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TOWN PLANNING BOARD	49,	¢ 11.	1.75	C = 9	×	2	н	190	-

	回 1:	nex I of
	NOTAL TP	<u> PB Paper No. 10856</u>
ZONES		
0011157011		77.44
COMMERCIAL	C	商業
COMPREHENSIVE DEVELOPMENT AREA	CDA	綜合發展區
COMMERCIAL / RESIDENTIAL	C/R	商業 / 住宅
RESIDENTIAL (GROUP A)	R(A)	住宅(甲類)
RESIDENTIAL (GROUP B)	R(B)	住宅(乙類)
RESIDENTIAL (GROUP C)	R(C)	住宅(丙類)
VILLAGE TYPE DEVELOPMENT	v	鄉村式發展
INDUSTRIAL	1	工業
GOVERNMENT, INSTITUTION OR COMMUNITY	G/IC	政 府 丶 機 構 或 社 區
OPEN SPACE	0	休憩用地
OTHER SPECIFIED USES	OU	其他指定用途
UNDETERMINED	U	未決定用途
GREEN BELT	GB	<b>綠 化 地 帶</b>
COMMUNICATIONS		交通
MAJOR ROAD AND JUNCTION		主 主要道路及路口
ELEVATED ROAD		高架道路
MISCELLANEOUS		其他
BOUNDARY OF PLANNING SCHEME	<u> </u>	見 劃 範 国 界 線
PLANNING AREA NUMBER	(1)	規劃區編號
MAXIMUM BUILDING HEIGHT (IN METRES ABOVE PRINCIPAL DATUM)	130	最高建築物高度 (在主水平基準上若干米)

#### 土地用途及面積一覽表 SCHEDULE OF USES AND AREAS

PFS

USES	大約面積及百分率 APPROXIMATE AREA & %		用途
USES	公頃 HECTARES	% 百分率	用述
COMMERCIAL	3.11	0.47	商業
COMPREHENSIVE DEVELOPMENT AREA	3.16	0.47	綜合發展區
COMMERCIAL / RESIDENTIAL	22.07	3.31	商業 / 住宅
RESIDENTIAL (GROUP A)	133.11	19.95	住宅(甲類)
RESIDENTIAL (GROUP B)	8.18	1.23	住宅(乙類)
RESIDENTIAL (GROUP C)	21.82	3.27	住宅(丙類)
VILLAGE TYPE DEVELOPMENT	83.30	12.48	鄉村式發展
INDUSTRIAL	34.91	5.23	工業
GOVERNMENT, INSTITUTION OR COMMUNITY	99.45	14.90	政府、機構或社區
OPEN SPACE	42.30	6.34	休憩用地
OTHER SPECIFIED USES	38.68	5.80	其他指定用途
UNDETERMINED	0.90	0.13	未決定用途
GREEN BELT	65.00	9.74	<b>綠 化 地 帶</b>
RIVER CHANNEL	24.25	3.63	河道
MAJOR ROAD ETC.	87.01	13.05	主要道路等
TOTAL PLANNING SCHEME AREA	667.25	100.00	規劃範圍總面積

夾附的《註釋》屬這份圖則的一部分, 現經修訂並按照城市規劃條例第5條展示。 THE ATTACHED NOTES ALSO FORM PART OF THIS PLAN AND HAVE BEEN AMENDED FOR EXHIBITION UNDER SECTION 5 OF THE TOWN PLANNING ORDINANCE

#### 核准圖編號 S/FSS/24 的修訂 AMENDMENTS TO APPROVED PLAN No. S/FSS/24

按照城市規劃條例第 5 條展示的修訂 AMENDMENTS EXHIBITED UNDER SECTION 5 OF THE TOWN PLANNING ORDINANCE

修訂項目A1項 AMENDMENTITEM A1 体影訂項目A2項 AMENDMENTITEM A2 体影訂項目A3項 AMENDMENTITEM A3 体影訂項目B項 AMENDMENTITEM B 修訂項目C1項 AMENDMENTITEM B

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修訂項目C2項 AMENDMENT ITEM C2
修訂項目 D 1 項 AMENDMENT ITEM D1
修訂項目D2項 AMENDMENT ITEM D2
修訂項目D3項 AMENDMENT ITEM D3
修訂項目D4項



加油刘

(參看附表) (SEE ATTACHED SCHEDULE)

> 規劃署遵照城市規劃委員會指示擬備 PREPARED BY THE PLANNING DEPARTMENT UNDER THE DIRECTION OF THE TOWN PLANNING BOARD



圖 則 編 號 PLAN No.

S/FSS/25

# SCHEDULE OF AMENDMENTS TO THE APPROVED FANLING/SHEUNG SHUI OUTLINE ZONING PLAN NO. S/FSS/24 MADE BY THE TOWN PLANNING BOARD UNDER THE TOWN PLANNING ORDINANCE (Chapter 131)

# I. <u>Amendments to Matters shown on the Plan</u>

- Item A1 Rezoning of a site to the east of Jockey Club Road and to the west of Fan Leng Lau Road at Fanling Area 17 from "Government, Institution or Community" ("G/IC") and "Residential (Group C)1" ("R(C)1") to "Residential (Group A)7" ("R(A)7") with stipulation of building height restriction.
- Item A2 Rezoning of a site fronting Fan Leng Lau Road at Fanling Area 17 from "G/IC" and "R(C)1" to "R(A)8" with stipulation of building height restriction.
- Item A3 Rezoning of a site to the east of Jockey Club Road and to the southwest of Fanling Garden at Fanling Area 17 from "G/IC" and "R(C)1" to "R(A)8" with stipulation of building height restriction.
- Item B Rezoning of a site at Ching Hiu Road, Sheung Shui Area 36 from "G/IC" and "Green Belt" ("GB") to "R(A)9" with stipulation of building height restriction.
- Item C1 Rezoning of a site at Tai Tau Leng, Sheung Shui Area 35 from "G/IC" and "GB" to "R(A)10" with stipulation of building height restriction.
- Item C2 Rezoning of a strip of land along Fanling Highway at Sheung Shui Area 35 from "GB" to area shown as 'Road'.
- Item D1 Rezoning of a site at Choi Shun Street, Sheung Shui Area 30 from "Industrial" ("I") to "R(A)11" with stipulation of building height restriction.
- Item D2 Rezoning of two sites at Choi Fat Street and the junction of Choi Yuen Road and Choi Shun Street, Sheung Shui Area 30 from "I" to "G/IC".
- Item D3 Rezoning of the industrial area at the southeastern portion of Sheung Shui Area 30 from "I" to "Commercial" ("C") with stipulation of building height restriction.
- Item D4 Rezoning of the industrial area at Sheung Shui Area 4 from "I" to "Other Specified Uses" annotated "Business" ("OU(B)") with stipulation of building height restriction.

# II. <u>Amendments to the Notes of the Plan</u>

- (a) Revision to the "R(A)" zone to revise 'Public Vehicle Park (excluding container vehicle) (on land designated "R(A)1", "R(A)4" and "R(A)5" only)' to 'Public Vehicle Park (excluding container vehicle) (on land designated "R(A)1", "R(A)4", "R(A)5", "R(A)7", "R(A)9", "R(A)10" and "R(A)11" only)' under Column 1.
- (b) Revision to the Remarks for the "R(A)" zone to incorporate development restrictions and requirements for all sub-zones.
- (c) Incorporation of a new set of Notes for the "C" and "OU(B)" zones.
- (d) Revision to the Remark (a) for the "I" zone to delete the development restriction for Sheung Shui Area 4.

17 December 2021

Town Planning Board

# <u>List of Representers and Commenters</u> <u>in respect of the Draft Fanling/Sheung Shui Outline Zoning Plan No. S/FSS/25</u>

# I. List of Representers

Representation No. (TPB/R/S/FSS/25-)	Name of Representer	
R1	Kung Hei Investment Limited	
R2	The Hong Kong and China Gas Company Limited	
R3	John Douglas Moore	
R4	Melanie Ann Moore	
R5	Wilhelmina Evelyn Moore	
R6	Genevieve James Moore	
R7	Piter Lu	
R8	Mary Mulvihill	
R9	Wong Fung Chui Ling Cindy 黃馮翠玲	
R10	Chan Wai Yee Wendy 陳惠兒	
R11	Helen Yu	
R12	Wong Chun Keung 黃振強	
R13	Li Chun Ming Alexander	
R14	Ang Chiu Hak 洪朝霞	
R15	Ku Chiu Kwan Manfred	
R16	區錦成	
R17	梁國忠	
R18	MTR Corporation Limited	

# **II.** List of Commenters

Comment No. (TPB/R/S/FSS/25-)	Name of Commenter
C1	簡達和
C2	Mary Mulvihill

Annex IVa of <u>TPB Paper No. 10856</u>



Our Ref: S3005/SS\_WR/22/001Lg

16 February 2022

By Hand

Secretary, Town Planning Board 15/F, North Point Government Offices 333 Java Road North Point Hong Kong 規劃顧問有限公司

UNIT K. 16/F. MG TOWER 133 HOI BUN ROAD, KWUN TONG Kowloon, Hong Kong

PLANNING LIMITED

九龍觀塘海濱道133號 萬兆豐中心16樓K室

電話TEL (852) 3426 8451 傳真FAX (852) 3426 9737 電郵EMAIL kta@ktaplanning.com

Dear Sir/Madam,

#### Submission of Written Representation in respect of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 In relation to Amendment Item D4 – Rezoning Sheung Shui Area 4 from "I" to "OU(B)" with a maximum BH of 75mPD at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui

On behalf of Kung Hei Investment Limited, we submit herewith an original copy of the completed Application Form No. S6 and 90 sets of Written Representation for the consideration of the Town Planning Board. An authorization letter and a completed "Particulars of "Representer" and Authorized Agent" are also enclosed with this letter.

Meanwhile, should you have any queries in relation to the above please do not hesitate to contact the undersigned or Ms Sylvia Lam at **Exception** 

Yours faithfully For and on behalf of KTA PLANNING LTD

David FOK

Encl. cc. the Representer



For Official Use	Reference No. 檔案編號	
Only 注勿按宜止期	Date Received	
請勿填寫此欄	收到日期	

1. The representation should be made to the Town Planning Board (the Board) before the expiry of the specified plan exhibition period. The completed form and supporting documents (if any) should be sent to the Secretary, Town Planning Board, 15/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong.

申述必須於指定的圖則展示期限屆滿前向城市規劃委員會(下稱「委員會」)提出,填妥的表格及支持有關申述的文件(倘有),必須送交香港北角渣華道 333 號北角政府合署 15 樓城市規劃委員會秘書收。

2. Please read the "Town Planning Board Guidelines on Submission and Publication of Representations, Comments on Representations and Further Representations" before you fill in this form. The Guidelines can be obtained from the Secretariat of the Board (15/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong – Tel.: 2231 4810 or 2231 4835) and the Planning Enquiry Counters of the Planning Department (Hotline: 2231 5000) (17/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong and 14/F., Sha Tin Government Offices, 1 Sheung Wo Che Road, Sha Tin, New Territories), or downloaded from the Board's website at <a href="http://www.info.gov.hk/tpb/">http://www.info.gov.hk/tpb/</a>.

填寫此表格之前,請先細閱有關「根據城市規劃條例提交及公佈申述、對申述的意見及進一步申述」的城市規劃委員會規劃指引。 這份指引可向委員會秘書處(香港北角渣華道333號北角政府合署15樓 - 電話: 2231 4810或2231 4835及規劃署的規劃資料查詢處(熱 線: 2231 5000)(香港北角渣華道333號北角政府合署17樓及新界沙田上禾輩路1號沙田政府合署14樓)索取,亦可從委員會的網 頁下載(網址: http://www.info.gov.hk/tpb/)。

- 3. This form can be downloaded from the Board's website, and obtained from the Secretariat of the Board and the Planning Enquiry Counters of the Planning Department. The form should be typed or completed in block letters, preferably in both English and Chinese. The representation may be treated as not having been made if the required information is not provided. 此表格可從委員會的網頁下載,亦可向委員會秘書處及規劃署的規劃資料查詢處索取。提出申述的人士須以打印方式或以正楷填寫 表格,填寫的資料宜中英文兼備。 倘若未能提供所需資料,則委員會可把有關申述視為不曾提出論。
- Person Making this Representation (known as "Representer" hereafter) 提出此宗申述的人士 (下稱「申述人」)

Full Name 姓名 / 名稱 (Mr.-/Ms./Company/Organisation\* 先生/女士/公司/機構\*)

Kung Hei Investment Limited

(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交,須填上與香港身份證/護照所載的全名)

#### 2. Authorised Agent (if applicable) 獲授權代理人(如適用)

Full Name 姓名 / 名稱 (Mr./ Ms./Company/Organisation\* 先生/女士/公司/機構\*)

KTA Planning Limited

(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交,須填上與香港身份證/護照所載的全名)

#### 3. Details of the Representation 申述詳情

Draft plan to which the representation relates (please specify the name and number of the draft plan) 與申述相關的草圖 (請註明草圖名稱及编號)

Draft Fanling/Sheung Shui Outline Zoning Plan No. S/FSS/25

\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「 不適用 」

<ol> <li>Details of the Representation (Continued) (use separate sheet if necessary)<sup>#</sup> 申述詳情(續) (如有需要,請另頁說明)<sup>#</sup></li> </ol>							
Nature of and reasons for the representation 申述的性質及理由							
Subject matters 有關事項 <sup>@</sup>	Are you supporting or opposing the subject matter? 你支持還是反對有關事項?	Reasons 理由					
Amendment Item D4 - Rezoning Sheung Shui Area 4 from "I" to "OU(B)" with maximum building height of 75mPD	□ support 支持 ✓ oppose 反對	Please refer to the attached Written Representation.					
	<ul> <li>□ support 支持</li> <li>□ oppose 反對</li> </ul>						
Any proposed amendments to 對草圖是否有任何擬議修訂	support 支持 oppose 反對 the draft plan? If yes, please spa 如有的話,請註明詳情。	ecify the details.					
Please refer to the attached Written Representation.							
4 <u>Farmatica</u> 3	# If supporting documents (e.g. colour and/or large size plans, planning studies and technical assessments) is included in the representations.						

90 copies (or 40 hard copies and 50 soft copies) of such information shall be provided. 若申述附有支持其論點的補充資料(例如彩色及/或大尺寸的圖則、規劃研究及技術評估),則須提供 90 份複本(或 40 份印文本和 50 份電子複本)。

② Dise 1 设本)
② Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目編號。

Please fill "NA" for not applicable item 請在不適用的項目填寫「不適用」 ☑ at the appropriate box 請在適當的方格內加上 ☑ 號



Our Ref: 144-54-00-701-EW/OY/cl-2022-P0194

11 February 2022

KTA Planning Limited Unit K, 16/F, MG Tower 133 Hoi Bun Road Kwun Tong

Attn: Mr. David Fok

Dear Sir,

Submission of Written Representation in respect of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 In relation to Amendment Item D4 - Rezoning Sheung Shui Area 4 from "I" to "OU(B)" with a maximum BH of 75mPD at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui

We are pleased to appoint KTA Planning Limited (KTA) as the Planning Consultant to prepare and submit the above Written Representation relating to the Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/FSS/25 on our behalf. KTA are hereby authorized to liaise and correspond with relevant Government Departments regarding the captioned Written Representation.

Yours faithfully

For and on behalf of Kung Hei Investment Limited Authorized Signature(s)

#### KUNG KEI INVESTMENT LIMITED

3/F, One Harbourfront, 18 Tak Fung Street, Hunghom, Kowloon, Hong Kong 香港九龍紅磡德豐街18號海濱廣場一座3樓 Tel 電話 +852 2128 7500 Fax 傳真 +852 2128 7888

# WRITTEN REPRESENTATION

February 2022

Representer: Kung Hei Investment Limited

Planning Consultant & Submitting Agent: KTA Planning Limited

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PLANNING LIMITED 規劃顧問有限公司

#### Executive Summary

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This Written Representation is prepared and submitted on behalf of Kung Hei Investment Limited (the "Representer"), under Section 6(1) of the Town Planning Ordinance ("TPO") in relation to the Draft Fanling/Sheung Shui Outline Zoning Plan (the "Draft OZP") No. S/FSS/25 gazetted on 17 December 2021.

The representation is made with regard to Amendment Item D4 to the Matters shown on the Draft OZP, which is related to the rezoning of the Subject Site at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui ("the Representation Site"/ "the Site") from "Industrial" ("I") into "Other Specified Uses" annotated "Business" ("OU(B)") with stipulation of plot ratio restriction of 5 and building height restriction of 75mPD.

Having reviewed the changing planning circumstances in the surrounding areas of Sheung Shui Area 4 and in the metropolitan context, the Representer, being the owner of the Representation Site, considered the redevelopment of the existing industrial building at the Site would serve a good initiative from the private sector to facilitate the functional land use transformation of the North District to align with the strategic directions for the prospective comprehensive commercial/residential development in Lo Wu/Man Kam To Comprehensive Development Node put forward under the Northern Metropolis Development Strategy.

To enable a composite residential development in the emerging mixed-use 'living circle' in the vicinity of the Site, the Representer puts forward a proposed rezoning from "I" to "Residential (Group E)" ("R(E)") with a proposed domestic PR of 5 and a non-domestic PR of 0.5, subject to the same building height restrictions of 75mPD set out for the adjoining "OU(B)" zone.

The indicative development scheme for the proposed composite residential development with a domestic plot ratio of 5 and a non-domestic plot ratio of 0.5 with a maximum building height at 75mPD is feasible under the proposed "Residential (Group E)" zoning for the Representation Site.

The Representation is fully justified with the following grounds:

- The proposal will synergise with the Government's Northern Metropolis Development Strategy in unleashing potential for residential/commercial development in the North District;
- The site is suitable for composite residential development;
- The proposed "R(E)" zoning is in line with the transformation of Sheung Shui Industrial Area into a mixed-use neighbourhood;
- The proposed composite residential development will continue to comply with the building height restriction on the draft OZP;
- In support of Government's on-going policy on increasing supply of flats to meet the imminent housing demand; and
- The proposed rezoning will not cause/subject to adverse environmental, traffic and sewerage impact.

In view of the above, the Board is kindly requested to recognise the potential redevelopment opportunity of the Site for composite residential development by:

Rezoning the Subject Site to "Residential (Group E)" zone (with a maximum Plot Ratio of 5.5, in which a maximum plot ratio of 5 shall be for domestic use and a maximum plot ratio of 0.5 shall be for non-domestic use, and a maximum building height of 75mPD.)

#### 行政摘要

(內文如有差異,應以英文版本為準)

這份申述書是代表申述人 Kung Hei Investment Limited 就《城市規劃條例》第 6(1)條有 關於 2021 年 12 月 17 日刊憲的粉嶺/上水分區計劃大綱草圖編號 S/FSS/25(大綱草圖) 擬備及遞交的。

申述人反對就圖則所顯示的事項作出的「修訂項目」D4項,把位於上水上水第4區嘉 富坊6號的「申述地點」,由「工業」地帶改劃為「其他指定用途(商貿)」地帶, 以及容許相關之地積比率限制為5倍及主水平基準上75米的建築物高度限制。

在審視了上水第4區周邊地區和都會環境不斷變化的規劃環境後,申述人作為申述地點的業主,認為重建申述人作為申述地點的現有工業大廈是一個正面舉措,協助推動北區的土地用途轉型,以配合《北部都會區發展策略》下建設羅湖/文錦渡綜合發展樞紐附近土地的未來綜合商住發展的策略方向。

申述人提出把申述書提出把申述地點「工業」地帶改劃為「住宅(戊類)」地帶,作 綜合住宅發展,以配合在申述地點周邊逐漸成形的混合用途「生活圈」。建議總地積 比率為 5.5 倍(住用地積比率 5 倍;非住用地積比率 0.5 倍),而最高建築物高度為主 水平基準上 75 米,與相鄰的「其他指定用途(商貿)」地帶的建築高度限制相同。

此申述書的理據包括以下各點:

- 發展方案將配合政府的《北部都會區發展策略》,釋放北區土地的住宅/商業發展潛力;
- 申述地點適合作綜合住宅發展;
- 建議的「住宅(戊類)」地帶有助推動上水工業區轉型為混合用途社區;
- 擬議的綜合住宅發展將繼續符合大綱草圖列明的建築高度限制;
- 符合政府現時推行的增加房屋供應政策;
- 擬議的改劃不會帶來或受到環境、交通和排污影響。

鑑於以上理據,申述人促請城規會考慮申述地點的綜合住宅發展潛力,對粉嶺/上水 分區計劃大綱草圖的建議修訂:

將申述地點改劃為「住宅(戊類)」,並把該地帶的最高地積比率訂為5.5倍, 其中住宅地積比率上限為5倍,非住宅地積比率上限為0.5倍,而最高建築物高 度則為主水平基準以上75米。

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- 4.3 The Proposed "R(E)" Zoning is in Line with the Transformation of Sheung Shui Industrial Area into a Mixed-Use Neighbourhood
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### 1. INTRODUCTION

#### 1.1 Purpose

1.1.1

The Written Representation is prepared and submitted on behalf of Kung Hei Investment Limited (the "Representer"), under Section 6(1) of the Town Planning Ordinance ("TPO") in relation to the Draft Fanling / Sheung Shui Outline Zoning Plan (the "Draft OZP") No. S/FSS/25 gazetted on 17 December 2021. The Representation Site (the Site) is located at 6 Ka Fu Close (Fanling Sheung Shui Town Lot 97) (**Figure 1.1** refers).

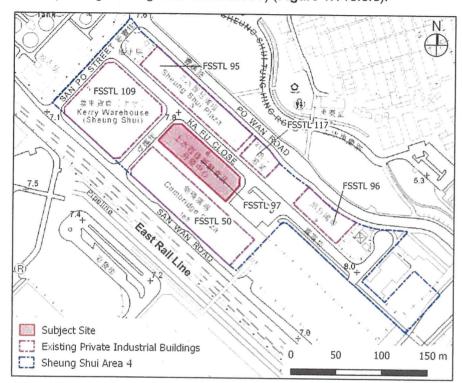


Figure 1.1 Location Plan of Subject Site in Sheung Shui Area 4

1.2 The Particular Matters to which this Representation Relate

1.2.1 This representation is made with regard to

(i) Amendment Item D4 to the Matters shown on the Draft OZP, which is:

Item D4 – Rezoning Sheung Shui Area 4 from "I" to "OU(B)" with a maximum Building Height (BH) of 75mPD.

1.2.2 The Representer objects to the Draft Fanling / Sheung Shui Outling Zoning Plan No. S/FSS/25 in relation to the above-mentioned Amendment Item. The Representer urges the Town Planning Board (TPB) to recognise the potential redevelopment opportunity of the <u>Representation Site</u> for composite residential development and propose the following further amendments to the Draft OZP:

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Rezoning the Representation Site to "Residential (Group E)" zone (with a maximum Plot Ratio of 5.5, in which a maximum plot ratio of 5 shall be for domestic use and a maximum plot ratio of 0.5 shall be for nondomestic use, and a maximum building height of 75mPD.)

#### 1.3 Report Structure

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Following this introductory section, the proposed zoning of the Site in the Draft OZP and the planning context of the Site and its surrounding will be briefly set out in **Section 2**. The indicative development scheme is included in **Section 3**. **Section 4** will provide the grounds and justifications of this representation while the proposed amendments to the Draft Fanling / Sheung Shui OZP are outline at **Section 5**.

#### 2. THE SITE AND PLANNING CONTEXT

#### 2.1 Site Location, Existing Use and Land Status

- 2.1.1 The Representation Site is located at FSSTL 97 at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui. The Site is bounded by Ka Fu Close to its north-east, Cheung Wan Street to its north-west, an industrial building namely Cambridge Plaza to its south-west and a public vehicle park to its south-east respectively. The planned public housing development in Sheung Shui Area 4 (Site 2) is located about 60m to the south-east of the Site.
- 2.1.2 The Representation Site has a site area of about 3,041m<sup>2</sup> and an existing plot ratio of 4.439<sup>1</sup>. It is currently occupied by a 6-storey industrial building for the use of cold storage, workshop and ancillary office, namely Park'n Shop Sheung Shui Fresh Food Distribution Centre, completed in July 1991. The subject building is currently under single ownership of the Representer. Existing vehicular run-in and run-out the Site is provided on Ka Fu Close. **Figures 2.1 to 2.3** present the existing condition of the Site and the adjacent developments in Sheung Shui Area 4.



# Figure 2.1 View of the Representation Site from Ka Fu Close (Photo taken on 30 January 2022)

<sup>1</sup> According to Approved General Building Plan for the subject building (BOO Ref. 9360-89)

Written Representation

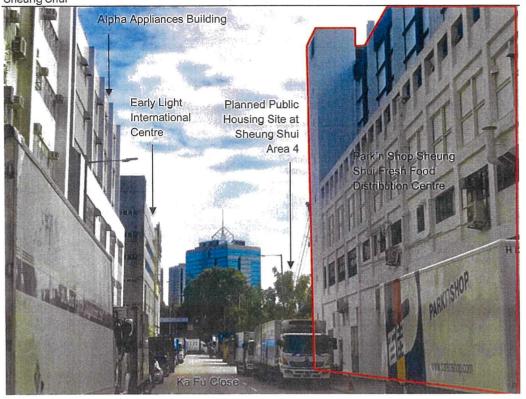


Figure 2.2 View of the Representation Site and the surrounding developments from Ka Fu Close (*Photo taken on 30 January 2022*)



Figure 2.3 View of the Representation Site and the surrounding developments from southern site boundary (*Photo taken on 30 January 2022*)

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# 2.2 Transformation of the Surrounding Area

2.2.1 The surrounding areas of the Representation Site is characterised by an urban locality which has been undergoing gradual transformation from a predominantly industrial area in the late 1980s to a mixed use neighbourhood, intermingled with industrial buildings, commercial buildings, Government, Institution and Community ("GIC") facilities and planned residential developments, (**Figure 2.4** refers).

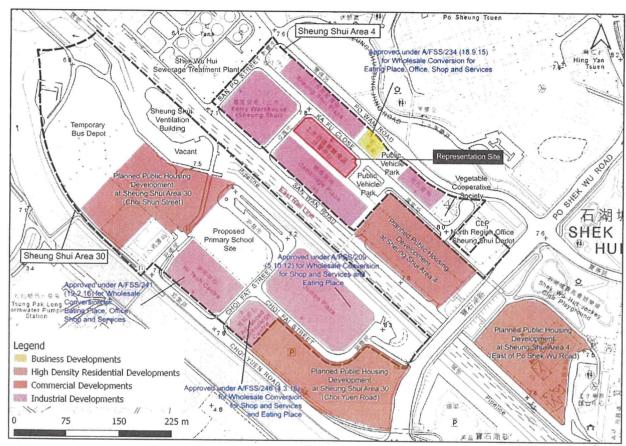


Figure 2.4 Land Use Pattern of the Emerging Mixed Use Neighbourhood in Sheung Shui Areas 4 and 30

#### *Transformation for Business and Commercial Uses via Wholesale Conversion of Industrial Buildings*

2.2.2

The trend of wholesale conversion in the adjoining area of the Representation Site is well-observed from past planning application records. Alpha Appliances Building, located to the north-east of the Representation Site along Ka Fu Close, has obtained planning permission (under Planning Application No. A/FSS/234) in 2015 for wholesale conversion for non-industrial uses including office, eating place and shop and services uses with a total non-domestic GFA of 4,647 sq.m. In addition, the trend of land use transformation for non-industrial uses in the surroundings is evidenced by 3 other industrial building sites in the

Written Representation

adjacent Sheung Shui Area 30 undergoing different stages of wholesale conversion for eating place, office and shop and services uses (approved under Planning Application Nos. A/FSS/209, A/FSS/241, A/FSS/246) involving a total of about 73,200 sq.m floorspace.

#### Transformation for Residential Uses -

Government's Recent Proposal on Rezoning Sites in Sheung Shui for Residential Uses Transformation for Residential Uses

It was affirmed in the 2014 Policy Address that the Government would continue to actively conducting land use reviews and undertaking procedures to rezoning sites as appropriate for residential use. In this regard, some potential housing sites in Sheung Shui were identified in the land use review to materialize the Government's policy directives in increasing land supply for housing development in a persistent manner.

The Government's proposals have been reflected on the recent rounds of amendments to rezone various Government land parcels in Sheung Shui for residential uses in the proposed amendments to Fanling/Sheung Shui OZPs in 2019 and 2021, involving 4 nos. of public housing sites with domestic PR of 6 to 6.5 in close vicinity of the Representation Site (**Figure 2.4** and **Table 2.1** refers).

Ref.	Location	Original Zoning	Present Zoning	Plot Ratio	Site Area (in ha) (about)	No. of Units (about)		
1	Choi Shun Street, Sheung Shui Area 30		R(A)11	Domestic 6.5 Non-domestic 0.2	1.96ha	2,400		
2 (*)	Sheung Shui Area 30 Site	I	R(A)4	Domestic 6.5 Non-domestic 0.6	1.44ha	2,088		
3 (*)	Sheung Shui Area 4 Site	1	R(A)4	Domestic 6.5 Non-domestic 0.6	1.13ha	1,556		
4	East of Po Shek Wu Road, Sheung Shui Area 4	0	R(A)5	Domestic 6 Non-domestic 0.9	1.38ha	1,800		

Table 2.1 Planned Housing Sites in the Vicinity of the Representation Site

**Remarks: (\*)** The planned public housing developments at Sheung Shui Areas 4 and 30 Site are subject to a S.16 planning application No. A/FSS/280 approved by the TPB in May 2021 for minor relaxation of plot ratio restriction from a total PR of 6.6 (Domestic PR 6+ Non-domestic PR 0.6) to a total PR of 7.1 (Domestic PR 6.5+ Non-domestic PR 0.6)

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There is no doubt that the Sheung Shui Areas 4 and 30 are gradually transforming into a mixed use neighbourhood with industrial, commercial and residential developments.

Total No. of Units: about 7,844

- 2.3 Prevailing Proposed Amendments in Relation to the Site on the Draft OZP
- 2.3.1 The Sheung Shui Areas 4 had been zoned "Industrial" ("I") on the draft Fanling/Sheung Shui OZP No. S/FSS/1 in October 1987 and the the subsequent Fanling/Sheung Shui OZPs. It was subject to development restrictions of a maximum plot ratio (PR) of 5 and a maximum building height (BH) of 25m.
- 2.3.2 Having in view of recommendations under the latest 2020 Area Assessments of Industrial Land in the Territory with the purpose to facilitate land use restructuring and address the potential industrial/residential interface problems, the subject Sheung Shui Area 4 comprising 6 nos. of industrial buildings are proposed to be rezoned from "Industrial" to "Other Specified Uses" annotated "Business" ("OU(B)") subject to a maximum plot ratio of 5 and a building height restriction of +75mpD.
- 2.3.3 According to the Draft Fanling / Sheung Shui Outline Zoning Plan ("OZP") No. S/FSS/25 (the Draft OZP), the Representation Site is rezoned from "I" to "OU(B) (Figure 2.5 refers). The statutory notes of the Draft OZP stipulates that the "OU(B)" zone is "*intended primarily for general business* uses. A mix of information technology and telecommunications industries, non-polluting industrial, office and other commercial uses are always permitted in new "business" buildings" and "less fire hazard-prone office use that would not involve direct provision of customer services or goods to the general public is always permitted in existing industrial or industrialoffice buildings".
- 2.3.4 According to the Explanatory Statement of the Draft OZP, the subject "OU(B)" zone is intended "to control the building density and avoid overdevelopment and the "OU(B)" zone "is restricted to a maximum nondomestic plot ratio of 5.0 and the maximum building height in terms of metres above Principal Datum as stipulated on the Plan (viz. +75mPD) or the plot ratio and the height of the existing building, whichever is the greater."
- 2.3.5 In conjunction with the rezoning proposal, PlanD has undertaken a review on the BH restriction of the industrial area. Having regards to the changes in planning circumstances brought by the planned Kwu Tung North/Fanling North New Development Areas (KTN/FLN NDAs) and the planned public housing developments (with maximum BH of +130mPD to +160mPD) in the surroundings, the BH restriction for the subject "OU(B)" zone is relaxed from 25m to +75mPD (equivalent to about 65m above ground with site formation level at about 10mPD). It is understood that the relaxation of BH would enable a greater flexibility to incentivise building conversion/ redevelopment for the other gainful land uses with more spacious street environment.

