLUSION

7.1 Summary

- 7.1.1 The proposed comprehensive development to include wetland restoration proposal is situated at various lots in D.D.104, North of Kam Pok Road East, Pok Wai, Yuen Long, New Territories.
- 7.1.2 The Application Site is currently zoned as "Other Specified Uses" annotated "Comprehensive Development to include Wetland Restoration Area" on the Approved Nam Sang Wai Outline Zoning Plan No.: S/YL-NSW/8 (the "OZP"). In addition, the southern part of Application Site falls within the boundary of Wetland Buffer Area in accordance with the Town Planning Board Guideline 12C "Application for Developments within Deep Bay Area under Section 16 of the Town Planning Ordinance" ("TPB PG-No. 12C").
- 7.1.3 The provision of the internal transport facilities in the proposed development at the Application Site is proposed in accordance with Hong Kong Planning Standards and Guidelines (HKPSG).
- 7.1.4 Two vehicular access points are proposed. Each serves one partial of development within the Application Site. The primary vehicular access of the Application Site is on Kam Pok Road East whilst the secondary one is proposed near the junction of Kam Pok Road East and Kam Pok Road at the southwest of the Application Site with 7.3m wide of single two-lane carriageway and 2m wide of footpath.
- 7.1.5 Traffic surveys were conducted to establish the current traffic condition in the vicinity of the Application Site. The results of the junction capacity assessments and road link assessments have revealed that all the identified local junctions and road links are currently operating with ample capacity.
- 7.1.6 The tentative operation year of proposed development is 2025. Thus, the design year of 2028 is being adopted for traffic forecast and assessment purposes.
- 7.1.7 Operational performances of the identified local junctions and identified road links were assessed based on the anticipated year 2028 traffic flows.
- 7.1.8 Operational assessment was carried out for each identified junction in year 2028. Fairview Park Boulevard Roundabout (J1) and the junction of Kam Pok Road East / Kam Pok Road (J3) would operate with capacity. The results of the assessment have indicated that only the junction of Kam Pok Road / Castle Peak Road – Tam Mi (J2) would operate at its capacity. To cater for the future traffic demand, cycle time of the signal junction is proposed to be increased. As such, the junction performance of J2 under the proposed improvement scheme will then operate with ample capacity.
- 7.1.9 Road link assessments were conducted in year 2028. All the identified road links are expected to operate with sufficient capacity (i.e. V/C ratio ≤0.85) in year 2028 under reference and design scenarios.
- 7.1.10 Year 2040 has been adopted as the design year for long term traffic forecast for the purpose of Traffic Noise Impact Assessment. Methodology and results of the traffic forecast are in Section 6.

	14/02/2022
Pok Wai, Yuen Long, New Territories	
Land in "OU(CDWRA)" Zone at Various Lots in D.D. 104, North of Kam Pok Road East,	CHR50703210
Wetland Restoration Proposal and Proposed Filling of Ponds/Land and Excavation of	CHK50709210
Planning Application for Proposed Comprehensive Development Scheme to include	



7.2 Conclusion

To conclude, the results of the traffic impact assessment have demonstrated that the traffic generated by the proposed development can be absorbed by the nearby road network and the traffic impact to be caused by the proposed development will be insignificant. Hence it can be concluded that the proposed comprehensive development scheme to include wetland restoration proposal is acceptable in traffic planning term.

