
Appendix I

Traffic Impact Assessment

Section 16 Planning Application for Proposed Temporary Open Storage of Modular Integrated Construction (MiC) Components and Construction Materials with Ancillary Workshops, Office, Staff Car Park and Machinery for a Period of 3 Years at Various Lots in D.D. 107, Sha Po, Yuen Long, New Territories

DEC 2023

Reference number CHK50769210

SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

TRAFFIC IMPACT ASSESSMENT



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1 INTRODUCTION

1.1 Background

1.1.1 This Section 16 Planning Application is submitted in support of the proposed temporary open storage of Modular Integrated Construction (MiC) Components and Construction Materials with Ancillary Workshops, Office, Staff Car Park and Machinery for a Period of 3 Years at various lots in D.D. 107, Sha Po, Yuen Long, New Territories.

1.1.2 The location of the Application Site is indicated in **Figure 1.1**, which has a total area of about 9,705m². The Proposed Temporary Use aims to serve as a transshipment depot for MiC components and a hub for modular construction materials being used for housing project sites, with the objective of meeting the growing demand for MiC applications while ensuring efficient logistics and seamless implementation of MiC in housing projects.

1.2 Study Objectives

1.2.1 In support of the Section 16 Planning Application, a Traffic Impact Assessment (TIA) study is prepared with following key objectives:

- To assess the existing traffic conditions in the vicinity of the Application Site;
- To estimate the likely traffic generated by the Application Site;
- To forecast the future traffic condition in the design year 2027;
- To assess the impacts of traffic generation by the Application Site on the surrounding road network and recommend any improvement measures if necessary.

1.3 Structure of the Report

1.3.1 Following this introductory chapter, there are five further chapters.

- **Chapter 2 – Existing Traffic Conditions**, which describes the existing transport context in the vicinity of the Application Site, including current road network, assessment of existing traffic conditions and availability of public transport services.
- **Chapter 3 – The Application Site**, which briefs the planning parameters of the Application Site, including the access arrangements and internal transport provisions.
- **Chapter 4 – Future Traffic Conditions**, which presents the traffic forecasting methodology and estimates the future traffic conditions in the vicinity.
- **Chapter 5 – Traffic Impact Assessment**, which estimates the traffic generation and assesses the traffic impacts of the proposed uses in the future design year. Recommendation of improvement measures will be included if necessary.
- **Chapter 6 – Summary and Conclusion**, which summarises the findings of the study and presents the conclusion regarding the potential traffic impact by the Proposed Temporary Use.

2 EXISTING TRAFFIC CONTEXT

2.1 Existing Road Network

2.1.1 The existing road network in the vicinity is shown in **Figure 2.1**, which comprises the following public roads:

- Castle Peak Road – Tam Mi Section;
- San Tam Road;
- Fung Kat Heung Road;
- Fung Mei Road;
- Shui Mei Road

2.1.2 Castle Peak Road – Tam Mi Section is a single 2-lane carriageway running in north-south direction. This rural road connects Au Tau Interchange in the south for further linkage to Kam Tin and Yuen Long Town Centre.

2.1.3 San Tam Road is a single 2-lane carriageway running in north-south direction. This rural road starts from the junction with Park Yoho in the south and provides access for the local developments to the east of San Tin Highway.

2.1.4 Fung Kat Heung Road is a single track access road running in east-west direction connecting San Tam Road in the west and Fung Kat Heung in the east.

2.1.5 Fung Mei Road is a single track access road running in north-south direction connecting Fung Kat Heung Road in the north and Shui Mei Road in the south.

2.1.6 Shui Mei Road is a single track access road running in east-west direction connecting Castle Peak Road – Tam Mi Section in the west and Shui Mei Tsuen in the east.

2.2 Critical Junctions and Road Links

2.2.1 The critical junctions were identified for assessment of traffic impact due to the Application Site. It is listed in **Table 2.1** below.

Table 2.1 Identified Critical Junctions and Road Links for Assessment

Ref.	Junction	Type	Figure No.
J1	San Tam Road / Fung Kat Heung Road	Priority	Figure 2.2
J2	Fung Kat Heung Road / Mei Fung Road	Priority	Figure 2.3
J3	Mei Fung Road / Shui Mei Road	Priority	Figure 2.4
J4	Shui Mei Road / Castle Peak Road – Tam Mi	Priority	Figure 2.5
J5	San Tam Road / Castle Peak Road – Tam Mi	Signalised	Figure 2.6

2.2.2 The location of the above junctions are illustrated in **Figure 2.1**. The existing junction layout are shown in **Drawings 2.2 – 2.6**.

2.2.3 In order to appraise the existing traffic conditions of the above junctions, a traffic survey in form of manual classified count was conducted at a typical weekday in November 2023. The background traffic flows are shown in **Drawing 2.7**.

2.2.4 Operational performance of the critical junctions have been assessed in accordance with the existing traffic flows and the results are summarised in **Table 2.2** below.

Table 2.2 Operational Performance of Critical Junctions in 2023

Index	Junction	Type	RC ⁽¹⁾ / DFC ⁽²⁾	Operational Performance	
				AM Peak	PM Peak
J1	San Tam Road / Fung Kat Heung Road	Priority	DFC	0.28	0.27
J2	Fung Kat Heung Road / Mei Fung Road	Priority	DFC	0.05	0.07
J3	Mei Fung Road / Shui Mei Road	Priority	DFC	0.04	0.05
J4	Shui Mei Road / Castle Peak Road – Tam Mi	Priority	DFC	0.22	0.18
J5	San Tam Road / Castle Peak Road – Tam Mi	Signalised	RC	48%	73%

Notes:

(1) RC = Reserve Capacity;

(2) DFC = Design Flow/Capacity

2.2.5 All critical junctions in the vicinity are currently operating within capacities. Details of junction assessment are enclosed in the **Appendix A**.

2.2.6 The performance of the single track access road in the vicinity of the Application Site have also been reviewed in terms of the Flow to Capacity (V/C) ratio. **Table 2.3** below shows that all of the road links are operating with ample capacity.

Table 2.3 Operational Performance of Critical Road Links in 2023

Index	Road Links	Type ⁽¹⁾	Design Flow (veh/hr)	2-way Flow (veh/hr) and V/C Ratio			
				AM Peak		PM Peak	
L1	Fung Kat Heung Road (near San Tam Road)	RR	800	156	0.20	178	0.22
L2	Fung Kat Heung Road (near Fung Mei Road)	ST	100	73	0.73	84	0.84
L3	Mei Fung Road (near Fung Kat Heung Road)	ST	100	46	0.46	56	0.56
L4	Mei Fung Road (near Shui Mei Road)	ST	100	52	0.52	62	0.62
L5	Shui Mei Road (near Fung Mei Road)	ST	100	76	0.76	76	0.76
L6	Shui Mei Road (near Castle Peak Road – Tam Mi)	ST	100	74	0.74	57	0.57

Notes:

(1) Road Type: ST = Single Track Access Road; RR = Rural Road (Single 2-lanes)

2.3 Public Transport Services

2.3.1 Public transport services are available at Castle Peak Road - Tam Mi and San Tam Road near Sha Po Tsuen to the west of the Application Site, whilst most bus and GMB routes are connecting to Yuen Long Town Centre.

2.3.2 There is also a public transport interchange within the comprehensive development of Park Yoho.

2.3.3 The existing public transport services in the vicinity of Application Site are indicated on **Figure 2.8** and summarised **Table 2.4** below.

Table 2.4 Existing Public Transport Services in the Vicinity

Bus Route	Destinations		Stop ⁽¹⁾
KMB 68	Park Yoho	Yoho Mall II	(C)
KMB 68F	Park Yoho	Yuen Long Park	(C)
KMB 268M	Park Yoho	Tsuen Wan West Station	(C)
KMB 76K	Sheung Shui (Ching Ho)	Long Ping Estate	(A) (B)
CTB 976	Lok Ma Chau (San Tin)	Sai Wan Ho	(A) (B)
CTB 976A	Lok Ma Chau (San Tin)	Siu Sai Wan	(A) (B)
GMB Route	Destinations		Stop ⁽¹⁾
GMB 36	Tai Shang Wai	Yuen Long (Fook Hong Street)	(A) (B)
GMB 37	Yau Tam Mei	Yuen Long (Fook Hong Street)	(A) (B)
GMB 38	Ha Chuk Yuen	Yuen Long (Fook Hong Street)	(A) (B)
GMB 75	Ha Wan Tsuen	Yuen Long (Fook Hong Street)	(A) (B)
GMB 76	Siu Hum Tsuen	Yuen Long (Fook Hong Street)	(A) (B)
GMB 78	Lok Ma Chau (San Tin)	Pat Heung Road	(A) (B)
GMB 603	Fung Kat Heung	Yuen Long (Fung Cheung Road)	(A) (B)
GMB 620	Park Yoho	Kam Sheung Road Station	(C)

Notes:

- (1) Stop (A): Sha Po Tsuen (Castle Peak Road – Tam Mi) northbound
 Stop (B): Sha Po Tsuen (San Tam Road) southbound
 Stop (C): Park Yoho (Public Transport Interchange)

3 PROPOSED DEVELOPMENT

3.1 Proposed Uses and Site Configurations

- 3.1.1 The Application Site is proposed for “Temporary Open Storage of Modular Integrated Construction (MiC) Components with Ancillary Workshops, Office, Staff Car Park and Machinery for a Period of 3 Years”.
- 3.1.2 It aims to serve as a transshipment depot for MiC components, with the objective of meeting the growing demand for MiC applications while ensuring efficient logistics and seamless implementation of MiC in housing projects. It will also serve as the hub for the modular construction material being used for the project site in order to promote more Green Construction Methodology.
- 3.1.3 The Application Site comprises an open storage area, providing a secure location for the temporary storage of MiC components and modular construction material, along with ancillary facilities, including three workshops, an office, a staff car park, a guardhouse and machinery (i.e. tower crane and hoisting crane etc) to support its operational needs. The Indicative Layout Plan is shown in **Figure 3.1**.

3.2 Vehicular Access Arrangements

- 3.2.1 An ingress/egress will be established at the south-west corner abutting Shui Mei Road with about 8m in width. It is also proposed a setback of 4m from Shui Mei Road to facilitate the delivery of MiC components and modular construction materials by articulated trailers up to 15m in length, of which the corresponding swept path analysis is shown in **Appendix B**.
- 3.2.2 The operation hours of the proposed uses will be restricted to from 08:00 to 19:00 (Monday to Saturday, excluding Sunday and Public Holidays). Advanced reservation will be mandatory for all loading and unloading activities in order to arrange the delivery and collection activities in a more organised manner.
- 3.2.3 To minimize the potential implications to Shui Mei Road with close proximity to residential developments of Park Yoho, the ingress and egress routes of articulated trailers will adopt an alternative route to San Tam Road via Mei Fung Road and Fung Kat Heung Road as shown in **Figure 3.2**, which is currently used by heavy vehicles for temporary open storage and industrial uses en-route.
- 3.2.4 The proposed ancillary office is a two-story structure designed to accommodate about 50 staff members. The office is intended to provide administrative/supporting services to facilitate the seamless transshipment of MiC components.
- 3.2.5 Ten private car parking spaces are proposed to serve the staff, which is consistent with the number of parking spaces in the previously approved application (No. A/YL-KTN/715). The application site will not open to the public or any unauthorised persons at any time. Only senior-level staffs are allowed to commute to and from work using private vehicles, whereas other staff members will access the application site via public transportation.

4 FUTURE TRAFFIC CONDITIONS

4.1 Design Year

4.1.1 This application is tentatively for a period of 3 years which starts from 2024 and ends in 2027. For conservative purpose, Year 2027 is hence adopted to be the design year.

4.2 Reference Traffic Forecasts

Historical Growth Trend

4.2.1 The Annual Traffic Census (ATC) published by the Transport Department provides a comprehensive record of traffic flows in the territory. The records from the ATC stations in the vicinity of the Application Site for 2016-2022 were summarized in **Table 4.1**.

Table 4.1 ATC Counting Station Records in the Local Area

ATC Station No.	Road Name	Average Annual Daily Traffic (A.A.D.T)							Growth Rate (p.a.)
		2016	2017	2018	2019	2020	2021	2022	2022/2016
5505	San Tam Road	12,590	12,390	12,700	13,330	13,420	13,960	13,540	+1.2%

4.2.2 As indicated in **Table 4.1**, it can be noted that over the last 6 years, the average growth pattern in the area from 2016 to 2022 has a increase rate of +1.2% per annum.

Population Projection Data

4.2.3 With reference to the Population Distribution Projections published by Planning Department dated March 2021, the population projection of Tuen Mun/Yuen Long Other Area for year 2021 to 2027 are extracted as shown in **Table 4.2**.

Table 4.2 Population Projection of Tuen Mun/ Yuen Long Other Area from 2021-2027

Population ⁽¹⁾	Year 2021	Year 2027
Tuen Mun/Yuen Long Other Area	204,900	230,800
Average Growth (p.a.)	+2.0% (2021-2027)	

Notes:

(1) Projections of Population Distribution published by Planning Department dated March 2021

4.2.4 As indicated in **Table 4.2**, the average growth between 2021 and 2027 can be represented by a growth of +2.0% per annum.

Adopted Growth Rate

4.2.5 Taking account of the historical traffic pattern and the future population projection, a conservative estimation of **+2.0% per annum** is adopted for the traffic projection from 2023 to 2027.

4.2.6 The anticipated 2027 reference traffic flows, as presented in **Figure 4.1** can be derived by the equation below:

$$\begin{aligned}
 \text{2027 Reference Flows} &= \text{2023 Observed Flows} \times \text{Growth Factor of 2.0\% p.a. for 4 years} \\
 &= \text{2023 Observed Flows} \times (1 + 2.0\%)^4
 \end{aligned}$$

4.3 Design Traffic Forecasts

4.3.1 At present, the trip generation rates for Open Storage are not covered by the Transport Planning and Design Manual (TPDM).

4.3.2 Based on the operation of the proposed temporary uses, the vehicular traffic generation and attraction for the Application Site are estimated to be 2 vehicles per hour (each direction) at maximum, assuming a minimum duration of 30 minutes for each vehicle.

4.3.3 Nevertheless, it is also assumed an attraction of 10 private cars (inbound) during the AM peak and a generation of 10 private cars (outbound) during the PM peak for the proposed parking spaces within the Application Site. The estimated trip generation and attraction are summarised in **Table 4.3**.

Table 4.3 Estimated Trip Generation for the Proposed Development

The Application Site	Estimated Number of Trips (veh/hr)			
	AM Peak		PM Peak	
	Generation	Attraction	Generation	Attraction
MiC Operation (15m Articulated Trailers)	2	2	2	2
Staff Parking (Private Cars)	-	10	10	-

4.3.4 By superimposing the above development traffic flows and the 2027 reference traffic forecast (without Proposed Development), the design traffic forecasts (with Proposed Development) in 2027 can be derived as below:

4.3.5 2027 Design Flows = 2027 Reference Flows + Estimated Trip Generation

4.3.6 The 2027 AM and PM peak design traffic forecasts (with Proposed Development) are presented in **Figure 4.2**.

5 TRAFFIC IMPACT ASSESSMENT

5.1 Junction and Road Link Assessment

5.1.1 The existing layouts will be adopted in design year 2027 for the operational assessments of the critical junctions were summarised in **Table 5.1**.

Table 5.1 Layout and Arrangement of Critical Junctions in 2027

Ref.	Junction	Type	Layout	Figure No.
J1	San Tam Road / Fung Kat Heung Road	Priority	Existing	Figure 2.2
J2	Fung Kat Heung Road / Mei Fung Road	Priority	Existing	Figure 2.3
J3	Mei Fung Road / Shui Mei Road	Priority	Existing	Figure 2.4
J4	Shui Mei Road / Castle Peak Road – Tam Mi	Priority	Existing	Figure 2.5
J5	San Tam Road / Castle Peak Road – Tam Mi	Signalised	Existing	Figure 2.6

5.1.2 To assess the traffic impact due to the Application Site, capacity analysis of the identified critical junctions in the study area for both reference and design scenarios in year 2027 has been carried out. The results are summarised and presented in **Table 5.2**.

Table 5.2 Operational Performance of Critical Junctions in 2027

Index	Junction	Type	RC ⁽¹⁾ / DFC ⁽²⁾	Operational Performance			
				Reference 2027 (Without Dev.)		Design 2027 (With Dev.)	
				AM Peak	PM Peak	AM Peak	PM Peak
J1	San Tam Road / Fung Kat Heung Road	Priority	DFC	0.33	0.31	0.34	0.32
J2	Fung Kat Heung Road / Mei Fung Road	Priority	DFC	0.05	0.07	0.06	0.08
J3	Mei Fung Road / Shui Mei Road	Priority	DFC	0.05	0.05	0.05	0.06
J4	Shui Mei Road / Castle Peak Road – Tam Mi	Priority	DFC	0.26	0.20	0.26	0.23
J5	San Tam Road / Castle Peak Road – Tam Mi	Signalised	RC	36%	60%	35%	59%

Notes:

(1) RC = Reserve Capacity;

(2) DFC = Design Flow/Capacity

5.1.3 It can be revealed that the all critical junctions in the vicinity will operate with ample capacity in Year 2027 with or without the proposed open storage.

5.1.4 Based on the design flow of corresponding road type, it can be shown in **Table 5.3** below that all of the local road links in the vicinity of will operate in good conditions in year 2027.