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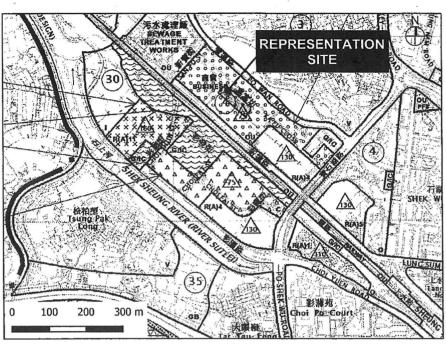


Figure 2.5 Statutory Zoning of the Representation Site on the Draft Fanling / Sheung Shui OZP No. S/FSS/25

#### Government's Determination on Increasing Housing Supply

In response to the acute shortage of land supply, the Government has put strong emphasis on increasing supply of housing land in recent years to resolve the housing and land problems in Hong Kong. Major policies to expedite, in particular, the short to medium term land supply for private housing are as follows:

Multi-pronged Approach to Increase Land Supply for Housing

It has been the Government's Policy since 2013 to increase land supply to meeting housing needs of Hong Kong through a multi-pronged approach with short, medium and long term measures. The short term measures include optimising the use of developed land as far as practicable through reviewing land uses and rezoning sites with development potential to untap the development potential of land and increasing development intensity wherever appropriate.

2.4.3 The Task Force on Land Supply (the "Task Force") was established in September 2017 with a view to making recommendations to the overall land supply strategy and prioritising different land supply options for the Government. The Task Force submitted the final report to the administration on 31 December 2018 for consideration. The report opined that the actual land shortfall may be much higher than 1,200 ha and there will be an acute shortage of land for housing (about 108 ha) in the short

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> term. As such, the Task Force suggests giving priority to studying and implementing 8 land supply options and that no short-to-medium options should be given up lightly unless there are strong justifications. Tapping into private agricultural land reserve in the New Territories is one of the three short-to-medium term supply options suggested by the Task Force after wide consultations with the public. On 20 February 2019, the Government announced that it fully endorses the recommendations rendered by the Task Force on land supply strategy.

2.4.4 As discussed in paragraph 2.2.4 above, 4 sites in Sheung Shui Areas 4 and 30 were identified as housing sites providing over 7,800 number of units.

# 2.5 Government's Latest Strategic Directions in the North District under the Northern Metropolis Development Strategy

- 2.5.1 The Northern Metropolis Development Strategy ("Development Strategy") put forward by the Chief Executive in the 2021 Policy Address offers strategic directions, spatial concepts, and planning principles with a vision to develop Hong Kong into a promising metropolitan area to live in, work and travel. Geographically speaking, the Development Strategy proposes to expand the Northern Economic Belt under the Hong Kong 2030+ to cover existing new towns in Yuen Long, Tin Shui Wai and Fanling/Sheung Shui, various NDAs and development nodes in different planning and construction stages as well as their neighbouring suburban and rural areas, with the purpose to consolidate the above into a holistic metropolis with a total area of 30,000 hectares.
- 2.5.2 North District is one of the district administration areas falling within the Northern Metropolis. The Representation Site is strategically located given its location in the North District with proximity to the surrounding action areas under *Key Action Direction (3) and (4), consideration has been given to extend the Northern Link eastwards by constructing the future railway stations between Lo Wu South and On Lok Tsuen to form a railway link connecting the strategic development nodes in the Kwu Tung North/ Fanling North NDA, Man Kam To Development Corridor and New Territories North New Town. In parallel, a new Lo Wu/ Man Kam To Comprehensive Development Node is proposed in land parcels which span across the proposed Lo Wu South Station to the Man Kam To Control Point and Lo Shue Ling.*
- 2.5.3 As illustrated in **Figure 2.6**, the Representation Site is located about 425m south of the proposed Lo Wu/ Man Kam To Comprehensive Development Node (LW/MKT CDN), which has been identified for commercial/residential development. With comprehensive/residential development likely dricven by the enhanced provision of railway services, it is timely to undertake planning review for the land uses in the surroundings and consider suitable

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locations of railway extension for more convenient and efficient railway services such that development potential can be unleased for developing the LW/MKT CDN, thereby substantially increasing the housing supply in the long run.

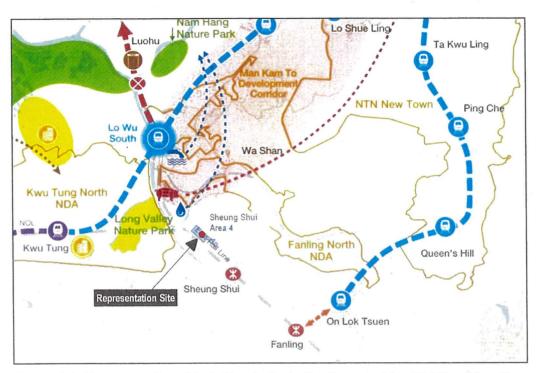


Figure 2.6 Representation Site in Proximity to the Proposed Lo Wu/ Man Kam To Comprehensive Development Node and Eastern Extension of Northern Link under the Northern Metropolis Development Strategy

Based on the figure on P.48 of the "Report on Northern Metropolis Development Strategy" published on 6 October 2021

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#### 3. INDICATIVE DEVELOPMENT SCHEME

- 3.1 Proposed Amendment to Rezone the Representation Site from "I" to "R(E)"
- 3.1.1 Having reviewed the changing planning circumstances in the surrounding areas of Sheung Shui Area 4 and the metropolitan context, the Representer, being the owner of an existing industrial building at the Representation Site, considered the redevelopment of the Site would serve a good initiative from the private sector to facilitate the functional land use transformation of the North District to align with the strategic directions for the prospective comprehensive commercial/residential development in LW/MKT CDN put forward under the Northern Metropolis Development Strategy.
- 3.1.2 This Representation puts forward a proposed rezoning from "I" to "R(E)" with a proposed domestic PR of 5 and a non-domestic PR of 0.5. In terms of land use compatibility and economic viability, the proposed "R(E)" zoning for the Representation Site will provide incentive for redeveloping the existing industrial building at the Representation Site (with an actual PR of 4.439) to enable a composite residential development to facilitate the local transformation into a mixed-use residential neighbourhood in a new 'living circle' in Sheung Shui. Under "R(E)" zoning, "Flat" is a column 2 use that would require further S16 Planning Application to enable the proposed composite residential development.

#### 3.2 Indicative Composite Residential Development

3.2.1

An indicative Development showing the proposed amendment of the Plan is illustrated in **Appendix 1**. Based on a total plot ratio ("PR") of 5.5 (Domestic PR: 5; Non-domestic PR: 0.5) and a site area of approximately 3,041sq.m, the indicative development yields a total Gross Floor Area ("GFA") of 16,725.50sq.m (Domestic GFA: 15,205 sq.m; Non-domestic GFA of 15,202.5sq.m). The proposed composite residential development at the Representation Site would be able to deliver about 304 residential units to accommodate an estimated population intake of about 882. Subject to the agreement by the TPB on the proposed "R(E)" zoning, the indicative development could be completed in late 2027.

- 3.2.2 The Indicative Development consists of 2 residential towers with 23 storeys (including 1 level of retail shop, 1 level of landscaped podium and 2 levels of basement). The proposed building height of the residential towers is about +75mPD, which will comply with the maximum BH permissible (i.e. +75mPD) under the "OU(B)" zoning of the Draft OZP.
- 3.2.3 Other ancillary facilities in the form of residential recreational facilities and landscape area are suitably proposed at the ground floor and podium level

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Table 2.4 Indianting David annout Calcadula

for enjoyment by the future residents. Retail facilities are proposed on ground floor with convenient access to visitors from the general public. Parking spaces and E&M facilities are located at the basement level.

	Table 3.1 Indicative Development Schedule						
	Key Parar	neters					
	Site Area (*)	3,041m <sup>2</sup>					
	Total PR	Not more than 5.5					
	Domestic PR	Not more than 5					
	<ul> <li>Non domestic PR</li> </ul>	Not more than 0.5					
	Total GFA	Not more than 16,725.5m <sup>2</sup>					
2	<ul> <li>Domestic GFA <sup>(^)</sup></li> </ul>	Not more than 15,205m <sup>2</sup>					
	<ul> <li>Non domestic GFA</li> </ul>	Not more than 1,520.5m <sup>2</sup>					
	No. of Residential Units	About 304					
	Total No. of Blocks	2 Residential Towers					
	Average Flat Size	About 50m <sup>2</sup>					
	No. of Storeys	23 storeys					
	<ul> <li>Residential Tower</li> </ul>	19 storeys					
	<ul> <li>Landscaped Podium</li> </ul>	1 storey					
	Retail Shop	1 storey					
	<ul> <li>Basement</li> </ul>	2 storeys					
	Building Height (main roof)	+75mPD					
	Site Coverage	About 27.7%					
	Greenery Coverage	Not less than 20% of site coverage					
	Estimated Population (#)	About 882					

Remarks

(\*) Site Area is based on Approved General Building Plan

(#) The estimated population is derived by assuming 2.9 persons per flat as per the average household size in Fanling/ Sheung Shui New Town in the 2016 Population By-Census carried out by the Census and Statistics Department

#### 3.3 Key Design Considerations

3.3.1

3.3.2

It is the Representer's intention to demonstrate the feasibility of the redevelopment the Representation Site for proposed composite residential development with a prime objective in rejuvenating the mixed-use neighbourhood in Sheung Shui. The Indicative Development Proposal has taken into account of the following considerations:

#### Appropriate Development Intensity

The development intensity of the indicative development has been carefully devised to create a harmonious built form with the future developments in the adjacent "OU(B)" zone (subject to a maximum PR of 5 and building height of +75mPD) and the planned public housing developments in Sheung Shui Areas 4 and 30 (with domestic PR ranges from 6 to 6.5 and a non-domestic PR ranges from 0.2 to 0.9; and building height ranges from +130mPD and +160mPD).

3.3.3 In terms of BH, the indicative BH of the proposed residential composite development in the Representative Site is at +75mPD, which will be in line with the BH restriction of +75mPD stipulated in the adjoining "OU(B)" zone

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in Sheung Shui Area 4 on the Draft OZP. A stepped building height profile would be created with the adjacent public housing development at Sheung Shui Area 4 (**Figure 3.1** below refers). In terms of PR, a maximum total PR of 5.5 is proposed, of which a non-domestic PR of 0.5 is proposed for retail floor space of about 1,520.5 sq.m, providing spaces for necessary daily necessities in meeting the local needs.

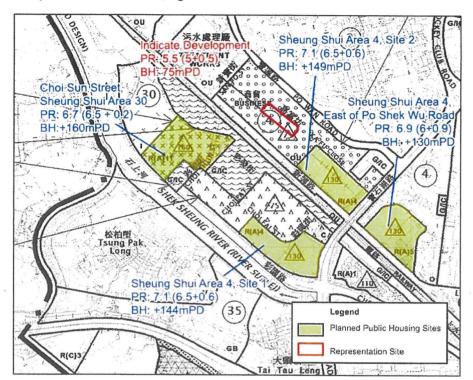


Figure 3.1 Development Intensity of the Proposed Indicative Development and Surroundings Planned Public Housing Sites

# Encourage Mixed-Use Development in the Neighbourhood

The proposal aims at encouraging a mixed-use development both within the Representation Site and the adjoining neighbourhood to promote a livelier ambience in the surrounding Sheung Shui Areas 4 and 30 under transformation. The formulation of an overall domestic PR of 5 and a nondomestic PR of 0.5 will encourage both residential uses and various compatible non-domestic uses in the indicative development. The indicative development will incorporate a continuous retail frontage of over 135m in length on the ground level along Ka Fu Close. The mixed-use development scheme will extend the activity hours to enrich the urban experience for those who live and work in Sheung Shui.

#### Single-level Podium Design

3.3.5

3.3.4

The indicative development will adopt a single-level podium design while maintaining a relatively low site coverage at about 27.7% for the residential towers above. Compared with the existing industrial building at the

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Representation Site with 90% actual site coverage, the indicative development represents an enhancement in the reduction of building bulk.

#### 3.4 Access Arrangement and Internal Transport Facilities Provision

3.4.1 The vehicular access to the indicative development will be located at Cheuk Wan Street at the south-western edge of the Representation Site. The location of the proposed vehicular access is shown diagrammatically in the Indicative Ground Floor Plan in **Appendix 1**. Internal transport facilities would be provided in accordance with the requirements as stipulated in the Hong Kong Planning Standards and Guidelines ("HKPSG"). The internal transport facilities provision for the indicative development is presented in **Table 3.2** below.

Table 3.2	Internal	Transpor	t Facilities	Provision
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Type of Facilities	Proposed Provision	
Private Car Parking Space	82	
Visitor Parking Space	5	
Loading/ unloading bay for goods vehicles	4	

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### 4.

#### GROUNDS AND JUSTIFICATIONS FOR THE REPRESENTATION

- 4.1 The Proposal will Synergise with the Government's Northern Metropolis Development Strategy in Unleashing Potential for Residential/ Commercial Development in North District
- 4.1.1 As announced in latest 2021 Policy Address, Government's Northern Metropolis Development Strategy proposes to make optimal use of the land by advocating the expansion of development in 10 key action directions. As illustrated in **Figure 2.6 above**, the Representation Site is located about 425m south of the proposed Lo Wu/ Man Kam To Comprehensive Development Node (LW/MKT CDN), which has been identified for commercial/residential development. The Representation Site is strategically located in the North District with proximity to the action areas under Key Action Direction (3) and (4). Under these Key Action Directions, the Northern Link is proposed to be extended eastwards to connect with Lo Wu, Man Kam To, New Territories North and Fanling to strengthen connections among different strategic development projects.
- 4.1.2 The indicative proposal in this Representation echoes with the Government's timely review of the land uses in the North District for eastern extension of the Northern Link and the land use potential to be unleased for commercial/residential in the surrounding development areas in the future Northern Metropolis.
- 4.1.3 Having reviewed the land use transformation potential of the surrounding, the Representer, being the owner of an existing industrial building (with existing PR of 4.439) at the Sheung Shui Area 4, considered the redevelopment of the Representation Site for composite residential use (with proposed domestic PR of 5 and non-domestic PR of 0.5) would serve as a positive initiative from the private sector to facilitate the functional transformation of the North District. The proposed "R(E)" zone for the subject Site will therefore align with the strategic directions for the prospective comprehensive commercial/residential development in LW/MKT CDN as envisaged under the Northern Metropolis Development Strategy.

#### 4.2 The Site is Suitable for Composite Residential Development

#### Land Use Compatibility

4.2.1 The Representation Site is conveniently located among various emerging mixed use neighbourhood in the surroundings of Sheung Shui Areas 4 and 30. As shown in **Figures 2.2 and 2.5** above, four of the planned public housing sites zoned "R(A)4", "R(A)5" and "R(A)11" located at the south-eastern fringe of the Sheung Shui Areas 4 and 30 are conveniently located within a 400m-radius of the Representation Site. The closest planned

public housing development is just about 60m away on the south-eastern side of the Representation Site.

#### Adequately Properly Industrial/Residential Interface Issue

- 4.2.2 Being located in a mixed use neighbourhood with existing industrial developments, the proposed composite residential development shall properly address potential industrial/residential interface issues, such as environmental noise and air quality issues.
- 4.2.3 The findings from the Environmental Assessment in **Appendix 3** have demonstrated that the indicative development are technically feasible given that suitable mitigation measures are in place to resolve the potential industrial/residential interface issue.

#### Potential Noise Impacts

As regards the fixed noise sources, some fixed plants are identified to the south, southwest and west of the Representation Site. Nevertheless, the lines of sight are blocked by the Kerry Warehouse (Sheung Shui) to the west and Cambridge Plaza to the south. Details of the mitigation for potential fixed noise impact, if any, could be further investigated when the detailed layout of the indicative composite residential development is available.

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In respect of road traffic noise impact, with the implementation of appropriate noise mitigation measures, including the installation of acoustic windows (baffle type) on the affected residential units along Ka Fu Close with potential noise exceedances, adverse road traffic noise impacts for the future residents of the proposed composite residential development are not anticipated. The working principle, tentative configuration and schedule of the noise mitigation designs are illustrated in **Figures 4.3a** and **4.3b** of the Environmental Assessment ("EA") in **Appendix 3**.

In addition, the potential railway noise impacts from the East Rail Line at the identified Noise Sensitive Receivers are evaluated. It is found that the maximum railway noise levels during night-time would comply with the noise criteria under the Noise Control Ordinance such that adverse railway noise impact at the future residents of the indicative development is not anticipated.

#### Potential Air Quality Impact

There are expected potential air quality impacts during operation phase due to vehicular emissions from surrounding roads and public vehicle park. The roads abutting the Representation Site (viz. Ka Fu Close and Cheuk Wan Road) are classified as 'Local Distributor' and 5m of buffer distances, measured from the road kerbs of the road, shall be provided for the fresh

air intake and active recreational uses. As shown in Figure 3.1 of the EA in **Appendix 3**, all air sensitive uses of the indicative development will be carefully positioned outside of the recommended buffer zone for the respective road types under the Hong Kong Planning Standards and Guidelines.

4.2.8 As regards industrial emission, desktop survey was conducted on 20 January 2022 to identify active chimney and odour within the Study Area. No chimneys were found within the 500m Study Area. Hence, adverse air quality impact on and from the indicative development is not anticipated.

#### Potential Odour Impact

4.2.9

The Shek Wu Hui Sewerage Treatment Works ("SWHSTW") is located at about 143m north-west to the Representation Site. Previous on-site measurement from the Final EIA Report for North East New Territories New Development Areas Planning and Engineering Study - Investigation of Agreement No. CE 61/2007 (CE), Shek Wu Hui Sewage Treatment Works is adopted as the basis to estimate the potential odour emission rates associated with the expanded SWHSTW. Referring to the contours of odour concentrations of SWHSTW at ground level (1.5m above ground) and worst hit level (55m above ground) from the EIA Report (Appendix 3.1 in the EA in **Appendix 3** refers), the Representation Site is not within the 5OU non-compliance zone at 55m above the ground. It is concluded that no adverse odour impact within the Project Site is anticipated due to the SWHSTW from 2011 to after the completion of the planned expansion.

#### Further Review under S16 Planning Application Procedures

- Under the proposed "R(E)" zoning, the environmental acceptability of any future residential development at the Representation Site would be guaranteed subject to the consideration of detailed assessments by Government Departments and TPB in subsequent S16 Planning Application(s). Details of the mitigation measures for potential environmental impacts shall be further scrutinised and designed when the detailed layout of residential development is available in future S16 planning application stage.
- 4.3

4.3.1

4.2.10

The Proposed "R(E)" Zoning is in Line with the Transformation of Sheung Shui Industrial Area into a Mixed-Use Neighbourhood

Having reviewed the changing surrounding land use context with "R(A)", "OU(B)", "C" and "G/IC" zones discussed in **Section 2**, a "R(E)" zoning is considered appropriate for the proposed composite residential development at the Representation Site located, which is intended "*primarily for phasing out of existing industrial uses through redevelopment for residential use on application to the Town Planning Board*". In addition, it is stated that "*whilst existing industrial uses will be tolerated, new* 

Written Representation

industrial developments are not permitted in order to avoid perpetuation of industrial/residential interface problem".

4.3.2 In terms of functional transformation, the planned public housing sites along Po Shek Wui Road and Choi Yuen Road, together with a number of old industrial developments undergoing wholesale conversion stages for business/commercial uses, will form a new "living circle" serving an emerging mixed-use neighbourhood in Sheung Shui Areas 4 and 30. To enable the proposed composite residential development at the subject Site, it is considered appropriate to rezone the subject Site from to "R(E)" to gradually phase out the existing industrial operations and to facilitate a changing character of the immediate area from industrial to a mixed-use neighbourhood.

# 4.4 The Proposed Composite Residential Development Will Continue to Comply with the Building Height Restriction on the Draft OZP

- 4.4.1 PlanD has recently stipulated a more "relaxed" building height restriction of +75mPD (vs 25m in the previous OZP) for the subject site and the building height review is justified by the Government's latest visual appraisal and Air Ventilation Assessment report. The building height of indicative development at the Representation Site is therefore proposed to be within +75mPD in order to ensure that the resultant residential development would visually integrate with the overall building height profile stepping down from the high-rise commercial and residential developments in the southeast to the low-rise village settlements of Sheung Shui Heung in the north, with a view to avoid creating adverse visual and air ventilation impacts on the surrounding areas.
- 4.4.2

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The indicative development with a building height of about 75mPD is formulated in accordance with the maximum building height of 75mPD stipulated under the "OU(B)" zone on the Draft OZP. Aiming to optimise the building bulk, all of the car parking spaces and the majority of E&M facilities will be accommodated in the basement level. As efforts have been made to comply with the building height restriction of the draft OZP, the proposed building height for the new "R(E)" zone is considered reasonable.

4.5

4.5.1

# In Support of Government's On-going Policy on Increasing Supply of Flats to Meet the Imminent Housing Demand

In view of the continued tight supply of developable land in Hong Kong and the acute housing shortage in short-to-medium term, addressing the land shortage has been an urgent priority for many terms of government. The Government has continued to adopt a multi-pronged strategy to increase land supply on a sustained basis at full steam. Government's determination on increasing housing supply has been reflected in the recent attempts to

Written Representation

rezone 6 nos. of potential sites in Sheung Shui for planned public housing developments.

4.5.2 The Representative Site falls under the sole ownership of the Representer. The indicative development is self-contained in terms of provision of vehicular access, internal transport facilities, open space and landscape area. Under the Indicative Development Proposal, the proposed rezoning of the Representation Site for residential use can make way for about 304 housing units that could be made readily available in the short to medium term. The subject representation is therefore in line with the Government's policy and contribute to meet the imminent housing need. The current rezoning proposal is on exactly the same path as the Government's proposal to make the maximal use of the scarce urban land resources available.

#### 4.6 No Adverse Traffic Impact

4.6.1

A Traffic Impact Assessment ("TIA") has been conducted to assess the impact of the proposed composite residential development at the Representation Site onto the surrounding road network and is annexed at **Appendix 4** of this Written Representation. The assessment results in Table 5.1 in the TIA confirmed that all identified critical junctions for design scenarios in 2030 will operate with ample capacities.

- 4.6.2 In particular, taking into account of the junction improvement scheme carried out by Civil Engineering and Development Department under Kwu Tung North and Fanling North New Development Area (NDA) Project for Po Shek Wu Interchange, which provides a flyover to allow the right turning traffic from Po Shek Wu Road southbound to Fanling Highway westbound to bypass the existing Junction E and F (i.e. Po Shek Wu Road/ Choi Yuen Road and Po Shek Wu Road/ Fan Kam Road/ Fanling Highway), the junction performance would be greatly improved in future.
- 4.6.3 With the planned traffic improvement works, all assessed junctions will have adequate capacity to serve area including the indicative. It is demonstrated that the traffic generated by the proposed development significant traffic impact to the local and can be absorbed by the nearby road network in the vicinity.

#### 4.7 No Adverse Sewerage Impact

4.7.1 Same as the existing industrial building, the sewage generated from the indicative composite residential development would be directed to the sewer manhole at Ka Fu Close in the existing sewerage system. Review of the potential sewerage impact of the proposed composite residential development in the Sewerage Impact Assessment ("SIA") in Appendix 5 demonstrated that the estimated total sewage discharge from the operation of the indicative composite residential development (i.e. 252.9m<sup>3</sup>)

Written Representation

> per day) would be smaller than that of an assumed business development for office, retail and restaurant uses with PR 5 under the "OU(B)" zone (i.e. 362.1m<sup>3</sup> per day). Hence, adverse impacts on the existing sewerage system from the indicative composite residential development is not anticipated.

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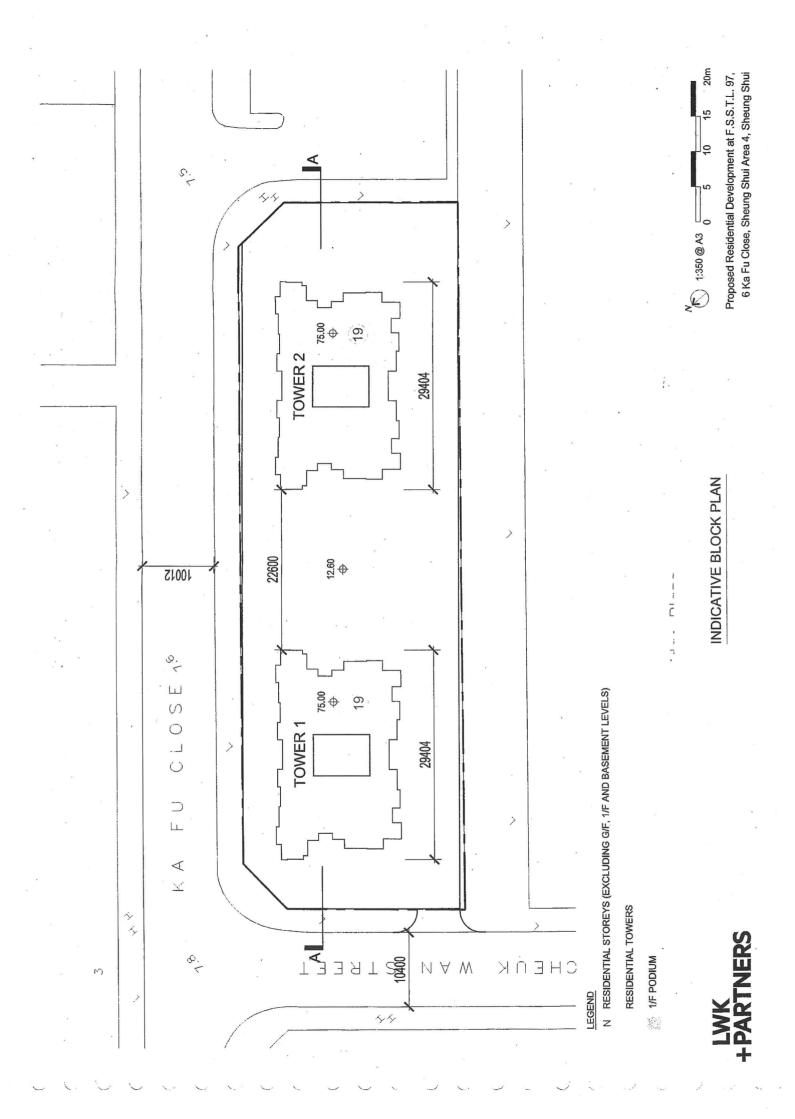
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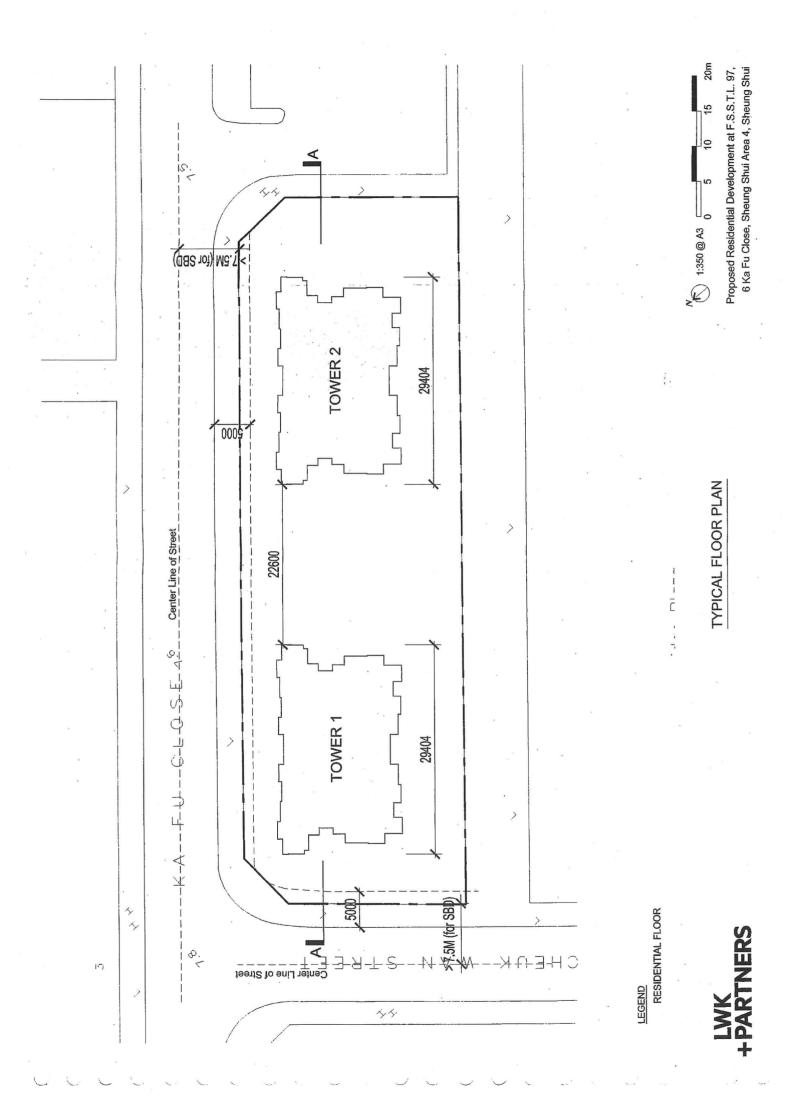
# 5. PROPOSED AMENDMENTS TO THE DRAFT FANLING/SHEUNG SHUI OUTLINE ZONING PLAN

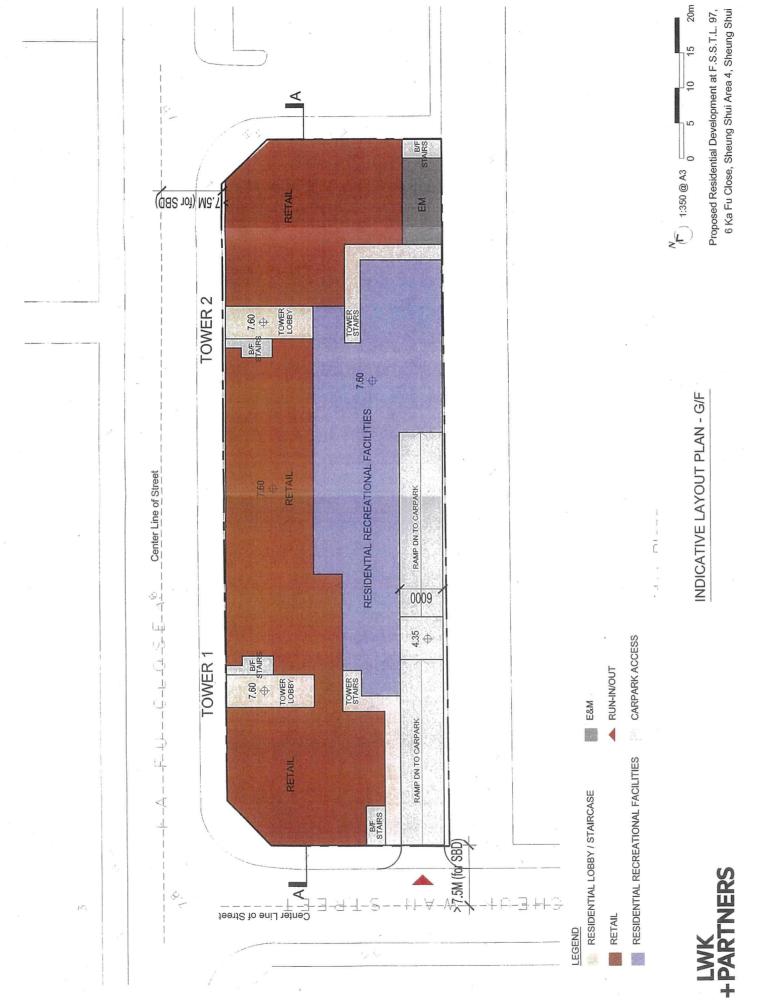
- 5.1 In view of all of the above, the Representer will withdraw its objection to the Draft Fanling/Sheung Shui Outline Zoning Plan No. S/FSS/25 subject to TPB's agreement on the following amendments:
  - Recognise the Potential Redevelopment Opportunity of the <u>Site</u> for Composite Residential Development by:
    - Rezoning the Subject Site to "Residential (Group E)" zone (with a maximum Plot Ratio of 5.5, in which a maximum plot ratio of 5 shall be for domestic use and a maximum plot ratio of 0.5 shall be for non-domestic use, and a maximum building height of 75mPD.)