Traffic Impact Assessment

CHK50709210

14/03/2023

DRAWINGS







Original Size : A4



CHK50709210/TIA/F32.DGN/HHY/13MAR23





















Appendix A Detail Calculation Sheet of Junction Assessment

Simplified Roundabout Capacity Calculation

Job Title:	Traffic Consul	tancy Services f	for Proposed Resi	dential Develo	opment at North	of Pok Wai We	est Road, Nam	Sang Wai, Yuen Lo	ng (Various L	ots in D.D. 104)
Junction:	Fairview	Park Rour	ndabout (J1	l)				Ref. No.:	J1_20220	Obs
Scheme:	2022 Obs	served Flo	WS					Ref. No.:		
Year:	2022			Job No.:		CHK507	09210	Rev.:	-	
AM	PM									
ARM A:	Fairview Par	rk Boulevard						Α		
ARM B:	Castle Peak	Road(Tam M	(i) (N)				G		в	
ARM C:	New Territo	ries Circular	Road (San Tin	Highway) (N)				/	
ARM D:	San Tam Ro	ad (N)		0				$\mathbf{\gamma}$		
ARM E:	San Tam Ro	ad (S)					F ——	_/ }	c	
ARM F:	New Territo	ries Circular	Road (San Tin	Highwav) (S)					
ARM G:	Castle Peak	Road(Tam M	fi) (S)	0 57				\sim		
		× ×	, ()				E		D	
GEOMETH	RY									
ARM	l v	e	L	r	D	Phi	S			
А	7.00	11.00	14	22	142	35	0.46	_		
В	5.50	9.00	10	20	142	35	0.56			
C	6.40	8.50	7.5	23	142	30	0.45			
D	6.50	8.50	10	20	142	25	0.32			
F	6.00	8.00	9.5	20	142	35	0.34			
F	6.00	8.50	6.5	25	142	40	0.62			
G	5.00	6.00	7	22	142	30	0.02			
AM FLOW	/ 0.00 /S	0.00			112	00	0.20			
from \ to	Ι Δ	в	C	D	F	F	G	Circ	Fntry	
A	55	5	210	35	140	385	15	1415	845	-
B	15	30	65	5	135	295	5	1825	550	
C	155	60	10	110	235	20	130	1800	720	
D	35	10	40	55	160	195	10	2065	505	
F	45	60	120	45	5	35	5	1715	315	
F	305	170	20	165	120	35	140	920	955	
G	30	100	110	40	60	145	15	1555	500	
PM FLOW	S S	100	110	10	00	145	15	1 1000	000	
from t_0		в	C	Л	F	F	G	Circ	Entry	
Δ	50	20	135	35	135	230	20	1160	625	-
B	20	30	55	20	145	125	15	1425	410	
C	190	50	20	110	285	5	110	125	770	
	25	25	20 45	60	120	185	10	1650	470	
F	60	40	165	45	10	40	5	1335	365	
F	430	125	20	85	75	15	145	1005	805	
G	35	70	110	50	15	95	10	1585	385	
	TIONS	10	110	50	15))	10	$O_{\rm r}$	REC	
ARM	K K	X ₂	М	F	fp	f.	AM	PM	AM	РМ
A	0.99	9.09	3640.95	2754	1.00	0.59	1892	2041	0.45	0.31
B	0.98	7.15	3640.95	2167	1.00	0.51	1214	1414	0.45	0.29
C	1.01	7 51	3640.95	2275	1.00	0.53	1338	1610	0.54	0.48
	1.01	7.51	3640.95	2275	1.00	0.55	1257	1483	0.24	0.40
F	0.02	7.10	3640.95	2180	1.00	0.55	1257	1470	0.40	0.52
F	0.00	7 10	36/0.05	2159	1.00	0.51	16/7	1605	0.20	0.20
G	1 00	5 60	3640.05	1700	1.00	0.01	1047	1016	0.00	0.00
	1 1.00	0.09	5040.95	1123	1.00	0.40	1029	Critical Arms	0.49 F	U.30
								DEC.	г 0 <i>5</i> 0	г 0 <i>54</i>
In accorda	nco with TDF	M V2 A						KFU:	U.30 A NA	U.30 DM
- in accorda		MST		Data	Ian_22		Checked 1	NV.		r ivi
	,y.	14101		Date.	Jan-23		Checked t	·y.		