Table 5.3 Operational Performance of Critical Road Links in 2027

Index	Road Links	Type ⁽¹⁾	Design Flow (veh/hr)	2-way Flow (veh/hr) and V/C Ratio			
				Reference 2027 (Without Dev.)		Design 2027 (With Dev.)	
				AM Peak	PM Peak	AM Peak	PM Peak
L1	Fung Kat Heung Road (near San Tam Road)	RR	800	168	193	172	197
				0.21	0.24	0.22	0.25
L2	Fung Kat Heung Road (near Fung Mei Road)	ST	100	80	90	84	94
				0.80	0.90	0.84	0.94
L3	Fung Mei Road (near Fung Kat Heung Road)	ST	100	50	60	54	64
				0.50	0.60	0.54	0.64
L4	Fung Mei Road (near Shui Mei Road)	ST	100	56	66	60	70
				0.56	0.66	0.60	0.70
L5	Shui Mei Road (near Fung Mei Road)	ST	100	83	82	87	86
				0.83	0.82	0.87	0.86
L6	Shui Mei Road (near Castle Peak Road – Tam Mi)	ST	100	81	61	91	71
				0.81	0.61	0.91	0.71

Notes:

(1) Road Type: ST = Single Track Access Road; RR = Rural Road (Single 2-lanes)

5.1.5 Therefore, it can be concluded that the proposed temporary uses at the Application Site would not cause any adverse traffic impact to the surrounding road network from the traffic point-of-view.

6 SUMMARY AND CONCLUSION

6.1 Summary

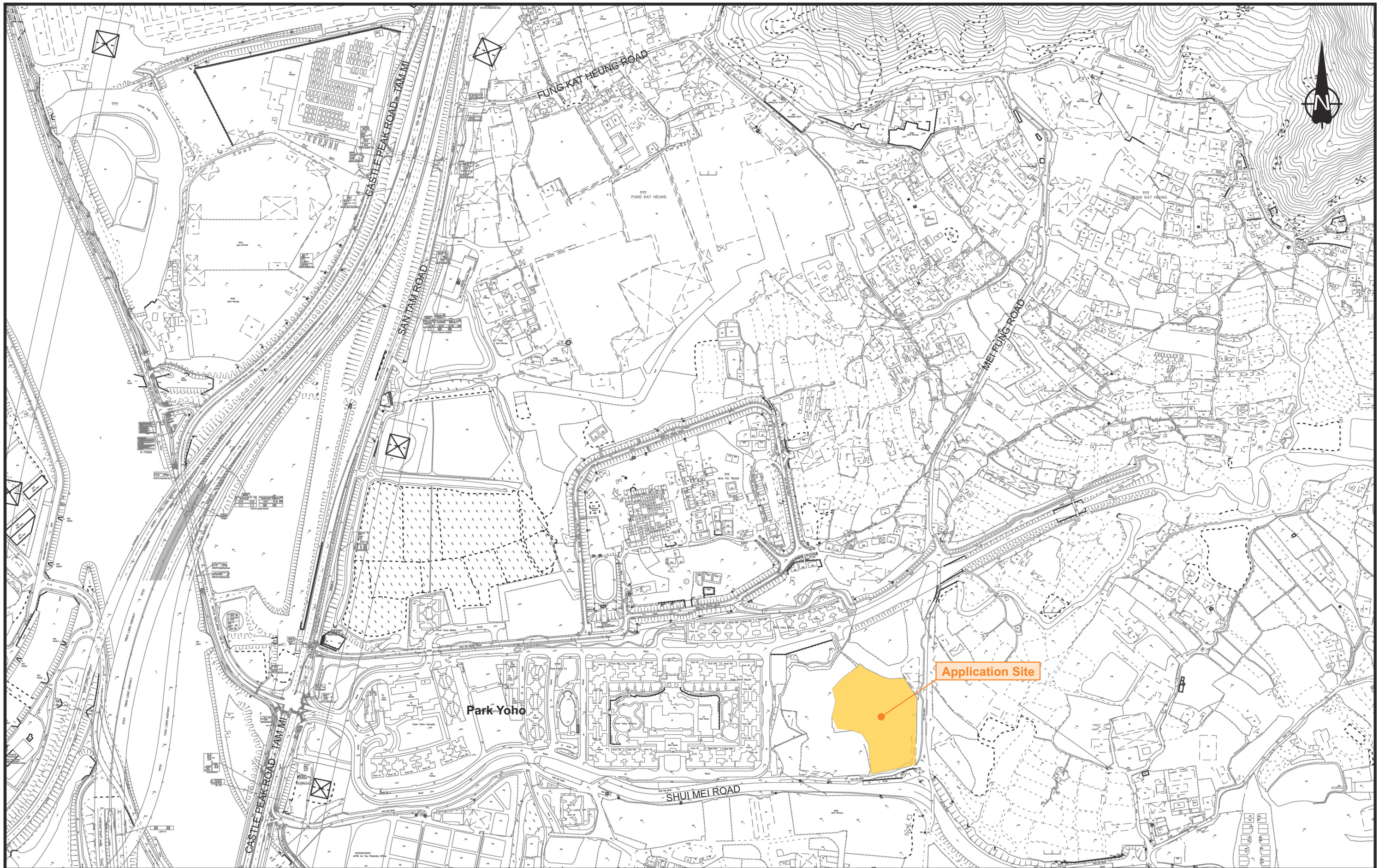
- 6.1.1 This Traffic Impact Assessment (TIA) Report is prepared in support of the Section 16 Planning Application for the proposed temporary open storage of Modular Integrated Construction (MiC) Components and Construction Materials with Ancillary Workshops, Office, Staff Car Park and Machinery for a Period of 3 Years at various lots in D.D. 107, Sha Po, Yuen Long, New Territories.
- 6.1.2 The Application Site has a total area of about 9,705m². The Proposed Temporary Use aims to serve as a transshipment depot for MiC components and a hub for modular construction materials being used for housing project sites, with the objective of meeting the growing demand for MiC applications while ensuring efficient logistics and seamless implementation of MiC in housing projects.
- 6.1.3 The Application Site comprises an open storage area, providing a secure location for the temporary storage of MiC components and modular construction material, along with ancillary facilities, including three workshops, an office, a staff car park, a guardhouse and machinery (i.e. tower crane and hoisting crane etc) to support its operational needs.
- 6.1.4 An ingress/egress will be established at the south-west corner abutting Shui Mei Road with about 8m in width. It is also proposed a setback of 4m from Shui Mei Road to facilitate the delivery of MiC components and modular construction materials by articulated trailers up to 15m in length.
- 6.1.5 The operation hours of the proposed uses will be restricted to from 08:00 to 19:00 (Monday to Saturday, excluding Sunday and Public Holidays).
- 6.1.6 To minimize the potential implications to Shui Mei Road with close proximity to residential developments of Park Yoho, the ingress and egress routes of articulated trailers will adopt an alternative route via Mei Fung Road and Fung Kat Heung Road, which is currently used by heavy vehicles for temporary open storage and industrial uses en-route.
- 6.1.7 The proposed ancillary office is a two-story structure designed to accommodate about 50 staff members for administrative/supporting services to facilitate the seamless transshipment of MiC components.
- 6.1.8 Ten private car parking spaces are proposed to serve the staff, which is consistent with the number of parking spaces in the previously approved application (No. A/YL-KTN/715). The application site will not open to the public or any unauthorised persons at any time. Only senior-level staffs are allowed to commute to and from work using private vehicles, whereas other staff members will access the application site via public transportation
- 6.1.9 Traffic count surveys were conducted in the surrounding road network of the Application Site. According to the junction and link capacity assessments, it is revealed that the critical junction and all road links at present are operating with ample capacities.

- 6.1.10 Year 2027 is adopted to be the design year, which is the end of the proposed used period of this application. The 2027 reference traffic forecasts have been projected from the observed year 2023 with a growth factor of +2.0% per annum.
- 6.1.11 Based on the operation of the proposed temporary uses, the vehicular traffic generation and attraction for the Application Site are estimated to be 2 vehicles per hour (each direction) at maximum, assuming a minimum duration of 30 minutes for each vehicle.
- 6.1.12 Nevertheless, it is also assumed an attraction of 10 private cars (inbound) during the AM peak and a generation of 10 private cars (outbound) during the PM peak for the proposed parking spaces within the Application Site.
- 6.1.13 The traffic assessments revealed that the critical junction and all road links in the vicinity will continue to operate with ample capacities upon the design year 2027.

6.2 Conclusion

- 6.2.1 The TIA has demonstrated that the traffic generation by the Application Site can all be absorbed by the external road network, including the junctions and road links.
- 6.2.2 To facilitate the delivery of MiC components and modular construction materials, the vehicular access arrangements have been optimized with relocated run-in/out and setback from Shui Mei Road. Alternative access routes have also been considered to minimize the potential implications to Shui Mei Road.
- 6.2.3 Therefore, it can be concluded that the Proposed Open Storage is considered acceptable in view of traffic engineering.

FIGURES

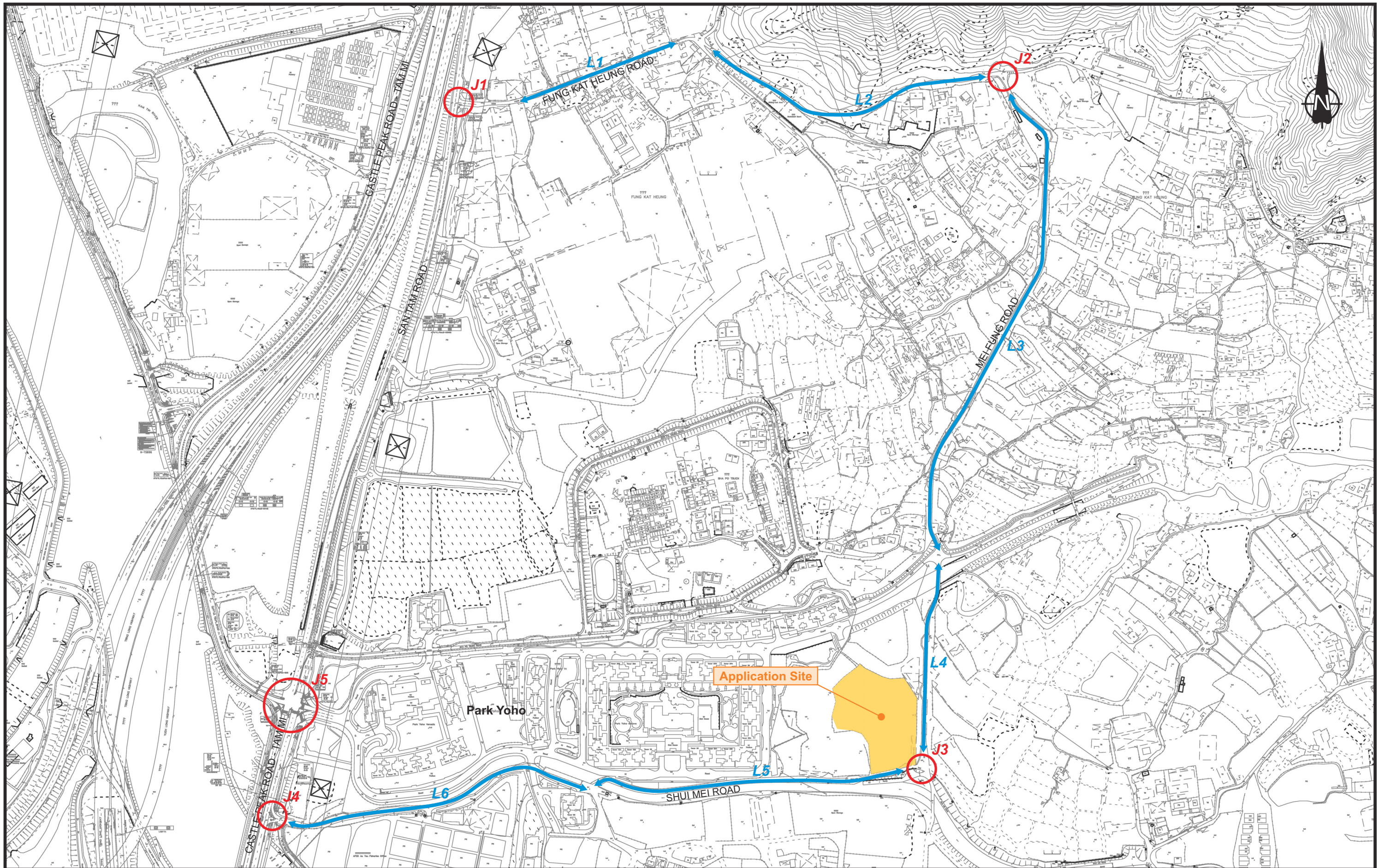


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Project Title
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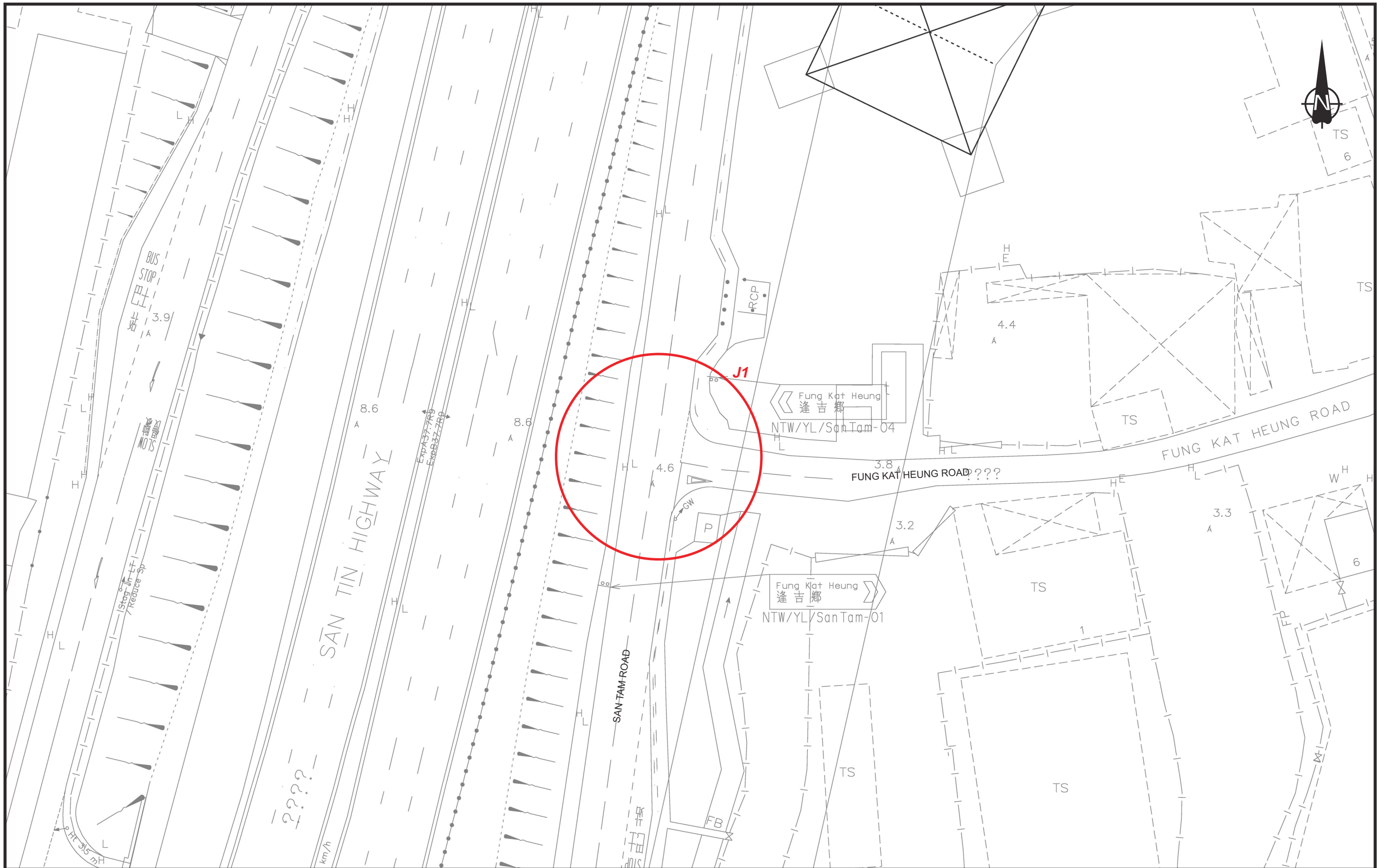
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Drawing Title
EXISTING ROAD NETWORK