# **Appendix 1**

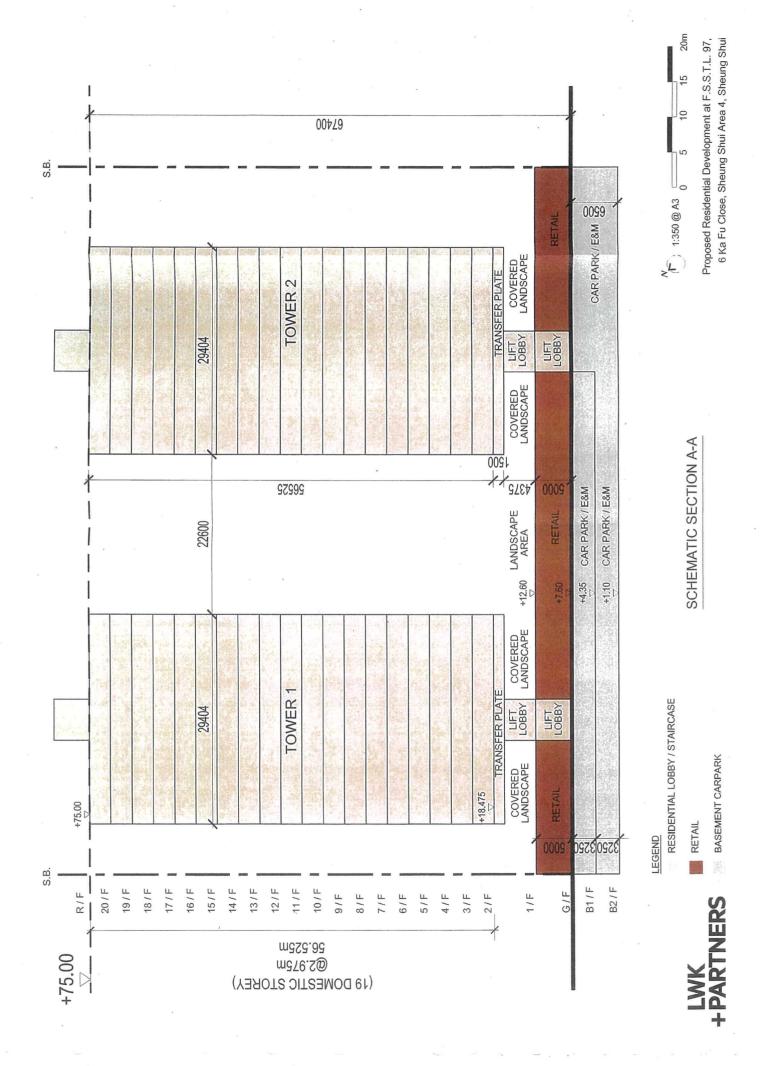
# **Indicative Development Scheme**









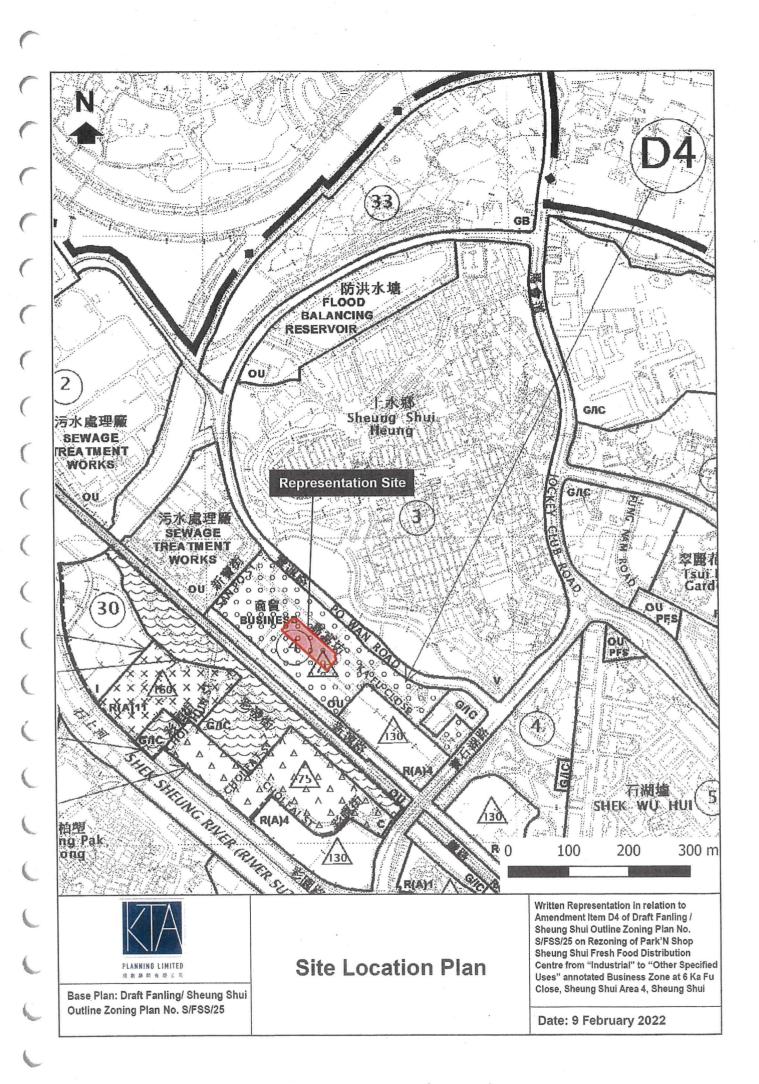


Written Representation in relation to Amendment Item D4 of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 on Rezoning of Park'N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui

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## **Appendix 2**

## Extracts of OZP, Statutory Notes and Explanatory Statement



Extracted from Revised Notes of Draft Fanling/Sheung Shui OZP No. S/FSS/24A

<u>S/FSS/24A</u>

### **OTHER SPECIFIED USES**

### For "Business" only

Column 1 Uses always permitted Column 2 Uses that may be permitted with or without conditions on application to the Town Planning Board

Schedule I: for open-air development or for building other than industrial or industrial-office building<sup>®</sup>

Ambulance Depot Commercial Bathhouse/Massage Establishment **Eating Place Educational Institution Exhibition or Convention Hall** Government Use (Police Reporting Centre, Post Office only) Information Technology and **Telecommunications Industries** Institutional Use (not elsewhere specified) Library Non-polluting Industrial Use (excluding industrial undertakings involving the use/storage of Dangerous Goods<sup>4</sup>) **Off-course Betting Centre** Office Place of Entertainment Place of Recreation, Sports or Culture **Private** Club **Public Clinic Public Convenice Public Transport Termnius or Station Public Utility Installation Public Vehicle Park** (excluding container vehicle) Radar, Telecommunications Electronic Microwave Repeater, Television and/or **Radio Transmitter Installation Recyclable Collection Centre Religious Institution Research**, **Design** and **Development** Centre School (excluding free-standing purposedesigned building and kindlergarten) Shop and Services **Training** Centre Utility Installation for Private Project

Broadcasting, Television and/or Film Studio Cargo Handling and Forwarding Facility **Government Refuse Collection Point** Government Use (not elsewhere specified) Hotel Mass Transit Railway Vent Shaft and/or other Structure above Ground level other than Entrances Non-polluting Industrial Use (not elsewhere specified) **Petrol Filling Station** School (not elsewhere specified) Social Welfare Facility (excluding those involving residential care) Warehouse (excluding Dangerous Goods Godown) Wholesale Trade

## **OTHER SPECIFIED USES** (Cont'd)

## For "Business" only (Cont'd)

Column 1 Uses always permitted

Column 2 Uses that may be permitted with or without conditions on application to the Town Planning Board

Ambulance Depot	Broadcasting, Television and
Arts Studio (excluding those involving direct	Film Studio
provision of services or goods)	Cargo Handling and Forwar
Bus Depot	(Container Freight Stat
Cargo Handling and Forwarding Facility	purpose-designed Logis
(not elsewhere specified)	Industrial Use (not elsewhere
Eating Place (Canteen only)	Mass Transit Railway Vent S
Government Refuse Collection Point	other Structure above G
Government Use (not elsewhere specified)	other than Entrances
Information Technology and	Off-course Betting Centre
Telecommunications Industries	Office (not elsewhere specifie
Non-polluting Industrial Use (excluding	Petrol Filling Station
industrial undertakings involving the	Place of Recreation, Sports of
use/storage of Dangerous Goods)	elsewhere specified)
Office (excluding those involving direct	Private Club
provision of customer services or goods)	Shop and Services (not elsew
Public Convenice	(ground floor only except
Public Transport Termnius or Station	Showroom <sup>#</sup> which may
Public Utility Installation	floor)
Public Vehicle Park	Vehicle Repair Workshop
(excluding container vehicle)	Wholesale Trade
Radar, Telecommunications Electronic	
Microwave Repeater, Television and/or	
Radio Transmitter Installation	
Recyclable Collection Centre	
Research, Design and Development Centre	
Shop and Services (Motor-vehilce Showroom	
on ground floor, Service Trades only)	
Utility Installation for Private Project	
Warehouse (excluding Dangerous Goods Godown)	

In addition, for building without industrial undertakings involving offensive trades or the use/storage if Dangerous Goods^, the following use is always permitted

Office

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n and/or rwarding Facility Station, free-standing ogistics Centre only) where specified) ent Shaft and/or ve Ground level es re ecified) orts or Culture (not elsewhere specified) except Ancillary may be permitted on any

## - 24 -

### **OTHER SPECIFIED USES** (Cont'd)

## For "Business" only (Cont'd)

In addition, the following uses are always permitted in the purpose-designed non-industrial portion on the lower floors (except basements and floors containing wholly or mainly car parking, loading/unloading bays and/or plant room) of an existing building, provided that the uses are separated from the industrial uses located above by a buffer floor or floors and no industrial uses are located within the non-industrial portion:

In addition, the following use may be permitted with or without conditions on application to the Town Planning Board in the purpose-designed non-industrial portion on the lower floors (except basements and floors containing wholly or mainly car parking, loading/unloading bays and/or plant room) of an existing building, provided that the use is separated from the industrial uses located above by a buffer floor or floors and no industrial uses are located within the non-industrial portion:

Social Welfare Facility (excluding those involving residential care)

Commercial Bathhouse/Massage Establishment Eating Place **Education Institution Exhibition or Convention Hall** Institutional Use (not elsewhere specified) Library **Off-course Betting Centre** Office Place of Entertainment Place of Recreation, Sports or Culture Private Club **Public Clinic Religious Institution** School (excluding kindergarten) Shop and Services **Training** Centre

- <sup>®</sup> An industrial or industrial-office building means a building which is constructed for or intended to be used by industrial or industrial-office purpose respectively as approved by the Building Authority.
- <sup>△</sup> Dangerous Goods refer to substances classified as Dangerous Goods and requiring a licence for their use/storage under the Dangerous Goods Ordinance (Cap. 295).
- # Ancillary Showroom requiring planning permission refers to showroom use of greater than 20% of the total usable floor area of an industrial firm in the same premises or building.

### **Planning Intention**

This zone is intended primarily for general business uses. A mix of information technology and telecommunications industries, non-polluting industrial, office and other commercial uses are always permitted in new "business" buildings. Less fire hazard-prone office use that would not involve direct provision of customer services or goods to the general public is always permitted in existing industrial or industrial-office buildings.

### OTHER SPECIFIED USES (Cont'd)

- 25 -

### For "Business" only (Cont'd)

### <u>Remarks</u>

- (a) No new development, or addition, alteration and/or modification to or redevelopment of an existing building shall result in a total development and/or redevelopment in excess of a maximum plot ratio of 5.0, and the maximum building height in terms of metres above Principal Datum as stipulated on the Plan or the plot ratio and the height of the existing building, whichever is the greater.
- (b) In determining the maximum plot ratio for the purposes of paragraph (a) above, any floor space that is constructed or intended for use solely as car park, loading/unloading bay, plant room and caretaker's office, provided such uses and facilities are ancillary and directly related to the development or redevelopment, may be disregarded.
- (c) Where the permitted plot ratio as defined in Building (Planning) Regulations is permitted to be exceeded in circumstances as set out in Regulation 22(1) or (2) of the said Regulations, the plot ratio of the building on land to which paragraph (a) applies may be increased by the additional plot ratio by which the permitted plot ratio is permitted to be exceeded under and in accordance with the said Regulation 22(1) or (2), notwithstanding that the relevant maximum plot ratio specified in paragraph (a) above may thereby be exceeded.
- (d) Based on the individual merits of a development or redevelopment proposal, minor relaxation of the plot ratio/building height restrictions stated in paragraph (a) above may be considered by the Town Planning Board on application under section 16 of the Town Planning Ordinance.

Written Representation in relation to Amendment Item D4 of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 on Rezoning of Park'N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui

## **Appendix 3**

## **Environmental Assessment**

Written Representation in relation to Amendment Item D4 of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 on Rezoning of Park'N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated "Business" Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui

**Environmental Assessment (Revision 0)** 

Feb. 2022

Date	Revision	Prepared by	Checked by	Authorised by
Feb 2022	Rev 0	Lily Chow	C. K. Chan	Paul Kau
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Appendix 4.3 Predicted Road Traffic Noise Levels – AM (Worst Case Scenario)

## 1 INTRODUCTION

## 1.1 General

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1.1.1 Kung Hei Investment Limited has commissioned WSP (Asia) Ltd to conduct an Environmental Assessment (hereinafter called "EA") to support the Written Representation in relation to Amendment Item D4 of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 on Rezoning of Park'N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated "Business" Zone . This report would assess the environmental impact with respect to the re-development of Park'N Shop Sheung Shui Fresh Food Distribution Centre for a composite residential development at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui (hereafter "the Project").

### 1.2 Objective of this Environmental Assessment (EA)

- 1.2.1 The aims of this EA comprise the following: -
  - (a) Identify and describe elements of community and environment likely to be affected by the Project;
  - (b) Identify emission sources (including air quality, noise, water quality and waste management) and determine the significance of impacts on sensitive receivers and potential affected uses; and
  - (c) Propose mitigation measures to minimize pollution, environmental disturbance and nuisance during the construction phase and operational phase of the Project.

### 1.3 Structure of Report

1.3.1 This EA Report contains the following sections in addition to this introduction (Section 1):

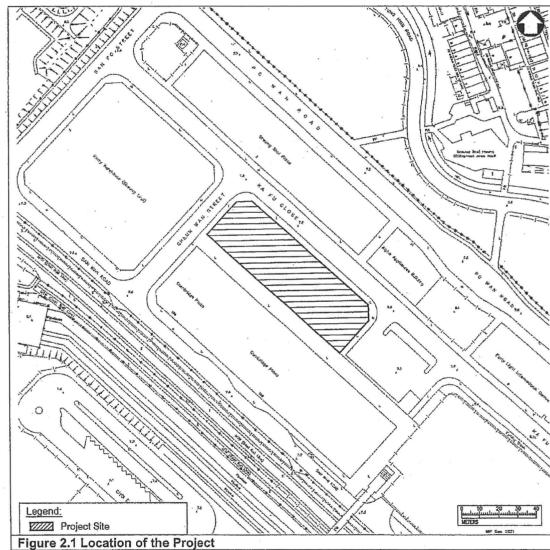
- Section 2 presents a description of the Project;
- Section 3 presents the Air Quality Impact Assessment;
- Section 4 presents the Noise Impact Assessment;
- Section 5 presents Other Impact Assessments.

Park'N Shop Sheung Shui Fresh Food Distribution Centre S12 Rezoning Application for Proposed Residential at F.S.S.T.L. 97, Area 4B, Sheung Shui, N.T. Ref: 2535624A -EA (Rev.0)

## **2 PROJECT DESCRIPTION**

## 2.1 Project Background

- 2.1.1 The Project is located in 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui . It is mainly surrounded by industrial buildings (e.g. Cambridge Plaza, Kerry Warehouse (Sheung Shui), Sheung Shui Plaza and Alpha Appliances Building) and a car park. The area of the Project Site is approximately 3,041m<sup>2</sup>.
- 2.1.2 The Subject Site currently falls within an area zoned "Other Specified Uses (Business)" "OU (B)" under the Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25.
- 2.1.3 Nearby road networks include Ka Fu Close and Cheuk Wan Street. Location of the Project is shown in Figure 2.1.



2.1.4 An Environmental Assessment (EA) shall be prepared to ascertain the environmental acceptability of the Project.

2.1.5 The re-development of storage facilities is not classified as a designated project under the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499).

Park'N Shop Sheung Shui Fresh Food Distribution Centre S12 Rezoning Application for Proposed Residential at F.S.S.T.L. 97, Area 4B, Sheung Shui, N.T. Ref: 2535624A -EA (Rev.0)

### 2.2 Indicative Development

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- 2.2.1 The indicative development is a re-development of Parknshop Sheung Shui Fresh Food Distribution Centre with a domestic development with plot ratio (PR) of 5.0 and non-domestic commercial retail with PR 0.5 for a composite residential development.
- 2.2.2 The Indicative Development accommodates about 304 residential units. In addition, there will be associate facilities including commercial retail area, car park and E&M rooms housed in podium floors and basement (**Appendix 2.1**).

## 2.3 Development Schedule

2.3.1 The proposed development will be completed and in operation by Year 2027.

## Table 2.1 Development Schedule

Development Parameters	Proposed Development
Application Site Area	About 3,041 m <sup>2</sup>
Greenery Ratio	Not less than 20%
Site Coverage	
Tower Site Coverage	Approx. 27.7 %
No. of Blocks	2
No. of Storeys	19 storeys domestic
	1 storey Residential Lobby
	1 storey retail
	2 storeys Basement car park
Building Height (main roof)	Approx. +75 mPD
Site Formation and Levels of	
Developments	х.
Underground Car Park	The lowest formation level: approx. +1.1 mPD
No. of Residential units	304

Park'N Shop Sheung Shui Fresh Food Distribution Centre
S12 Rezoning Application for Proposed Residential at F.S.S.T.L.
97, Area 4B, Sheung Shui, N.T.
Ref: 2535624A -EA (Rev.0)

# 3 AIR QUALITY IMPACT ASSESSMENT

## 3.1 Introduction

3.1.1 This section presents the assessment of potential air quality impacts associated with the construction and operation phases of the Project. Dust generated from construction activities is the primary concern during the construction phase. Recommendations for proper mitigation measures have also been made, where necessary, to minimize the potential construction air quality impacts. During operation phase, no pollution sources associated with the Project would be anticipated.

### 3.2 Assessment Criteria and Guidelines

- 3.2.1 The assessment is carried out in accordance with the relevant criteria and standards as specified in the following legislation and guidelines for evaluating air quality impacts:
  - Air Pollution Control Ordinance (APCO) (Cap. 311);
  - Air Pollution Control (Construction Dust) Regulation;
  - Air Pollution Control (Smoke) Regulation;
  - Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation; and
  - Hong Kong Planning Standards and Guidelines (HKPSG).
  - Air Quality Objectives (AQO) in Air Pollution Control Ordinance (APCO)
- 3.2.2 The principal legislation for the management of air quality is the APCO. It specifies AQOs which stipulate the statutory limits of air pollutants and the maximum allowable numbers of exceedance over specific periods.
- 3.2.3 The Air Pollution Control (Amendment) Ordinance 2021 (Commencement) Notice, which seeks to appoint January 1, 2022, as the day on which the Air Pollution Control (Amendment) Ordinance 2021 (the Amendment Ordinance) comes into operation, was approved by the Legislative Council on June 23, 2021. The Amendment Ordinance tightens three air quality objectives (AQOs), namely the 24-hour AQO for sulphur dioxide (SO2) and the annual and 24-hour AQOs of fine suspended particulates (FSP/PM2.5) stipulated in Schedule 5 to the Air Pollution Control Ordinance (APCO) (Cap. 311). The prevailing AQOs are listed in **Table 3.1**.

Pollutant	Averaging-Time	AQO concentration <sup>[1]</sup> ((µg/m²)	Allowable number of exceedance
Sulphur Diavida (SO)	10 minutes	500	3
Sulphur Dioxide (SO <sub>2</sub> )	24 hour	50	3
Respirable Suspended	24 hour	100	9
Particulates (PM10)	Annual	50	Not Applicable
	24 hour	50	18 回
Fine Suspended Particulates (PM <sub>2.5</sub> )		50	35
	Annual	25	Not Applicable
Nitrogon Diovido (NO-)	1 hour	200	18
Nitrogen Dioxide (NO <sub>2</sub> )	Annual	40	Not Applicable
Carbon Manavida (CO)	1 hour	30,000	0
Carbon Monoxide (CO)	8 hour	10,000	0

#### Table 3.1 Air Quality Objectives

Park'N Shop Sheung Shui Fresh Food Distribution Centre S12 Rezoning Application for Proposed Residential at F.S.S.T.L.

97, Area 4B, Sheung Shui, N.T. Ref: 2535624A -EA (Rev.0)

·	Ozone (O₃)	8 hour	160	9	
	Lead	Annual	0.5	Not Applicable	
-	Note: [i] All measurements of the concentration of air pollutants, i.e., sulphur dioxide, nitrogen dioxide, ozone and carbon monoxide, are to be adjusted to a reference temperature of 293Kelvin and a reference pressure of 101.325 kPa [ii] 18 times of allowed exceedance is for government project.				
	Air Pollution Control (Co	onstruction Dust) Rec	ulation	· ·	
3.2.4			Regulation enacted unde ct to construction dust cor	r the APCO defines notifiable htrol, as listed below:	
3.2.5	Notifiable Works:				
	Site formation				
	<ul> <li>Reclamation</li> </ul>				
	Demolition of a buil	ding			
	<ul> <li>Work carried out in</li> </ul>	any part of a tunnel t	hat is within 100 m of any	exit to the open air	
	Construction of the	foundation of a build	ing		
	Construction of the	superstructure of a b	ouilding		
	Road construction	work	ч		
3.2.6	Regulatory Works:				
	<ul> <li>Renovation carried out on the outer surface of the external wall or the upper surface of the roof of a building</li> </ul>				
	Road opening or resurfacing work				
	Slope stabilisation	work	.a.		
	Any work involving	any of the following a	activities:		
	<ul> <li>Stockpiling of d</li> </ul>	usty materials			
	<ul> <li>Loading, unload</li> </ul>	ding or transfer of du	sty materials		
	<ul> <li>Transfer of dus</li> </ul>	ty materials using a b	elt conveyor system		

((ug/m<sup>+</sup>))

Averaging Time

AQ@ concentration<sup>10</sup> Allowable aumior of

().cecclance

Use of vehicles

Polluent

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- Pneumatic or power-driven drilling, cutting and polishing
- Debris handling
- Excavation or earth moving
- Concrete production
- Site clearance
- Blasting

3.2.7 Notifiable works require that advance notice of activities shall be given to EPD. The *Air Pollution Control (Construction Dust) Regulation* also requires the works contractor to ensure that both notifiable works and regulatory works are conducted in accordance with the Schedule of the Regulation, which provides dust control and suppression measures.

Park'N Shop Sheung Shui Fresh Food Distribution Centre S12 Rezoning Application for Proposed Residential at F.S.S.T.L. 97, Area 4B, Sheung Shui, N.T. Ref: 2535624A -EA (Rev.0)

Air Pollution Control (Smoke) Regulation and Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation

3.2.8 The Air Pollution Control (Smoke) and Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulations come into effects to control the emissions from diesel powered engines and limited amount of diesel-powered mechanical equipment will be used on-site during construction phase.

Hong Kong Planning Standards and Guidelines (HKPSG) for Roads

3.2.9 Chapter 9 of the HKPSG stipulates the buffer distance requirements between the Air Sensitive Receivers (ASRs) of proposed development and the surrounding roads. The minimum buffer distances for different types of road are summarized in **Table 3.2** below.

### Table 3.2 Required Minimum Buffer Distances between ASRs and Roads

Type of Road	Minimum Buffer Distance (m)
Trunk Road and Primary Distributor	>20
District Distributor	>10
Local Distributor	>5

### 3.3 Existing Ambient Air Quality

- 3.3.1 Existing air quality of the project area was determined through a thorough review of EPD's routine air quality monitoring data collected in between Year 2016 to 2020. The nearest EPD air quality monitoring station (AQMS) is Tai Po AQMS at Tai Po Government Offices Building at Ting Kok Road. The air quality monitoring data for Respirable and Fine Suspended Particulates, Nitrogen Dioxide, Sulphur Dioxide and Ozone are summarised in Table 3.3.
- 3.3.2 Most of the air pollutants meet the air quality objectives except for annual average concentration of Ozone in 2017-2020.

Table 3.3 EPD Ann	nual Average Concentration	at Tai Po Monitoring	Station (2016-2020)
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D-M-A	Avenaging			Concentration (rg/m <sup>2</sup> )				
Pollutant.	Time	fion langus (µg/m²)	2016	2017	2018	.2019	2020	Remark
Respirable Suspended Particulates	24-hour	100	74	82	69	65	58	10th highest conc.
(PM10) [i]	Annual	50	29	32	31	31	24	NA
Fine Suspended Particulates	24-hour	75	55	55	47	47	38	10th highest conc.
(PM2.5) [i]	Annual	35	20	22	19	20	15	NA
Nitrogen Dioxide	1-hour	200	112	127	125	142	106	19th highest conc.
(NO2) [i]	Annual	40	33	39	36	36	30	NA
Sulphur Dioxide	10-minute	500	37	39	24	20	19	4th highest conc.
(SO <sub>2</sub> ) [i]	24-hour	125	10	9	8	10	7	4th highest conc.
Ozone (O₃) [i]	8-hour [ii]	160	147	181	167	197	165	10th highest conc.
Note:								

[i] Bolded concentrations indicate exceedance of the air quality objectives.

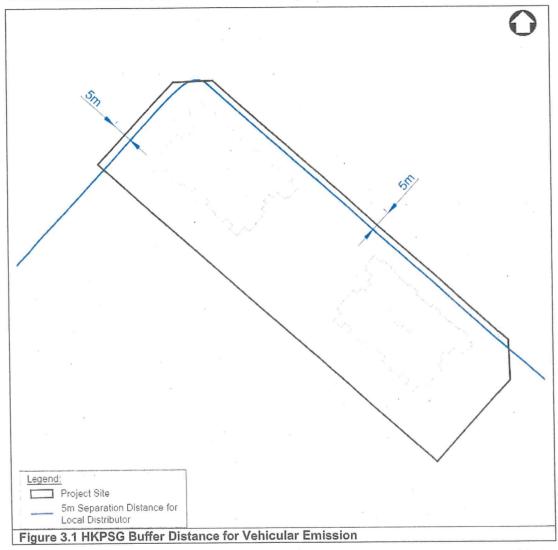
[ii] Daily maximum running 8-hour

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## 3.4 Evaluation of Air Quality Impact During Operation Phase

3.4.1 There are expected of potential air quality impacts during operation phase due to vehicular emissions from surrounding roads and underground PVP.

3.4.2 The road type of Ka Fu Close and Cheuk Wan Street should be classified as Local Distributors and 5m of buffer distances, measured from the road kerbs of the road, shall be provided for the fresh air intake and active recreational uses of the project. All air sensitive uses of the proposed development will be located outside the buffer zone as shown in **Figure 3.1**.



3.4.3 Desktop survey was conducted on 20 January 2022 to identify active chimney and odour within the Study Area. No chimneys were found within the 500m Study Area. Adverse air quality impact on and from the Project is not anticipated.

## Odour Impact from Shek Wu Hui Sewage Treatment Works (SWHSTW)

3.4.4 According to the Final EIA Report for North East New Territories New Development Areas Planning and Engineering Study - Investigation of Agreement No. CE 61/2007 (CE), Shek Wu Hui Sewage Treatment Works is planned to undergo expansion. To determine the odour emission rates of the STW, an on-site odour measurement was conducted in September 2011 of different components inside the existing SWHSTW (before expansion). Since the treatment process of the planned STW Expansion is in general similar to that of the SWHSTW before expansion, the odour emission will be similar. As such, the 2011 odour emission measurement results for SWHSTW before expansion

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have been adopted as the basis to estimate the odour emission rates of sources associated with the planned STW Expansion. Therefore, the result from the EIA is valid from 2011, where SWHSTW has not been expanded, to after the planned expansion.

3.4.5 Refer to the contours of odour concentrations of SWHSTW at ground level (1.5m above ground) and worst hit level (55m above ground) from the EIA Report (**Appendix 3.1**), the Project Site is not within the 5OU non-compliance zone at 55m above the ground. No adverse odour impact within the Project Site is anticipated due to SWHSTW from 2011 to after the completion of the planned expansion.

## 3.5 Mitigation Measures During Operation Phase

3.5.1 Sufficient buffer distances are provided between the corresponding roads and the air sensitive uses. Therefore, no further mitigation measure is required.

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## 4 NOISE IMPACT ASSESSMENT

## 4.1 Introduction

4.2.2

4.1.1 This section presents the assessment of potential noise impacts associated with the construction and operation phases of the Project. Noise generated from various construction activities is the primary concern during construction phase. Recommendations for proper mitigation measures have been made, where necessary, to minimize the potential construction noise impacts. Potential fixed noise source within the Project area is identified and the associated noise impact is evaluated in this section.

### 4.2 Environmental Legislation, Standards and Guidelines

### Construction Phase

4.2.1 Legislation, Standards, Guidelines and Criteria relevant to the consideration of construction noise impact under this Study include the following:

- Noise Control Ordinance (NCO)
- Technical Memorandum (TM) on Noise from Construction Work other than Percussive Piling (TM-GW)
- TM on Noise from Percussive Piling (TM-PP)
- TM on Noise on Construction Work in Designated Areas (TM-DA);
- TM on Noise from Places other than Domestic Premises, Public Places or Construction Sites (TM-Places);
- ProPECC PN 2/93 Environmental Protection Department Practice Note for Professional Persons: Noise from Construction Activities – Non-statutory Controls

### General Construction Activities during Non-Restricted Hours

ProPECC PN 2/93 provides assessment criteria as well as requirements relating to construction noise not currently controlled under the NCO. The Practice Note also provides information on noise abatement measures. Noise impacts arising from general construction activities other than percussive piling during the daytime period (07:00-19:00 hours on any day not being a Sunday or general holiday) would be assessed against the noise standards tabulated in **Table 4.1** below. Practicable direct mitigation measures will be evaluated and exhausted to maximise the protection of NSRs.