O:\tbz\[507092-Sigcal-J1.xlsm]J1_2022Obs

κ
TRAFFIC SIGNALS CALCULATION

Job No.: <u>CHK504173</u>10

MVA HONG KONG LIMITED

Junction:	Castle	Peak Ro	oad - Tai	m Mi / Kan	n Pok Ro	ad East	(J2)	_							Design Yea	r: <u>2022</u>	
Description:	2022 0	bserved	Flows					-			Designed	By: MST			Checked By	: <u>MYL</u>	
	ents				Radii	us (m)	t (%)	Pro. Tu	rning (%)	Revised S Flow (Saturation pcu/hr)		AM Peak			PM Peak	
Approach	Moveme	Phase	Stage	Width (m)	Left	Right	Gradien	АМ	РМ	АМ	РМ	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y
Castle Peak Rd NB	4	А	1	3.500	20		•	17%	14%	1940	1945	330	0.170	0.170	295	0.152	0.152
Castle Peak Rd SB	* ≁ * ↑	B B	2 2	3.300 3.400		15				1515 1565	1515 1565	195 125	0.129 0.080	0.129	175 140	0.116 0.089	0.116
Kam Pok Rd East EB	ب ا ا	C C	3 3	3.500 3.500	27.5	12.5				1865 1880	1865 1880	225 25	0.121 0.013	0.121	130 55	0.070 0.029	0.070
Pedestrian Crossi	ng	Dp	4	MIN GRE	EN + FL	ASH =	13	+	12	=	25			*			*
Notes:				Flow: (pr	cu/hr)						•		1	1			
* Site factor has b	een adoj	oted			,						+ "	Group		A,B,C,Dp	Group		A,B,C,Dp
							195(175)	125(140)				y L (sec)		40	y L (sec)		40
					225(130)							C (sec)		94	C (sec)		90
					V		55(40)	275(255)				v pract.		0.517	v pract.		0.500
					25(55)							R.C. (%)		23%	R.C. (%)		48%
Stage / Phase Dia	agrams			L									I	L			l
1.				2.		B		3.				4.			5.		
													x.				
•	1											00 ↓	,				
	A																
I/G= 2			I/G= 6	5				I/G= 5			I/G=	5	25	I/G=			
I/G= 2			I/G= 6	5				I/G= 5			I/G= Date	5 :	25	I/G=	ion:		(J2)
												JAN, 2023		Castle Pea	ak Road - Tam Mi/	Kam Pok Road E	ast (J2)