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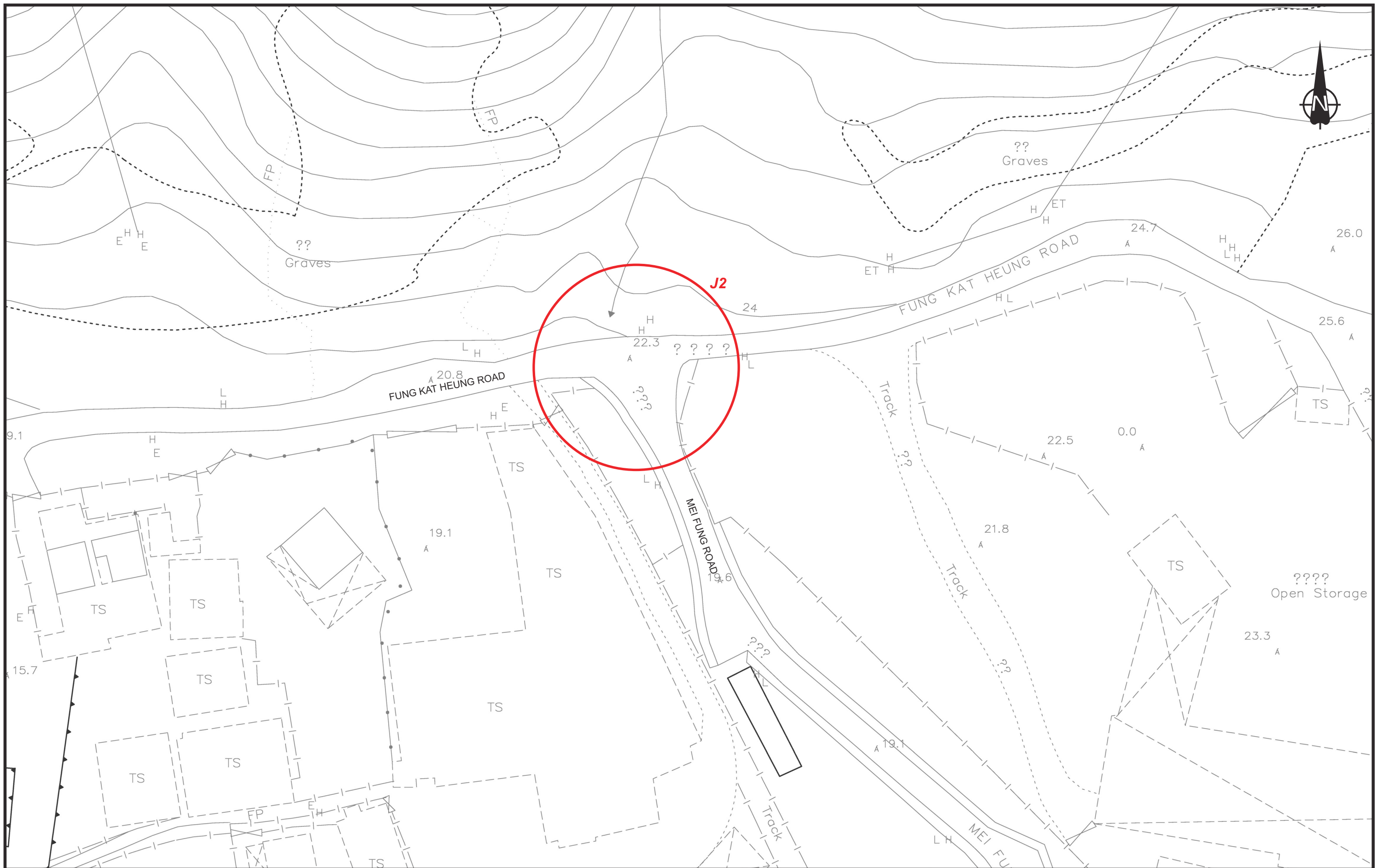
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Drawing Title
JUNCTION LAYOUT OF SAN TAM ROAD / FUNG KAT HEUNG ROAD (J1)

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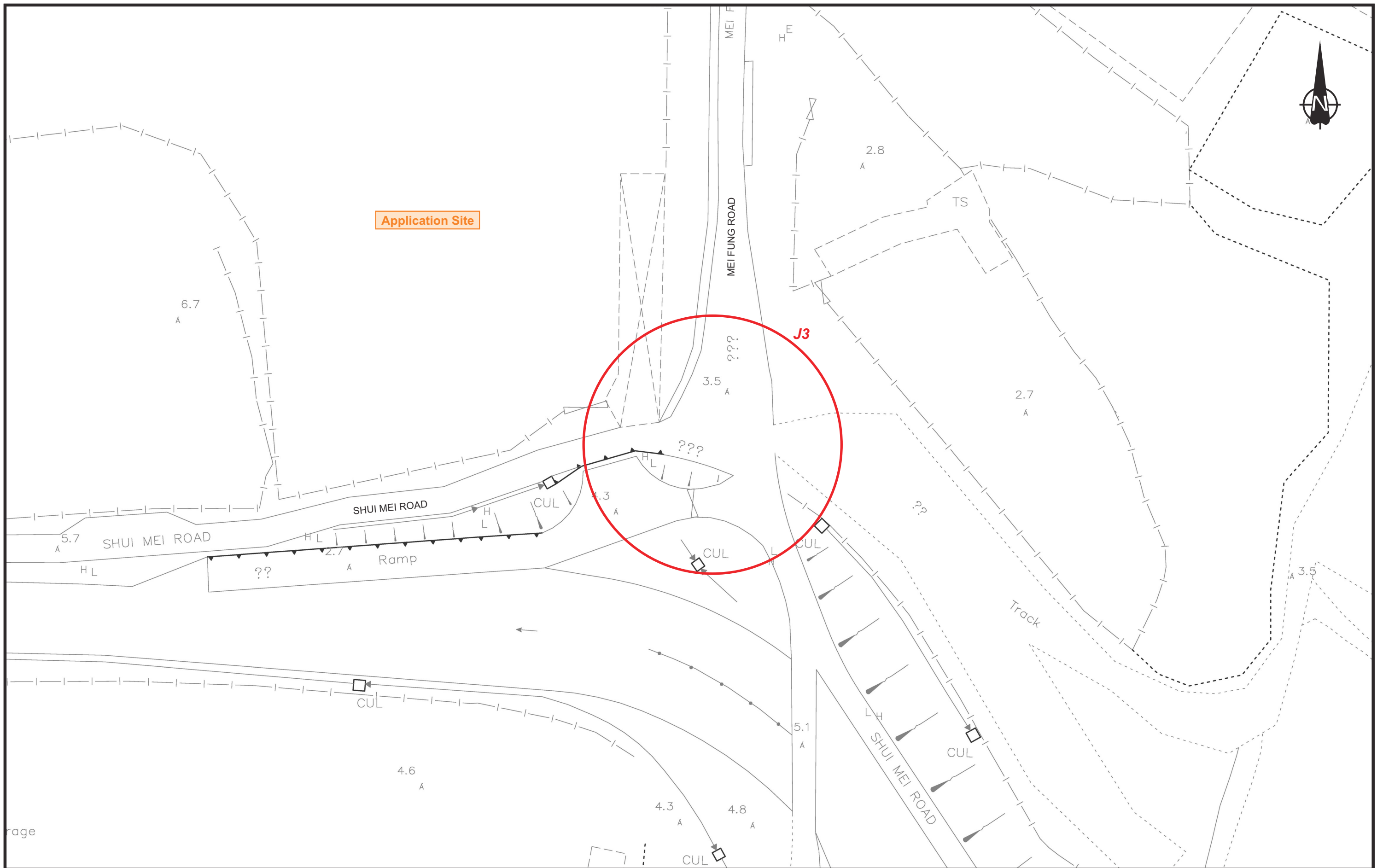
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Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title
JUNCTION LAYOUT OF FUNG KAT HEUNG ROAD / MEI FUNG ROAD (J2)

Designed TSO Checked LHW Scale NTS Date DEC 2023 Drawing No. **2.3** Rev. -





Application Site

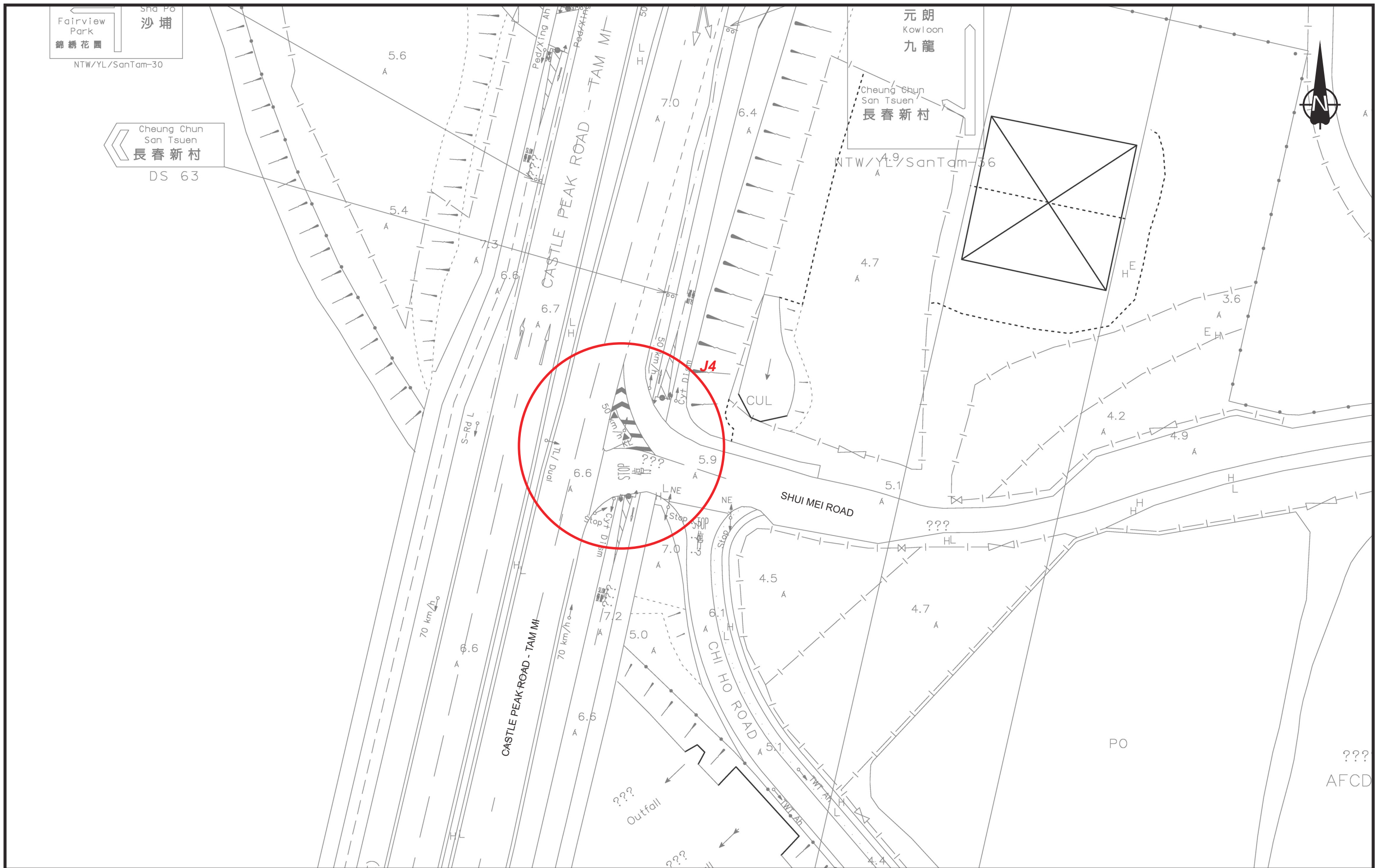
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Rev.	Description	Checked	Date

Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title JUNCTION LAYOUT OF MEI FUNG ROAD / SHUI MEI ROAD (J3)			
Designed	Checked	Scale	Date
TSO	LHW	NTS	DEC 2023
Drawing No.		Rev.	
2.4		-	





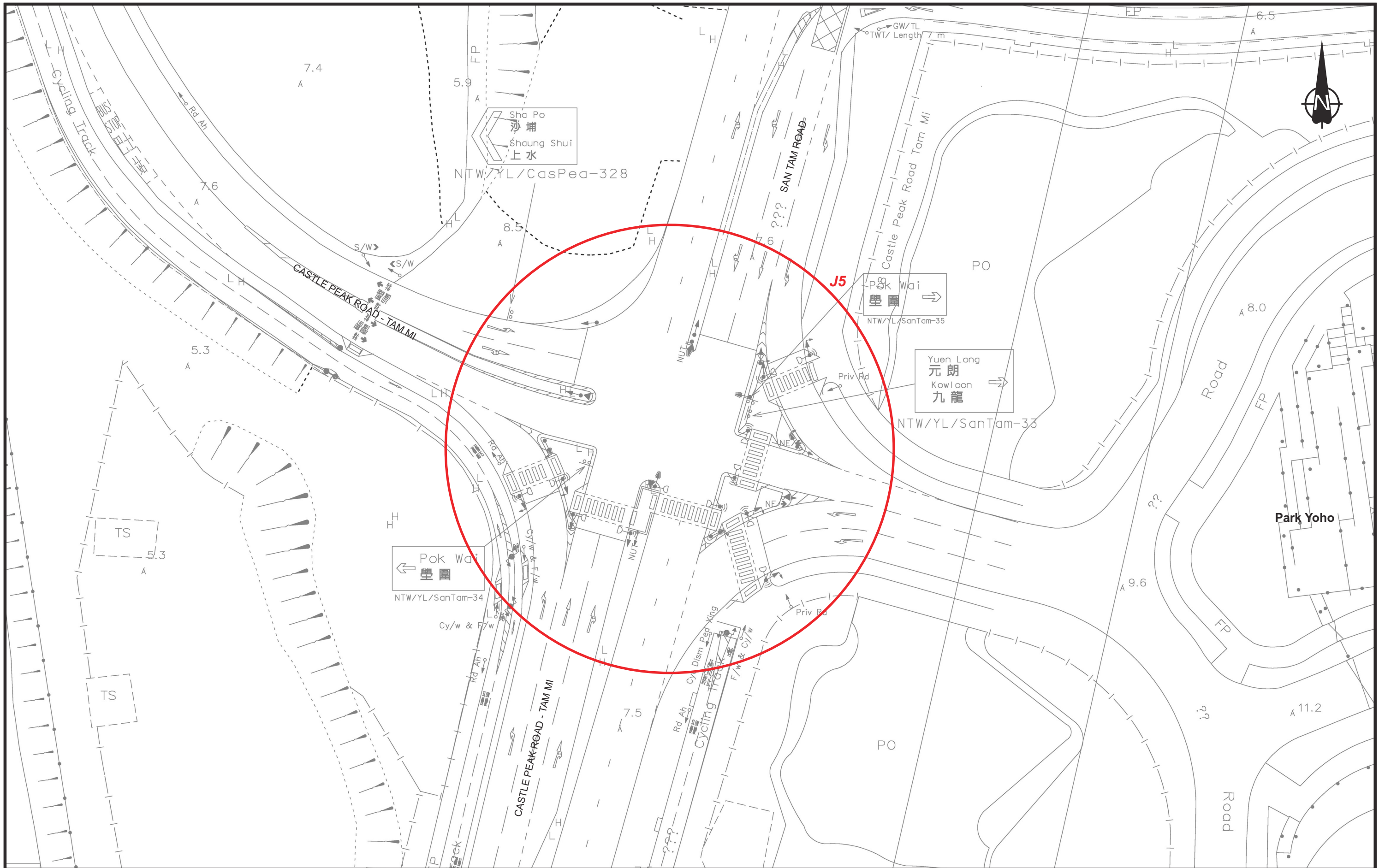
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Rev.	Description	Checked Date

Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title
JUNCTION LAYOUT OF SHUI MEI ROAD / CASTLE PEAK ROAD - TAM MI (J4)

Designed TSO Checked LHW Scale NTS Date DEC 2023 Drawing No. **2.5** Rev. -



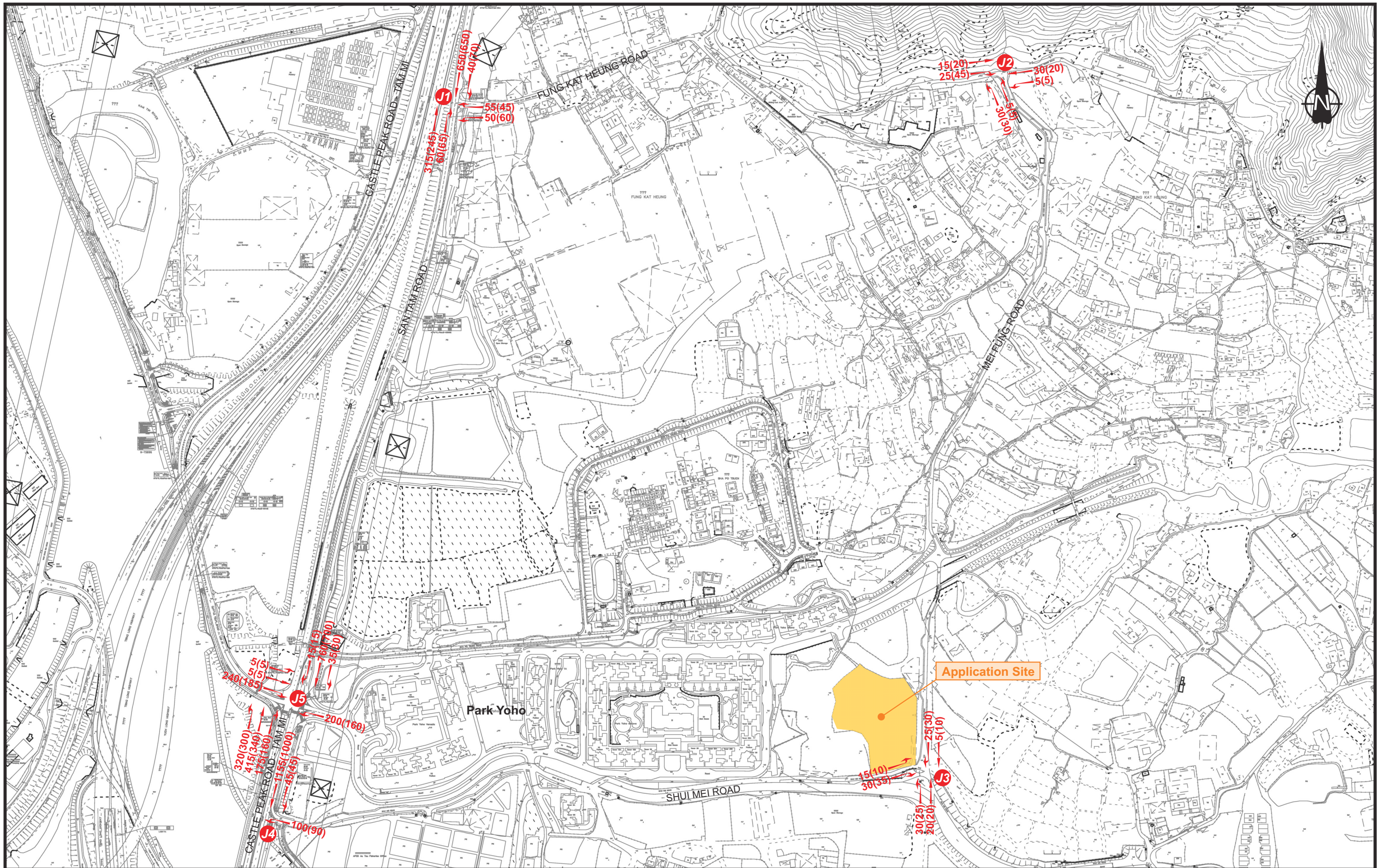


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Rev.	Description	Checked	Date

Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title JUNCTION LAYOUT OF SAN TAM ROAD / CASTLE PEAK ROAD - TAM MI (J5)			
Designed	Checked	Scale	Date
TSO	LHW	NTS	DEC 2023
Drawing No.		2.6	Rev.
			-



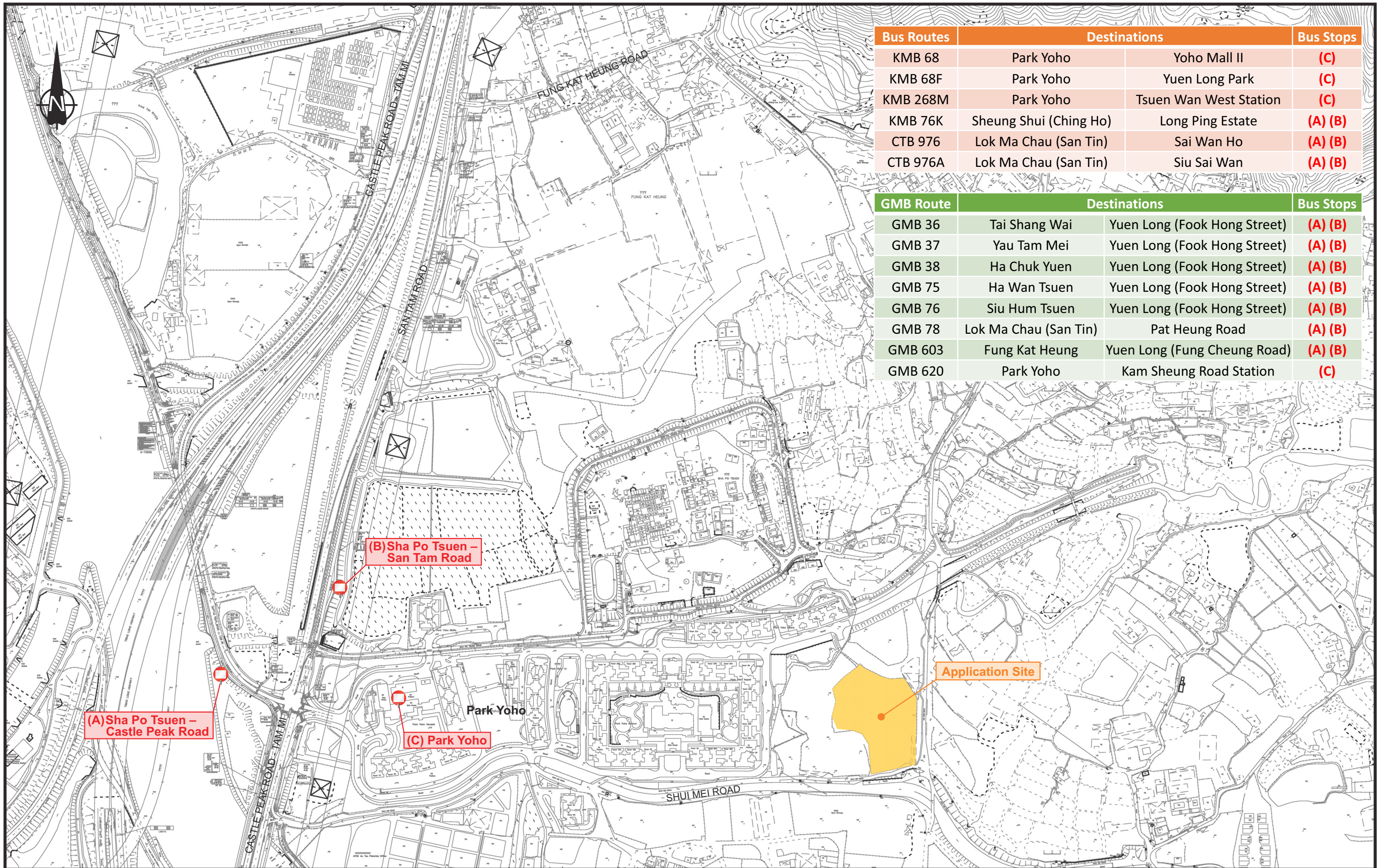


Rev.	Description	Checked	Date
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Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title		Scale		Date	Drawing No.	Rev.
OBSERVED TRAFFIC FLOWS (NOV 2023)		NTS		DEC 2023	2.7	-
Designed	Checked	Scale	Date	Drawing No.	Rev.	
TSO	LHW	NTS	DEC 2023	2.7	-	





Bus Routes	Destinations		Bus Stops
KMB 68	Park Yoho	Yoho Mall II	(C)
KMB 68F	Park Yoho	Yuen Long Park	(C)
KMB 268M	Park Yoho	Tsuen Wan West Station	(C)
KMB 76K	Sheung Shui (Ching Ho)	Long Ping Estate	(A) (B)
CTB 976	Lok Ma Chau (San Tin)	Sai Wan Ho	(A) (B)
CTB 976A	Lok Ma Chau (San Tin)	Siu Sai Wan	(A) (B)

GMB Route	Destinations		Bus Stops
GMB 36	Tai Shang Wai	Yuen Long (Fook Hong Street)	(A) (B)
GMB 37	Yau Tam Mei	Yuen Long (Fook Hong Street)	(A) (B)
GMB 38	Ha Chuk Yuen	Yuen Long (Fook Hong Street)	(A) (B)
GMB 75	Ha Wan Tsuen	Yuen Long (Fook Hong Street)	(A) (B)
GMB 76	Siu Hum Tsuen	Yuen Long (Fook Hong Street)	(A) (B)
GMB 78	Lok Ma Chau (San Tin)	Pat Heung Road	(A) (B)
GMB 603	Fung Kat Heung	Yuen Long (Fung Cheung Road)	(A) (B)
GMB 620	Park Yoho	Kam Sheung Road Station	(C)

Rev.	Description	Checked	Date
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Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title
AVAILABILITY OF PUBLIC TRANSPORT SERVICES

Designed TSO Checked LHW Scale NTS Date DEC 2023 Drawing No. 2.8 Rev. -



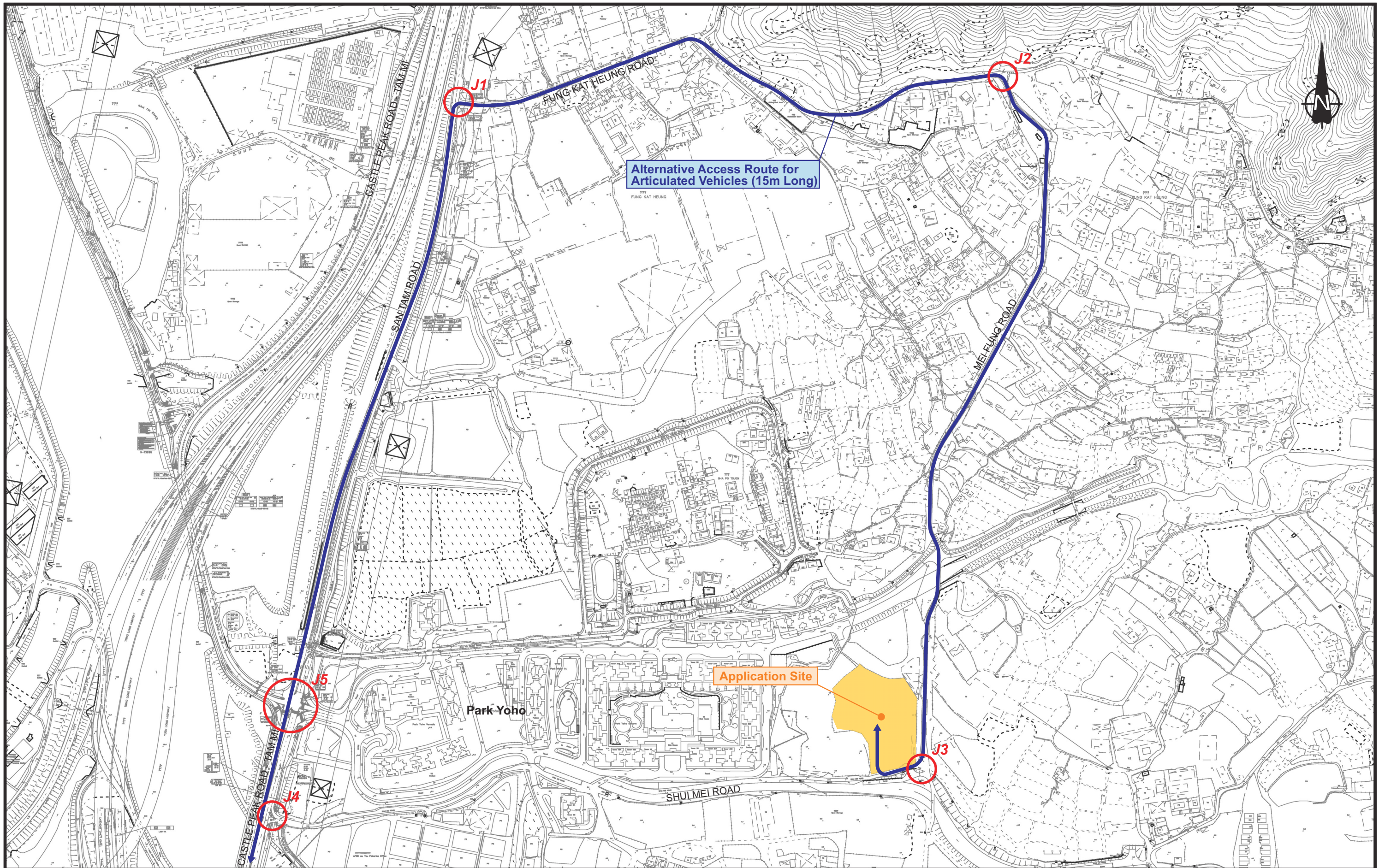


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Rev.	Description	Checked	Date

Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title INDICATIVE LAYOUT PLAN			
Designed TSO	Checked LHW	Scale NTS	Date DEC 2023
Drawing No. 3.1		Rev. -	



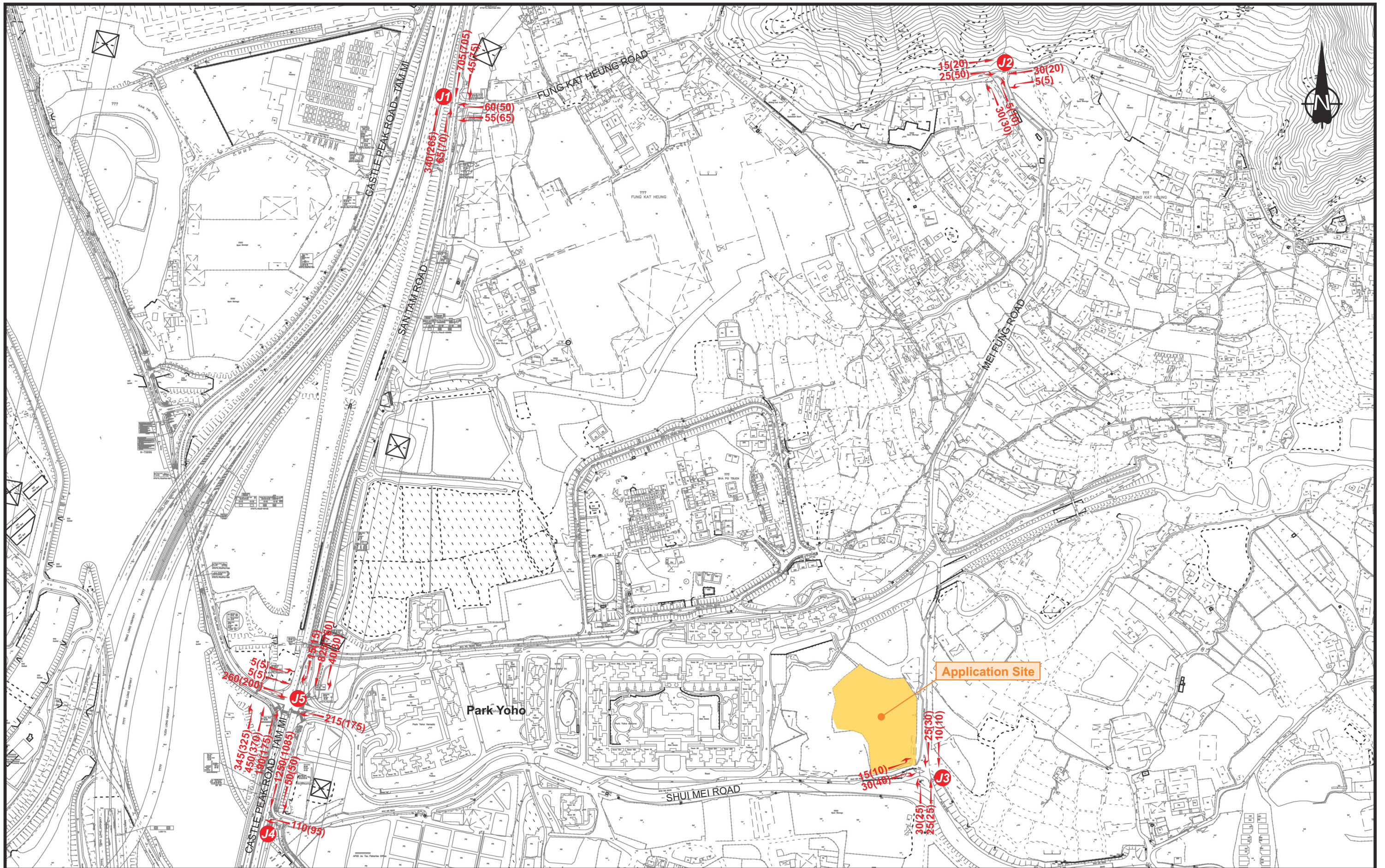


Rev.	Description	Checked	Date
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Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title		INGRESS AND EGRESS ROUTES				Drawing No.		Rev.	
Designed	TSO	Checked	LHW	Scale	NTS	Date	DEC 2023	3.2	-