#### Table 4.1 Noise Standards for Daytime Construction Activities

Notse Sensitive Uses	07/00 to 1900 hours on any day not being a Sunday or general holiday, Leq(30 min), dB(A)
Dwellings	75
School	70
	65 during examination

Note: The above noise standards apply to uses, which rely on opened windows for ventilation. The above standards shall be viewed as the maximum permissible noise levels assessed at 1 m from the external façade

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### **Operation Phase**

#### **Railway Noise**

- 4.2.3 Railway noise is controlled under the Noise Control Ordinance (NCO) and the subsidiary Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites (TM-IND) which also describes the appropriate technical principles and assessment procedures. Acceptable Noise Levels (ANL) is stipulated in TM-IND as the noise criteria and is dependent on the Area Sensitivity Rating (ASR) defined and the time period of the day. The ASR of the NSR is determined by the type of area containing it and the presence of any influencing factors (IF) such as industrial areas, major roads, etc.
- 4.2.4 The indicate development is located in an urban area and is directly affected by Industrial Estate. This represents ASR "C" with an ANL of 60dB(A) for the night-time (23:00 to 07:00 hours) and 70 dB(A) in the daytime and evening (07:00 to 19:00 hours, and 19:00 to 23:00 hours, respectively).
- 4.2.5 HKPSG provide the railway noise standards for planning residential development, which are summarised below:
  - Leq (24 hr) = 65 dB(A) and
  - Lmax (23:00-07:00 hour) = 85 dB(A).

### Road Traffic Noise

4.2.6 Legislation, Standards, Guidelines and Criteria relevant to the consideration of planning against

- possible road traffic noise impact under this assessment include the following:
  - Chapter 9 of the Hong Kong Planning Standards and Guidelines (HKPSG)
- 4.2.7 The noise criteria for evaluating noise impact of planning development with respect to road traffic noise are based on the HKPSG. The summary of noise criteria are given in **Table 4.2** below.

#### Table 4.2 Relevant Road Traffic Noise Standards for Planning Purposes

	Road Thaiine Noise Peak Hour Thaiine L <sub>D((Hour</sub> , dB(A))
All domestic premises including temporary housing accommodation, offices	. 70
Educational institutions including kindergartens, child care centres and all other where unaided voice communication is required	65
Hospitals, clinics, - diagnostic rooms - wards convalescences and residential care homes for the elderly	55

Notes: (i) The above standards apply to uses which rely on opened windows for ventilation. (ii) The above standards should be viewed as the maximum permissible noise levels assessed at the external façade.

#### Fixed Noise Source

4.2.8

Fixed noise source impact arising from existing noise source is controlled under the NCO and shall comply with the ANLs laid down in the Table 2 of the TM-Places. For a given ASR, the ANL, in dB(A), is given by **Table 4.3**.

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### Table 4.3 Acceptable Noise Level for Fixed Plant Noise

	Area Sensitivity Rating			
Time Period	A	B	C	
Day-time (0700 to 1900 hours)	60	65	70	
Evening (1900 to 2300 hours)	60	65 .	70	
Night-time (2300 to 0700 hours)	50	55	60	

Note:

(i) The above standards apply to uses which rely on opened windows for ventilation

(ii) The above standards should be viewed as the maximum permissible noise levels assessed at 1m from the external facade

4.2.9

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The Project Site is surrounded by low to medium buildings, including Cambridge Plaza, Kerry Warehouse (Sheung Shui), Sheung Shui Plaza and Alpha Appliances Building. Refer to Table 1 of the TM-Places, the site is considered as "area other than those above" and it is not affected by any IF. An Area Sensitive Rating of "B" is assigned for the site. The ANL in Leq (30min) dB(A) regarding to the ASR for both daytime and night-time are shown in **Table 4.4** below.

## Table 4.4 Noise Criteria for Fixed Noise Source Impact Assessment

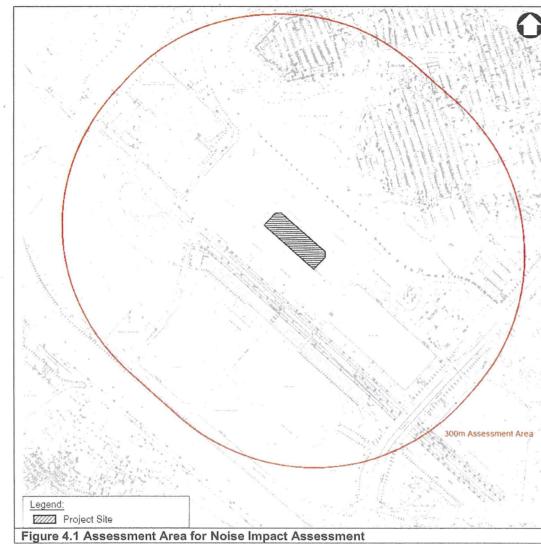
Area Sensitivity Rating	Time Period	ANL, Leg (30min); dB(A)
В	Day and evening time (0700 – 2300 hours)	65
. В	Night-time (2300 – 0700 hours)	55

Note:

In any event, the ASRs and the ANLs adopted in this report are only indicative and they are used for assessment only. It should be noted that noise from fixed noise sources is controlled under section 13 of the Noise Control Ordinance. Therefore, the ASRs and ANLs determined in this report shall not prejudice the Noise Control Authority's discretion to determine noise impact due to fixed noise sources on the basis of prevailing legislation and practices being in force and taking account of contemporary conditions/ situations of adjoining land uses. The assessment of noise impacts due to fixed noise sources in this report shall not bind the Noise Control Authority in the context of law enforcement against any of the noise from fixed noise sources being assessed.

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## 4.3 Assessment Area and Noise Sensitive Receivers



4.3.1 The Assessment Area is defined as within 300 m of the site boundary for noise impact assessment. This Assessment Area is identified and shown in **Figure 4.1**.

## 4.4 Operational Noise Impact Assessment

### Railway Noise

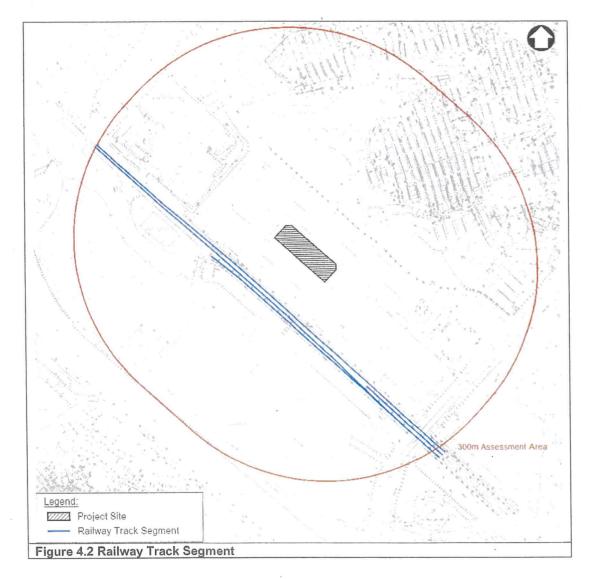
### 4.4.1 Identification of Noise Sources

4.4.1.1 Table 4.5 shows the frequencies of the East Rail Line passenger train adopted for Railway Noise Impact Assessment for Electric Multiple Unit (EMU) between Sheung Shui & Lo Wu (SS & LW) and Sheung Shui & Lok Ma Chau (SS & LMC), as well as Through Train between Sheung Shui & Lo Wu. Figure 4.2 shows the alignment of the concerned railway track segments.

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	Train Frequency for Both Directions (trains per hour)					
Period	EMU between SS & LW	EMU between SS & LMC	Through Train between SS & LW	Total		
Daytime (Peak) (07:00 – 20:00 hours)	18	12	1	31		
Night-time (06:00 – 07:00 hours & 20:00 – 01:00 hours of the next day)	14	10	1	25		
Assumed Daily	228	156	14	398		

### Table 4.5 Train Frequency adopted for Railway Noise Impact Assessment



## 4.4.2 Assessment Methodology

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4.4.2.1 The average sound exposure levels used for the indicative development is listed in **Table 4.6** below. Distance correction has been considered in the below noise levels.

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Table 4.6 Measured Sound Exposure Levels (Average)

Tràin Type	IEMU	Through Train
SEL, dB(A) (Average)	84.3	88.0

4422

- For ordinary assessment based on the reference SEL, the Leg (30 min) level during the night-time period can be determined by accounting the following factors:
  - Distance correction ( $C_D$ ) [ $C_D$  = 10 x log ( $D_{ref}$  / D)] where  $D_{ref}$  is slant distance during measurement.
  - View angle correction (C<sub>A</sub>) [C<sub>A</sub> = 10 x log (view angle at NSR / view angle at noise measurement microphone), i.e. view angle at noise measurement microphone is 180 degree
  - Poor track correction [+3dB(A)] to account for potential deterioration in train operating conditions such as wheel/rail wearing varying with time
  - Conversion from SEL to Leg (30 min) during night-time (i.e. SEL + 10 log (n/assessment period e.g. 1800 sec) where n = number of trains within the assessment period,
  - Barrier correction (C<sub>bar</sub>) (based on Maekawa's Approach to take into account barrier effect using path difference) is applied on the track side barrier as well as the building in between.
- It is envisaged that the most critical time of the day in terms of assessment is the hour between 0600 4.4.2.3 and 0700 hours in the night-time period, when the specified noise criterion is the most stringent and in the peak hour train frequency. The night-time noise criterion is 60 dB(A) while that for the daytime is 70 dB(A). If the predicted Leg(30min) noise levels during night-time with the peak hour train frequency could meet the relevant noise criterion, no adverse noise impact is envisaged with respect to other applicable standards under the normal conditions.

### **Train Frequency Correction**

In comparing the calculation of the predicted noise level of different time period (i.e. day and evening 4.4.2.4 period, night-time period and Leq(24hr)) of same noise sensitive receiver, the only difference is correction of the conversion of the SEL to Leq (i.e. 10log (N/T) where N is the total number of events and T is the seconds of the event). From general acoustic point of view, doubling the train frequency will have an increment of 3 dB(A) of the noise level. According to Table 4.5, the train frequency in day & evening is higher than that in night-time. The correction of the no. of events for daytime is 10\*log(31/(60\*60)) = - 21 dB(A) while that for the night-time period is 10\*log (25/(60\*60)) = -22 dB(A). Therefore, the predicted Leg(30mins) of daytime period will be 1 dB(A) larger than that of the Leg(30mins) of night-time. However, the noise criteria for Leq(30mins) of daytime and evening time period is 70 dB(A); while that of the night-time period is 60 dB(A), i.e. there is 10 dB(A) more between the noise criteria of daytime and evening time period and the night-time period. Therefore, if the predicted noise level at the NSR can comply with the night-time criteria, the relevant day and evening noise criteria can also be complied. It is because that the increment of the noise level in the daytime and evening period (+ 1 dB(A)) is less than that of the noise criteria (+ 10 dB(A)).

4425 For Leg(24hr), the calculation of noise criteria is 5 dB(A) more than that of the night-time. Based on the train frequency listed in Table 4.5, the correction of converting the SEL to Leg(30min) of night-time period is -22 dB(A) (i.e.  $10^{10}(25/(60^{60}))$ ) while that to L<sub>eq(24hr)</sub> is -23 dB(A) (i.e. 10\*log(398/(60\*60\*24)). There is only slight larger in the correction for Leq(24hr). The increment of the noise level due to the change of the correction for Leg(24hr) in comparing with the Leg(30min) of nighttime period is 1 dB(A). Therefore, the predicted Leg(24hr) will be 1 dB(A) larger than that of the  $L_{eq(30min)}$  of night-time but the noise criteria for  $L_{eq(24hr)}$  is 5 dB(A) more than that of the night-time period. Therefore, the predicted Leg(24hr) will comply with the relevant standard if the predicted noise level at night-time period complies with the relevant noise standard.

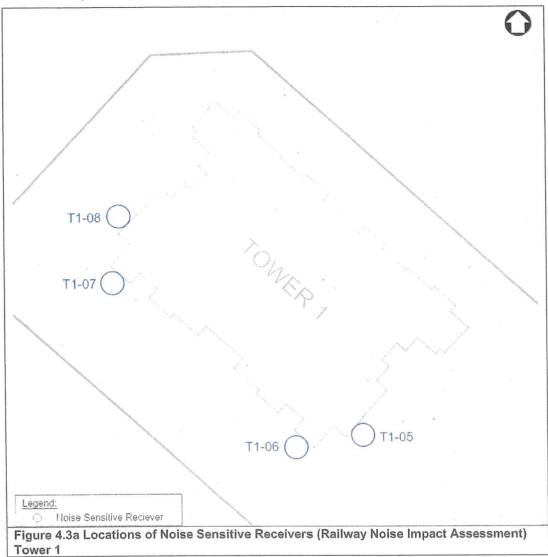
4.4.2.6 For Lmax, with reference to the measurement results when the train travelled at near track to the proposed development, the highest level of Lmax 79dB(A) was acquired. Therefore, it is expected that the Lmax at the proposed development shall fully comply to the HKPSG's noise criterion of Lmax at 85 dB(A).

#### 4.4.3 **Noise Sensitive Receivers**

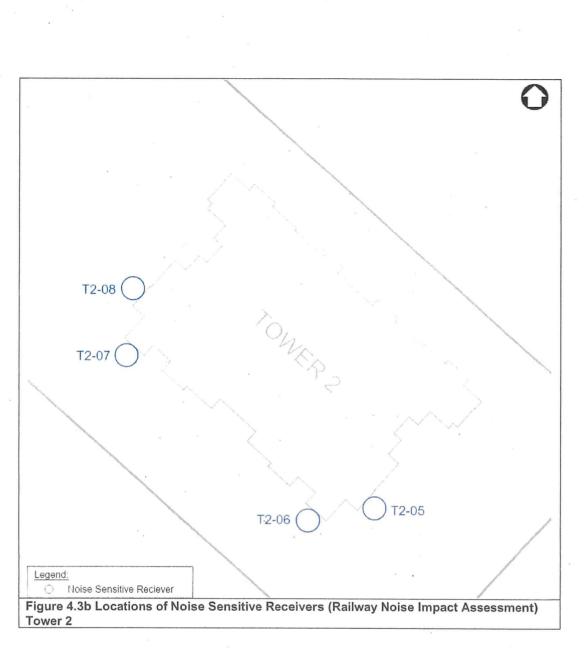
Representative Noise Sensitive Receivers (NSRs) for the indicative development are identified. 4431 The locations of NSRs are illustrated in Figure 4.3. Assessment points are assigned to be 1m

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away from the openable window on the facade of the noise sensitive uses (e.g. living/dining room, and bedrooms) of residential dwellings and at 1.2m above floor slab.



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### 4.4.4 Evaluation of Noise Impact

- 4.4.4.1 The potential railway noise impacts at the identified NSRs are evaluated. It is found that the maximum railway noise levels at NSRs is 57 dB(A) during night-time, which complies with the noise criteria under the Noise Control Ordinance, adverse railway noise impact at the future residents of the indicative development is not anticipated.
- 4.4.4.2 The predicted railway noise levels at NSRs are summarized in **Table 4.7**. Detailed results are provided in **Appendix 4.1**.

Table 4.7 Summary of Predicted Railway	Noise Levels	(Unmitigated)
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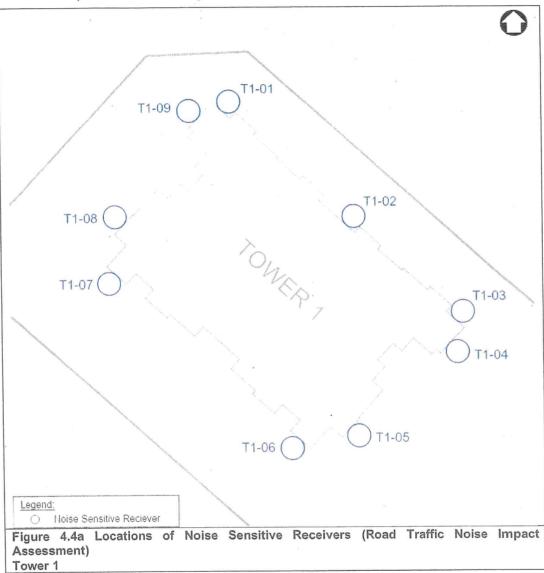
Tower Noise Criteria dB(A)		Max. Predicted Noise Levels, L <sub>eq (30min.)</sub> , dB(A)
Tower 1	60	57
Tower 2	60	54

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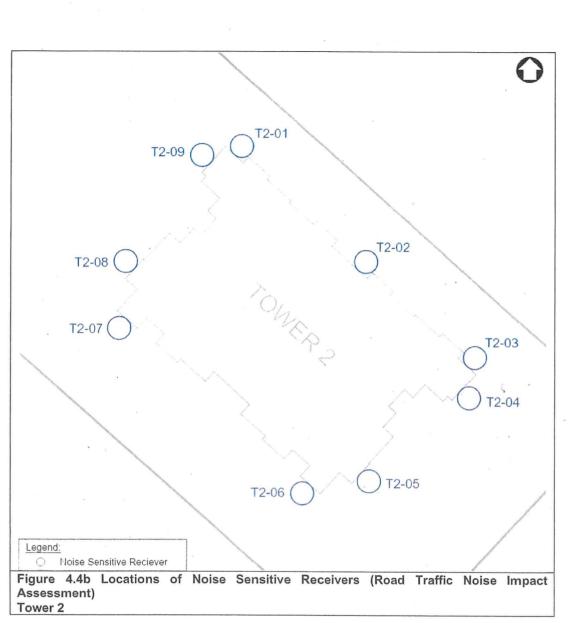
### Road Traffic Noise

### 4.4.5 Noise Sensitive Receivers

4.4.5.1 Representative Noise Sensitive Receivers (NSRs) for the indicative development are identified. The locations of NSRs are illustrated in **Figure 4.4**. Assessment points are assigned to be 1m away from the openable window on the facade of the noise sensitive uses (e.g. living/dining room, and bedrooms) of residential dwellings and at 1.2m above floor slab.



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### 4.4.6 Evaluation of Noise Impact

4.4.6.1 The assessment was based on the peak hour traffic flow for the maximum projected traffic conditions within 15 years upon full occupancy of the indicative development in Year 2027. Therefore, the projected peak traffic forecast for Year 2042 traffic data were adopted in the assessment. The peak hour traffic flow data is presented in **Appendix 4.2**.

### Unmitigated Scenario

4.4.6.2 The calculation of basic noise levels are under CRTN and are summarized in the below **Table 4.8**. Detailed results are provided in **Appendix 4.3**.

## Table 4.8 Summary of Predicted Road Traffic Noise Levels (Unmitigated)

Tower	Noise Criteria, dB(A)	Max. Predicted Noise Levels, L10 (1hr.), dB(A)		
Tower 1	70	73		
Tower 2	70	74		

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4.4.6.3 Noise exceedances against the noise criterion L<sub>10 (1 hour)</sub> 70dB(A) as stipulated in HKPSG are found. Noise mitigation measures will be required to alleviate the potential traffic noise impacts.

#### Mitigated Scenario - Residential Dwelling

- 4.4.6.4 The following mitigation measures are proposed for mitigating the road traffic noise impacts. The locations of mitigation measures are shown in **Figure 4.5**.
  - a) Acoustic Windows (Baffle Type)
- 4.4.6.5 Acoustic windows (Baffle Type) shall be provided to the affected rooms. Locations of the acoustic windows are shown in Figure 4.5.
- 4.4.6.6 The working principle of an acoustic window is to reduce the noise level perceived by residents inside the room but would not significantly change the noise level at 1m from facade as compared with the scenario with a conventional window. The noise reduction offered by the acoustic window is determined by comparing the noise level in a room with the acoustic window with that in a similar room, if not the same room, with a conventional window. The mitigated noise level at 1m from facade of the acoustic window is equivalent to the predicted noise level at 1 m from facade of a conventional window minus the noise reduction.
- 4.4.6.7 The design of the acoustic window for this project has made reference to the Practice Note on Application of Acoustic Window (Baffle Type) in Planning Residential Developments against Road Traffic Noise Impact (V1.0), published by EPD. Tentative acoustic window configurations and schedule can be found in Table 5.3. These configurations will be maintained as the minimum provision for the design of the acoustic windows.
- 4.4.6.8 The design of the acoustic window consists of an openable side-hung window at the outer side and a sliding panel at the inner side. The sliding panel should be slid to the side of the openable window under noise mitigation mode for the proposes of natural ventilation and noise reduction. It is recommended that the sliding panel shall be slid to the mentioned position all the time for noise reduction purposes. An instruction of acoustic window operation will be provided for the future users. Adequate ventilation will be provided in the noise mitigation mode of operation of the acoustic windows as the design of the proposed acoustic windows will meet the relevant natural ventilation requirement under the Building (Planning) Regulations. According to the Practice Note on Lighting and Ventilation Requirements Performance-based Approach (APP-130) issued by the Buildings Department, for optimum performance with the inner sliding glass panel in a closed position, the air gap should have a length of not less than 100mm and a width between 100mm and 175mm. The length and width of the air gap of the proposed acoustic window also meet these conditions.

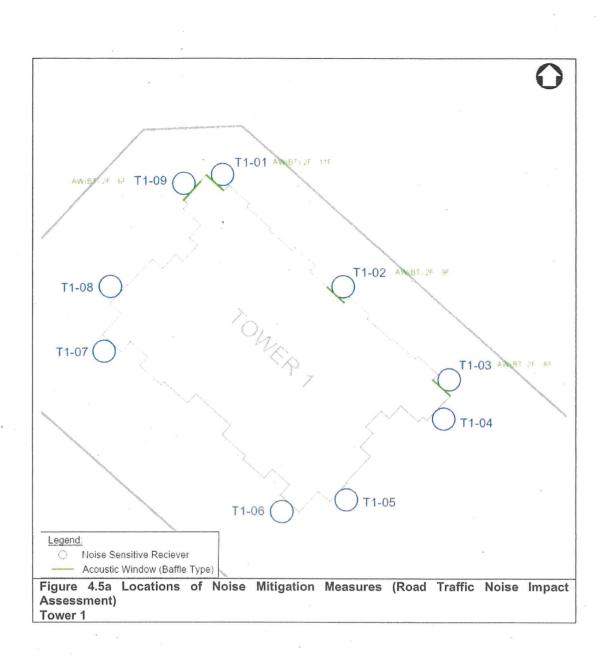
Room Dimensions (mm)	inner Window Opening (mm)	Outer Window Opening (mm)	Window Overlapping Length (mm)	Gap Width between Window Panels (mm) (1)	Sound Absorptive Material (2)	Targeted Noise Reduction
3200 (W) x 2500 (D) x 3400 (H)	870 (H) x 580 (W)	870 (H) × 600 (W)	100	100	Top and both side of window frame	6 dB(A)

Table 4.9 Tentative Configurations of Acoustic Window (Baffle Type) of 8m<sup>2</sup> room

Note:

 For optimum performance, the air gap should have a pane-to-pane length of not less than100mm and a width between 100mm and 175mm, with the inner sliding glass panel in a closed position as required in PNAP APP-130. The window pane shall be at least 6mm in thickness

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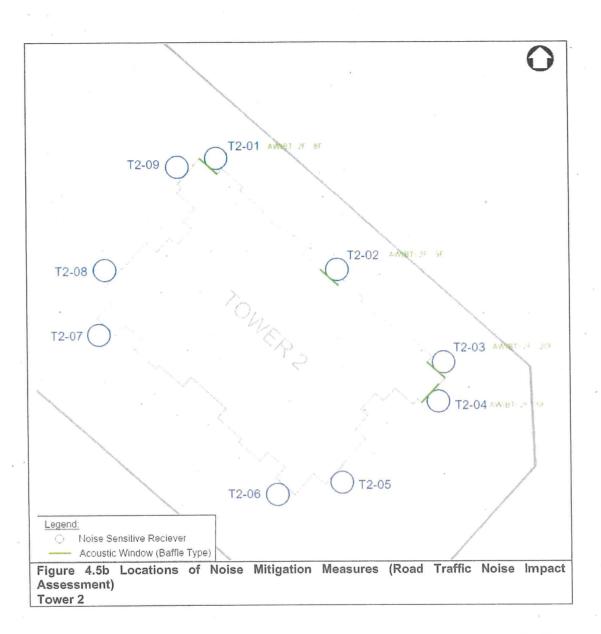


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4.4.6.9 The predicted road traffic noise levels at NSRs under mitigated scenario are summarized in **Table** 4.10. Detailed noise results are shown in **Appendix 4.3**. With implementation of proposed mitigation measures, adverse road traffic noise impact at the future residents of the indicative development is not anticipated.

Table 4.10 Summary of Predicted Road Traffic Noise Results (Mitigated Scenario)

Tower	Noise Criterion L10(1 hour), dB(A)	Predicted Maximum L <sub>10(1 hour)</sub> , dB(A)	No. of Dwellings with Noise Exceedance	Compliance Rate (%)	
T1	70	70	0	100	
T2	70	70 ·	0	. 100	

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## Fixed Noise Source

## 4.4.7 Evaluation of Noise Impact

4.4.7.1 Existing fixed noise sources were identified based on the desktop study to verify and investigate the noise emission and operation mode of identified sources as shown in **Figure 4.6**. The existing fixed noise sources are blocked by Kerry Warehouse (Sheung Shui) or Cambridge Plaza with limited line of sight.



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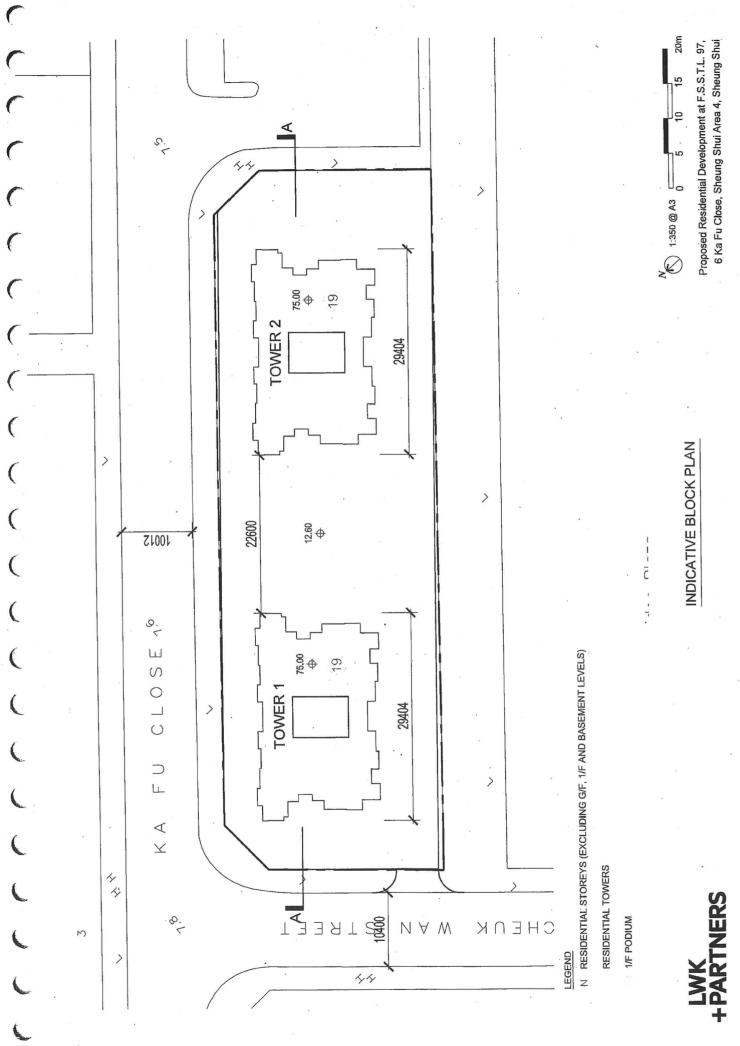
# **5 OTHER ENVIRONMENTAL IMPACTS**

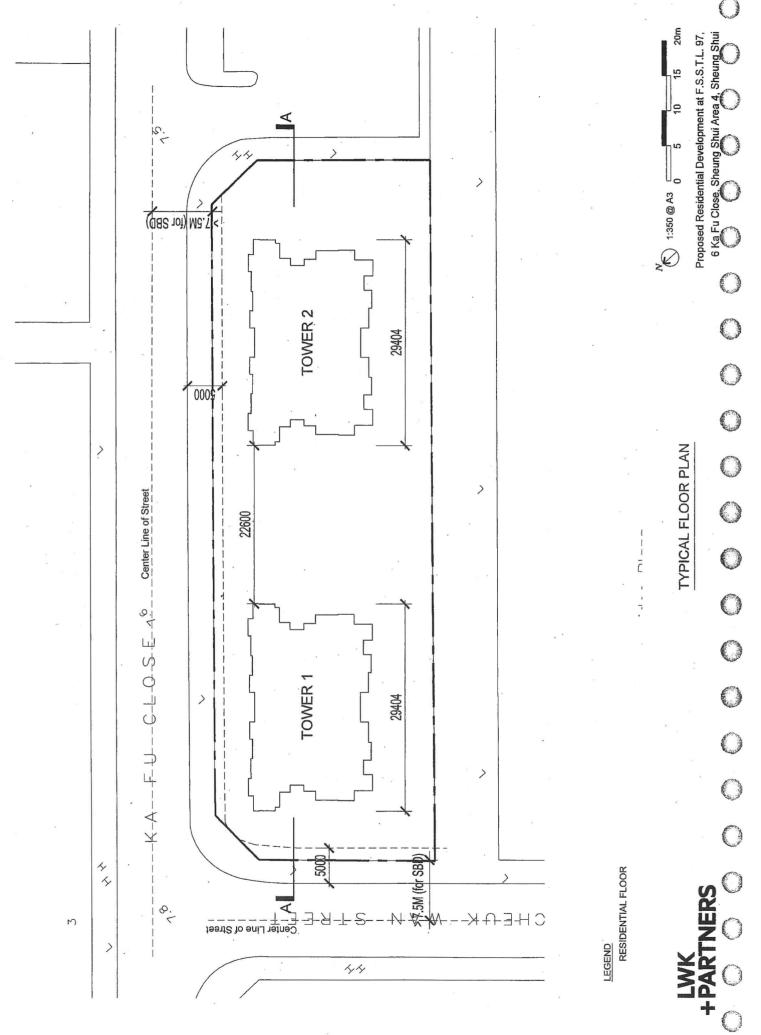
### 5.1 Introduction

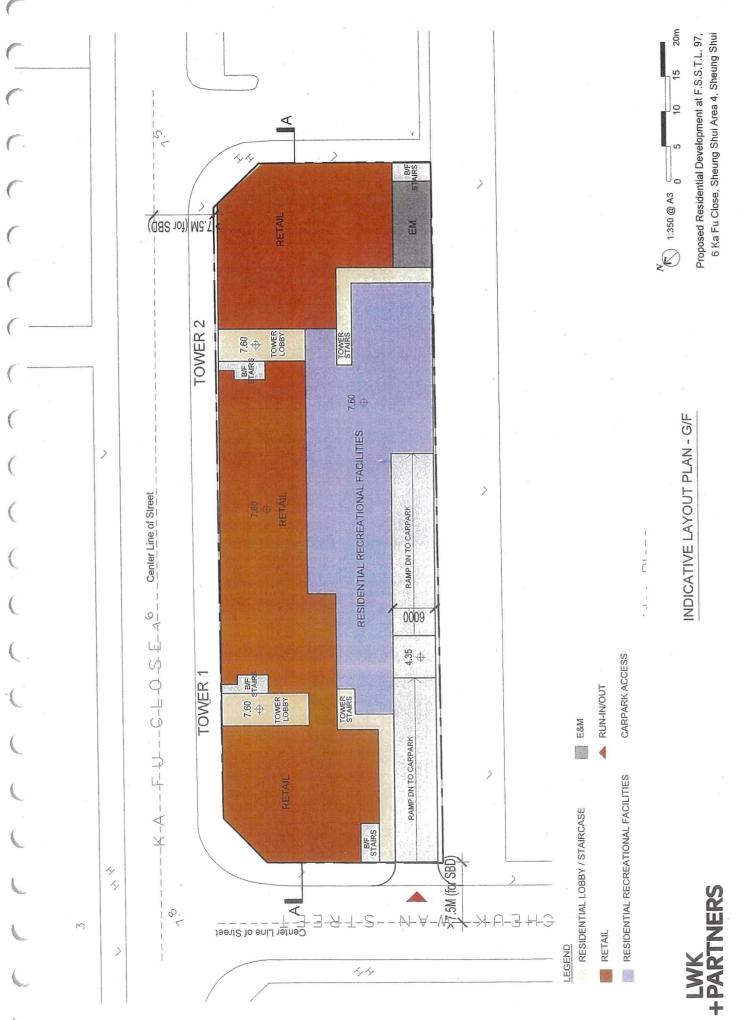
5.1.1 For the previous application, other environmental impacts including construction air & noise, water quality, waste management and land contamination impact assessment has also been considered. The implication on the aforementioned environmental impacts for this application is the same as the previous application as both applications are rezoning applications. The change in layout and use of this application comparing to the previous application would not affect the implication on the three impact assessments. Results and conclusions of construction air & noise, water quality, waste management and land contamination impact assessment for the previous application remains valid for this application.