Simplified Priority Junction Capacity Calculation



O:\tbz\[507092-Sigcal-J3.xlsm]J3_2022OBS

Simplified Roundabout Capacity Calculation

Job Title:	Traffic Consul	tancy Services f	for Proposed Resi	dential Develo	opment at North	of Pok Wai We	est Road, Nam	Sang Wai, Yuen Lo	ng (Various L	ots in D.D. 104)
Junction:	Fairview	Park Rour	ndabout (J1	l)				Ref. No.:	J1_2028R	lef
Scheme:	2028 Ref	erence Fl	ow					Ref. No.:		
Year:	2022			Job No.:		CHK507	'09210	Rev.:		
AM	PM									
ARM A:	Fairview Par	rk Boulevard						Α		
ARM B:	Castle Peak	Road(Tam M	(I) (N)				G		в	
ARM C:	New Territo	ries Circular	Road (San Tin	Highway) ((N)				/	
ARM D:	San Tam Ro	ad (N)	× ×					\mathbf{Y}		
ARM E:	San Tam Ro	ad (S)					F	_/ }	с	
ARM F:	New Territo	ries Circular	Road (San Tin	Highway) ((S)					
ARM G:	Castle Peak	Road(Tam M	fi) (S)	0 1						
		,	, , ,				E		D	
GEOMETE	RY									
ARM	v	e	L	r	D	Phi	S			
А	7.00	11.00	14	22	142	35	0.46	_		
В	5.50	9.00	10	20	142	35	0.56			
С	6.40	8.50	7.5	23	142	30	0.45			
D	6.50	8.50	10	20	142	25	0.32			
E	6.00	8.00	9.5	20	142	35	0.34			
F	6.00	8.50	6.5	25	142	40	0.62			
G	5.00	6.00	7	22	142	30	0.23			
AM FLOW	'S									
from \ to	А	В	С	D	Е	F	G	Circ	Entry	
А	55	5	235	35	145	440	15	1675	930	-
В	15	30	75	5	140	385	5	2055	655	
С	160	80	10	115	260	20	220	2010	865	
D	35	10	40	55	165	260	10	2370	575	
Е	45	60	125	45	5	35	5	2045	320	
F	315	260	20	210	125	35	145	1040	1110	
G	30	105	195	40	60	150	15	1735	595	
PM FLOW	S							I		
from \ to	А	В	С	D	Е	F	G	Circ	Entry	
А	50	20	150	35	140	265	20	1475	680	-
В	20	30	60	20	150	190	15	1640	485	
С	195	75	20	115	310	5	225	1450	945	
D	25	25	45	60	125	230	10	1935	520	
Е	60	40	170	45	10	40	5	1630	370	
F	445	255	20	135	75	15	150	1155	1095	
G	35	70	210	50	15	100	10	1815	490	
CALCULA	TIONS							Q _E	RFC	
ARM	K	X_2	М	F	t _D	f_c	AM	PM	AM	PM
А	0.99	9.09	3640.95	2754	1.00	0.59	1740	1857	0.53	0.37
В	0.98	7.15	3640.95	2167	1.00	0.51	1098	1307	0.60	0.37
С	1.01	7.51	3640.95	2275	1.00	0.53	1227	1523	0.71	0.62
D	1.02	7.72	3640.95	2339	1.00	0.53	1091	1328	0.53	0.39
Е	0.98	7.19	3640.95	2180	1.00	0.51	1113	1322	0.29	0.28
F	0.98	7.12	3640.95	2158	1.00	0.51	1587	1530	0.70	0.72
G	1.00	5.69	3640.95	1723	1.00	0.45	948	912	0.63	0.54
	I						1	Crtical Arm:	С	F
								RFC:	0.71	0.72
- In accorda	nce with TPL	DM V2.4						-	AM	PM
Calculated b	y:	MST		Date:	Jan-23		Checked b	by:	MYL	
	-							11503000 01		