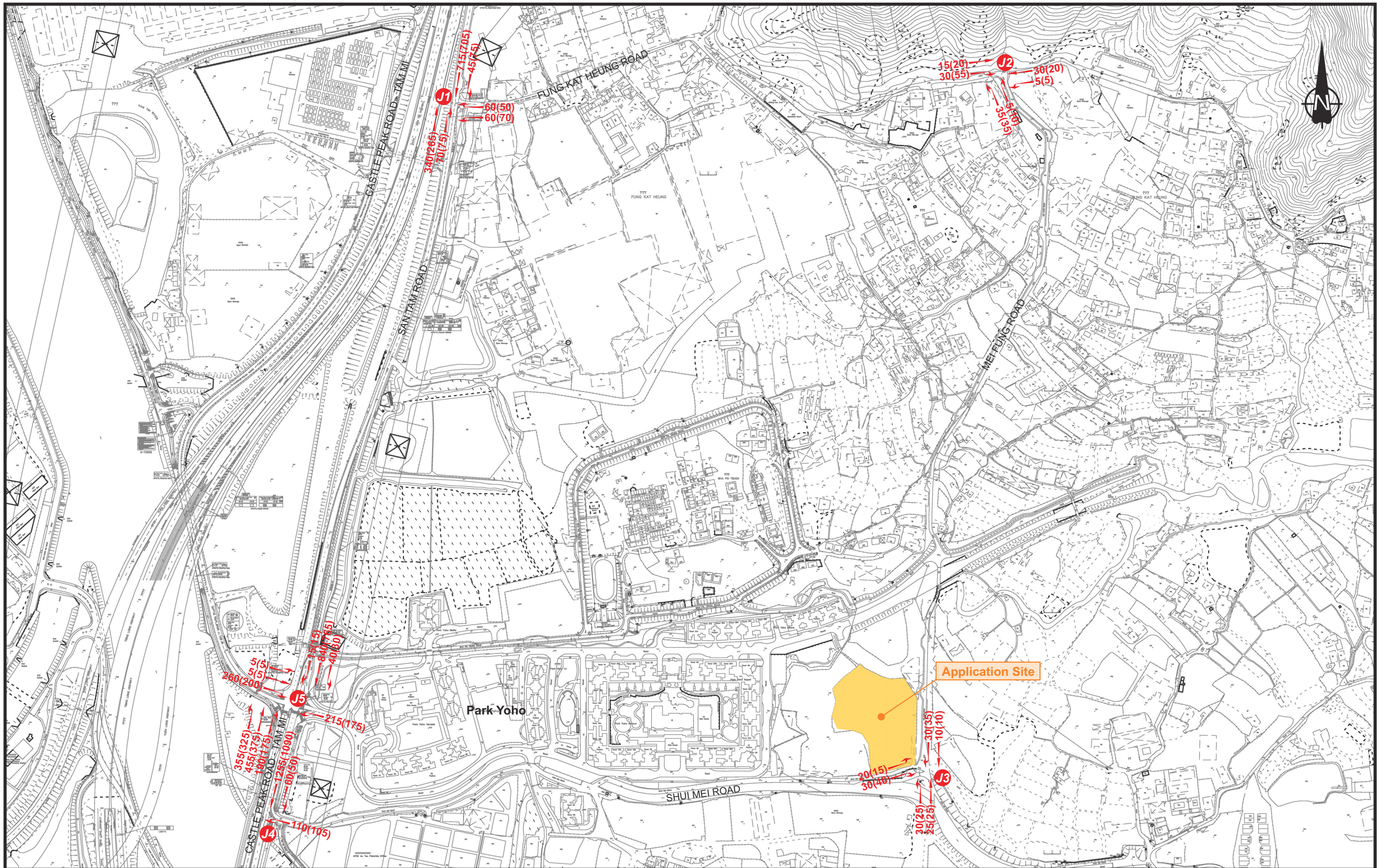


Rev.	Description	Checked	Date
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Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title		Designed	Checked	Scale	Date	Drawing No.	Rev.
2027 REFERENCE TRAFFIC FLOWS		TSO	LHW	NTS	DEC 2023	4.1	-





Rev.	Description	Checked	Date
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Project Title
SECTION 16 PLANNING APPLICATION FOR PROPOSED TEMPORARY OPEN STORAGE OF MODULAR INTEGRATED CONSTRUCTION (MIC) COMPONENTS AND CONSTRUCTION MATERIALS WITH ANCILLARY WORKSHOPS, OFFICE, STAFF CAR PARK AND MACHINERY FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D. 107, SHA PO, YUEN LONG, NEW TERRITORIES

Drawing Title		Scale		Date	Drawing No.	Rev.
2027 DESIGN TRAFFIC FLOWS		NTS	NTS	DEC 2023	4.2	-
Designed	Checked	Scale	Date	Drawing No.	Rev.	
TSO	LHW	NTS	DEC 2023	4.2	-	

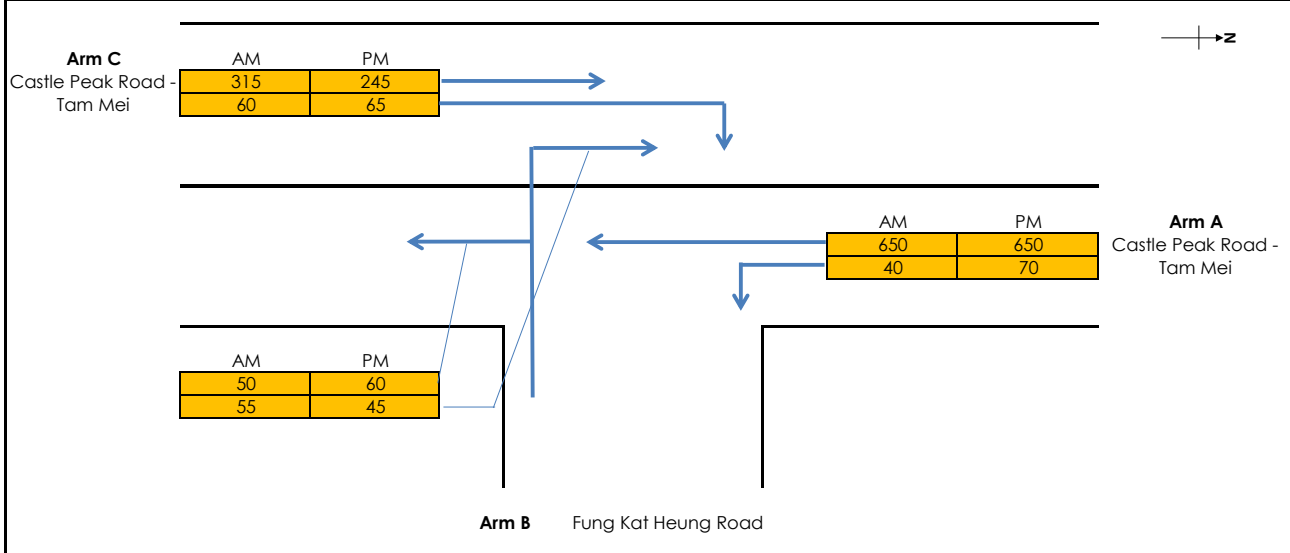


APPENDIX A

CALCULATION DETAILS

Simplified Priority Junction Capacity Calculation

Job Title:	Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard		Designed by:	TSO
Junction:	Castle Peak Road - Tam Mei / Fung Kat Heung Road		Checked by:	LHW
Scheme:	Observed		Date:	Dec-23
Design Year:	2023	Job No.:	CHK50769210	
Arm A:	Castle Peak Road - Tam Mei (Southbound)			
Arm B:	Fung Kat Heung Road			
Arm C:	Castle Peak Road - Tam Mei (Northbound)			



GEOMETRY				
Major Road Width (m)	W	7.00	Lane widths (m)	
Central Reserve Width (m)	Wcr	0.00	w(b-a)	2.80
Blockage of major road right turn	Y/N?	N	w(b-c)	2.80
Combined stream on minor arm	Y/N?	Y	w(c-b)	3.50

Visibility Distances (m)	Vr(b-a)	60	Calculated Parameters	D	0.834
	VI(b-a)	80		E	0.87
	Vr(b-c)	60		F	0.959
	Vr(c-b)	90		Y	0.759

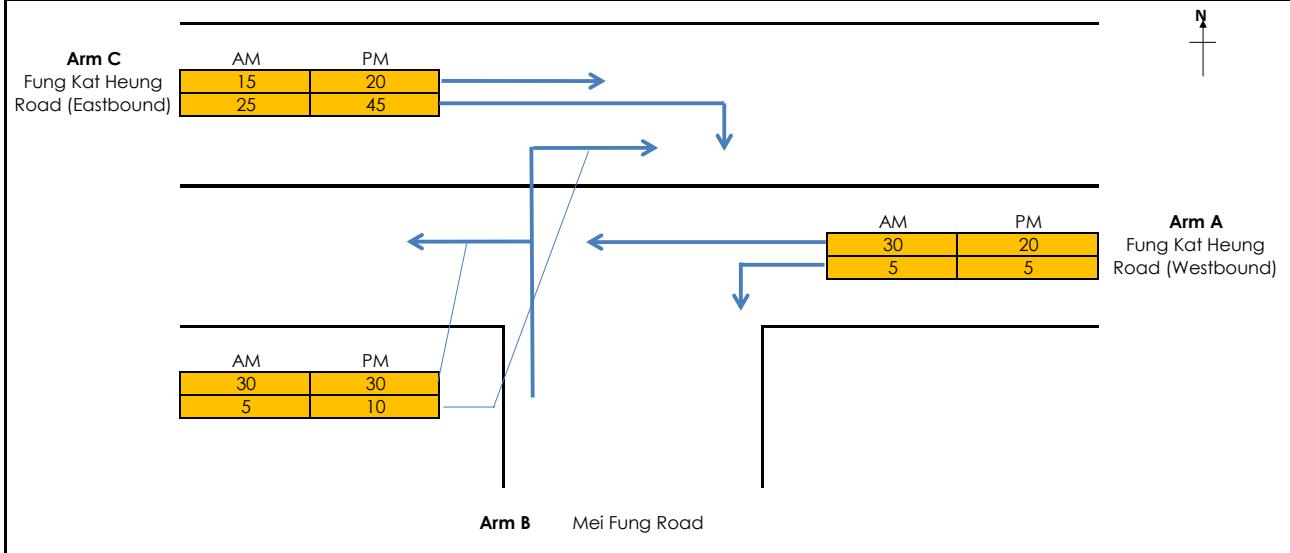
ANALYSIS		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)	q(c-a)	315	245
	q(c-b)	60	65
	q(a-b)	40	70
	q(a-c)	650	650
	q(b-a)	55	45
	q(b-c)	50	60
	f	0.48	0.57
CAPACITIES (pcu/hr)	Q(b-ac)	370.793	390.7
	Q(c-b)	531.916	524
RFC's	c-b	0.11	0.12
	b-ac	0.28	0.27
RFC		0.28	0.27

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1 + 0.094(w(b-a) - 3.65))(1 + 0.0009(Vr(b-a) - 120))(1 + 0.0006(VI(b-a) - 150))$
 $E = (1 + 0.094(w(b-c) - 3.65))(1 + 0.0009(Vr(b-c) - 120))$
 $F = (1 + 0.094(w(c-b) - 3.65))(1 + 0.0009(Vr(c-b) - 120))$
 $Y = 1 - 0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c) * Q(b-a) / (1-f) * Q(b-c) + f * Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title: Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard		Designed by: TSO	
Junction: Fung Kat Heung Road / Mei Fung Road		Checked by: LHW	
Scheme: Observed		Date: Dec-23	
Design Year: 2023	Job No.: CHK50769210		
Arm A: Fung Kat Heung Road (Westbound)			
Arm B: Mei Fung Road			
Arm C: Fung Kat Heung Road (Eastbound)			



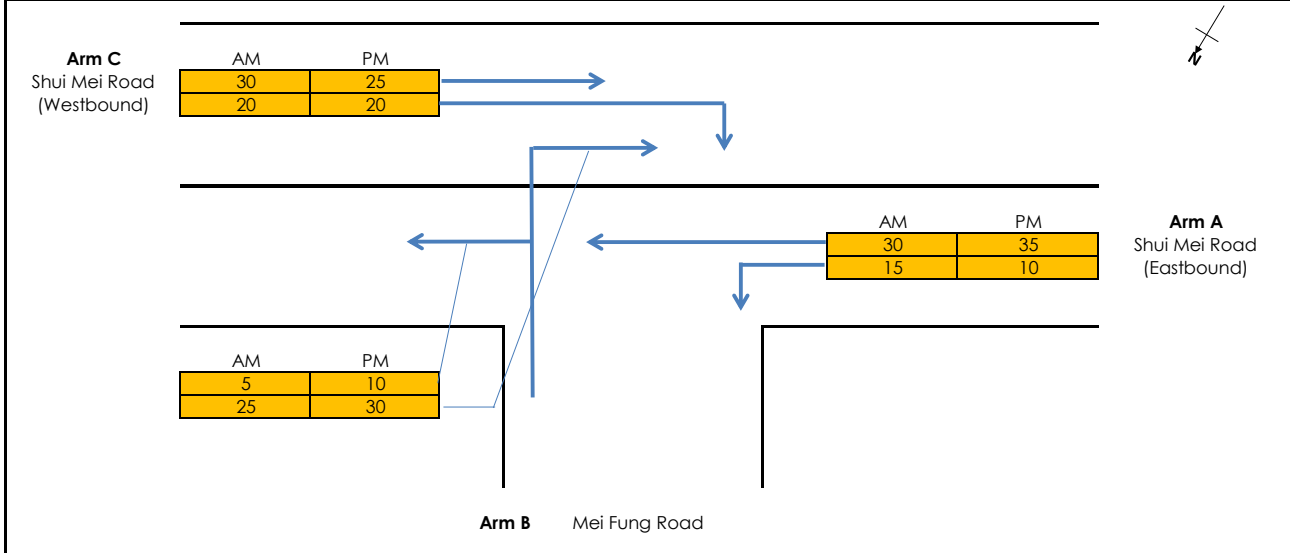
GEOMETRY					
Major Road Width (m)	W	3.00	Lane widths (m)	w(b-a)	4.00
Central Reserve Width (m)	Wcr	0.00		w(b-c)	4.00
Blockage of major road right turn	Y/N?	N		w(c-b)	3.00
Combined stream on minor arm	Y/N?	Y			
Visibility Distances (m)	Vr(b-a)	60	Calculated Parameters	D	0.936
	VI(b-a)	80		E	0.977
	Vr(b-c)	60		F	0.914
	Vr(c-b)	90		Y	0.897
ANALYSIS					
			AM PEAK	PM PEAK	
TRAFFIC FLOWS (pcu/hr)	q(c-a)		15	20	
	q(c-b)		25	45	
	q(a-b)		5	5	
	q(a-c)		30	20	
	q(b-a)		5	10	
	q(b-c)		30	30	
	f		0.86	0.75	
CAPACITIES (pcu/hr)	Q(b-ac)		690.718	671.4	
	Q(c-b)		670.161	673.1	
RFC's	c-b		0.04	0.07	
	b-ac		0.05	0.06	
RFC			0.05	0.07	

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1+0.094(w(b-a)-3.65))(1+0.0009(Vr(b-a)-120))(1+0.0006(VI(b-a)-150))$
 $E = (1+0.094(w(b-c)-3.65))(1+0.0009(Vr(b-c)-120))$
 $F = (1+0.094(w(c-b)-3.65))(1+0.0009(Vr(c-b)-120))$
 $Y = 1-0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c)*Q(b-a)/(1-f)*Q(b-c)+f*Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title: Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard	Designed by: TSO
Junction: Shui Mei Road / Mei Fung Road	Checked by: LHW
Scheme: Observed	Date: Dec-23
Design Year: 2023	Job No.: CHK50769210
Arm A: Shui Mei Road (Eastbound)	
Arm B: Mei Fung Road	
Arm C: Shui Mei Road (Westbound)	



GEOMETRY

Major Road Width (m)	W	14.00	Lane widths (m)	w(b-a)	7.00
Central Reserve Width (m)	Wcr	0.00		w(b-c)	7.00
Blockage of major road right turn	Y/N?	N		w(c-b)	7.00
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	35	Calculated Parameters	D	1.178
	VI(b-a)	100		E	1.214
	Vr(b-c)	35		F	1.193
	Vr(c-b)	17		Y	0.517

ANALYSIS

		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)	q(c-a)	30	25
	q(c-b)	20	20
	q(a-b)	15	10
	q(a-c)	30	35
	q(b-a)	25	30
	q(b-c)	5	10
	f	0.17	0.25
CAPACITIES (pcu/hr)	Q(b-ac)	744.465	757.2
	Q(c-b)	878.689	878.7
RFC's	c-b	0.02	0.02
	b-ac	0.04	0.05
RFC		0.04	0.05

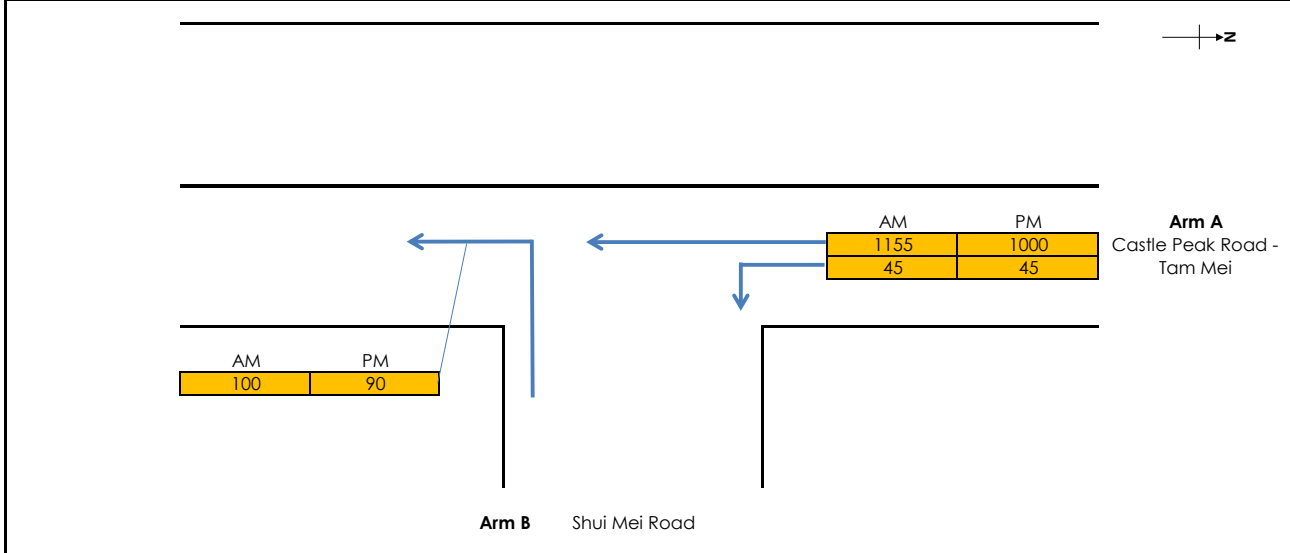
RFC

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1 + 0.094(w(b-a) - 3.65))(1 + 0.0009(Vr(b-a) - 120))(1 + 0.0006(VI(b-a) - 150))$
 $E = (1 + 0.094(w(b-c) - 3.65))(1 + 0.0009(Vr(b-c) - 120))$
 $F = (1 + 0.094(w(c-b) - 3.65))(1 + 0.0009(Vr(c-b) - 120))$
 $Y = 1 - 0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c) * Q(b-a) / (1-f) * Q(b-c) + f * Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title:	Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard		Designed by:	TSO
Junction:	Castle Peak Road - Tam Mei / Shui Mei Road		Checked by:	LHW
Scheme:	Observed		Date:	Dec-23
Design Year:	2023	Job No.:	CHK50769210	
Arm A:	Castle Peak Road - Tam Mei (Southbound)			
Arm B:	Shui Mei Road			
Arm C:	Castle Peak Road - Tam Mei (Northbound)			