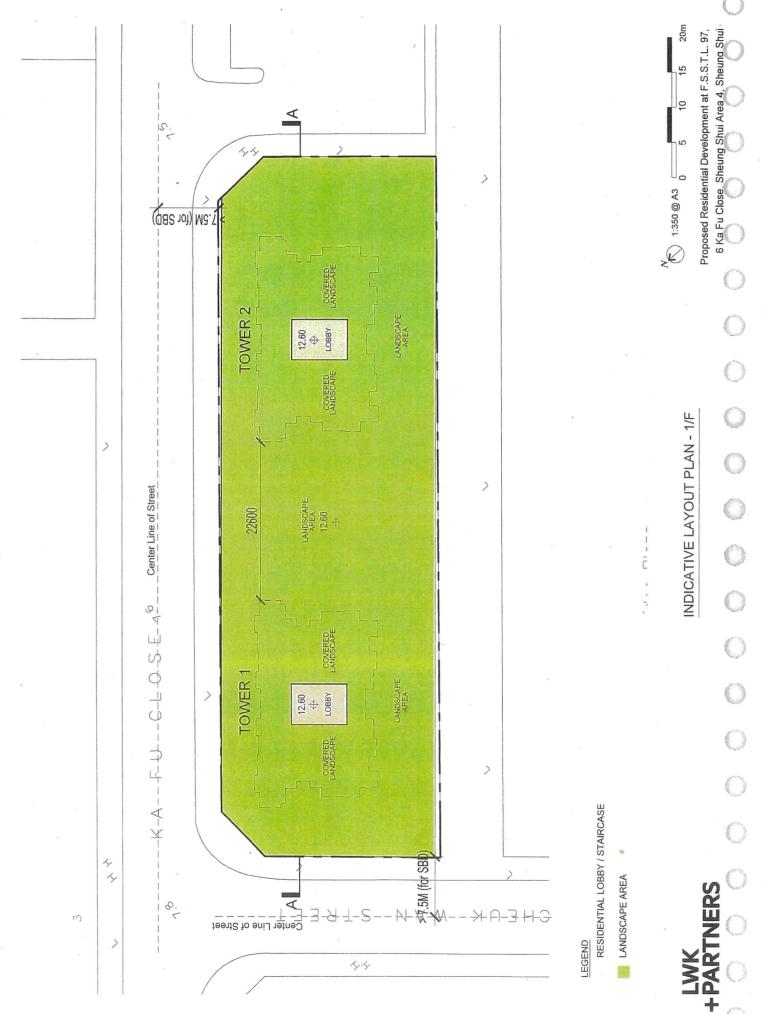
Park'N Shop Sheung Shui Fresh Food Distribution Centre S12 Rezoning Application for Proposed Residential at F.S.S.T.L. 97, Area 4B, Sheung Shui, N.T. Ref: 2535624A -EA (Rev.0) WSP (Asia) Ltd February 2022 Page 23

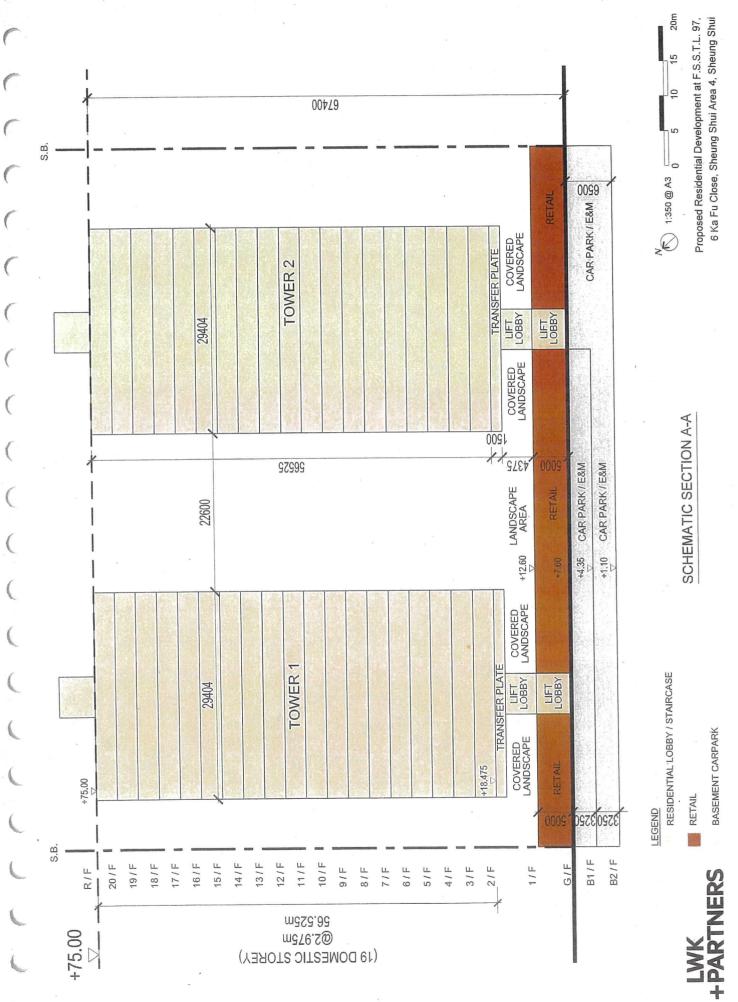
## Appendix 2.1 Layout Plan



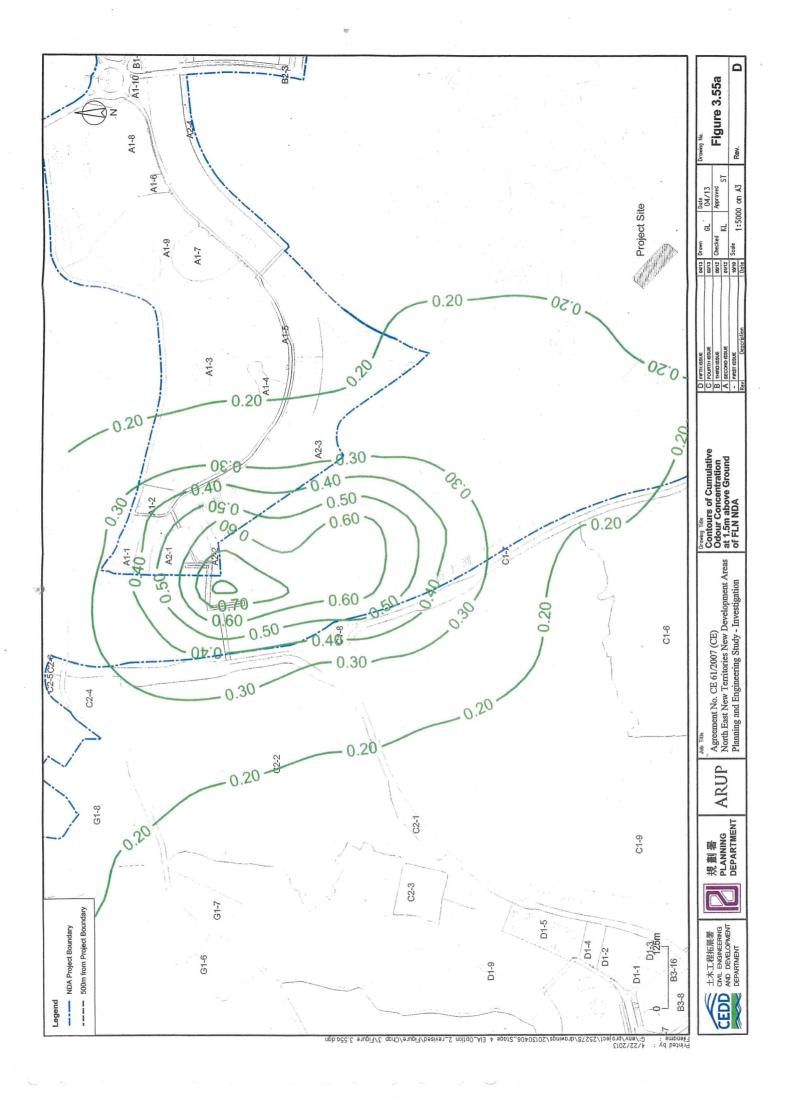


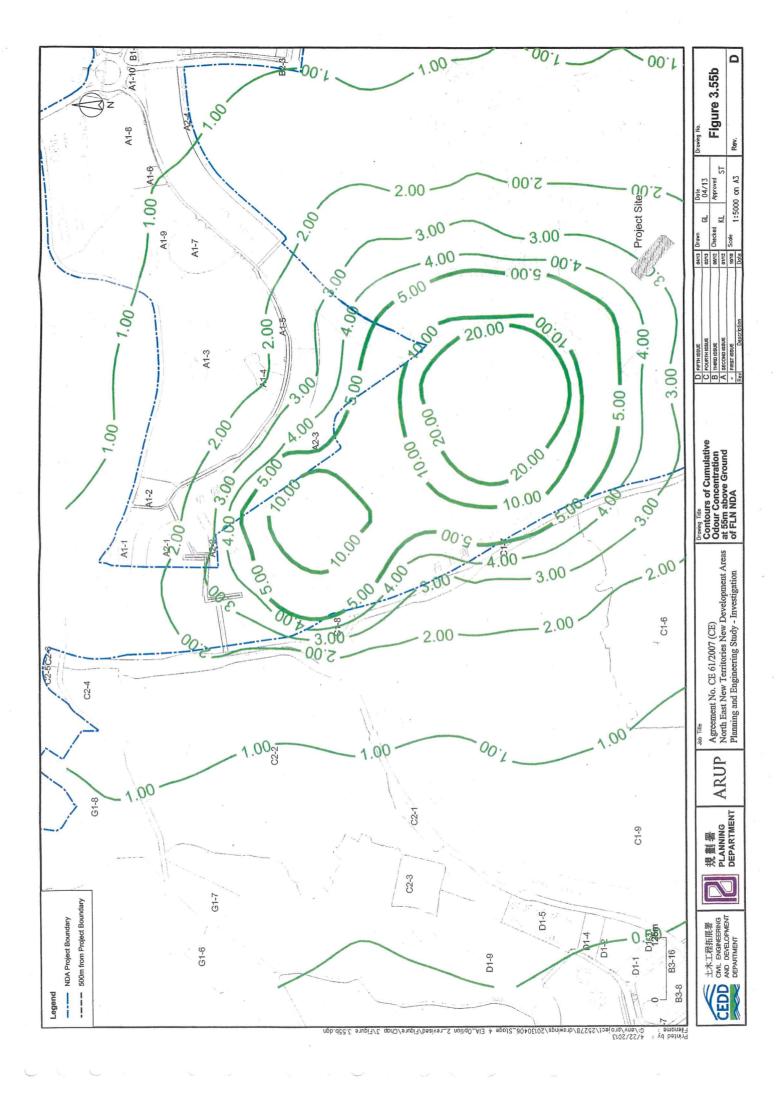






Appendix 3.1 Contours of Odour Concentrations of Shek Wu Hui Sewage Treatment Works





## Appendix 4.1 Predicted Railway Noise Levels

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Results of Railway Noise Impact Assessment (Base Case Scenario)(Detail)

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	T2-08	42	42	42	42	42	42	42	42	42	42	43	43	45	46	47	48	49	50	51	51	0
er 2	T2-07	42	42	42	42	42	42	42	43	43	45	46	47	48	49	50	51	52	53	54	54	0
Tower 2	T2-06	42	42	42	42	42	42	43	44	45	47	47	48	49	50	51	52	53	54	54	54	0
	T2-05	43	43	43	43	43	43	44	44	46	47	48	49	50	51	51	52	52	52	53	53	0
	T1-08	51	51	51	51	50	51	51	51	52	53	54	55	55	55	55	55	55	55	. 56	56	0
er 1	T1-07	42	42	42	42	42	43	44	47	51	54	54	54	55	55	55	55	56	56	57	57	0
Tower 1	T1-06	42	42	42	42	42	42	42	43	44	46	49	51	52	53	53	53	54	54	55	55	0
	T1-05	42	42	42	42	42	42	42	42	42	43	44	45	45	46	47	47	48	50	51	51	0
	٤	19.7	22.6	25.6	28.6	31.6	34.6	37.5	40.5	43.5	46.4	49.4	52.4	55.4	58.4	61.3	64.3	67.3	70.2	73.2		Per NSR
	GBP Floor	2F	3F	4F .	5F	6F	7F .	8F	96	10F	11F	12F	13F	14F	15F	16F	17F .	18F	19F	20F	Max Noise Level, dB(A)	No. of Exceedance Per NSR

Legend Exceeded Hong Kong Planning Standard Guidelines' Standard of 60 dB(A)

/ Non-residential unit

\* The assessment point is located at 1m in front of the most exposed part of an openable window for ventilation at a habitable room (NSRs) and 1.2m above the floor level of individual floors of the residential towers of the proposed development.

Appendix 4.2 Peak Traffic Flow Data and Road Link

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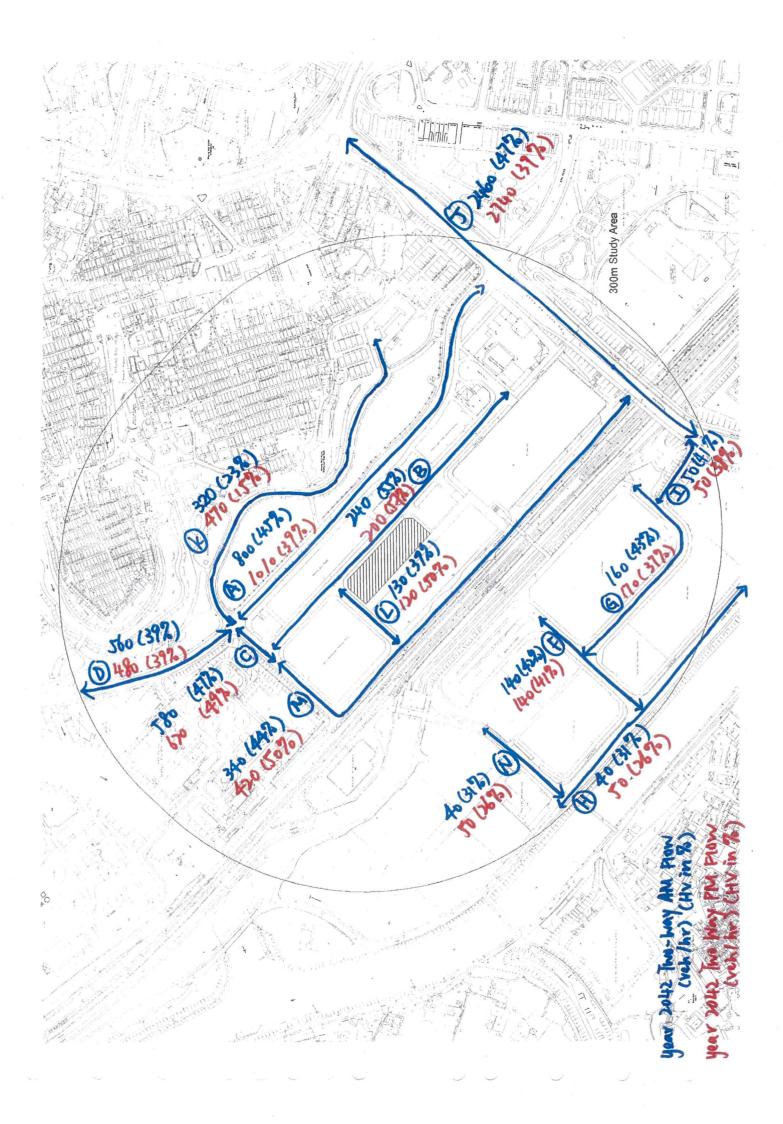
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Appendix 4.3 Predicted Road Traffic Noise Levels – AM (Worst Case Scenario)

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Results of Road Traffic Noise Impact Assessment (Base Case Scenario)(Detail)

					Ŧ	Fower 1								10 To	Fower 2				
GBP Floor	*mPD,m T1-01 T1-02 T1-03	T1-01	T1-02		T1-04 T1-05		T1-06	T1-07	T1-08	T1-09	T2-01 1	T2-02 T2-03	2-03 1	2-04 1	T2-04 T2-05 T2-06 T2-07	2-06 T		T2-08 T	T2-09
2F	19.7	74	73	73	70	59	59	64	69	72	73	73	74	11	68	65	60	58	70
3F	22.6	73	73	73	70	61	59	65	69	72	73	73	73	71	68	65	60	61	70
4F	25.6	73	72	72	70	64	59	65	69	71	72	72	73	71	68	65	60	64	70
SF	28.6	72	72	72	69	65	60	65	69	71	72	72	72	71	69	65	61	65	69
6F	31.6	72	71	11	69	65	60	65	68	11	71	71	72	70	69	65	61	65	69
7F	34.6	72	11	11	69	65	60	65	68	70	11	71	72	70	68	65	62	65	69
8F	37.5	11	11	71	68	65	61	64	68	70	71	71	71	70	68	65	62	65	68
96	40.5	11	71	70	68	65	61	64	68	70	70	71	71	70	69	66	63	65	68
10F	43.5	71	70	70	68	65	62	64	67	69	70	70	71	70	69	66	63	65	68
11F	46.4	71	70	70	68	65	63	65	67	69	70	70	71	70	69	66	64	64	68
12F	49.4	70	70	70	68	65	63	65	67	69	70	70	11	70	69	66	64	64	67
13F	52.4	70	70	70	68	65	63	65	67	69	70	70	71	70	69	66	64	64	67
14F	55.4	. 70	70	70	68	- 65	63	65	67	69	70	70	71	70	69	66	64	64	67
15F	58.4	70	70	70	68	65	63	65	67	69	70	70	71	70	69	67	64	64	67
16F	61.3	70	70	70	68	65	63	65	67	69	70	70	71	70	69	67	64	64	67
17F	64.3	70	70	70	68	65	63	65	67	68	70	70	71	70	69	67	64	64	67
18F	67.3	70	69	70	68	65	63	65	67	68	70	70	71	70	69	67	64	64	67
19F	70.2	70	69	70	68	65	63	65	67	68	70	70	71	70	69	67	64	64	67
20F	73.2	70	69	70	68	65	63	65	67	68	70	70	71	70	69	67	64	64	67
Max Noise Level, dB(A)	1	74	73	73	70	65	63	65	69	72	73	73	74	71	69	67	64	65	70
No. of Exceedance Per NSR	e Per NSR	10	~	2	0	0	0	0	0	5	7	8	19	4	0	0	0	0	0

# Result Summary (Detail) - Base Case (am) - Tower 1 to Tower 2

regenta	
xceeded Hong Kong Planning Standard	Contraction of the
suidelines' Standard of 70 dB(A)	

/ Non-residential unit

\* The assessment point is located at 1m in front of the most exposed part of an openable window for ventilation at a habitable room (NSRs) and 1.2m above the floor level of individual floors of the residential towers of the proposed development.

Results of Road Traffic Noise Impact Assessment (Base Case Scenario)(Detail)

					-	Fower 1								μ	Tower 2				
GBP Floor	*mPD,m T1-01 T1-02 T1-03 T1-04 T1-05 T1-06 T1-07 T1-08 T1-09 T2-01 T2-02 T2-03 T2-04 T2-05	T1-01	T1-02	T1-03	T1-04	T1-05	T1-06	T1-07	T1-08	T1-09	-2-01	12-02	r2-03	T2-04	T2-05	T2-06 T2-07		T2-08 T	T2-09
2F	19.7	70	70	70	70	59	59	64	69	70	70.	70	70	70	68	65	60	58	70
3F	22.6	70	02	02	70	61	59	65	69	70	70	70	70	70	68	65	60	61	70
4F	25.6	70	04	70	70	64	59	65	69	70	70	70	70	70	68	65	60	64	70
5F	28.6	70	70	70	69	65	60	65	69 .	70	70	70	70	70	69	65	61	65	69
6F	31.6	70	02	10	69	65	60	65	68	70	70	70	70	70	69	65	61	65	69
7F	34.6	70	02	70	69	65	60	65	68	70	70	70	70	70	68	65	62	65	69
8F	37.5	70	70	70	68	65	61	64	68	70	70	70	70	70	68	65	62	65	68
9F	40.5	70	70	70	68	65	61	64	68	70	70	70	70	70	69	66	63	65	68
· 10F	43.5	70	70	70	68	65	62	64	67	69	70	70	70	70	69	66	63	65	68
11F	46.4	70	70	70	68	65	63	65	67	69	70	70	70	70	69	66	64	64	68
12F	49.4	70	70	70	68	65	63	65	67	69	70	70	70	70 .	69	66	64	64	67
13F	52.4	70	70	70	68	65	63	65	67	69	70	70	70	70	69	66	64	64	67
14F	55.4	70	70	70	68	65	63	65	67	69	70	70	70	70	69	99	64	64	67
15F	58.4	70	70	70	68	65	63	65	67	69	70	70	70	70	69	67	64	64	67
16F	61.3	70	70	70	68	65	63	65	67	69	70	70	70	70	69	67	64	64	67
17F	64.3	70	70	70	68	65	63	65	67	68	70	70	70	70	69	67	64	64	67
18F	67.3	70	69	70	68	65	63	65	67	68	70	70	70	70	69	67	64	64	67
19F	70.2	70	69	70	68	65	63	65	67	68	70	70	70	70	69	67	64	64	67
20F	73.2	70	69	70	68	65	63	65	67	68	70	70	70	70	69	67	64	64	67
Max Noise Level, dB(A)	1	70	20	70	70	65	63	65	69	70	70	70	70	70	69	67	64	65	20
No. of Exceedance Per NSR	e Per NSR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Result Summary (Detail) - Mitigated Case (am) - Tower 1 to Tower 2

Legend Acoustic Window (Baffle Type) AW(B1

/ Non-residential unit

\* The assessment point is located at 1m in front of the most exposed part of an openable window for ventilation at a habitable room (NSRs) and 1.2m above the floor level of individual floors of the residential towers of the proposed development.

Remark: The predicted noise levels are not the actual noise levels at the external façade after the application of innovative noise mitigation measures (acoustic window/door). These predicted noise levels are the equivalent noise levels at 1.m from the external façade after accounting the reduction in noise levels inside the room offered by the proposed noise mitigation measures.

Written Representation in relation to Amendment Item D4 of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 on Rezoning of Park'N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui

# **Appendix 4**

### **Traffic Impact Assessment**

Written Representation in Relation to Amendment Item D4 of Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/ FSS/25 on Rezoning of Park' N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui"

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Traffic Impact Assessment

January 2022





Written Representation in relation to Amendment Item D4 of Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/ FSS/25 on Rezoning of Park' N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui?

Traffic Impact Assessment We commit We deliver

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### 1. INTRODUCTION

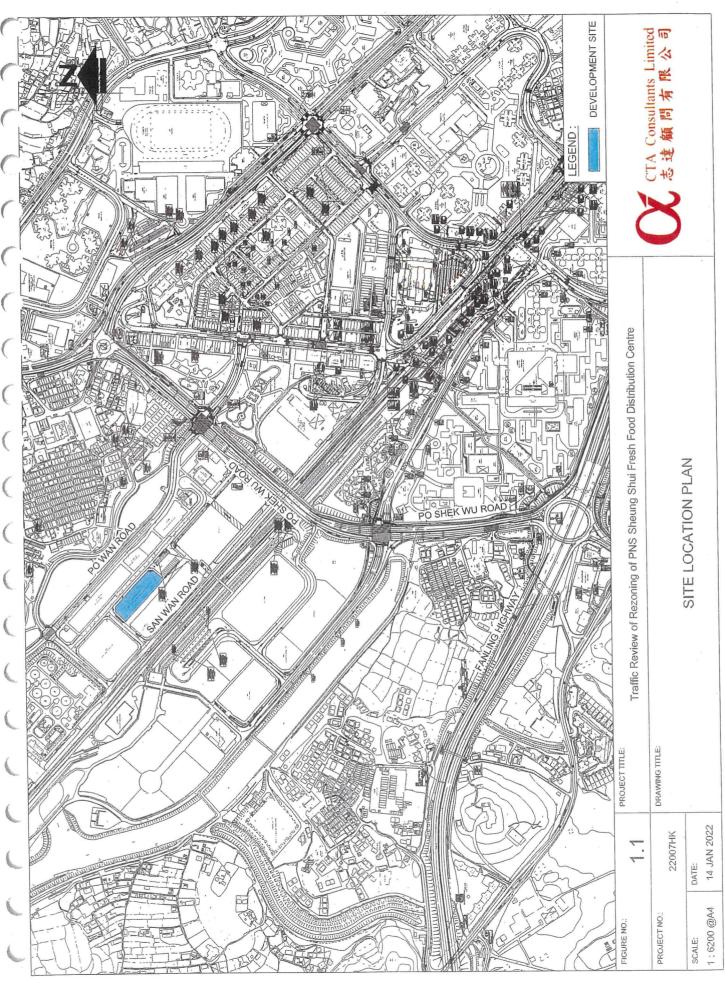
### 1.1 Background

- 1.1.1 CTA Consultants Limited was commissioned as the traffic consultant to prepare a Traffic Impact Assessment (TIA) study for the written representation in relation to Amendment Item D4 of Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/FSS/25on Rezoning of Park' N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated business zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui from "industrial" to "Residential (Group E)". Location of the indicative development is shown in Figure 1.1.
- 1.1.2 The total site area of the indicative development is approximately 3,041 m<sup>2</sup>. The indicative development is scheduled for completion by 2027 tentatively.
- 1.1.3 This TIA study is to examine the impact of the traffic generated by the development on the existing and planned road networks in the near vicinity. Any deficiency would be identified and improvement proposals would be recommended if necessary to resolve any foreseeable problem.

### 1.2 Study Objectives

- 1.2.1 The main objectives of the study are as follows:
  - i) to assess the existing traffic conditions in the vicinity of the development;
  - ii) to forecast traffic demands on the adjacent road network in the design year 2030;
  - iii) to estimate the likely traffic generated by the indicative development;
  - iv) to assess the impacts of traffic generated by the indicative development on the adjacent road network; and
  - v) to recommend improvement measures, if necessary, to alleviate any traffic problems on the road network

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Written Representation in relation to Amendment Item D4 of Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/ FSS/25 on Rezoning of Park' N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui" Traffic Impact Assessment

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#### 2. THE DEVELOPMENT

### 2.1 Development

- 2.1.1 The application site consists of residential and commercial uses, giving a total development site area of approximately 3,041 m<sup>2</sup>.
- 2.1.2 The development parameters of the indicative development are summarized in Table 2.1.

Parameters	Devel	opment Parameters
Development Site Area		About 3,041 m <sup>2</sup>
Plot Ratio for Domestic		nestic Plot Ratio: 5 mestic Plot Ratio: 0.5
Domestic GFA (m <sup>2</sup> )	A	about 15,205 m <sup>2</sup>
Non-domestic GFA (m <sup>2</sup> )	A	bout 1520.5 m <sup>2</sup>
No. of Blocks		2
No. of Flats	GFA (m <sup>2</sup> )	No. of Flats
INO. OI FIAIS	Total	<u>304</u>

### Table 2.1 Development Parameters of the Development

2.1.3 It is anticipated that the indicative development will be completed by 2027 tentatively.

### 2.2 **Internal Transport Facilities Provisions of Indicative Development**

2.2.1According to the requirements stipulated in the latest Hong Kong Planning Standards and Guidelines (HKPSG), the internal transport facilities provision for the indicative development is summarized in Table 2.2.

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Written Representation in relation to Amendment Item D4 of Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/ FSS/25 on Rezoning of Park' N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui" Traffic Impact Assessment

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# Table 2.2Internal Transport Facilities Provision for Residential and CommercialUses Required under HKPSG

Indicative Development.	Parkin	g can parki	Parking r	equirement (s.2:5m)	Visitor parking space (5m ± 2.5m).	Loading/unloading requirement Loading/unloading bay for goods vehicles (11m x3.5m)
Private Residential Block No. 2 No. flats:	GPS (1 car space per 4-7 flats)	R1 40 <fs ≤70</fs 	R2 Outside 500m radius of rail station	R3 2.00 <pr≤ 5.00</pr≤ 	1-5 visitor spaces for development more than 75 unit per block or as determined by authority	1 bay for every 800 units, or min, 1 bay for each block or as determined by authority
304 Average flat size= 50m <sup>2</sup> Plot ratio: 5	44-76	=GPS x R	1.00 requirement 1 x R2 x R3 3-92	1.00	. 5	2
Commercial GFA: 1520.5m <sup>2</sup>			per 150-300m	1 <sup>2</sup>	/	1 loading/unloading bay for goods vehicles for every 800 to 1200m <sup>2</sup> , or part thereof GFA. 2
Total Parking provision (Residential + Commercial)	6.	2	82		5	. 4



Written Representation in relation to Amendment Item D4 of Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/ FSS/25 on Rezoning of Park' N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui" Traffic Impact Assessment

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### 3. THE EXISTING TRAFFIC CONDITIONS

### 3.1 Existing Road Network

- 3.1.1 The existing road network in the vicinity of the indicative development is shown in Figure 3.1. The indicative development is mainly accessed by Ka Fu Close.
- 3.1.2 Ka Fu Close is a single 2-lane 2-way local road, connecting with Cheuk Wan Street and San Po Street.
- 3.1.3 Cheuk Wan Road is a 2-lane 2-way local road, connecting with Ka Fu Close and San Wan Road. It provides the access for the indicative development.
- 3.1.4 San Po Street is a 3-lane 2-way local road, connecting with Po Wan Road, Ka Fu Close, San Wan Road and Sheung Shui Tung Hing Road.

### 3.2 Public Transport Provisions

- 3.2.1 Road-based public transport services are operating at the vicinity of the subject site.
- 3.2.2 Details of Franchised Bus and GMB routes operating in the vicinity of the 500m catchment area of the application site are summarized in the below Table 3.1 and Figure 3.2.