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TRAFFIC SIGNALS CALCULATION	

Job No.: <u>CHK504173</u>10

MVA HONG KONG LIMITED

Description: 2028.Reference Elow Radius (m) End Pro. Turning (%) Revised Saturation Flow (pcu/hr) AM Peak PM Pe Approach 9	YL ak
Approach g g Radius (m) g g Pro. Turning (%) Revised Saturation Flow (pcu/hr) AM Peak PM Pe Approach g	ak
Approach Sea Ref Width (m) Eg Eg Sea AM PM AM PM Flow, (pcu/hr) y value Critical y Flow, (pcu/hr) y value Castle Peak Rd NB I 3.500 20 13% 10% 1945 1950 420 0.216 0.216 395 0.200 Castle Peak Rd SB II B 2 3.300 15 1515 1515 200 0.132 0.137 225 0.161 Kam Pok Rd East I C 3 3.500 27.5 1865 1865 230 0.123 0.123 135 0.071 EB I C 3 3.500 27.5 1865 1865 230 0.123 0.123 0.123 0.123 0.123 0.123 0.073 0.073 0.55 0.024 Kam Pok Rd East I C 3 3.500 27.5 1880 1880 1880 189 0.133 0.123	
Castle Peak Rd NB +1 A 1 3.500 20 13% 10% 1945 1950 420 0.216 0.216 395 0.20 Castle Peak Rd SB +1 B 2 3.300 15 1515 1515 200 0.132 180 0.111 Castle Peak Rd SB +1 B 2 3.400 155 1515 1515 200 0.132 180 0.111 Kam Pok Rd East EB 1 C 3 3.500 27.5 1865 1865 230 0.123 0.123 0.123 0.123 0.072 EB 1 C 3 3.500 12.5 1880 1880 25 0.013 55 0.024	e Critical y
Castle Peak Rd *1 B 2 3.300 15 1515 1515 1515 215 0.132 180 0.111 SB *1 B 2 3.400 15 1565 1565 1565 215 0.137 0.137 255 0.163 Kam Pok Rd East *1 C 3 3.500 27.5 1865 1865 230 0.123 0.123 135 0.072 EB 1* C 3 3.500 12.5 1880 1880 1880 25 0.013 123 0.123 55 0.025 H C 3 3.500 12.5 1880 1880 1880 180 155 0.13 0.123 0.123 0.123 0.123 0.123 0.123 0.123 0.123 0.123 0.141	3 0.203
Kam Pok Rd East 1 C 3 3.500 27.5 1865 1865 230 0.123 0.123 135 0.07 EB I* C 3 3.500 12.5 1880 1880 25 0.013 0.123 0.123 0.123 0.123 0.123 0.123 0.07 EB I* C 3 3.500 12.5 1880 1880 1880 180 100 55 0.024 I	9 3 0.163
	2 0.072 Э
Pedestrian Crossing Dp 4 MIN GREEN + FLASH = 13 + 12 = 25 *	*
Notes: Flow: (pcu/hr) A.B.C.Dp Group	A,B,C,Dp
200(180) y 0.477 y	0.438
230(135) 230(135)	40
365(355) 55(40) ★ ★ C (sec) 94 C (sec)	90
25(55) y pract. 0.517 y pract.	0.500
R.C. (%) 8% R.C. (%)	14%
Stage / Phase Diagrams 1. 2. 3. 4. 5.	
В	
I/G=2 I/G=6 I/G=5 I/G=5 I/G=0 I/G=5 I/G=5 I/G=5	
I/G= b I/G= 5 I/G= 5 I/G= 6 Date: Junction: Junction:	

Simplified Priority Junction Capacity Calculation



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Simplified Roundabout Capacity Calculation