GEOMETRY					
Major Road Width (m)	W	8.00	Lane widths (m)	w(b-a)	5.50
Central Reserve Width (m)	Wcr	4.00		w(b-c)	4.80
Blockage of major road right turn	Y/N?	N			
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	40	Calculated Parameters	D	1.037
	VI(b-a)	70		E	1.028
	Vr(b-c)	40		F	0.616
	Vr(c-b)	50		Y	0.724

ANALYSIS		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)			
	q(a-b)	45	45
	q(a-c)	1155	1000
	q(b-c)	100	90
	f	1.00	1.00
CAPACITIES (pcu/hr)			
	Q(b-ac)	448.268	490.3
	Q(c-b)	263.906	289
RFC's			
	b-ac	0.22	0.18
RFC		0.22	0.18

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1+0.094(w(b-a)-3.65))(1+0.0009(Vr(b-a)-120))(1+0.0006(VI(b-a)-150))$
 $E = (1+0.094(w(b-c)-3.65))(1+0.0009(Vr(b-c)-120))$
 $F = (1+0.094(w(c-b)-3.65))(1+0.0009(Vr(c-b)-120))$
 $Y = 1-0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c)*Q(b-a)/(1-f)*Q(b-c)+f*Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

TRAFFIC SIGNALS CALCULATION

Job No.: CHK50769210

MVA HONG KONG LIMITED

Junction: J5 - Castle Peak Road - Tam Mi/San Tam Road

Design Year: 2023

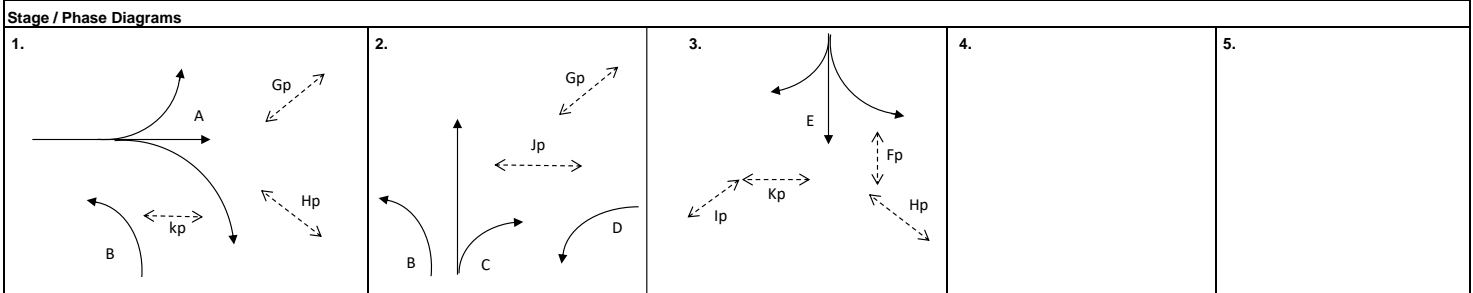
Description: Observed 2023

Designed By: TSO

Checked By: LHW

Approach	Movements	Phase	Stage	Width (m)	Radius (m)		Gradient (%)	Pro. Turning (%)		Revised Saturation Flow (pcu/hr)		AM Peak			PM Peak			
					Left	Right		AM	PM	AM	PM	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y	
Western Access Road	↖ ↗	D	2	3.500	70					2060	2060	104	0.050		83	0.040		
			2	3.500	65						1920	1920	96	0.050		77	0.040	
San Tam Road (SB)	↖ ↗ ↘	E	3	6.000	58							2160	2160	35	0.016		30	0.014
			3	4.000							2155	2155	391	0.181	0.181	360	0.167	
Castle Peak Road - Tam Mi (EB)	↖ ↗	A	1	3.500	28							1865	1865	5	0.003		5	0.003
			1	3.500					98%	100%	1960	1960	245	0.125	0.125	185	0.094	0.094
Castle Peak Road - Tam Mi (NB)	↖ ↗ ↘	B C C	1,2	3.650	60							1930	1930	320	0.166		300	0.155
			2	3.650							2120	2120	299	0.141		254	0.120	0.120
			2	3.650			30		60%	65%	2060	2055	291	0.141	0.141	246	0.120	
Pedestrian Crossing		Fp Gp Hp Ip Jp Kp	3	MIN GREEN + FLASH =		7	+	5	=	12								
			1,2	MIN GREEN + FLASH =		29	+	5	=	34								
			3,1	MIN GREEN + FLASH =		22	+	8	=	30								
			3	MIN GREEN + FLASH =		7	+	5	=	12								
			2	MIN GREEN + FLASH =		7	+	7	=	14								
			3,1	MIN GREEN + FLASH =		25	+	7	=	32								

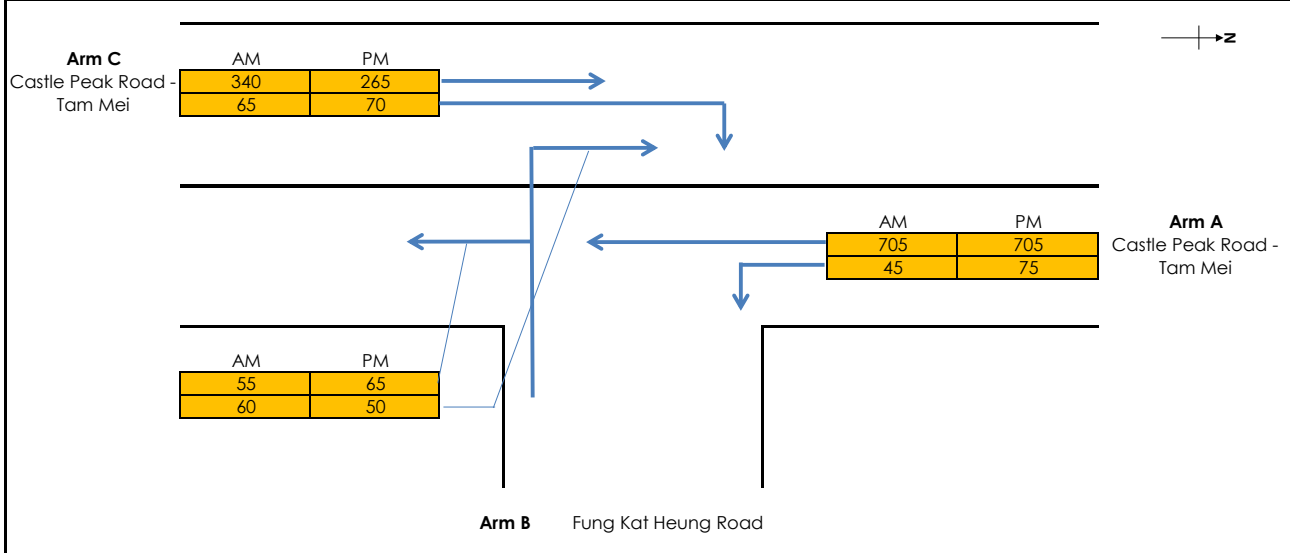
Notes:		Group	A,D,E	A,C,E	Group	A,D,E	A,C,E										
		y L (sec) C (sec) y pract. R.C. (%)	y L (sec) C (sec) y pract. R.C. (%)	0.357	0.448	0.302	0.382	18	22	83	83	0.705	0.661	0.705	0.661	97%	48%



AM Critical Case: A,C,E		I/G= 7 G = 16		I/G= 9 G = 18		I/G= 9 G = 24		I/G=		I/G=	
PM Critical Case: A,C,E		I/G= 7 G = 14		I/G= 9 G = 18		I/G= 9 G = 26		I/G=		I/G=	

Simplified Priority Junction Capacity Calculation

Job Title:	Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard	Designed by:	TSO
Junction:	Castle Peak Road - Tam Mei / Fung Kat Heung Road	Checked by:	LHW
Scheme:	Reference	Date:	Dec-23
Design Year:	2027	Job No.:	CHK50769210
Arm A:	Castle Peak Road - Tam Mei (Southbound)		
Arm B:	Fung Kat Heung Road		
Arm C:	Castle Peak Road - Tam Mei (Northbound)		



GEOMETRY

Major Road Width (m)	W	7.00	Lane widths (m)	w(b-a)	2.80
Central Reserve Width (m)	Wcr	0.00		w(b-c)	2.80
Blockage of major road right turn	Y/N?	N		w(c-b)	3.50
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	60	Calculated Parameters	D	0.834
	VI(b-a)	80		E	0.87
	Vr(b-c)	60		F	0.959
	Vr(c-b)	90		Y	0.759

ANALYSIS

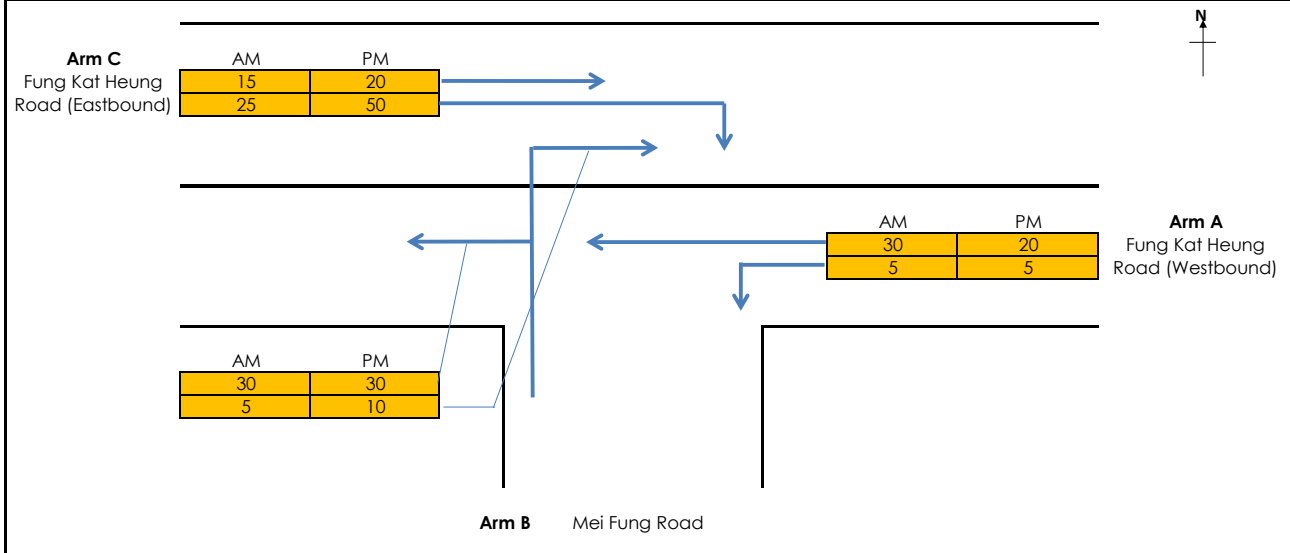
		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)	q(c-a)	340	265
	q(c-b)	65	70
	q(a-b)	45	75
	q(a-c)	705	705
	q(b-a)	60	50
	q(b-c)	55	65
	f	0.48	0.57
CAPACITIES (pcu/hr)	Q(b-ac)	352.993	372.4
	Q(c-b)	516.025	508.1
RFC's	c-b	0.13	0.14
	b-ac	0.33	0.31
RFC		0.33	0.31

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1+0.094(w(b-a)-3.65))(1+0.0009(Vr(b-a)-120))(1+0.0006(VI(b-a)-150))$
 $E = (1+0.094(w(b-c)-3.65))(1+0.0009(Vr(b-c)-120))$
 $F = (1+0.094(w(c-b)-3.65))(1+0.0009(Vr(c-b)-120))$
 $Y = 1-0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c)*Q(b-a)/(1-f)*Q(b-c)+f*Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title: Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard	Designed by: TSO
Junction: Fung Kat Heung Road / Mei Fung Road	Checked by: LHW
Scheme: Reference	Date: Dec-23
Design Year: 2027	Job No.: CHK50769210
Arm A: Fung Kat Heung Road (Westbound)	
Arm B: Mei Fung Road	
Arm C: Fung Kat Heung Road (Eastbound)	



GEOMETRY

Major Road Width (m)	W	3.00	Lane widths (m)	w(b-a)	4.00
Central Reserve Width (m)	Wcr	0.00		w(b-c)	4.00
Blockage of major road right turn	Y/N?	N		w(c-b)	3.00
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	60	Calculated Parameters	D	0.936
	VI(b-a)	80		E	0.977
	Vr(b-c)	60		F	0.914
	Vr(c-b)	90		Y	0.897

ANALYSIS

		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)	q(c-a)	15	20
	q(c-b)	25	50
	q(a-b)	5	5
	q(a-c)	30	20
	q(b-a)	5	10
	q(b-c)	30	30
	f	0.86	0.75
CAPACITIES (pcu/hr)	Q(b-ac)	690.718	670.6
	Q(c-b)	670.161	673.1
RFC's	c-b	0.04	0.07
	b-ac	0.05	0.06
RFC		0.05	0.07

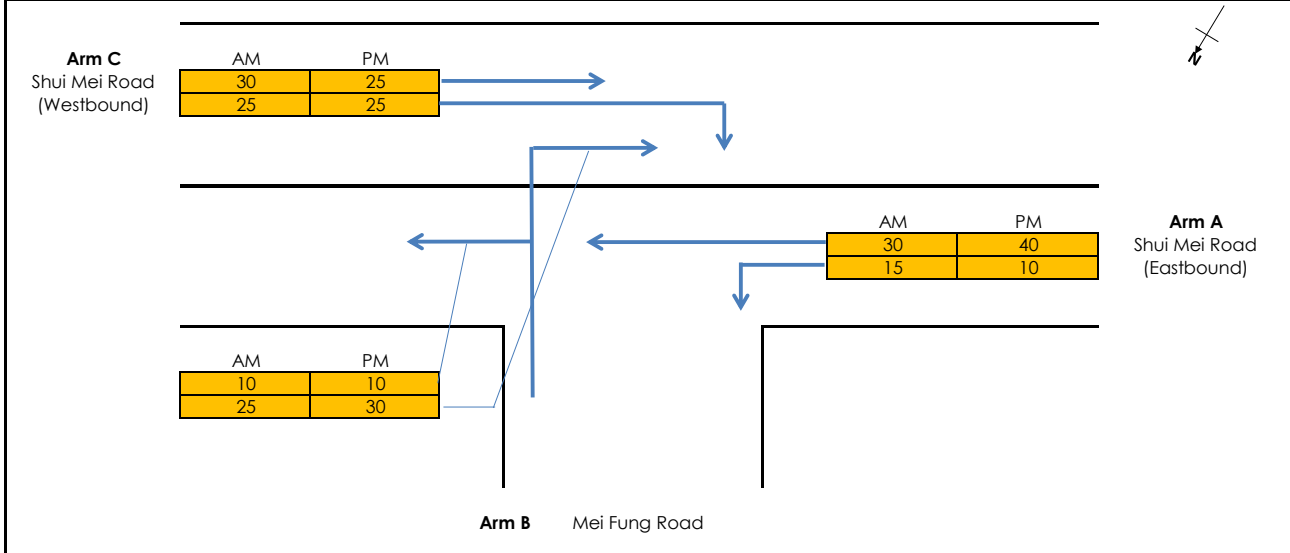
RFC

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1+0.094(w(b-a)-3.65))(1+0.0009(Vr(b-a)-120))(1+0.0006(VI(b-a)-150))$
 $E = (1+0.094(w(b-c)-3.65))(1+0.0009(Vr(b-c)-120))$
 $F = (1+0.094(w(c-b)-3.65))(1+0.0009(Vr(c-b)-120))$
 $Y = 1-0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c)*Q(b-a)/(1-f)*Q(b-c)+f*Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title: Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard	Designed by: TSO
Junction: Shui Mei Road / Mei Fung Road	Checked by: LHW
Scheme: Reference	Date: Dec-23
Design Year: 2027	Job No.: CHK50769210
Arm A: Shui Mei Road (Eastbound)	
Arm B: Mei Fung Road	
Arm C: Shui Mei Road (Westbound)	



GEOMETRY

Major Road Width (m)	W	14.00	Lane widths (m)	w(b-a)	7.00
Central Reserve Width (m)	Wcr	0.00		w(b-c)	7.00
Blockage of major road right turn	Y/N?	N		w(c-b)	7.00
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	35	Calculated Parameters	D	1.178
	VI(b-a)	100		E	1.214
	Vr(b-c)	35		F	1.193
	Vr(c-b)	17		Y	0.517