Table 3.1	Road-Based	Public 7	<b>Fransport</b>	Services in	the Vicinity
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Service	Route	Origin – Destination	Erequency (min)
	73K	Sheung Shui - Man Kam To	10-30(1);20-30(2)(3)
· .	79K	Sheung Shui - Ta Kwu Ling (Tsung Yuen Ha)	20-30 <sup>(1)</sup> ; 20-30 <sup>(2)</sup> ; 30 <sup>(3)</sup>
	270S	Tsim Sha Tsui East -Fanling (Luen Wo Hui)	0045; 0110;0135;0200;0230
Franchised Buses	673P	Sheung Shui - Central (Rumsey Street)	0640; 0700; 0730; 0800; 0830 <sup>(1)(2)</sup>
	N373	Central - Fanling (Luen Wo Hui)	30
	373	Central (Hong Kong Station) - Sheung Shui	0710 <sup>(4)</sup> ; 20 <sup>(5)</sup>
	77K	Yuen Long (Fung Cheung Road) - Sheung Shui	20-30 (1)(2); 20-30 (3)
GMB	59K	Lin Ma Hang - Sheung Shui Station	15-30

(1) Weekday only

(2) Saturday only

(3) Holiday only

(4) Saturday (except public holidays)

(5) Monday to Friday (except public holidays)



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Written Representation in relation to Amendment Item D4 of Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/ FSS/25 on Rezoning of Park' N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui" Traffic Impact Assessment

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- 3.2.3 A bus stop is located at Po Shek Wu Road. It is adjacent to the indicative development, providing bus services towards Fanling, Central and Sheung Shui.
- For GMB service, about 50m apart from the subject site, is located at Po Shek Wu Road, 3.2.4 providing minibus service towards Sheung Shui station.

### 3.3 **Critical Junctions**

As shown in Figure 3.1, SIX junctions were identified to be critical for assessment of traffic 3.3.1 impact due to the indicative development. They are listed in below Table 3.2 and their existing junction layout arrangements are shown in Figures 3.3 to 3.8 respectively.

Ref.	Junction	Туре	Figure No.
Junction A	Ka Fu Close/ Cheuk Wan St	Priority	3.3
Junction B	San Po Street/ Ka Fu Close	Priority	3.4
Junction C	Po Wan Road/ San Po Street/ Sheung Shui Ting Hing Road	Signal	3.5
Junction D	Po Wan Road/ Po Shek Wu Road	Roundabout	3.6
Junction E	Po Shek Wu Road/ Choi Yuen Road	Signal	3.7
Junction F	Po Shek Wu Road/ Fan Kam Road/ Fanling Highway	Roundabout	3.8

#### Table 3.2 **Identified Critical Junctions**

- 3.3.2 In order to establish the existing traffic condition in the above-mentioned critical junctions, traffic survey in the form of manual classified count was conducted in January 2022. The survey was conducted during the morning and evening peak periods of a typical weekday. Analysis of the observed traffic data indicates that the AM and PM peak hour flows occurred from 07:30 to 09:30 and from 16:30 to 18:30 respectively.
- Due the COVID-19, the surveyed traffic flows may be less that of the normal conditions. 3.3.3 Therefore, additional surveys are carried at the ATC Core station 5003 (at Fanling Highway) to find out the "corrected" factor. Table 3.3 gives the surveyed results as compared to the 2018 survey data at the ATC Core station 5003.

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Written Representation in relation to Amendment Item D4 of Draft Fanling/ Sheung Shui Outline Zoning Plan No. S/ FSS/25 on Rezoning of Park' N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui" Traffic Impact Assessment

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		South Bou	nd (veh/hr)	North Bound	l (veh/hr)	Tedal
		AM Peak	PM Peak	AM Peak	PM Peak	Total
Data -ATC ( 5003 (Ye		3,555	3,590	3,685	3,785	<b>-</b> , 2
Growth Fa from 2018		3,699	3,736	3,835	3,939	15,209
Surveyed Flow	Normal weekday	3,165	3,265	3,000	2,945	12,375
		1		COV	ID-19 Factor	1.23

Table 3.3 Derivation of COVID-19 Factor

Note (1): The growth factor = 1% (please refer to Section 4.2.7)

(2): ATC 2019 not adopted due to the traffic flows may affected by public meetings and social events in Year 2019

- 3.3.4 The COVID-19 Factor of <u>1.23</u> is then applied to the surveyed traffic flows to give the COVID-19 corrected surveyed traffic flows shown in Figure 3.9 for the use in the later section of this report.
- 3.3.5 Existing operational performance of the critical junctions are listed in Table 3.4 below.

1 able 3	.4 Operational Performance of	Identified Critic	al Junctions in	2022
Ref.	Junction	Method of Control	RC/R	2022 IFC <sup>(1)</sup> PM·Peak
A	Ka Fu Cl/ Cheuk Wan St	Priority	0.11	0.09
В	San Po Street/ Ka Fu Close	Priority	0.29	0.28
C	Po Wan Road/ San Po Street/ Sheung Shui Ting Hing Road	Signal	43%	50%
D	Po Wan Road/ Po Shek Wu Road	Signal	21%	23%
E	Po Shek Wu Road/ Choi Yuen Road	Signal	42%	47%
F	Po Shek Wu Road/ Fan Kam Road/ Fanling Highway	Roundabout	0.66	0.71

Table 3.4Operational Performance of Identified Critical Junctions in 2022

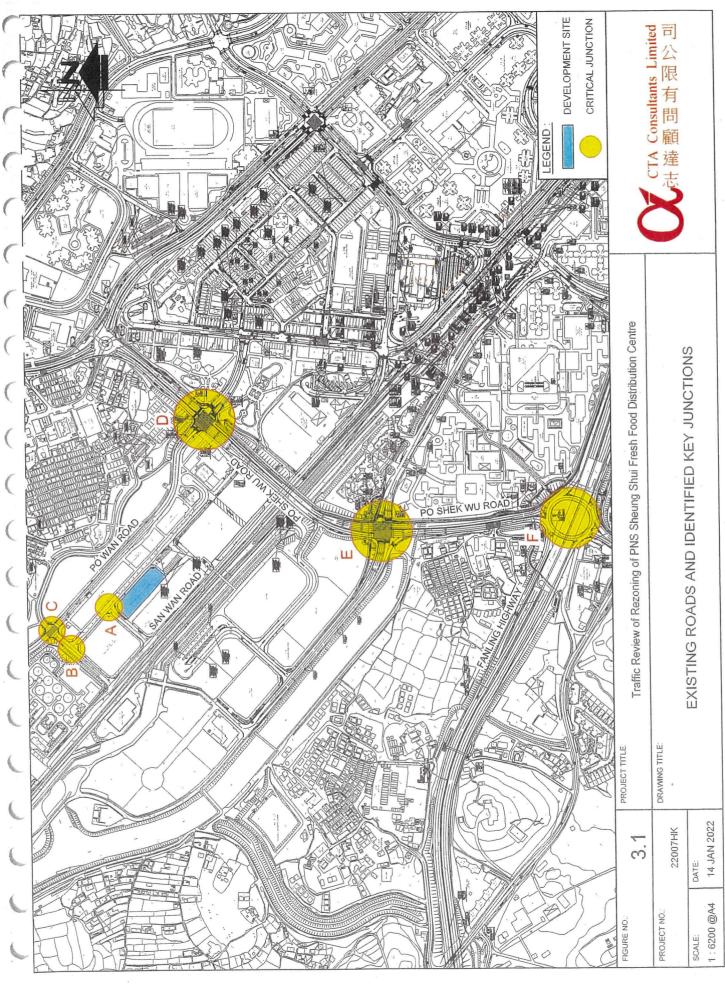
Note: (1) RC = Reserve Capacity

RFC = Ratio of Flow to Capacity for Priority Junction

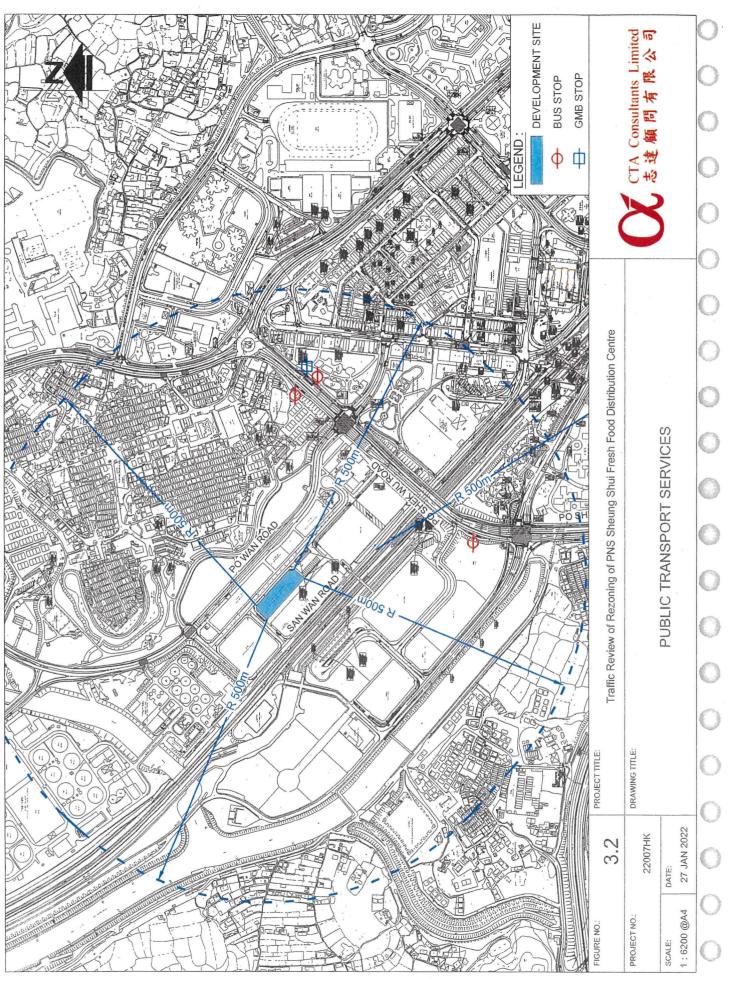
3.3.6 The assessment results in Table 3.4 indicate that all junctions are at present operating with an amply capacities.

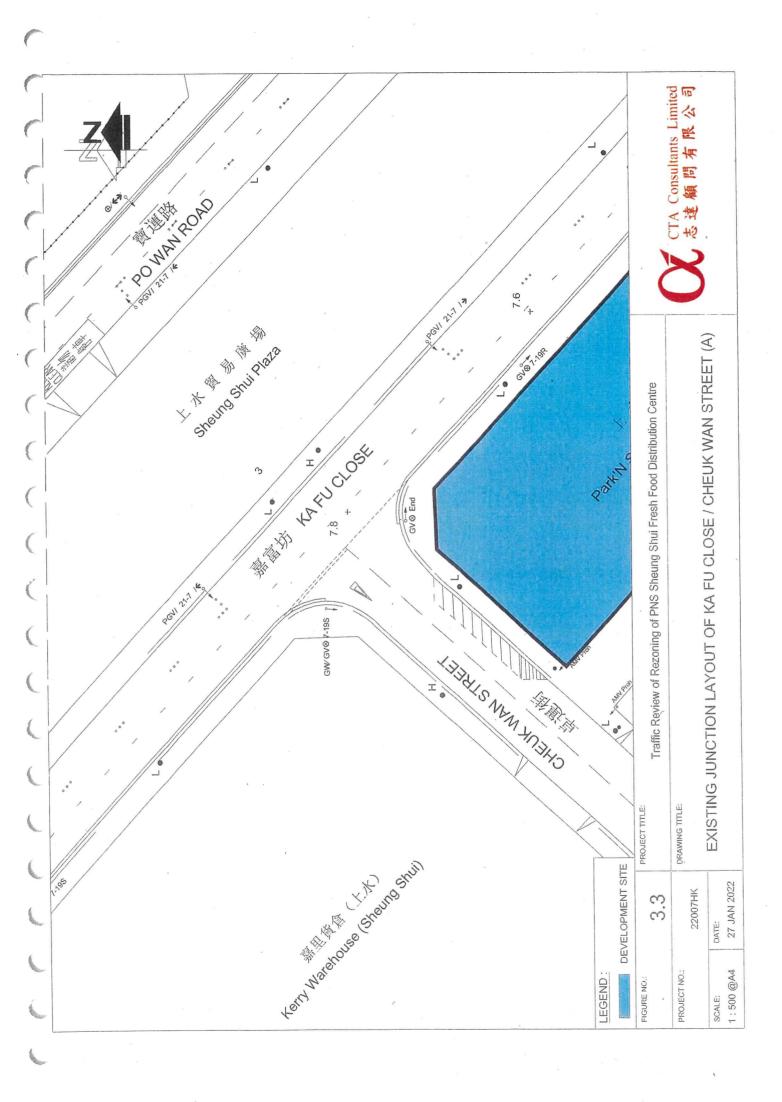
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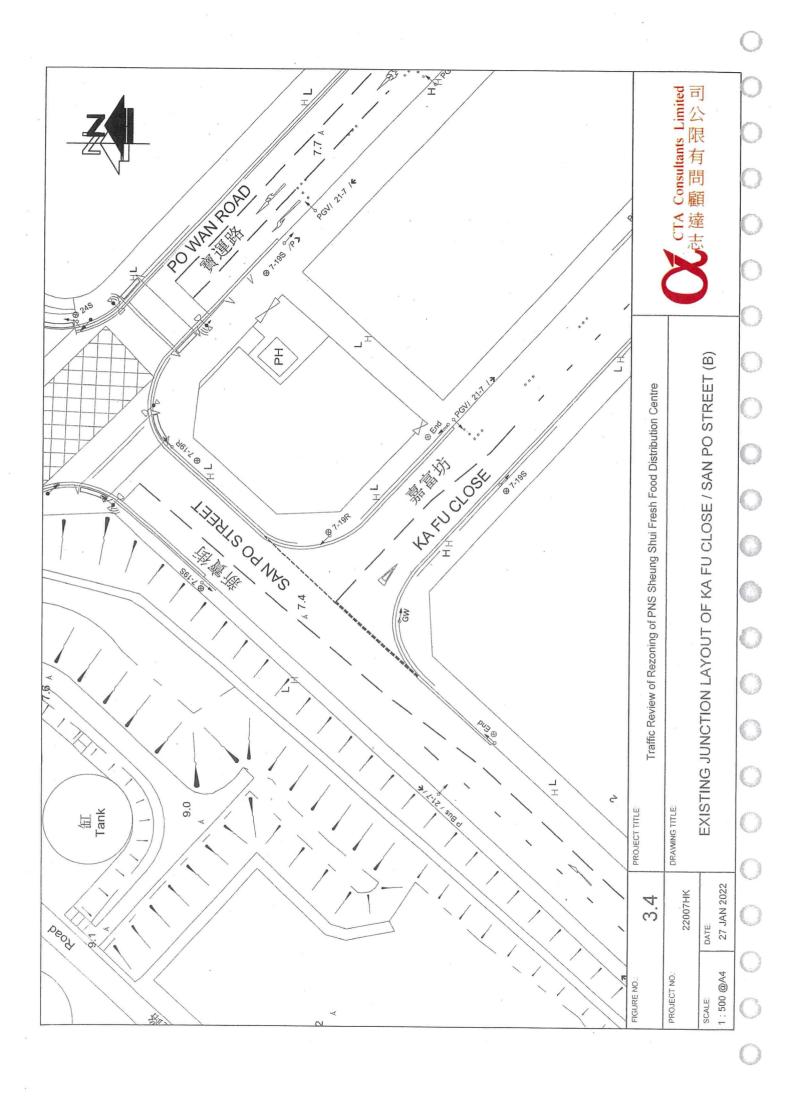
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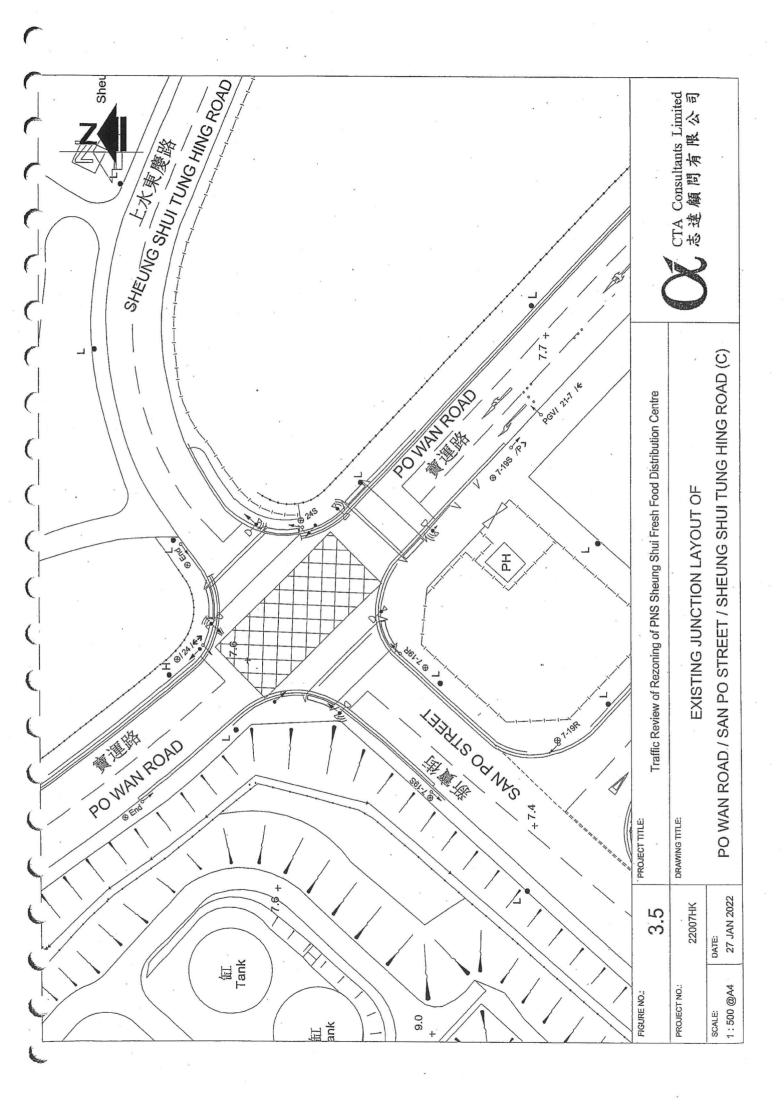


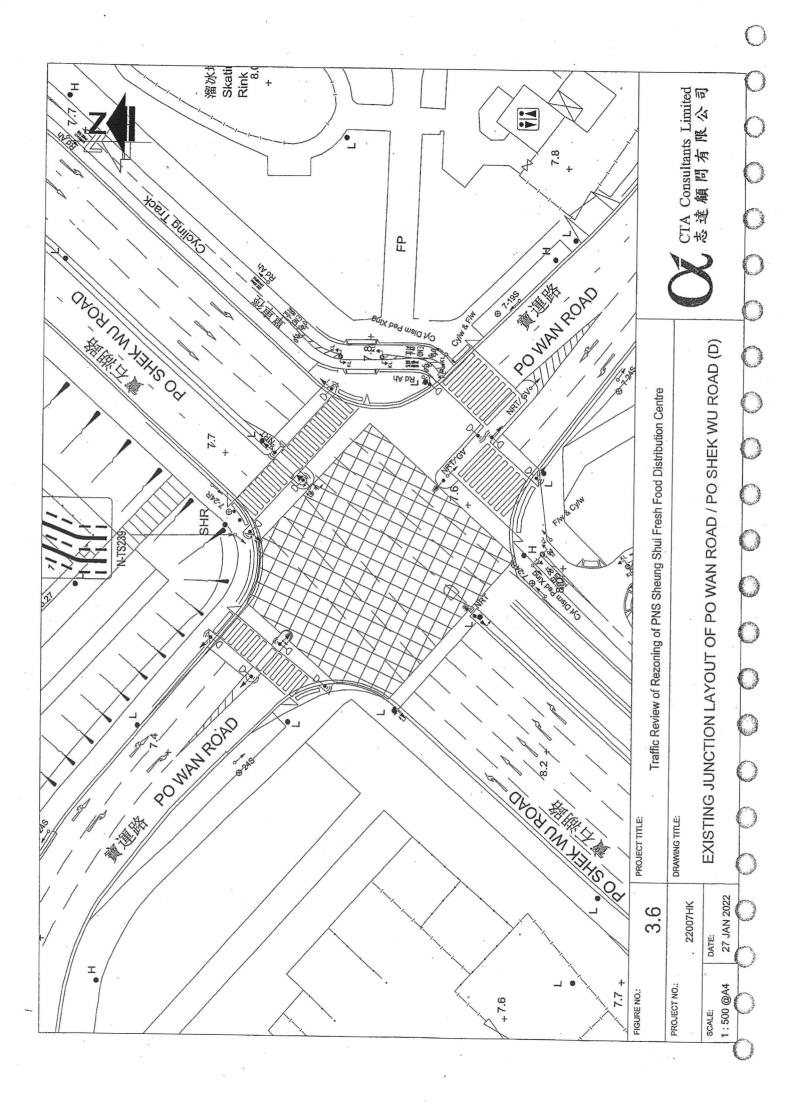
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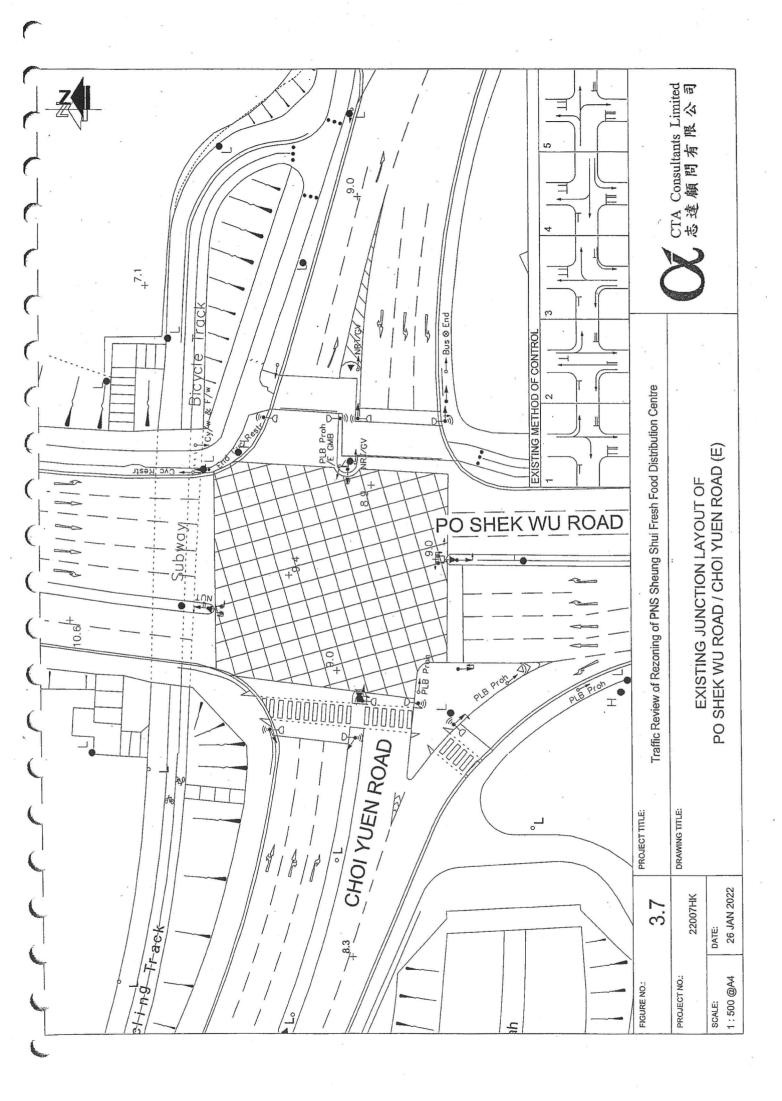


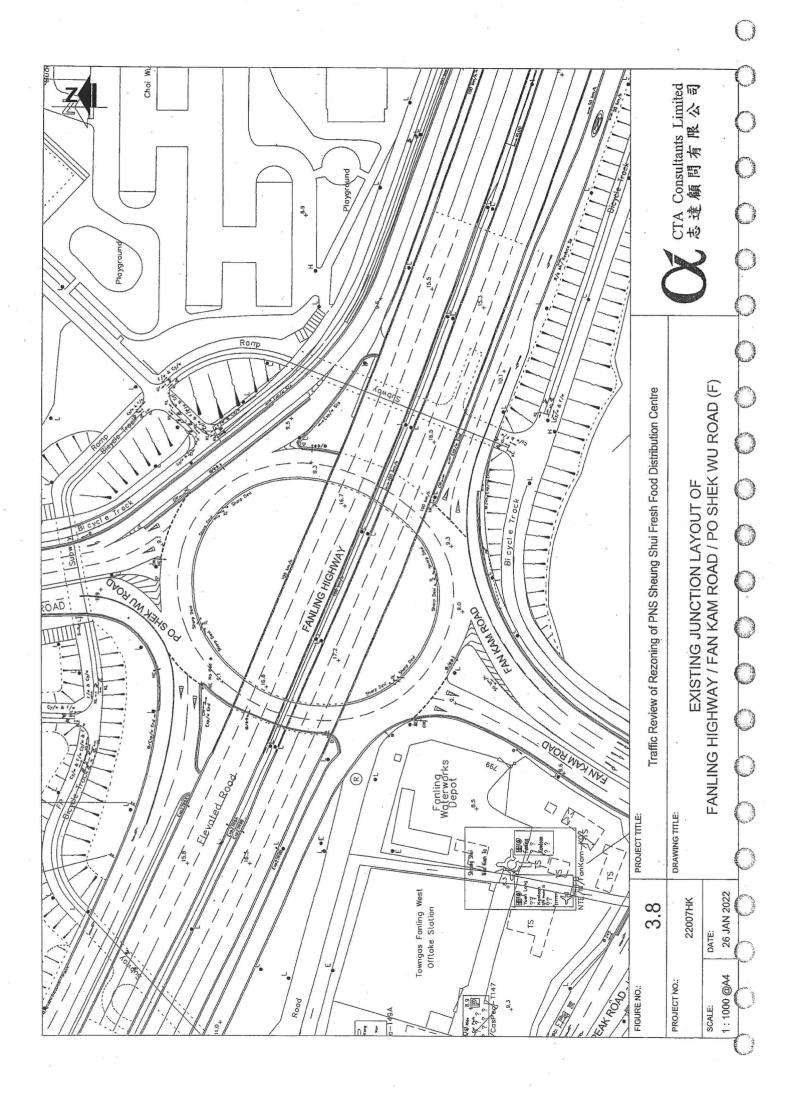


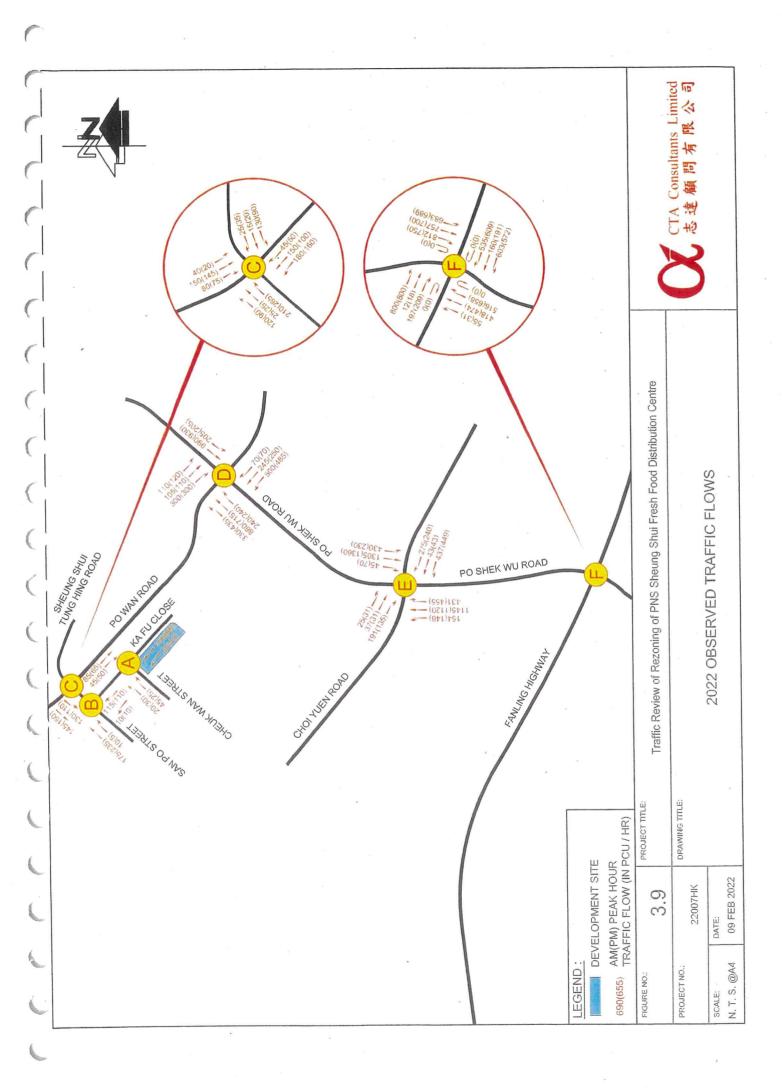












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### THE FUTURE TRAFFIC CONDITIONS 4.

### 4.1 Design year

4.1.1It is anticipated that the indicative development will be completed by 2027 tentatively. In order to assess the impact of the development related traffic on the local road network, it is necessary to forecast the traffic flows for 2030, the adopted design year (3 years beyond completion year). This is also the strategic study year currently adopted by the Hong Kong Government for the overall long-term planning of Hong Kong's transport system.

### 4.2 **Future Junction Layout**

- 4.2.1 The following junction improvement works have been indicative and will be carried out by either by government or other parties:
  - Figure 4.1 Junction D Po Wan Road/ Po Shek Wu Road
  - Figure 4.2 Junction E Po Shek Wu Road/ Choi Yuen Road
  - Figure 4.3 Junction F Po Shek Wu Road/ Fan Kam Road/ Fanling Highway
- 4.2.2 The assessment of the critical junctions will base on the indicative junction arrangement.

### 4.3 **Reference Traffic Flows**

4.3.1 To estimate the 2030 reference traffic flows (without the indicative development) in the local road network, an appropriate growth factor has to be identified for the area in the first instance. The following approaches have been adopted in order to derive a growth factor in this district.

### Historical Trend

4.3.2 Numerous of traffic count stations are located in the vicinity of the indicative development. The traffic counts reported in the Annual Traffic Census (ATC), which is published by Transport Department, over a period of five years, i.e. 2013 to 2018 are summarized in Table 4.1.

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Table 4.1 Historical Traffic Data from Annual Traffic Census (ATC)								
ATC			Annual	Average D	aily Traffic	(AADT)		Avg.
Station	Road Name	2013	2014.	2015	2016	2017	2018	Annual Growth
5204	Fanling Highway (Slip Roads to & from Fan Kam Rd INT – Slip Roads to & from So Kwun Po INT)	83,410	73,030	76,410*	80,720*	80,140*	77,280	-1.52%
6080	Sam Wan Road	3,500	3,460	3,440*	3,580*	3,680	3,660	0.90%
5251	Choi Yuen Rd	17,460	16,610	16,480	17,160	16,890	18,700	1.38%
6042	Po Wan Rd	5,100	5,050*	5,010*	5,210*	5,440	5,080	-0.08%
6018	Po Shek Wu Rd	32,860	32,650*	34,160*	36,090*	36,210	36,460	2.10%
	TOTAL	142,330	130,800	139,230	139,320	142,360	141,180	-0.16%

 Table 4.1
 Historical Traffic Data from Annual Traffic Census (ATC)

Note: \*AADT estimated by Growth factor

\*\*Data of Year 2019 was not adopted as they may affected by the public meetings and processions in 2019

\*\*\*Data of Year 2020 was not adopted as they may affected by the COVID-19 in 2020

# 2016-Based TPEDM planning data

4.3.3 Reference has also been made to the "2016-Based TPEDM planning data" published by Planning Department for years 2021 and 2026. The average annual growth rates in terms of population and employment from 2021 to 2026 are shown in **Table 4.2**.