Job Title:	Traffic Consul	tancy Services f	for Proposed Resi	idential Develo	opment at North	of Pok Wai We	est Road, Nam	Sang Wai, Yuen Lo	ong (Various L	ots in D.D. 104)
Junction:	Fairview	Park Rour	ndabout (J1	1)				Ref. No.:	J1_2028I	Des
Scheme:	2028 Des	sign Flow						Ref. No.:		
Year:	2022			Job No.:		CHK507	09210	Rev.:	-	
AM	PM									
ARM A:	Fairview Par	rk Boulevard						Α		
ARM B:	Castle Peak	Road(Tam M	(i) (N)				G	I	в	
ARM C:	New Territo	ries Circular	Road (San Tin	Highway) (N)				/	
ARM D:	San Tam Ro	ad (N)	,	0	· ·			\rightarrow		
ARM E:	San Tam Ro	ad (S)					F	_/ }	c	:
ARM F:	New Territo	ries Circular	Road (San Tin	Highway) (S)					
ARM G:	Castle Peak	Road(Tam M	fi) (S)					\sim		
		[×]	, , ,				E		D	
GEOMETE	RY									
ARM	v	e	L	r	D	Phi	S			
А	7.00	11.00	14	22	142	35	0.46	_		
В	5.50	9.00	10	20	142	35	0.56			
С	6.40	8.50	7.5	23	142	30	0.45			
D	6.50	8.50	10	20	142	25	0.32			
E	6.00	8.00	9.5	20	142	35	0.34			
F	6.00	8.50	6.5	25	142	40	0.62			
G	5.00	6.00	7	22	142	30	0.23			
AM FLOW	'S									
from \ to	А	В	С	D	Е	F	G	Circ	Entry	
А	55	5	235	35	145	440	15	1710	930	-
В	15	30	75	5	140	385	5	2090	655	
С	160	80	10	115	260	20	230	2035	875	
D	35	10	40	55	165	260	10	2405	575	
Е	45	60	125	45	5	35	5	2080	320	
F	315	260	20	210	125	35	160	1050	1125	
G	30	105	205	40	60	175	15	1735	630	
PM FLOW	S							I		
from \ to	А	В	С	D	Е	F	G	Circ	Entry	
А	50	20	150	35	140	265	20	1500	680	-
В	20	30	60	20	150	190	15	1665	485	
С	195	75	20	115	310	5	235	1465	955	
D	25	25	45	60	125	230	10	1960	520	
Е	60	40	170	45	10	40	5	1655	370	
F	445	255	20	135	75	15	175	1165	1120	
G	35	70	220	50	15	115	10	1815	515	
CALCULA	TIONS							Q _E	RFC	
ARM	K	X_2	М	F	t _D	f_c	AM	PM	AM	PM
А	0.99	9.09	3640.95	2754	1.00	0.59	1720	1842	0.54	0.37
В	0.98	7.15	3640.95	2167	1.00	0.51	1081	1294	0.61	0.37
С	1.01	7.51	3640.95	2275	1.00	0.53	1213	1515	0.72	0.63
D	1.02	7.72	3640.95	2339	1.00	0.53	1072	1314	0.54	0.40
Е	0.98	7.19	3640.95	2180	1.00	0.51	1095	1309	0.29	0.28
F	0.98	7.12	3640.95	2158	1.00	0.51	1583	1525	0.71	0.73
G	1.00	5.69	3640.95	1723	1.00	0.45	948	912	0.66	0.56
	I						1	Crtical Arm:	С	F
								RFC:	0.72	0.73
- In accorda	nce with TPL	DM V2.4							AM	РМ
Calculated b	y:	MST		Date:	Jan-23		Checked b	by:	MYL	
	-							11503000 01		

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Job No.: <u>CHK504173</u>10

MVA HONG KONG LIMITED

Junction:	Castle I	Peak Ro	oad - Tai	m Mi / Kan	1 Pok Ro	ad East (J2)	-							Design Yea	r: <u>2022</u>	
Description:	2028 De	esign Ele	ow								Designed	By: <u>MST</u>			Checked By	: <u>MYL</u>	
	ents				Radii	us (m)	ıt (%)	Pro. Tu	rning (%)	Revised S Flow (Saturation pcu/hr)		AM Peak			PM Peak	
Approach	Moveme	Phase	Stage	Width (m)	Left	Right	Gradien	АМ	РМ	АМ	РМ	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y
Castle Peak Rd NB	• †	A	1	3.500	20	I	I	14%	10%	1945	1950	425	0.219	0.219	395	0.203	0.203
Castle Peak Rd SB	* ≁ * ↑	B B	2 2	3.300 3.400		15				1515 1565	1515 1565	225 215	0.149 0.137	0.149	215 255	0.142 0.163	0.163
Kam Pok Rd East EB Pedestrian Crossir	*₁ ſ*	C C Dp	3 3 4	3.500 3.500	27.5 EN + FL	12.5 ASH =	13	÷	12	1865 1880	1865 1880 25	265 25	0.142	0.142 *	160 55	0.086	0.086
Notes: * Site factor has be	een adop	oted		Flow: (pd	cu/hr)		225(215)	215(255)			≜ ^N	Group		A,B,C,Dp 0.509	Group		A,B,C,Dp 0.451
					265(160)			210(200)				L (sec)		40 94	L (sec)		40 90
					25(55)		60(40)	365(355)				y pract.		0.517	y pract.		0.500
					23(33)							R.C. (%)		2%	R.C. (%)		11%
Stage / Phase Dia	igrams			2				2				4			5		
1.	A			2.		B		c.				4. Dp			5.		
I/G= 2			I/G= 6	5 5				I/G= 5			I/G=	5	25 25	I/G=			
			1.01	- 1				1.00			Date	: JAN, 2023		Junct Castle Pe	ion: ak Road - Tam Mi/	Kam Pok Road E	J2 ast (J2)