ANALYSIS

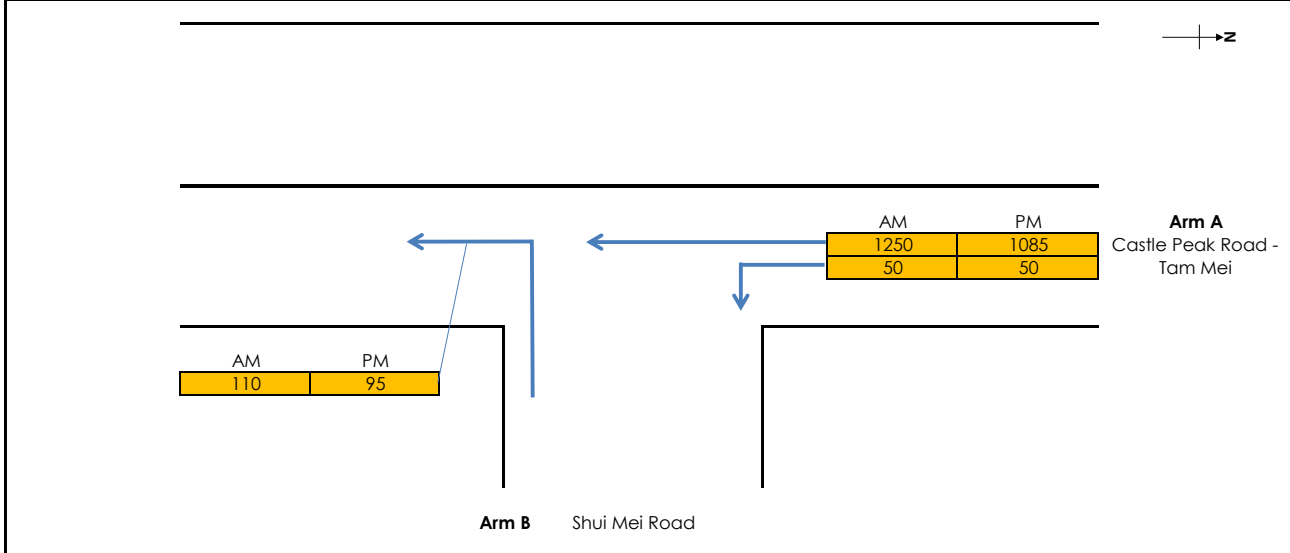
		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)	q(c-a)	30	25
	q(c-b)	25	25
	q(a-b)	15	10
	q(a-c)	30	40
	q(b-a)	25	30
	q(b-c)	10	10
	f	0.29	0.25
CAPACITIES (pcu/hr)	Q(b-ac)	761.673	754.8
	Q(c-b)	878.689	877.6
RFC's	c-b	0.03	0.03
	b-ac	0.05	0.05
RFC		0.05	0.05

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1+0.094(w(b-a)-3.65))(1+0.0009(Vr(b-a)-120))(1+0.0006(VI(b-a)-150))$
 $E = (1+0.094(w(b-c)-3.65))(1+0.0009(Vr(b-c)-120))$
 $F = (1+0.094(w(c-b)-3.65))(1+0.0009(Vr(c-b)-120))$
 $Y = 1-0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c)*Q(b-a)/(1-f)*Q(b-c)+f*Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title:	Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard		Designed by:	TSO
Junction:	Castle Peak Road - Tam Mei / Shui Mei Road		Checked by:	LHW
Scheme:	Reference		Date:	Dec-23
Design Year:	2027	Job No.:	CHK50769210	
Arm A:	Castle Peak Road - Tam Mei (Southbound)			
Arm B:	Shui Mei Road			
Arm C:	Castle Peak Road - Tam Mei (Northbound)			



GEOMETRY					
Major Road Width (m)	W	8.00	Lane widths (m)	w(b-a)	5.50
Central Reserve Width (m)	Wcr	4.00		w(b-c)	4.80
Blockage of major road right turn	Y/N?	N			
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	40	Calculated Parameters	D	1.037
	VI(b-a)	70		E	1.028
	Vr(b-c)	40		F	0.616
	Vr(c-b)	50		Y	0.724

ANALYSIS		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)			
	q(a-b)	50	50
	q(a-c)	1250	1085
	q(b-c)	110	95
	f	1.00	1.00
CAPACITIES (pcu/hr)			
	Q(b-ac)	421.987	466.7
	Q(c-b)	247.685	274.5
RFC's			
	b-ac	0.26	0.20
RFC		0.26	0.20

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1+0.094(w(b-a)-3.65))(1+0.0009(Vr(b-a)-120))(1+0.0006(VI(b-a)-150))$
 $E = (1+0.094(w(b-c)-3.65))(1+0.0009(Vr(b-c)-120))$
 $F = (1+0.094(w(c-b)-3.65))(1+0.0009(Vr(c-b)-120))$
 $Y = 1-0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c)*Q(b-a)/(1-f)*Q(b-c)+f*Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

TRAFFIC SIGNALS CALCULATION

Job No.: CHK50769210

MVA HONG KONG LIMITED

Junction: J5 - Castle Peak Road - Tam Mi/San Tam Road

Design Year: 2023

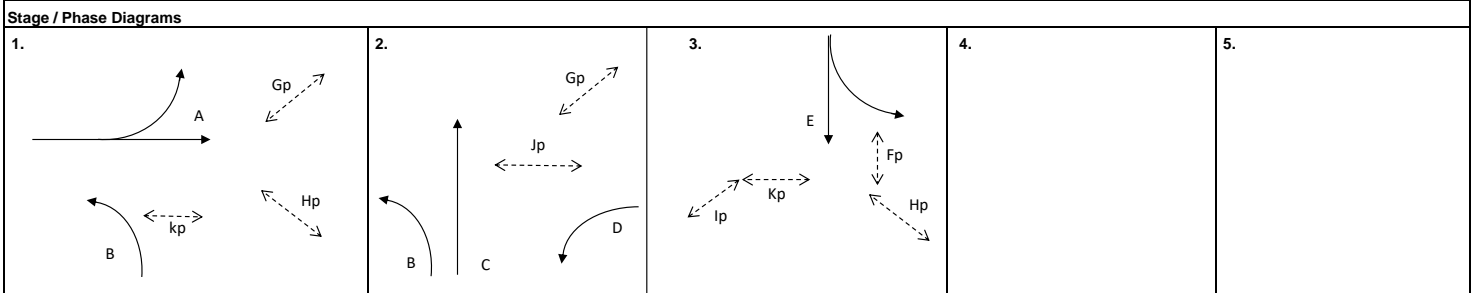
Description: Reference 2027

Designed By: TSO

Checked By: LHW

Approach	Movements	Phase	Stage	Width (m)	Radius (m)		Gradient (%)	Pro. Turning (%)		Revised Saturation Flow (pcu/hr)		AM Peak			PM Peak			
					Left	Right		AM	PM	AM	PM	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y	
Western Access Road	↖ ↗	D	2	3.500	70					2060	2060	111	0.054		91	0.044		
								1920	1920	104	0.054		84	0.044				
San Tam Road (SB)	↔ ↕	E	3	6.000	58					2160	2160	40	0.019		30	0.014	0.181	
								2155	2155	423	0.196		391	0.181				
Castle Peak Road - Tam Mi (EB)	↔ ↕	A	1	3.500	28					1865	1865	5	0.003		5	0.003		
								1960	1960	265	0.135	0.135	200	0.102	0.102			
Castle Peak Road - Tam Mi (NB)	↖ ↗ ↕	B C C	1,2 2 2	3.650	60					1930	1930	345	0.179		325	0.168		
								2120	2120	325	0.153	0.153	277	0.131	0.131			
								2060	2055	315	0.153		268	0.130				
Pedestrian Crossing		Fp Gp Hp Ip Jp Kp	3 1,2 3,1 3 2 3,1	MIN GREEN + FLASH =		7 29 22 7 7 25	+	5 5 8 5 7 7	=	12 34 30 12 14 32								

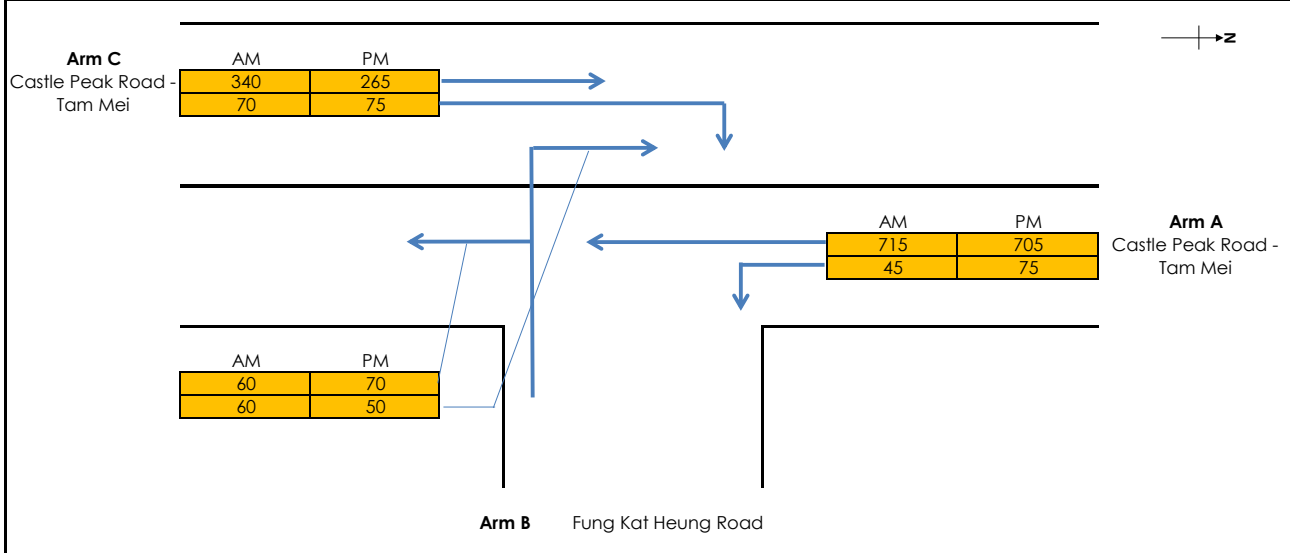
Notes:	Diagram	Group	A,D,E	A,C,E	Group	A,D,E	A,C,E
		y	0.386	0.485	y	0.328	0.414
		L (sec)	18	22	L (sec)	18	22
		C (sec)	83	83	C (sec)	83	83
		y pract.	0.705	0.661	y pract.	0.705	0.661
		R.C. (%)	83%	36%	R.C. (%)	115%	60%



AM Critical Case: A,C,E	I/G=7 G=16	I/G=9 G=18	I/G=9 G=24	I/G=	I/G=
PM Critical Case: A,C,E	I/G=7 G=14	I/G=9 G=18	I/G=9 G=26	I/G=	I/G=

Simplified Priority Junction Capacity Calculation

Job Title:	Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard		Designed by:	TSO
Junction:	Castle Peak Road - Tam Mei / Fung Kat Heung Road		Checked by:	LHW
Scheme:	Design		Date:	Dec-23
Design Year:	2027	Job No.:	CHK50769210	
Arm A:	Castle Peak Road - Tam Mei (Southbound)			
Arm B:	Fung Kat Heung Road			
Arm C:	Castle Peak Road - Tam Mei (Northbound)			



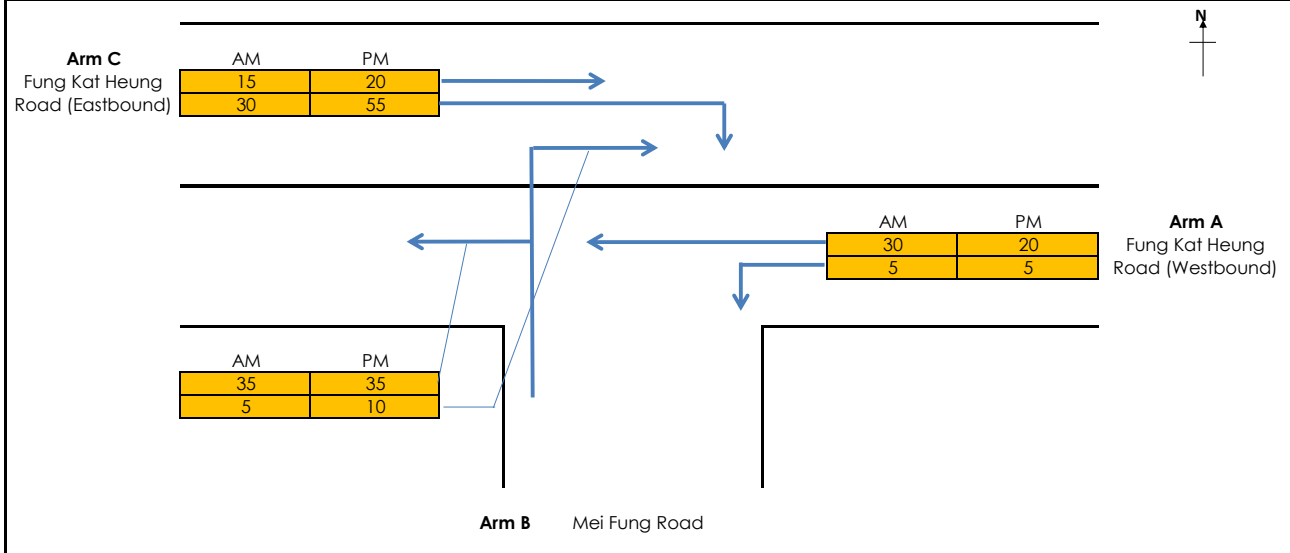
GEOMETRY					
Major Road Width (m)	W	7.00	Lane widths (m)		
Central Reserve Width (m)	Wcr	0.00	w(b-a)	2.80	
Blockage of major road right turn	Y/N?	N	w(b-c)	2.80	
Combined stream on minor arm	Y/N?	Y	w(c-b)	3.50	
Visibility Distances (m)	Vr(b-a)	60	Calculated Parameters	D	0.834
	VI(b-a)	80		E	0.87
	Vr(b-c)	60		F	0.959
	Vr(c-b)	90		Y	0.759
ANALYSIS					
			AM PEAK	PM PEAK	
TRAFFIC FLOWS (pcu/hr)	q(c-a)		340	265	
	q(c-b)		70	75	
	q(a-b)		45	75	
	q(a-c)		715	705	
	q(b-a)		60	50	
	q(b-c)		60	70	
	f		0.50	0.58	
CAPACITIES (pcu/hr)	Q(b-ac)		353.045	374.6	
	Q(c-b)		513.377	508.1	
RFC's	c-b		0.14	0.15	
	b-ac		0.34	0.32	
RFC			0.34	0.32	

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1+0.094(w(b-a)-3.65))(1+0.0009(Vr(b-a)-120))(1+0.0006(VI(b-a)-150))$
 $E = (1+0.094(w(b-c)-3.65))(1+0.0009(Vr(b-c)-120))$
 $F = (1+0.094(w(c-b)-3.65))(1+0.0009(Vr(c-b)-120))$
 $Y = 1-0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c)*Q(b-a)/(1-f)*Q(b-c)+f*Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title: Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard		Designed by: TSO	
Junction: Fung Kat Heung Road / Mei Fung Road		Checked by: LHW	
Scheme: Design		Date: Dec-23	
Design Year: 2027	Job No.: CHK50769210		
Arm A: Fung Kat Heung Road (Westbound)			
Arm B: Mei Fung Road			
Arm C: Fung Kat Heung Road (Eastbound)			



GEOMETRY

Major Road Width (m)	W	3.00	Lane widths (m)	w(b-a)	4.00
Central Reserve Width (m)	Wcr	0.00		w(b-c)	4.00
Blockage of major road right turn	Y/N?	N		w(c-b)	3.00
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	60	Calculated Parameters	D	0.936
	VI(b-a)	80		E	0.977
	Vr(b-c)	60		F	0.914
	Vr(c-b)	90		Y	0.897

ANALYSIS

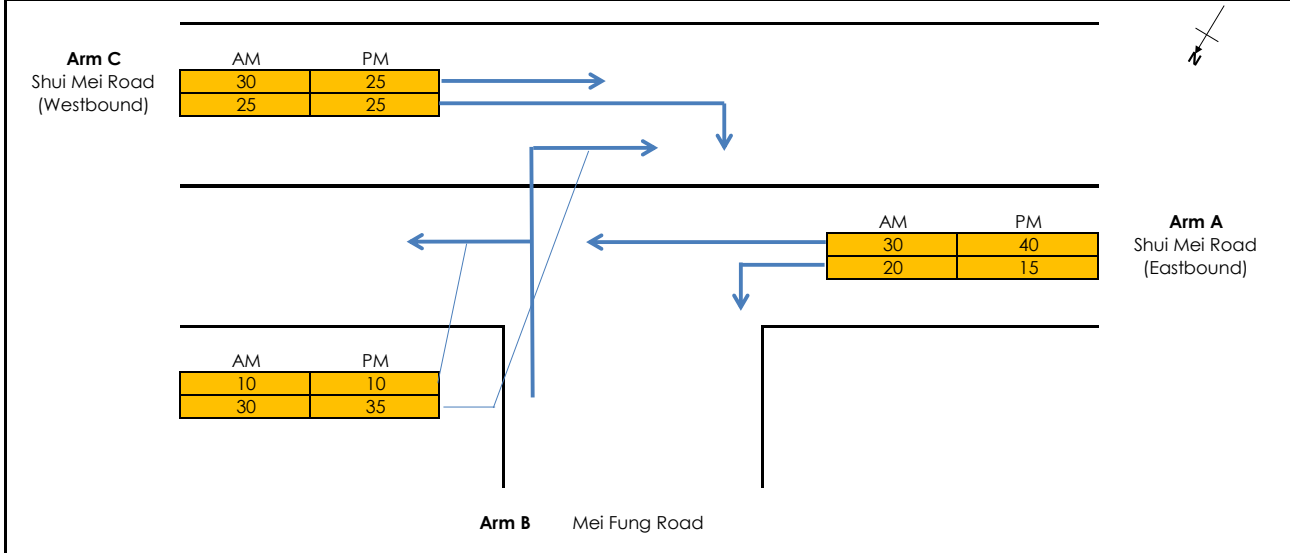
		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)	q(c-a)	15	20
	q(c-b)	30	55
	q(a-b)	5	5
	q(a-c)	30	20
	q(b-a)	5	10
	q(b-c)	35	35
	f	0.88	0.78
CAPACITIES (pcu/hr)	Q(b-ac)	693.571	675.2
	Q(c-b)	670.161	673.1
RFC's	c-b	0.04	0.08
	b-ac	0.06	0.07
RFC		0.06	0.08