1 able 4.2	2016-based Population	and Employment Growth from 2021 to 2026
	1 minutes	and Employment Growth Holli 2021 to 2026

	Fanling / Sheu	ng Shui	
Data	The second s	ar2026	Average Annual Growth Rate
Population	258,250	270,900	+0.96%
Employment	62,200	65,500	+1.04%
Total	320,450	336,400	+0.98%

4.3.4

From **Table 4.2**, it is found that the average annual growth rates of population and employment in Fanling/ Sheung Shui from year 2021 to 2026 are +0.98% per annum.



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### Adopted Growth Rate

- 4.3.5 A.A.D.T. of ATC indicates that the traffic flows in the local road network have an increasing trend with annual growth rate of -0.16% during past years from 2013 to 2018.
- 4.3.6 Whilst, the 2016-based TPEDM planning data indicates that the population and employment in Fanling/ Sheung Shui are expected to change with annual growth rate of +0.98% from 2021 to 2026.
- 4.3.7 For a conservative approach, the annual growth rate of <u>+1.0%</u> p.a. is adopted, which represents the strategic growth of traffic on the main roads in Sheung Shui. It is deemed sufficient to allow any unexpected future growth as a result of some changes related to land use or redevelopment in the area.

# 4.4 Traffic Generations of Adjacent New Developments

4.4.1 In order to fully reflect the growth traffic, trip generation of the future vicinity developments have been considered. The planned development parameters in Sheung Shui are shown in Figure 4.4 and detailed in Table 4.3.

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Site No.	Development <sup>*</sup>	Use
А	Indicative Houses at D.D.92 and adjoining Government Land, Kwu Tung South, Sheung Shui, N.T.	Houses
В	Private Residential Development at Various Lots in D.D. 92	Private Residential
С	Private Residential Development at Lot No.4076 in D.D. 91	Private Residential
D	Public Housing Development at Fanling Area 36 Phase 4 (Ching Ho Extension)	Public Housing
E	Indicative Housing Site at Po Shek Wu Road, Sheung Shui	Subsidized Sale Flat
F	Indicative Public Housing Development Sites 1 & 2 in Sheung Shui Areas 4 and 30	Public Rental Housing
G	Indicative Public Housing Development in Ching Hiu Road (Site B in S/FSS/25)	Public Rental Housing
Н	Indicative Public Housing Development in Tai Tau Leng (Site C in S/FSS/25)	Public Rental Housing
I	Indicative Public Housing Development in Choi Shun Street (Site D in S/FSS/25)	Public Rental Housing

 Table 4.3
 Adjacent New Developments of the Subject Site

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4.4.2 The estimation on trip generations and attractions of the adjacent residential development is based on its submitted TIA report or lease requirements. Table 4.4 shows the summary of the trip rates of the adjacent planned residential developments.

Table 4.4         Adopted Trip Generations and Attractions of Ad	liacent Developments
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	Adopted Trip						
Site No.	Development	Parameters :	Units	ÂM	Peak	PM	Peak
				Gen.	Att.	Gen.	Ait.
	Indicative Houses at D.D.92 and adjoining Government	27.11	pcu/hr/flat	0.3276	0.2407	0.2233	0.3097
A	Land, Kwu Tung South, Sheung Shui, N.T.	37 Houses	pcu/hr	12	9	8	11
В	Private Residential Development at Various Lots in D.D. 92 <sup>(1)</sup>	1,147 flats	pcu/hr/flat	107	, <b>75</b>	94	159
с	Private Residential Development at Lots No. 4076	15,840 m <sup>2</sup> to 26,400 m <sup>2</sup>	pcu/hr/flat <sup>(3)</sup>	0.0718	0.0425	0.0286	0.037
Ũ	in D.D. 91	GFA	pcu/hr	32	19	13	16
		772 flats	pcu/hr/flat <sup>(2)</sup>	0.0622	0.0426	0.0297	0.0401
D	Public Housing Development	772 Hats	pcu/hr	48	33	23	31
D	at Fanling Area 36 Phase 4 (Ching Ho Extension)	Detail 2 600 m <sup>2</sup>	pcu/hr/100 sqm GFA	0.2296	0.2434	0.3100	0.3563
	-	Retail 2,600 m <sup>2</sup>	. pcu/hr	6	6	. 8	9
	·	1,850 flats	pcu/hr	115	79	55	74
Е	E Indicative Housing Site at Po Shek Wu Road, Sheung Shui <sup>(1)</sup>	Retail: 3,000 m <sup>2</sup> GFA	pcu/hr	7	7	9	11
		Kindergarten: 767 m <sup>2</sup> GFA	pcu/hr	30	30	30	30
		2,088 flats	pcu/hr	56	52	41	47
• •	Indicative Public Housing Development in Sheung Shui	Retail: 395 m <sup>2</sup> GFA	pcu/hr	1	1	2	2
F	Areas 4 and 30 (Site 1) <sup>(1)</sup>	Kindergarten (6 classrooms) and Welfare facilities (8,710 m <sup>2</sup> GFA)	pcu/hr	30	30	30	30
	Indicative Public Housing Development in Sheung Shui	1,556 flats	pcu/hr	42	39	31	38
	Areas 4 and 30 (Site 2) <sup>(1)</sup>	Retail: 700 m <sup>2</sup> GFA	pcu/hr	2	.2	3	3
	Indicative Public Housing		pcu/hr/flat (2)	0.0622	0.0426	0.0297	0.040
G	Development in Ching Hiu Road	About 620 flats	pcu/hr	39	26	18	25
	(Site B in OZP no. S/FSS/25)	Kindergarten and Welfare facilities	pcu/hr <sup>(4)</sup>	30	30	30	30
	Indicative Public Housing	Alter (2,200 Bete	pcu/hr/flat (2)	0.0622	0.0426	0.0297	0.040
н	Development in Tai Tau Leng (Site C1 in OZP no.	About 3,300 flats	pcu/hr	205	141	98	132
	S/FSS/25) <sup>(5)</sup>	Kindergarten and Welfare facilities	pcu/hr <sup>(4)</sup>	30	30	30	30
	Indicative Public Housing Development in Choi Shun	PRH/SSF (2,663flats)	pcu/hr	166	113	71	.96
Ι	Street	Primary School	pcu/hr	6	. 28	6	0
	(Site D1 & 2 in OZP no. S/FSS/25) <sup>(1)</sup>	PVP (70 Spaces)	pcu/hr	13	16	16	11
2	Total for Site F a	nd I	Pcu/hr	316	281	200	. 227
	Over	all Total		977	766	<u>616</u>	785

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Note: (1) According to their TIA.

(2) Trip rate of average flat size 50  $m^2$  for subsidized housing is adopted.

(3) Assume Total GFA 26,400  $m^2$ , average flat size 60  $m^2$  and 440 flats.

(4) Reference from TIA of Indicative Public Housing Development in Sheung Shui Areas 4 and 30.

(5) Target completion year of Site H (i.e. Site C1 in OZP no. S/FSS/25) is 2032/33 which is beyond our design year

and therefore will not be considered in this assessment.

(6) There is no detailed parameter, target completion year or TIA for Site D3 & D4 in OZP no. S/FSS/25. It is assumed beyond our design year and will <u>not</u> be considered in this assessment.

# Table 4.5 Traffic Flow of the Existing Development

	Vear	2022	
	I ear	2022	
AM	Peak	PM	Peak
Generation	Attraction	Generation	Attraction
320	253	374	279
			•

# Table 4.6 Net Growth of the Traffic Flow of Adjacent Planned and Existing Developments

	AM	Peak	PM	Peak
The second second second second second	Generation	Attraction	Generation	Attraction
Committed planning developments (F and I)	316	281	200	227
Existing development	320	253	374	279
Net Growth	<u>-4</u>	<u>28</u>	<u>-174</u>	-25
For the sake of conservative approach, These were assumed	<u>28</u>	<u>28</u>	<u>28</u>	28

4.4.3 The reference traffic of local road network is derived following the equation below:

2030 Reference Flows (Without Indicative Development)	-	2022 Observed Flows	x	Adopted Growth Factor (i) (i.e. +1.0% p.a. for 8 years)	+	Net I Traff Adjac Deve
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Net Increase in Traffic Flows of djacent Planned Developments

4.4.4 The 2030 reference traffic flows are presented in Figure 4.5.



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### 4.5 Traffic Generations and Attractions of Indicative Development

- 4.5.1 To estimate the traffic generation and attraction of the indicative development, reference has been made to the trip generation rates as stipulated in Volume 1 Chapter 3 Appendix C Table 1 of T.P.D.M. published by Transport Department.
- 4.5.2 For conservative approach, interpolation with respect to average flat size and upper limit of the trip rates are adopted for the indicative development. The adopted trip rates are summarized in Table 4.7 below.

### Table 4.7 Adopted Trip Rates of Indicative Development

Indicative Development	AM	Peak	es (in pcu/hr/un PM Generation	Peak
Private Housing 304 units, 50m <sup>2</sup> avg. flat size	0.093*	0.069*	0.038*	0.038*

\* Note: Interpolation w.r.t. average flat size is adopted.

4.5.3 Based on the adopted trip rates listed in **Table 4.7** and the indicative development parameters in **Table 2.1**, the trip generation and attraction of the indicative development are estimated and summarized in below **Table 4.8**.

### Table 4.8 Estimated Trip Generations and Attractions of Indicative Development

304units, 50m² avg. flat șize	<u>28</u>	21	<u>12</u>	<u>12</u>
(in pcu/hr)	Generation	Attraction	Generation	Attraction
Indicative Development	AM	Peak	PM	Peak

### 4.6 Design Traffic Forecasts

4.6.1 The traffic generated from the indicative development was then assigned to the road network. After that, the development traffic flows were then superimposed onto the 2030 reference traffic flows (without indicative development) as illustrated diagrammatically in Figure 4.5 to derive the 2030 design traffic forecasts (with indicative development).

> 2030 Design Flows (with indicative developments)

2030 Reference Flows (without Indicative Development) Indicative Development Traffic



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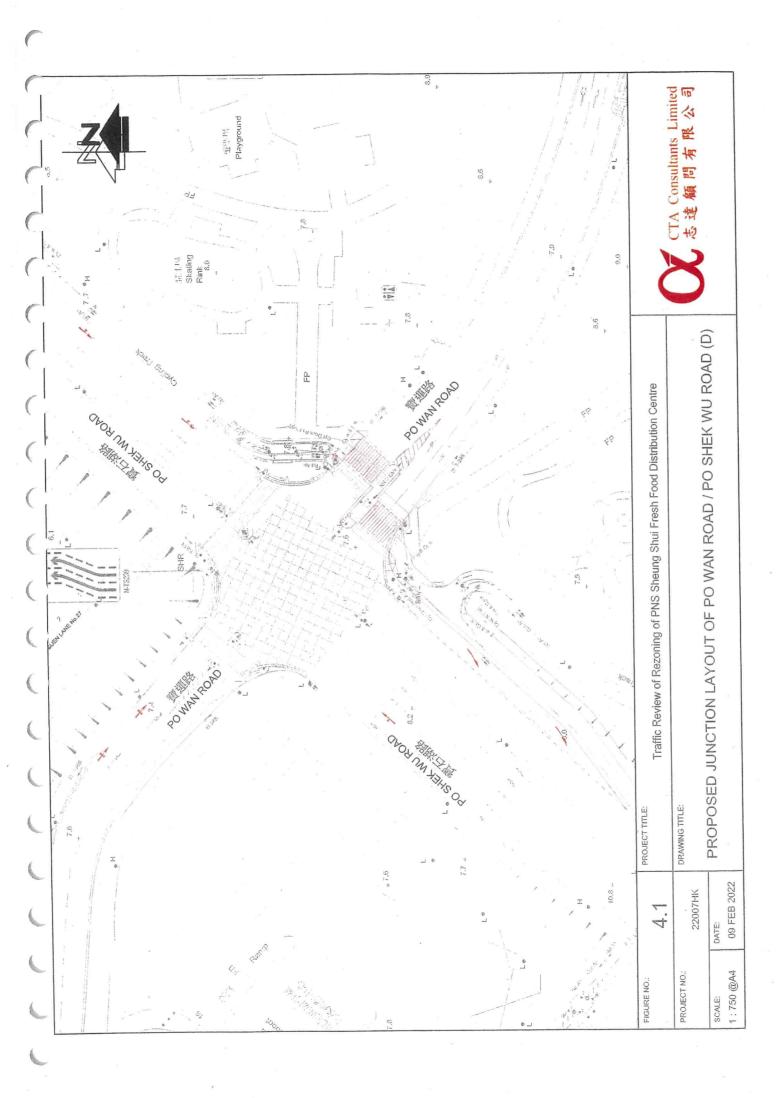
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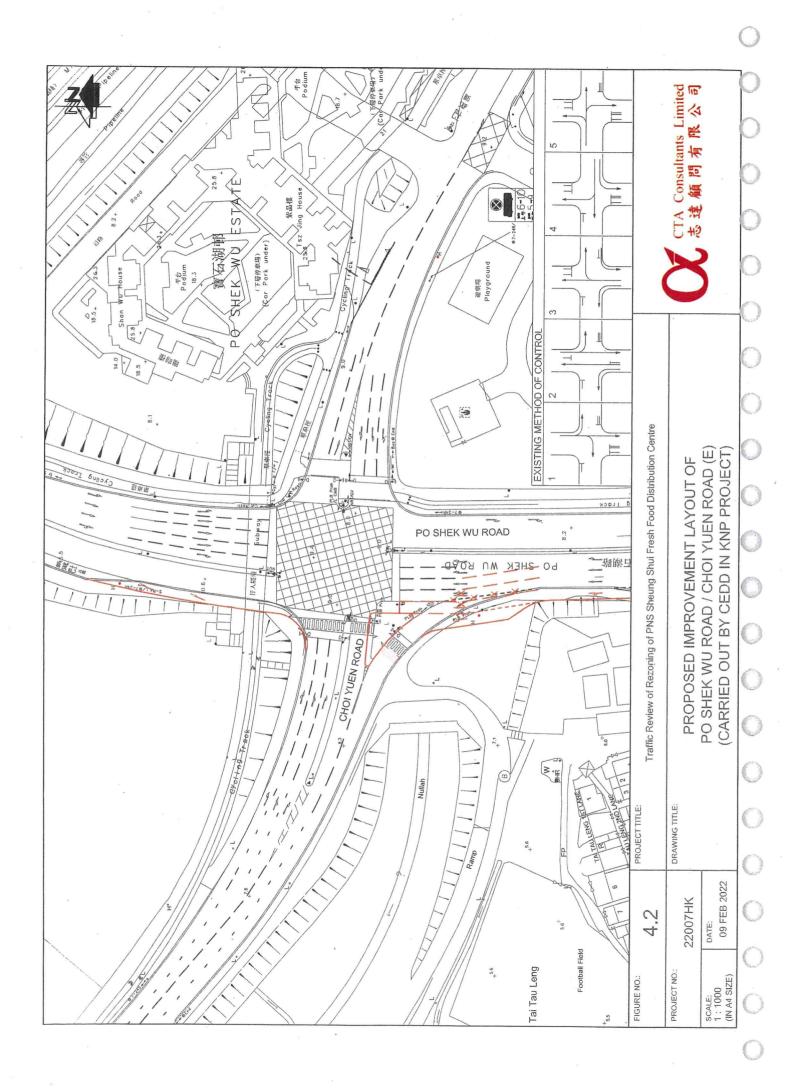
### 4.6 Design Traffic Forecasts

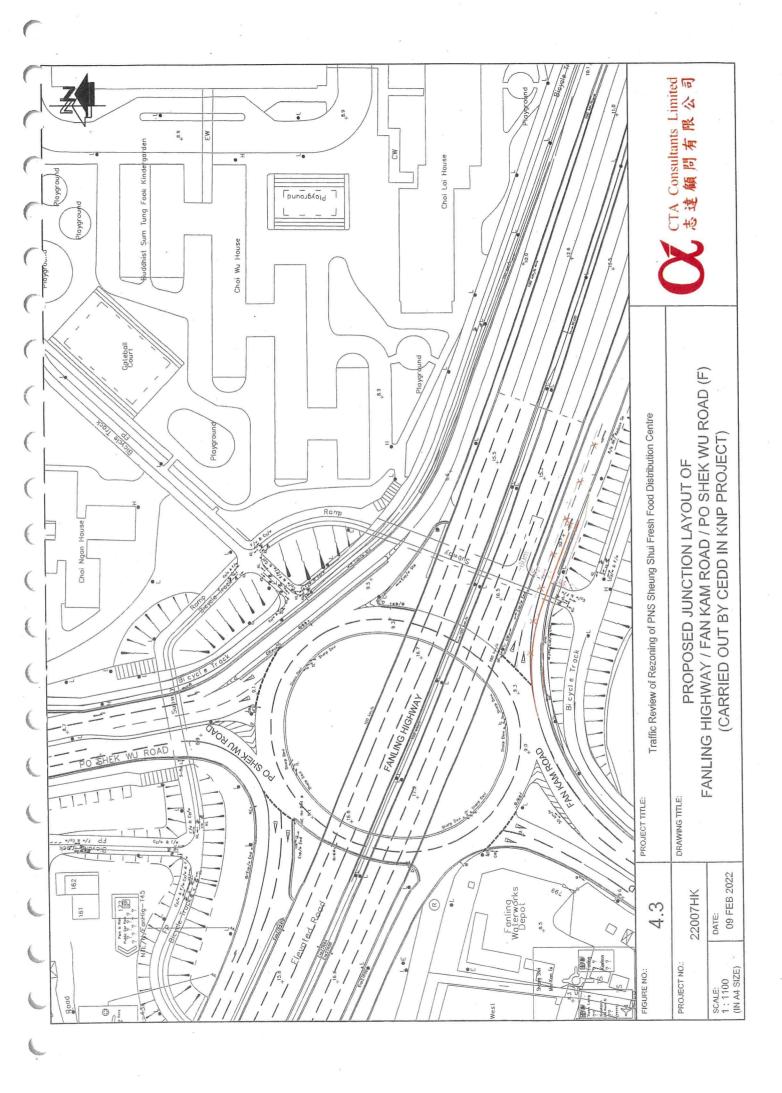
4.6.1 The traffic generated from the indicative development was then assigned to the road network. After that, the development traffic flows were then superimposed onto the 2030 reference traffic flows (without indicative development) as illustrated diagrammatically in Figure 4.5 to derive the 2030 design traffic forecasts (with indicative development).

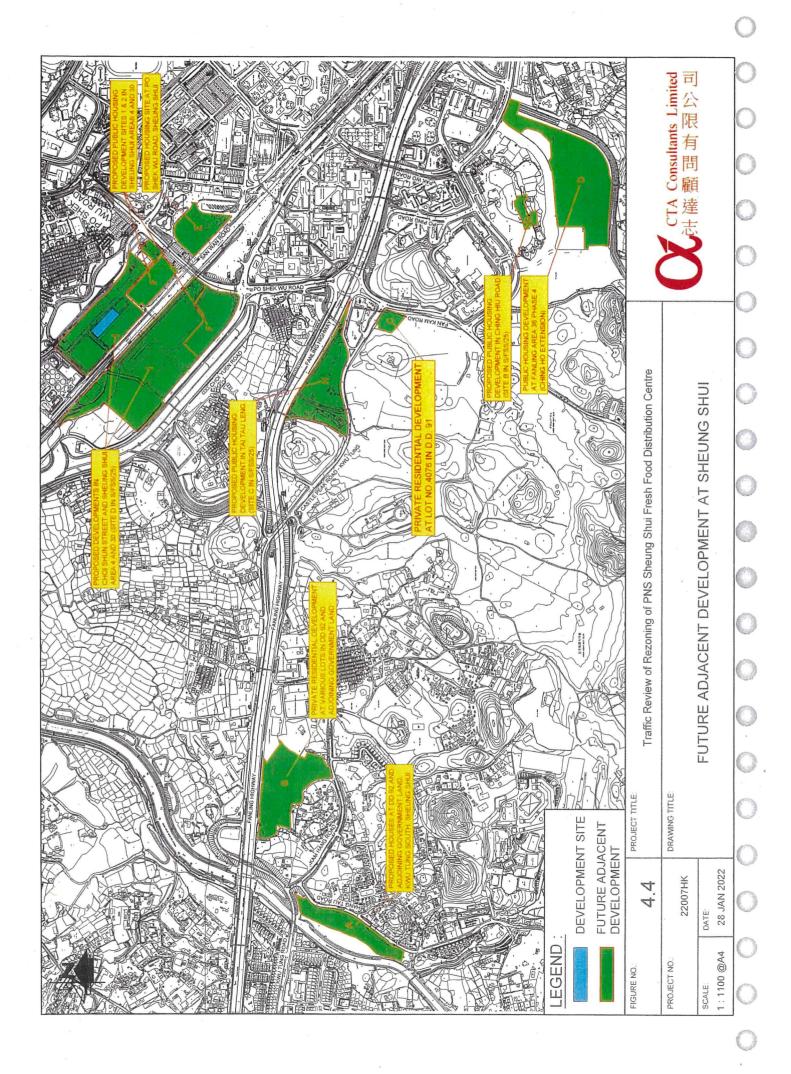
2030 Design Flows<br/>(with indicative<br/>developments)2030 Reference Flows<br/>(without Indicative<br/>Development)Indicative<br/>Development1000 Control<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lower<br/>Lowe

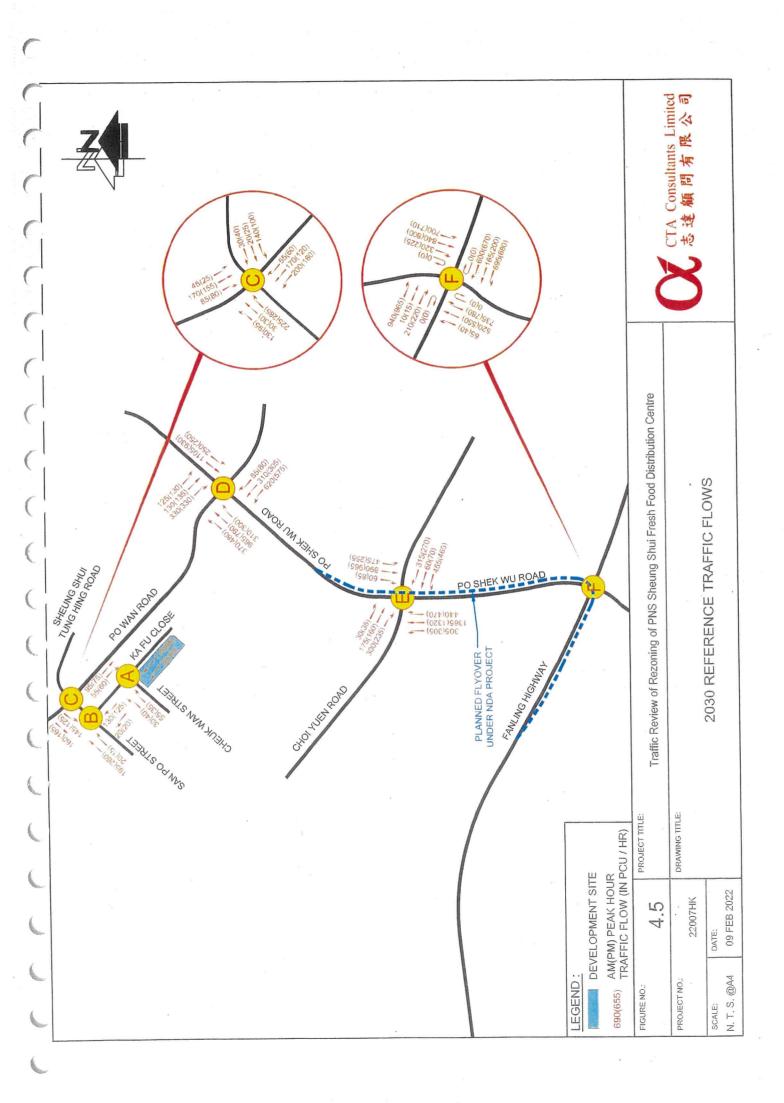
4.6.2 The 2030 AM and PM peak design traffic flows (with indicative development) are shown in Figure 4.6.

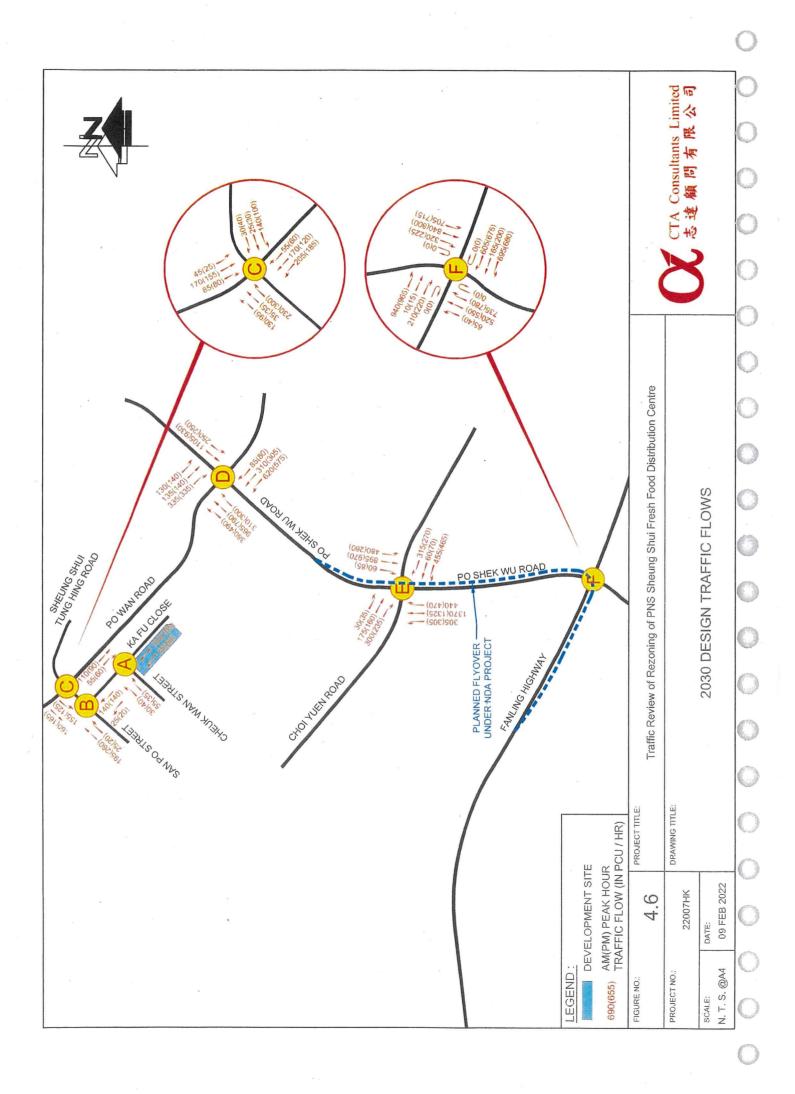














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# TRAFFIC IMPACT ASSESSMENT

#### 5.1 **Operational Assessment**

5.1.1 To assess the traffic impact due to the indicative development, capacity analysis of the identified critical junctions for both the reference and design scenarios in 2030 has been carried out. The results are summarized in Table 5.1.

Table 5.1 Operational Performance of Identified Critical Junctions in 2030

Ref.	Junction	Method of Control	Scen (Without th Develo AM	Year RC/D ence ario e Indicative pment) PM Peak	FC <sup>(1)</sup> Des Scen (With the Develo AM	ario Indicative
Junction A	Ka Fu Cl/ Cheuk Wan St	Priority	0.14	0.12	0.14	0.12
Junction B	Po Wan Road/ San Po Street/ Sheung Shui Tung Hing Road	Priority	0.35	0.34	0.39	0.38
Junction C	San Po Street/ Ka Fu Cl	Signalized	29%	37%	28%	34%
Junction D (Modified)	Po Wan Road/ Po Shek Wu Road	Signalized	17%	21%	16%	19%
Junction E (Modified)	Shek Wu Road/ Choi Yuen Road	Signalized	42%	45%	41%	44%
Junction F (Modified)	Po Shek Wu Road/ Fan Kam Road/ Fanling Highway	Roundabout	0.63	0.66	0.63	0.66

Note: (1)

RC = Reserve Capacity RFC = Ratio of Flow to Capacity for Priority Junction

5.1.2 The assessment results in Table 5.1 indicate that all junctions will operate with an amply capacities.



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#### 6. SUMMARY AND CONCLUSION

#### 6.1 Summary

- 6.1.1 The total site area of the indicative development is 3041 m<sup>2</sup>. The domestic GFA about 15205  $m^2$  is indicative and is expected to be completed by 2027 tentatively.
- 6.1.2 Manual count traffic survey was conducted in the surrounding road network of the indicative development in order to study the existing traffic conditions. Current operational performance of the critical junctions has been assessed and the results indicated that all the identified critical junctions are at present operating with an amply capacities.
- 6.1.3 Year 2030 traffic forecasts have been derived from the observed traffic flows and applied an appropriate growth rate (i.e. +1.0%) with due considerations of the latest Annual Traffic Census (ATC) as published and TPEDM planning data published by Government.
- 6.1.4 Junction Improvement scheme carried out by CEDD under Kwu Tung North and Fanling North New Development Area (NDA) Project has been indicative. Po Shek Wu Interchange Improvement which provides a flyover to allow the right turning traffic from Po Shek Wu Road southbound to Fanling Highway westbound to bypass the existing Junction E (Shek Wu Road/ Choi Yuen Road) and Junction F (Po Shek Wu Road/ Fan Kam Road/ Fanling Highway). Local widening to Junction D is also indicative. This would greatly improve the junction performance in future.
- 6.1.5 Assessment of operational performance of the critical junctions indicates that all critical junctions and links will still operate within their capacities in both reference and design scenarios in year 2030.

#### 6.2 Conclusion

- 6.2.1 In conclusion, the traffic impact assessment study has demonstrated that the traffic generated by the development under Re-zoning Application would not cause significant traffic impact to the local and can be absorbed by the nearby road network in the vicinity.
- 6.2.2 Therefore, the indicative residential development at Sheung Shui Lot No. 2 is considered acceptable in traffic engineering point of view.