Simplified Priority Junction Capacity Calculation



Appendix B Swept Path Analysis of Long Vehicle

TS KAM POK ROAD EAST KAM POK ROAD EAST KAM POK ROAD EAST Cycling Track + 3.3											
	- Chookod	-	- Pov	- Description				<u>,</u>		-	-
Project Title			Drawin	ng Title		Uncoked Dat					
PLANNING APPLICATION FOR PROPOSED COM DEVELOPMENT SCHEME TO INCLUDE WI RESTORATION PROPOSAL AND PROPOSED OF PONDS/LAND AND EXCAVATION OF L "OU(CDWRA)" ZONE AT VARIOUS LOTS IN NORTH OF KAM POK ROAD EAST, POP	IPREHE ETLANE D FILLII _AND II D.D. 1 K WAI,	INSIVE) NG N 04,	Design					LES ON G/F	Pov	Ϛϒͻτ	
YUEN LONG, NEW TERRITORIES	,		Design	MST MYL	1:500(A4)	FEB 2023	Drawing No.	B1	Lev.		

TS KAM POK ROAD EAST KAM POK ROAD EAST KAM POK ROAD EAST CYCLING Trock									
mpany Limited + 3.3			H 単車徑		Cyt Dism Store	9R W ALA CW	.8		
								-	<u> </u>
Rev. Description	Checked Date	Rev. Description			Checked Date	Rev. Description		Checked	Date
PLANNING APPLICATION FOR PROPOSED C DEVELOPMENT SCHEME TO INCLUDE RESTORATION PROPOSAL AND PROPOS OF PONDS/LAND AND EXCAVATION OF "OU(CDWRA)" ZONE AT VARIOUS LOTS NORTH OF KAM POK ROAD EAST, F	OMPREHENSIVE WETLAND ED FILLING LAND IN IN D.D. 104, OK WAI,	SWE			OF 11m LO		S ON G/F	ϛϒͻϲϼ	A_0-
YUEN LONG, NEW TERRITORIE	ES	MST	MYL	1:500(A4)	FEB 2023	B	2 -		
CHK50709210/TIA/C2.DGN/HHY/13MAR23									

Sm KAM POK ROAD EAST 4.0 + 5.0 + 5	錦輿路							Nº I	1 <u>98</u>	
mpany Limited + 3.3					4.3 Cyt Dism	SJ 19R GW	4.8	5.0		
Pay Description	Checked Data	Rev Decoription			Checkod Data	Rev Decorintion			Check	ad Data
Project Title PLANNING APPLICATION FOR PROPOSED CC DEVELOPMENT SCHEME TO INCLUDE V RESTORATION PROPOSAL AND PROPOSE OF PONDS/LAND AND EXCAVATION OF "OU(CDWRA)" ZONE AT VARIOUS LOTS IN NORTH OF KAM POK ROAD EAST, PO YUEN LONG, NEW TERRITORIES	DMPREHENSIVE WETLAND ED FILLING LAND IN N D.D. 104, OK WAI, S	Drawing Title SWE	PT PATH	ANALYSIS ^{Scale} 1:500(A4)	OF 11m L(DNG VEHI	CLES ON G/I B3	Rev.	SYST	