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1 + 0.094(w(b-a) - 3.65))(1 + 0.0009(Vr(b-a) - 120))(1 + 0.0006(VI(b-a) - 150))$
 $E = (1 + 0.094(w(b-c) - 3.65))(1 + 0.0009(Vr(b-c) - 120))$
 $F = (1 + 0.094(w(c-b) - 3.65))(1 + 0.0009(Vr(c-b) - 120))$
 $Y = 1 - 0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c) * Q(b-a) / (1-f) * Q(b-c) + f * Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title: Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard	Designed by: TSO
Junction: Shui Mei Road / Mei Fung Road	Checked by: LHW
Scheme: Design	Date: Dec-23
Design Year: 2027	Job No.: CHK50769210
Arm A: Shui Mei Road (Eastbound)	
Arm B: Mei Fung Road	
Arm C: Shui Mei Road (Westbound)	



GEOMETRY

Major Road Width (m)	W	14.00	Lane widths (m)	w(b-a)	7.00
Central Reserve Width (m)	Wcr	0.00		w(b-c)	7.00
Blockage of major road right turn	Y/N?	N		w(c-b)	7.00
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	35	Calculated Parameters	D	1.178
	VI(b-a)	100		E	1.214
	Vr(b-c)	35		F	1.193
	Vr(c-b)	17		Y	0.517

ANALYSIS

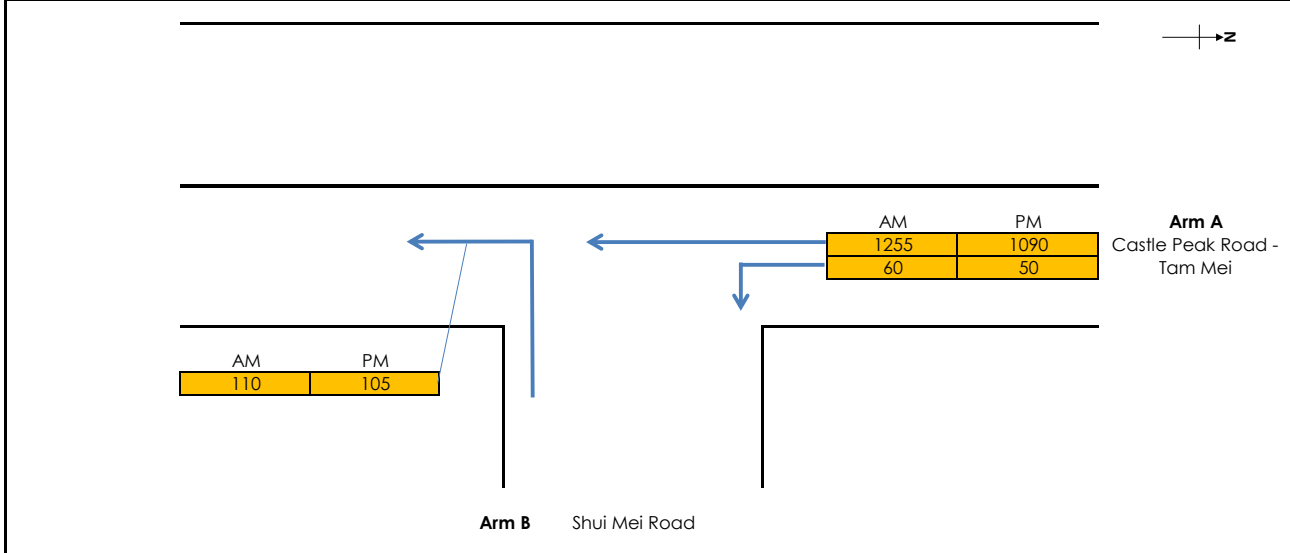
		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)	q(c-a)	30	25
	q(c-b)	25	25
	q(a-b)	20	15
	q(a-c)	30	40
	q(b-a)	30	35
	q(b-c)	10	10
	f	0.25	0.22
CAPACITIES (pcu/hr)	Q(b-ac)	755.546	750
	Q(c-b)	877.566	876.4
RFC's	c-b	0.03	0.03
	b-ac	0.05	0.06
RFC		0.05	0.06

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1 + 0.094(w(b-a) - 3.65))(1 + 0.0009(Vr(b-a) - 120))(1 + 0.0006(VI(b-a) - 150))$
 $E = (1 + 0.094(w(b-c) - 3.65))(1 + 0.0009(Vr(b-c) - 120))$
 $F = (1 + 0.094(w(c-b) - 3.65))(1 + 0.0009(Vr(c-b) - 120))$
 $Y = 1 - 0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c) * Q(b-a) / (1-f) * Q(b-c) + f * Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

Simplified Priority Junction Capacity Calculation

Job Title:	Section 16 Planning Application for Proposed Temporary Workshop and Storage Yard		Designed by:	TSO
Junction:	Castle Peak Road - Tam Mei / Shui Mei Road		Checked by:	LHW
Scheme:	Design		Date:	Dec-23
Design Year:	2027	Job No.:	CHK50769210	
Arm A:	Castle Peak Road - Tam Mei (Southbound)			
Arm B:	Shui Mei Road			
Arm C:	Castle Peak Road - Tam Mei (Northbound)			



GEOMETRY					
Major Road Width (m)	W	8.00	Lane widths (m)	w(b-a)	5.50
Central Reserve Width (m)	Wcr	4.00		w(b-c)	4.80
Blockage of major road right turn	Y/N?	N			
Combined stream on minor arm	Y/N?	Y			

Visibility Distances (m)	Vr(b-a)	40	Calculated Parameters	D	1.037
	VI(b-a)	70		E	1.028
	Vr(b-c)	40		F	0.616
	Vr(c-b)	50		Y	0.724

ANALYSIS		AM PEAK	PM PEAK
TRAFFIC FLOWS (pcu/hr)			
	q(a-b)	60	50
	q(a-c)	1255	1090
	q(b-c)	110	105
	f	1.00	1.00
CAPACITIES (pcu/hr)			
	Q(b-ac)	419.56	465.3
	Q(c-b)	245.252	273.6
RFC's			
	b-ac	0.26	0.23
RFC		0.26	0.23

Where VI and Vr are visibility distances to the left or right of the respective streams
 $D = (1+0.094(w(b-a)-3.65))(1+0.0009(Vr(b-a)-120))(1+0.0006(VI(b-a)-150))$
 $E = (1+0.094(w(b-c)-3.65))(1+0.0009(Vr(b-c)-120))$
 $F = (1+0.094(w(c-b)-3.65))(1+0.0009(Vr(c-b)-120))$
 $Y = 1-0.0345W$
 f = proportion of minor traffic turning left
 $Q(b-ac) = Q(b-c)*Q(b-a)/(1-f)*Q(b-c)+f*Q(b-a)$ Capacity of combined streams

All the above formulas are in accordance to T.P.D.M. Volume 2 Chapter 4 Appendix 1

TRAFFIC SIGNALS CALCULATION

Job No.: CHK50769210

MVA HONG KONG LIMITED

Junction: J5 - Castle Peak Road - Tam Mi/San Tam Road

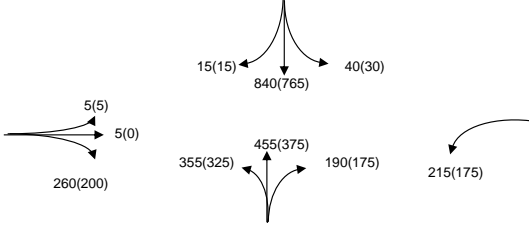
Design Year: 2023

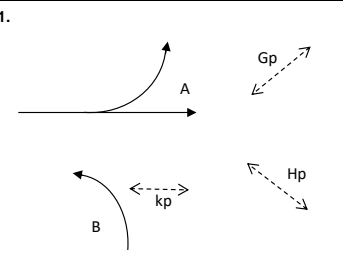
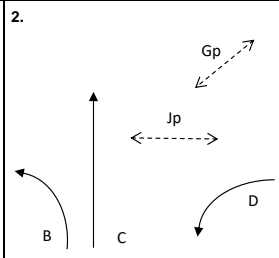
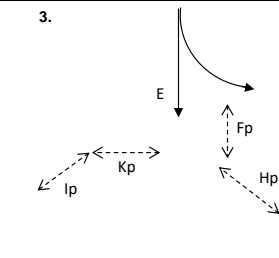
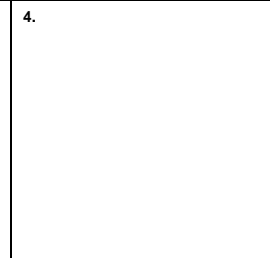
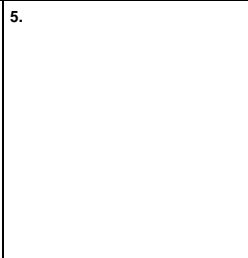
Description: Design 2027

Designed By: TSO

Checked By: LHW

Approach	Movements	Phase	Stage	Width (m)	Radius (m)		Gradient (%)	Pro. Turning (%)		Revised Saturation Flow (pcu/hr)		AM Peak			PM Peak			
					Left	Right		AM	PM	AM	PM	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y	
Western Access Road	↖ ↗	D	2	3.500	70					2060	2060	111	0.054		91	0.044		
			2	3.500	65						1920	1920	104	0.054		84	0.044	
San Tam Road (SB)	↖ ↗	E	3	6.000	58					2160	2160	40	0.019		30	0.014	0.182	
			3	4.000							2155	2155	431	0.200		393	0.182	
Castle Peak Road - Tam Mi (EB)	↖ ↗	A	1	3.500	28							5	0.003		5	0.003		
			1	3.500					98%	100%	1960	1960	265	0.135	0.135	200	0.102	0.102
Castle Peak Road - Tam Mi (NB)	↖ ↗	B C C	1,2	3.650	60							1930	0.184		325	0.168		
			2	3.650							2120	2120	327	0.154	0.154	279	0.132	0.132
			2	3.650			30	60%	65%	2060	2055	318	0.154		271	0.132		
Pedestrian Crossing		Fp Gp Hp Ip Jp Kp	3	MIN GREEN + FLASH =	7	+	5	=	12									
			1,2	MIN GREEN + FLASH =	29	+	5	=	34									
			3,1	MIN GREEN + FLASH =	22	+	8	=	30									
			3	MIN GREEN + FLASH =	7	+	5	=	12									
			2	MIN GREEN + FLASH =	7	+	7	=	14									
			3,1	MIN GREEN + FLASH =	25	+	7	=	32									

Notes:		Group	A,D,E	A,C,E	Group	A,D,E	A,C,E
				y	0.389	0.489	y
		L (sec)	18	22	L (sec)	18	22
		C (sec)	83	83	C (sec)	83	83
		y pract.	0.705	0.661	y pract.	0.705	0.661
		R.C. (%)	81%	35%	R.C. (%)	115%	59%

Stage / Phase Diagrams				
1. 	2. 	3. 	4. 	5. 

AM Critical Case: A,C,E							
I/G=7	G = 16	I/G=9	G = 18	I/G=9	G = 24	I/G=	I/G=
PM Critical Case: A,C,E							
I/G=7	G = 14	I/G=9	G = 18	I/G=9	G = 26	I/G=	I/G=

APPENDIX B

SWEPT PATH ANALYSIS

Open Storage Area

Approx. 110,000 sq. ft
6.7 +

Office
19m x 35m

Workshop
15m x 15m

Workshop
15m x 15m

Workshop
15m x 15m

Guardhouse

Parking Area

Internal Driveway

尾邊路

水尾路

SHUI MEI ROAD

水尾路

泥路

TS

TS

E

3.7 +

E

E

2.8 +

TS

2.7 +

3.5 +

4.3 +

5.2 +

5.7 +

5.0 +

4.5 +

4.9 +

5.2 +

5.7 +

P

P

P

P

P

P

L

L

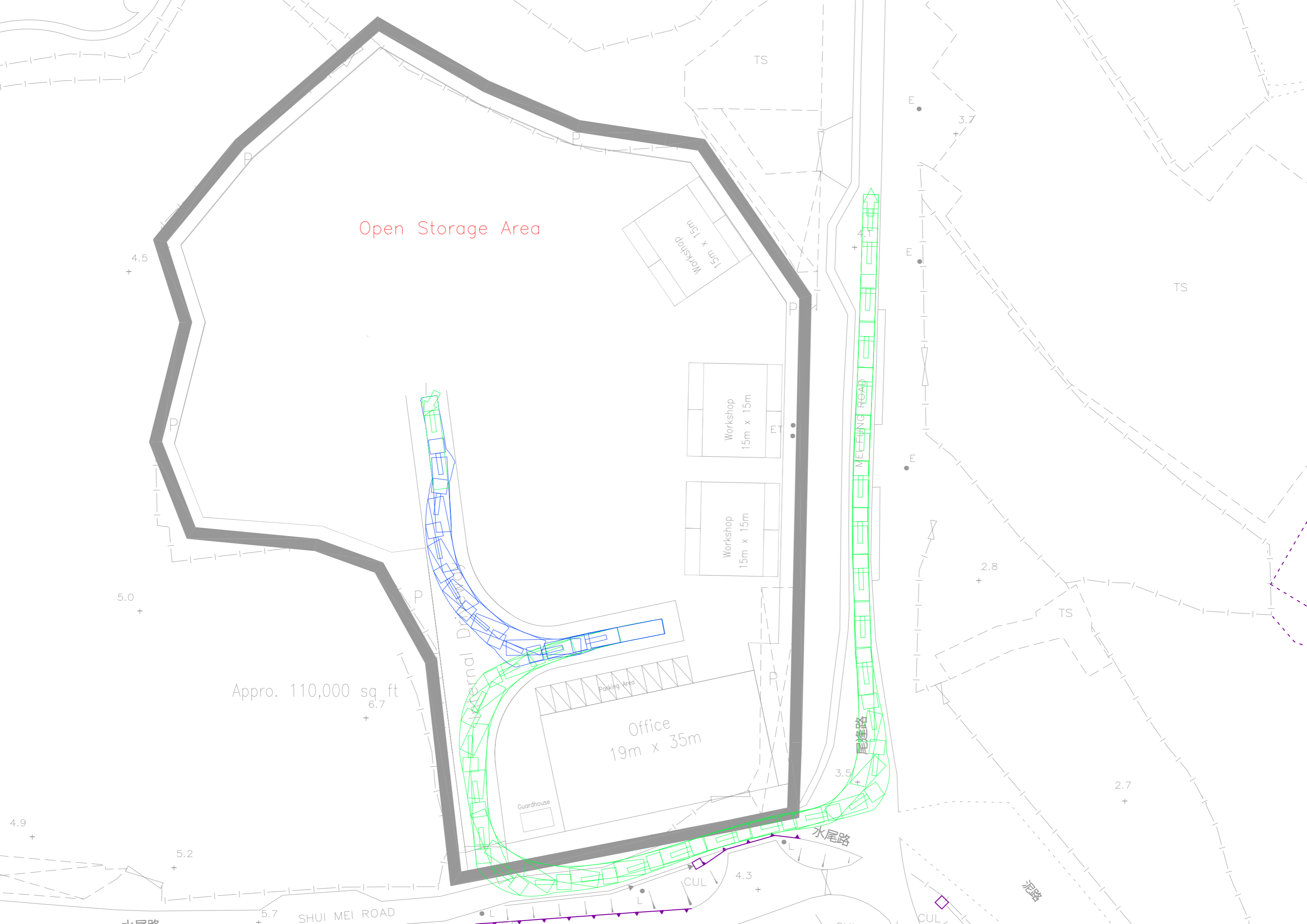
L

CUL

CUL

CUL

CUL



Open Storage Area

Approx. 110,000 sq. ft

Office
19m x 35m

Workshop
15m x 15m

Workshop
15m x 15m

Workshop
15m x 15m

Internal Driveway

MEI LUNG ROAD

SHUI MEI ROAD

水尾路

泥路

水尾路

TS

TS

E

+

3.7

E

E

+

2.8

TS

+

3.5

+

4.3

+

2.7

+

4.5

+

5.0

+

4.9

+

5.2

+

5.7

Guardhouse

Parking Area

CUL

CUL

P

P

P

P

P

P

L

L

L