TS KAM POK ROAD EAST KAM POK ROAD EAST KAM POK ROAD EAST A.O.+ TS Cycling Track										
+ 3.3					Cyt Dism 81C	19R V W SFFW	4.8			
									-	-
Rev. Description	Checked Date	Rev. Description			Checked Date	Rev. Description			Checked	Date
Project Title PLANNING APPLICATION FOR PROPOSED CO DEVELOPMENT SCHEME TO INCLUDE RESTORATION PROPOSAL AND PROPOSE OF PONDS/LAND AND EXCAVATION OF "OU(CDWRA)" ZONE AT VARIOUS LOTS I NORTH OF KAM POK ROAD EAST, P	DMPREHENSIVE WETLAND ED FILLING LAND IN N D.D. 104, DK WAI,	Drawing Title SWE			OF 11m LC		ES ON G/F	SYS		\
YUEN LONG, NEW TERRITORIE CHK50709210/TIA/C4.DGN/HHY/13MAR23	5	- MST	MYL	1:500(A4)	FEB 2023	-	54	-		

TS KAM POK ROAD EAST KAM POK ROAD EAST KAM POK ROAD EAST Cyching Track										
mpany Limited + 3.3		 Rey Description			4.3 Cyt Dism	19R GW Bay Description	4.8	5.0	Checke	d Date
Project Title PLANNING APPLICATION FOR PROPOSED CO		Drawing Title				Nev. Description			Checke	
DEVELOPMENT SCHEME TO INCLUDE RESTORATION PROPOSAL AND PROPOSI OF PONDS/LAND AND EXCAVATION OF "OU(CDWRA)" ZONE AT VARIOUS LOTS I NORTH OF KAM POK ROAD EAST, P	WETLAND ED FILLING LAND IN N D.D. 104, OK WAI,	SWE		Scale 1 FOR(A C)		NG VEHIC	LES ON G/I	Rev.	ϚϒͻϹͷ	A
YUEN LONG, NEW TERRITORIE	5	MST	MYL	1:500(A4)	FEB 2023		R0	-		







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	oject Title PLANNING APPLICATION FOR PROPOSED	Drawing Title
	RESTORATION PROPOSAL AND PROPOSED FILLING OF PONDS/LAND AND EXCAVATION OF LAND IN	SWEPT PATH ANALYSIS OF PRIVA
	"OU(CDWRA)" ZONE AT VARIOUS LOTS IN D.D. 104, NORTH OF KAM POK ROAD EAST. POK WAI.	
Rev. Description Checked Date	YUEN LONG, NEW TERRITORIES	Designed MST Checked MLY Scale 1:500(A3) Date FEB 2023



		Rev Description	
Project Title PLANNING APPLICATION FOR PROPOSED CC DEVELOPMENT SCHEME TO INCLUDE V RESTORATION PROPOSAL AND PROPOSE OF PONDS/LAND AND EXCAVATION OF "OU(CDWRA)" ZONE AT VARIOUS LOTS II NORTH OF KAM POK ROAD EAST, PO YUEN LONG, NEW TERRITORIES	DMPREHENSIVE WETLAND ED FILLING LAND IN N D.D. 104, OK WAI, S	Drawing Title SWEPT PATH ANALYSIS OF REFUSE COLLECTION VEHICLES ON B/F Designed MST Checked MYL Scale 1:500(A4) Date FEB 2023 Drawing No. B13 Rev	SYSTIA-

TS KAM POK ROAD EAST KAM POK ROAD EAST														
	-	-	-	-			-	-					-	-
Rev. Description Project Title	Checked	Date	Rev. Drawir	Description			Checked	Date R	ev. Description	1			ecked	Date
PLANNING APPLICATION FOR PROPOSED CO DEVELOPMENT SCHEME TO INCLUDE V RESTORATION PROPOSAL AND PROPOSE OF PONDS/LAND AND EXCAVATION OF "OU(CDWRA)" ZONE AT VARIOUS LOTS II NORTH OF KAM POK ROAD EAST. PO	omprehe Wetland Ed filli Land I N d.d. 1 Ok Wai.	ENSIVE D NG N I04,			REFU	SWEPT P SE COLLE	ATH ANA CTION V	ALYSI 'EHIC	IS OF LES ON	I G/F		SYST		•
YUEN LONG, NEW TERRITORIE	S		Desigr	MST	MYL	1:500(A4)	FEB 20	23	y ino.	B16	Kev.			