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# Appendix 1

**Junction Calculation Sheets** 



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» Junction A - 2022 Existing, AM

» Junction A - 2022 Existing, PM

» Junction A - 2030 Reference, AM

» Junction A - 2030 Reference, PM

» Junction A - 2030 Design, AM

» Junction A - 2030 Design, PM

Summary of junction performance

		AM				РМ					
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS			
		Jur	iction	A - 2	2022 Existing						
Stream B-AC	0.12	6.53	0.11	A	0.09	5.94	0.08	Α			
Stream C-A	-	-	-	-	-	-	-	-			
Stream C-B	0.09	7.10	0.08	A	0.10	7.20	0.09	A			
Stream A-B	-	-	-	-	-	-		-			
Stream A-C	-	<b>.</b> .	-	-	-	-	- '	7			
		Junction A - 2030 Design									
Stream B-AC	0.16	6.86	0.14	A	0.13	6.28	0.12	A			
Stream C-A		-	-	-	-	-	-	-			
Stream C-B	0.11	7.37	0.10	A	. 0.12	7.44	0.11	A			
Stream A-B	-	-	-	-	-	-		-			
Stream A-C	-	-	-	-		-	-	-			
		Jun	ction	A - 21	030 Reference						
Stream B-AC	0.16	6.78	0.14	A	0.13	6.25	0.12	A			
Stream C-A	-	-	-		<b>-</b> ·	-	-	-			
Stream C-B	0.11	7.31	0.10	A	0.12	7.43	0.11	A			
Stream A-B	-	-	-	-	-	-	-	-			
Stream A-C			-	-	-	-	-	-			

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

\*D1 - 2022 Existing, AM \* model duration: 8:00 - 9:30
 \*D2 - 2022 Existing, PM\* model duration: 8:00 - 9:30
 \*D3 - 2030 Reference, AM\* model duration: 8:00 - 9:30
 \*D4 - 2030 Reference, PM\* model duration: 8:00 - 9:30
 \*D5 - 2030 Design, AM\* model duration: 8:00 - 9:30
 \*D6 - 2030 Design, PM\* model duration: 8:00 - 9:30

Run using Junctions 8.0.5.523 at 9/2/2022 14:49:29

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# File summary

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Title	(untitled)
Location	
Site Number	
Date	27/1/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	user
Description	

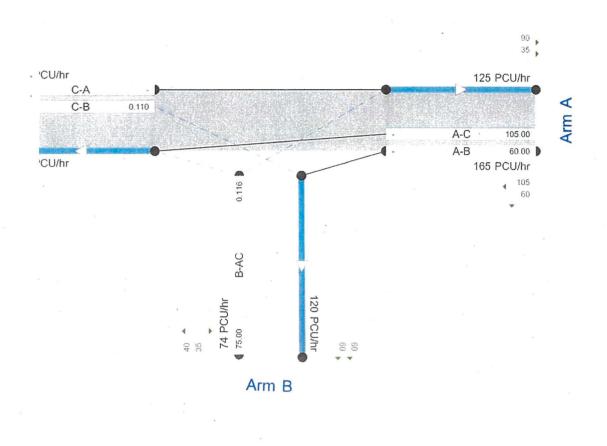
# Analysis Options

Vehicle Length	Do Queue	Calculate Residual	Residual Capacity Criteria	RFC	Average Delay Threshold	Queue Threshold
(m)	Variations	Capacity	Type	Threshold	(s)	(PCU)
5.75			_ N/A	0.85	36.00	20.00

# Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	PCU	PCU	perHour	s	-Min	perMin

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Bowen, woelder, Sine Resign Jonnal, IRO, No. Jaewen, sozinteem, Moar Isaa, Benerad (PCON), Steams (Swinsteams, soue-197), -Time Segment, (USIC 08-10) Sourchy Anarysis Set: "All - Succision A.1" - Demand Set: "D.1...2022 Existing AM"

The junction diagram reflects the last run of ARCADY.

# Junction A - 2022 Existing, AM

### **Data Errors and Warnings**

No errors or warnings

# **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	<b>Reason For Scaling Factors</b>
Junction A	N/A			100.000	

# **Demand Set Details**

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Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2022 Existing, AM	2022 Existing	AM	• •	FLAT	08:00	09:30	90	15		

# **Junction Network**

### Junctions

Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	6.76	А

### **Junction Network Options**

Driving Side Lighting Left Normal/unknown

# Arms

### Arms

Am	Am	Name	Description	Arm Type
Α	A	(untitled)		Major
В	В	(untitled)		Minor
С	C	(untitled)		Major

# Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
С	10.00		0.00		2.20	0.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

# Minor Arm Geometry

Arm	Minor Am Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
в	One lane	5.00		-								50	50

# Slope / Intercept / Capacity

**Priority Intersection Slopes and Intercepts** 

Junction	Stream	Intercept (PCU/hr)	for	for	Slope for C-A	
1	B-A	622.329	0.094	0.237	0.149	0.338
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	B-C	786.649	0.100	0.252	-	-
1.50.46	C-B	573.963	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.



# **Traffic Flows**

# **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn		Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions - Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	2	1	1	HV Percentages	2.00	2			~	1

# **Entry Flows**

# **General Flows Data**

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
А	FLAT	<ul> <li>✓</li> </ul>	120.00	100.000
в	FLAT	· 1	65.00	100.000
С	FLAT	~	130.00	100.000

# **Direct/Resultant Flows**

# **Direct Flows Data**

Time Segment	Am	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	Α	120.00	120.00		
08:00-08:15	в	65.00	65.00		
08:00-08:15	С	130.00	130.00	×	
08:15-08:30	Α	120.00	120.00		
08:15-08:30	В	65.00	65.00		
08:15-08:30	С	130.00	. 130.00		
08:30-08:45	Α	120.00	120.00		
08:30-08:45	В	65.00	65.00		
08:30-08:45	С	130.00	130.00		<i>i</i>
08:45-09:00	A	120.00	120.00		的现在分词是非常是为什
08:45-09:00	в	65.00	65.00		
08:45-09:00	С	130.00	130.00		
09:00-09:15	Α	120.00	120.00		國語言語語語語言語言語
09:00-09:15	В	65.00	65.00		1
09:00-09:15	С	130.00	130.00		
09:15-09:30	A	120.00	120.00		
09:15-09:30	В	65.00	65.00		A CONTRACT OF A CONTRACT.
09:15-09:30	С	130.00	130.00	- (r	

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# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

			То	
<u> (</u>		A	В	C
From	A	0.000	20.000	100.000
FIOM	В	45.000	0.000	20.000
	C	85.000	45.000	0.000

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Turning Proportions (PCU) - Junction 1 (for whole period)

			Го	
	233	A	B	C
	A	0.00	0.17	0.83
FIOM	В	0.69	0.00	0.31
	C	0.65	0.35	0.00

# Vehicle Mix

Average PCU Per Vehicle - Junction 1 (for whole period)

		То						
		A	В	C				
From	A	1.000	1.000	1.000				
FIOIN	В	1.000	1.000	1.000				
	С	1.000	1.000	1.000				

Heavy Vehicle Percentages - Junction 1 (for whole period)

	То							
		Α	В	C				
Enom	A	0.0	0.0	0.0				
FIOI	в	0.0	0.0	0.0				
	C	0.0	0.0	0.0				

# Results

# Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.11	6.53	0.12	А
C-A	-	-	-	-
C-B	0.08	7.10	0.09 ,	A
A-B	-	-	-	-
A-C	-	-	-	-



# Main Results for each time segment

# Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	65.00	64.53	0.00	616.52	0.105	0.12	6.516	A
C-A	85.00	85.00	0.00	1	-	-	-	-
С-В	45.00	44.65	0.00	551.92	0.082	0.09	7.092	A
A-B	20.00	20.00	0.00	-	-		-	-
A-C	100.00	100.00	0.00	-	-	-	-	-

### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	65.00	65.00	0.00	616.42	0.105	0.12	6.527	A
C-A	85.00	85.00	0.00	-	-	-	-	-
C-B	45.00	45.00	0.00	551.92	0.082	0.09	7.100	A
A-B	20.00	20.00	0.00	-	-	-	-	-
A-C	100.00	100.00	0.00	-		-	-	- '

### Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	65.00	65.00	0.00	616.42	0.105	0.12	6.527	A
C-A	85.00	85.00	0.00	-	-	-	-	
C-B	45.00	45.00	0.00	551.92	0.082	0.09	7.100	A
A-B	20,00	20.00	0.00	-	-	-	-	-
A-C	100.00	100.00	0.00	-			-	-

### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	65.00	65.00	0.00	616.42	0.105	0.12	6.527	A
C-A	85.00	85.00	0.00	-		-	- 1	-
C-B	45.00	45.00	0.00	551.92	0.082	0.09	7.100	A
A-B	20.00	20.00	0.00	-	-	-	-	-
A-C	100.00	100.00	0.00		-	-	-	-

### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	65.00	65.00	0.00	616.42	0.105	0.12	6.527	A
C-A	85.00	85.00	0.00	-	-	•	-	-
C-B	45.00	45.00	0.00	551.92	0.082	0.09	7.100	A
A-B	20.00	20.00	0.00	-	-	-	-	-
A-C	100.00	100.00	0.00	-	-	-	-	-

### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	65.00	65.00	0.00	616.42	0.105	0.12	6.527	A
C-A	85.00	85.00	0.00	-	-	-	-	-
C-B	45.00	45.00	0.00	551.92	0.082	0.09	7.100	A
A-B	20.00	20.00	0.00	-	-	-	-	-
A-C	100.00	100.00	0.00	-	-	-	-	-

# Junction A - 2022 Existing, PM

### **Data Errors and Warnings**

No errors or warnings

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# Analysis Set Details

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	<b>Reason For Scaling Factors</b>
Junction A	N/A			100.000	

### **Demand Set Details**

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2022 Existing, FM	2022 Existing	FM .		FLAT	08:00	09:30	90	15		

# **Junction Network**

# Junctions

Junction	Name	Junction Type	<b>Major Road Direction</b>	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	6.54	A

# **Junction Network Options**

D	riving Side	Lighting
	Left	Normal/unknown

# Arms

### Arms

Arm	Am	Name	Description	Arm Type
А	А	(untitled)		Major
в	В	(untitled)		Minor
C	С	(untitled)		Major

# **Major Arm Geometry**

Am	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
С	10.00		0.00		2.20	0.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

# **Minor Arm Geometry**

A	m	Minor Arm Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
	в	One lane	5.00			,							50	50



# Slope / Intercept / Capacity

### **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	622.329	0.094	0.237	0.149	0.338
1.430	B-C	786.649	0.100	0.252	<u> </u>	-
1000	C-B	573.963	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

# **Traffic Flows**

# **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Turn		Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	~	~	HV Percentages	2.00		1		1	· 🖌

# **Entry Flows**

# **General Flows Data**

Алт	Profile Type	<b>Use Turning Counts</b>	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
Α	FLAT	1	130.00	100.000
В	FLAT	1	55.00	100.000
С	FLAT	1	115.00	100.000

# **Direct/Resultant Flows**

# **Direct Flows Data**

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Time Segment	Am	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowinPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	Α	130.00	130.00		
08:00-08:15	В	55.00	55.00		
08:00-08:15	С	115.00	115.00		
08:15-08:30	A	130.00	130.00		
08:15-08:30	в	55.00	55.00		
08:15-08:30	С	115.00	115.00		
08:30-08:45	Α	130.00	130.00		
08:30-08:45	В	55.00	55.00	1	
08:30-08:45	C	115.00	115.00		
08:45-09:00	A	-130.00	130.00		(174)(14)(14)(14)(14)(14)
08:45-09:00	в	55.00	55.00		
08:45-09:00	С	115.00	115.00 •		
09:00-09:15	A	130.00	130.00	CHARLES CARE SHE	
09:00-09:15	В	55.00	55.00	<u>,</u> ,	
09:00-09:15	С	115.00	115.00		
09:15-09:30	A	130.00	130.00		
09:15-09:30	В	55.00	55.00	<u>, and a state of the state of </u>	
09:15-09:30	С	115.00	115.00		

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

	1992	То					
		Α	В	C			
Enom	A	0.000	45.000	85.000			
FIOIII	B	25.000	0.000	30.000			
	С	65.000	50.000	0.000			

Turning Proportions (PCU) - Junction 1 (for whole period)

	То						
		A	B	C			
From	A	0.00	0.35	0.65			
FIOIN	В	0.45	0.00	0.55			
122	C	0.57	0.43	0.00			

12L

# **Vehicle Mix**

### Average PCU Per Vehicle - Junction 1 (for whole period)

		То						
		- A	3 <b>B</b>	C +				
Erom	A	1.000	1.000	1.000				
FIOIN	В	1.000	1.000	1.000				
	C	1.000	1.000	1.000				

Heavy Vehicle Percentages - Junction 1 (for whole period)

		্ব	0	
Ser Ser		A	В	С
n Erom	Α	0.0	0.0	0.0
FIOM	В	0.0	0.0	0.0
	C	0.0	0.0	0.0

# Results

# Results Summary for whole modelled period

Max RFC 0.08	Max Delay (s) 5.94	Max Queue (PCU)	Max LOS
0.08	5.94	0.00.	
	0.04	0.09	. A
-	~	-	-
0.09	7.20	0.10	A
	· -	-	-
-	-		-
	- 0.09 -	 0.09 7.20 	

# Main Results for each time segment

### Main results: (08:00-08:15)

Stream	Total D	emand (PCU	/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC		55.00		54.64	0.00	661.18	0.083	0.09	5.931	·A
C-A		65.00	ń.	65.00	0.00	-	-	· · · ·	-	-
C-B		50.00		49.60	0.00	550.08	0.091	0.10	7.182	A
A-B		45.00	<b>1</b>	45.00	0.00	-	-		-	-
A-C		85.00		85.00	0.00	-	-	-	-	-

# Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	55.00	55.00	0.00	661.10	0.083	0.09	5.938	A
C-A	65.00	65.00	0.00	-	-	-	-	-
С-В	50.00	50.00	0.00	550.08	0.091	0.10	7.197	A
A-B	45.00	45.00	0.00	-		-	-	-
A-C	85.00	85.00	0.00	-	-	-	-	

# Main results: (08:30-08:45)

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C

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	55.00	55.00	0.00	661.10	0.083	0.09	5.938	A
C-A	65.00	65.00	0.00		-	-	-	-
С-В	50.00	50.00	0.00	550.08	0.091	0.10	7.197	A
A-B	45.00	45.00	0.00	-	-	-	-	-
A-C	85.00	85.00	0.00	-	-	-	-	-

### Main results: (08:45-09:00)

		· · · ·							
Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS	
B-AC	55.00	55.00	0.00	661.10	0.083	0.09	5.938	A	
C-A	65.00	65.00	0.00	-	-	-	-	-	
C-B	50.00	50.00	0.00	550.08	0.091	· 0.10	7.197	A	
A-B	45.00	45.00	0.00	- 1	-		-	-	
A-C	85.00	85.00	0.00		-	-	-	-	

# Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	55.00	55.00	0.00	661.10	0.083	0.09	5.938	A
C-A	65.00	65.00	0.00	-	-	-	-	-
С-В	50.00	50.00	0.00	550.08	0.091	0.10	7.197	A
A-B	45.00	45.00	0.00	-	-	-	-	
A-C	85.00	85.00	0.00	-	-	-	-	-

### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	55.00	55.00	0.00	661.10	0.083	0.09	5.938	A
C-A	65.00	65.00	0.00	-	-	-	-	
С-В	50.00	50.00	0.00	550.08	0.091	0.10	7.197	A
A-B	45.00	45.00	0.00	-		-	-	-
A-C	85.00	85.00	0.00	-	-	-	-	-

# Junction A - 2030 Reference, AM

# **Data Errors and Warnings**

No errors or warnings

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# **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction A	N/A			100.000	

# **Demand Set Details**

Namë	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Reference, AM	2030 Reference	AM		FLAT	08:00	09:30	90	15		



# **Junction Network**

# Junctions

Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	6.99	A

# Junction Network Options

Driving Side	斗 Elghting 🕖
Left	Normal/unknown

# Arms

## Arms

Arm	Am	Name	Description	Arm Type
Α	A	(untitled)		Major
в	В	(untitled)		Minor
С	С	(untitled)		Major

# **Major Arm Geometry**

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
С	10.00		0.00		2.20	0.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

# **Minor Arm Geometry**

Arm	Minor Am Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
в	One lane	5.00		•								50	50

# Slope / Intercept / Capacity

## **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)		Slope for A-C		Slope for C-B
1	B-A	622.329	0.094	0.237	0.149	0.338
1	B-C	786.649	0.100	0.252	-	-
1	C-B ·	573.963	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

# **Traffic Flows**

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# **Demand Set Data Options**

Default Vehicle. Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		~	~	HV Percentages	2.00		*		× 1	~

# **Entry Flows**

# General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
Α	FLAT	✓	145.00	100.000
В	FLAT	√	85.00	100.000
С	FLAT	√	150.00	100.000

# **Direct/Resultant Flows**

# **Direct Flows Data**

Time Segment	Am	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	A	145.00	145.00		
08:00-08:15	в	85.00	85.00		
08:00-08:15	С	150.00	150.00		
08:15-08:30	Α	145.00	145,00		
08:15-08:30	В	85.00	85.00		
08:15-08:30	С	150.00	150.00		
08:30-08:45	A	145.00	145.00		
08:30-08:45	в	. 85.00	85.00		
08:30-08:45	С	150.00	150.00		2
08:45-09:00	Α	145.00	145.00		
08:45-09:00	в	85.00	85.00		
08:45-09:00	С	150.00	150.00		
09:00-09:15	A	145.00	145.00		is that at the
09:00-09:15	в	85.00	85.00		
09:00-09:15	С	150.00	150.00		
09:15-09:30	A	145.00	145.00		
09:15-09:30	В	85.00	85.00		· · · · · · · · · · · · · · · · · · ·
09:15-09:30	С	150.00	150.00		

TH

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

	1	То							
		A	B	C					
	A	0.000	30.000	115.000					
FIOM	В	55.000	0.000	30.000					
	C	95.000	55.000	0.000					

Turning Proportions (PCU) - Junction 1 (for whole period)

	То									
		A	B	C						
Erom	A	0.00	0.21	0.79						
FIOIII	В	0.65	0.00	0.35						
	С	0.63	0.37	0.00						

# Vehicle Mix

Average PCU Per Vehicle - Junction 1 (for whole period)

		То									
		Α	В	C							
E.on	Α	1.000	1.000	1.000							
FIUII	В	1.000	1.000	1.000							
	С	1.000	1.000	1.000							

Heavy Vehicle Percentages - Junction 1 (for whole period)

	То									
		Α	В	C						
Erom	A	0.0	0.0	0.0						
FION	В	0.0	0.0	0.0						
	C	0.0	0.0	0.0						

# Results

# Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.14	6.78	0.16	A
C-A	-	-	-	-
C-B	0.10	7.31	0.11	A
A-B	-	-	-	-
A-C	-	-	-	-

# Main Results for each time segment

# Main results: (08:00-08:15)

TPL

Stream	am Total Demand (PCU/hr) Entry Flow (PCU/hr)		Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	84.36	0.00	615.76	0.138	0.16	6.765	A
C-A	95.00	95.00	0.00	÷.,	- /	•	-	-
C-B	55.00	54.56	0.00	547.33	0.100	0.11	7.299	A
A-B	30.00	30.00	0.00	-	-	t	-	-
A-C	115.00	115.00	0.00	<b>-</b> .	-	-	-	-

# Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Total Demand (PCU/hr) Entry Flow (PCU/hr)		Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	85.00	0.00	615.65	0.138	0.16	6.783	A
C-A	95.00 95.00		0.00 -		-	-	-	-
C-B	55.00	55.00	0.00 547.33 0		0.100	0.11	7.311	A
A-B	30.00 30.00		0.00	-	-	-	-	-
A-C	115.00 115.00		0.00	-	-	-	-	-

# Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	85.00	0.00	615.65	0.138	0.16	6.783	A
C-A	95.00	95.00	0.00	-	-		-	-
C-B	55.00	55.00	0.00	547.33	0.100	0.11	7.311	A
A-B	30.00	30.00	0.00	. 4	-	-	-	÷
A-C	115.00	115.00	0.00	-	-	-		-

# Main results: (08:45-09:00)

Stream	m Total Demand (PCU/hr) Entry Flow (PCU/hr)		Pedestrian Demand (Ped/hr) Capacity (PCU/hr)		RFC	End Queue (PCU)	Delay (s)	LOS	
B-AC	85.00	85.00	0.00 615.65		0.138	0.16	6.783	A	
C-A	95.00	95.00	0.00	-	-	-	-	-	
C-B	55.00	55.00	0.00	547.33	0.100	0.11	7.311	A	
A-B	30.00	30.00	0.00	-	-	-	-	-	
A-C	115.00	115.00	0.00	-	-			-	

# Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr) Entry Flow (PCU/hr) I		Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	85.00	0.00	615.65	0.138	0.16	6.783	A
C-A	95.00	95.00	0.00		-	-	-	-
C-B	55.00	55.00	0.00 547.33	0.100	0.11	7.311	A	
A-B	30.00	30.00	0.00	-	-	-	-	-
A-C	115.00	115.00	0.00	-	-	-	-	-

### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)         Entry Flow (PCU/hr)           AC         85.00         85.00		Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC			0.00 615.64		0.138	0.16	6.783	A
C-A	A 95.00 95.00		0.00 -		-	-	-	-
C-B	55.00	55.00	0.00	547.33	0.100	0.11	7.311	A
A-B	30.00	30.00	0.00	-	-	-	-	-
A-C	115.00	115.00	0.00	-	-	-	-	-



# Junction A - 2030 Reference, PM

# **Data Errors and Warnings**

No errors or warnings

# Analysis Set Details

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction A	N/A			100.000	

# **Demand Set Details**

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time, Segment Only	Locked
2030 Reference, FM	2030 Reference	RM		FLAT	08:00	09:30	90	15		

# **Junction Network**

# Junctions

Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	6.77	A

# **Junction Network Options**

Driving Side						
Left	Normal/unknown					

# Arms

# Arms

Arm	Am	Name	Description	Arm Type
A	A	(untitled)		Major
в	В	(untitled)		Minor
С	С	(untitled)		Major

## Major Arm Geometry

Am	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks? Blocking Que
C	10.00		0.00		2.20	0.00	

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

# Minor Arm Geometry

A	J	Minor Arm Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
	в	One lane	5.00										50	50

# Slope / Intercept / Capacity

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### **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	622.329	0.094	0.237	0.149	0.338
1	B-C	786.649	0.100	0.252	-	-
1.000	C-B	573.963	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

# Traffic Flows

# **Demand Set Data Options**

Defauit Vehicle Mix	Vehicle Mix Varies Over Time		Vehicle Mix Varies Over Entry		PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		1	<ul> <li>✓</li> </ul>	HV Percentaiges	2.00				¥ ·	1

# **Entry Flows**

# General Flows Data

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
Α	FLAT	1	160.00	100.000
В	FLAT	1	75.00	100.000
С	FLAT	1	135.00	100.000



# **Direct/Resultant Flows**

# **Direct Flows Data**

Time Segment	Ann	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	Α	160.00	160.00		
08:00-08:15	в	75.00	75.00		
08:00-08:15	С	135.00	.135.00		
08:15-08:30	A	160.00	160.00		
08:15-08:30	в	75.00	• 75.00		
08:15-08:30	С	135.00	135.00		
08:30-08:45	Α	160.00	160.00		
08:30-08:45	В	75.00	75.00		
08:30-08:45	С	135.00	135.00		
08:45-09:00	À	160.00	160.00		
08:45-09:00	в	75.00	75.00		
08:45-09:00	¢	135.00	135.00	×	
09:00-09:15	A	160.00	160.00		
09:00-09:15	в	75.00	75.00		
09:00-09:15	С	135.00	135.00		
09:15-09:30	A	160.00	160.00	物计学的主义和学校	
09:15-09:30	в	75.00	75.00		
09:15-09:30	С	135.00 🦯	135.00		

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

			То	
	125	Α	В	C
E.	A	0.000	65.000	95.000
From	В	35.000	0.000	40.000
	C	75.000	60.000	0.000

Turning Proportions (PCU) - Junction 1 (for whole period)

	1		Го	
		A	B	C
	A	0.00	0.41	0.59
Prom	В	0.47	0.00	0.53
	C	0.56	0.44	0.00

# Vehicle Mix

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# Average PCU Per Vehicle - Junction 1 (for whole period)

	徽		То	
Site.		A	B	<b>C</b> .
Erom	Α	1.000	1.000	1.000
FIOM	В	1.000	1.000	1.000
	C	1.000	1.000	1.000

Heavy Vehicle Percentages - Junction 1 (for whole period)

		T	o	
YES		A	В	С
	A	0.0	0.0	0.0
FIOM	В	0.0	0.0	0.0
	C	0.0	0.0	0.0

# Results

# Results Summary for whole modelled period

Stream Max RFC		Max Delay (s)	Max Queue (PCU)	Max LOS	
B-AC	0.12	6.25	0.13	A	
C-A	-	-	-	-	
C-B	0.11	7.43	0.12	A	
A-B	-	-	-	-	
A-C	-			-	

# Main Results for each time segment

### Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr) Entry Flow (PCU/hr)		Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	74.48	0.00	651.41	0.115	0.13	6.235	A
C-A	75.00	75.00	0.00	-	-	-	-	-
C-B	60.00	59.51	0.00	544.57	0.110	0.12	7.413	A
A-B	65.00	65.00	0.00	-	-	-	-	-
A-C	95.00	95.00	0.00		-			-

# Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	651.31	0.115	0.13	6.245	A
C-A	75.00	75.00	0.00	-	-	-	-,	-
C-B	60.00	60.00	0.00	544.57	0.110	0.12	7.428	A
A-B	65.00	65.00	0.00	-	-	-	-	-
A-C	95.00	95.00	0.00	-	-	-	-	-



# Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	651.31	0.115	0.13	6.245	A
C-A	75.00	75.00	0.00	- 1	-	-	-	. ~
C-B	60.00	60.00	0.00	544.57	0.110	0.12	7.428	A
A-B	65.00	65.00	0.00	-	-	· •	-	-
A-C	95.00	95.00	0.00		-	-	-	-

### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	651.31	0.115	0.13	6.245	A
C-A	75.00	75.00	0.00	-		-		-
С-В	60.00	60.00	0.00	544.57	0.110	0.12	7.428	A
A-B	65.00	65.00	0.00	-		•	-	- 1
A-C	95.00	95.00	0.00	•	-		-	-

# Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr) Entry Flow (PC		Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delaÿ (s)	LOS
B-AC	75.00	75.00	. 0.00	651.31	0.115	0.13	6.245	A
C-A	75.00	75.00	0.00		-	-	-	-
C-B	60.00	60.00	0.00	544.57	0.110	0.12	7.428	. A'
A-B	65.00	65.00	0.00	-		-	-	-
A-C	95.00	95.00	0,00	-	-	-	-	-

## Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	651.31	0.115	0.13	6.245	·A
C-A	75.00	75.00	0.00	-	-		-	-
C-B	60.00	60.00	0.00	544.57	0.110	0.12	7.428	A
A-B	65.00	65.00	0.00	-	-	-	-	1 -
A-C	95.00	95.00	0.00	-	-	-	-	-

# Junction A - 2030 Design, AM

# **Data Errors and Warnings**

No errors or warnings

# **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction A	N/A			100.000	

# **Demand Set Details**

Name	Scenario Name	Time Period Name	and the second second second	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Design, AM	2030 Design	AM		FLAT	08:00	09:30	90	15		

# Junction Network

### Junctions

131

Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	7.06	Α

#### **Junction Network Options**

Driving Side	Lighting
Left	Normal/unknown

### Arms

#### Arms

Arm	Am	Name	Description	Arm Type
Α	A	(untitled)		Major
в	B B (untitled)			Minor
С	С	(untitled)		Major

#### Major Arm Geometry

Am	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
С	10.00		0.00		2.20	0.00	8	

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

#### Minor Arm Geometry

Arm	Minor Arm Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
в	One lane	5.00								5	50	50

#### Slope / Intercept / Capacity

#### **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)	for	for	Slope for C-A	for
1	B-A	622.329	0.094	0.237	0.149	0.338
1	B-C	786.649	0.100	0.252	-	-
1	C-B	573.963	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.



# **Traffic Flows**

### **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix.	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		~	~	HV Percentages	2.00				~	1

# **Entry Flows**

### **General Flows Data**

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
Α	FLAT	✓	165.00	100.000
в	FLAT	✓	85.00	100.000
С	FLAT	√	165.00	100.000

# **Direct/Resultant Flows**

### **Direct Flows Data**

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	Α	165.00	165.00		
08:00-08:15	В	85.00	85.00		
08:00-08:15	С	165.00	165.00		
08:15-08:30	Α	165.00	165.00		
08:15-08:30	В	85.00 ,	85.00		
08:15-08:30	С	165.00	165.00		· ·
08:30-08:45	Α	165.00	165.00	大学的主义的公司	
08:30-08:45	в	85.00	85.00		
08:30-08:45	С	165.00	165.00		
08:45-09:00	A	165.00	165.00		
08:45-09:00	В	85.00	85.00		
08:45-09:00	С	165.00	165.00		
09:00-09:15	Α	165.00	165.00		
09:00-09:15	В	85.00	85.00	and a state of the	
09:00-09:15	C	, 165.00	165.00		
09:15-09:30	A	165.00	165.00		
09:15-09:30	В	85.00	85.00		
09:15-09:30	С	165.00	165.00		· · · · · · · · · · · · · · · · · · ·

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

	To								
<u> </u>	3374 33977	A	В	C					
Enem	Â	0.000	35.000	130.000					
FIOII	В	55.000	0.000	30.000					
	C	110.000	55.000	0.000					

Turning Proportions (PCU) - Junction 1 (for whole period)

		To Kerrel					
	該	A	B	C			
	A	0.00	0.21	0.79			
From	B	0.65	0.00	0.35			
3.45×	C	0.67	0.33	0.00			

15L

# Vehicle Mix

Average PCU Per Vehicle - Junction 1 (for whole period)

20V	1332		То				
		A	В	C			
-	A	1.000	1.000	1.000			
From	B	1.000	1.000	1.000			
	С	1.000	1.000	1.000			

Heavy Vehicle Percentages - Junction 1 (for whole period)

		T	0	
		A	В	С
	A	0.0	0.0	0.0
From	В	0.0	0.0	0.0
	C	0.0	0.0	0.0

# Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.14	6.86	0.16	A
C-A	-	-	-	-
C-B	0.10	7.37	0.11	А
A-B	-	•	-	-
A-C	-	-	-	-



### Main Results for each time segment

#### Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	84.36	0.00	609.86	0.139	0.16	6.842	A
C-A	110.00	110.00	0.00	-	-	- "	-	-
C-B	55.00	54.55	0.00	543.66	0.101	0.11	7.354	Α
A-B	35.00	35.00	0.00	-	-	-	-	-
A-C	130.00	130.00	0.00	-	-		-	-

#### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	85.00	0.00	609.74	0.139	0.16	6.859	A
C-A	110.00	110.00	0.00	-		-		-
C-B	55.00	55.00	0.00	543.66	0.101	0.11	7.366	A
A-B	35.00	35.00	0.00	-	-	-	-	-
A-C	130.00	130.00	0.00	-	-	-	-	-

#### Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	85.00	0.00	609.74	0.139	0.16	6.859	A
C-A	110.00	110.00	0.00	-	-	-	-	-
C-B	55.00	55.00	0.00	543.66	0.101	0.11	7.366	A
A-B	35.00	35.00	0.00	-	-	-	-	-
A-C	130.00	130.00	0.00	-	-	-	-	-

#### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	85.00	0.00	609.74	0.139	0.16	6.859	A
C-A	110.00	110.00	0.00	-	-	-	-	-
C-B	55.00	55.00	0.00	543.66	0.101	0.11	7.366	A
A-B	35.00	35.00	0.00		-	-	-	
A-C	130.00	130.00	0.00	-	-	-		-

#### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	85.00	0.00	609.74	0.139	0.16	6.859	A
C-A	110.00	110.00	0.00	•	-	-	-	-
C-B	55.00	55.00	0.00	543.66	0.101	0.11	7.366	A
A-B	35.00	35.00	0.00	· -	-	-	-	-
A-C	130.00	130.00	0.00	-	-	- 1	-	-

#### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	85.00	85.00	: 0.00	609.74	0.139	0.16	6.859	A
C-A	110.00	110.00	0.00	-	-	-	-	-
C-B	55.00	55.00	0.00	543.66	0.101	0.11	7.366	·A
A-B	35.00	35.00	0.00	- 3	-	-	-	-
A-C	130.00	130.00	0.00	-	-	-	-	-

# Junction A - 2030 Design, PM

#### **Data Errors and Warnings**

No errors or warnings

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#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction A	N/A			100.000	

#### **Demand Set Details**

Name	Scenario Name	Time Perlod Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Design, FM	2030 Design	FM	,	FLAT	08:00	09:30	90	15		

# **Junction Network**

#### Junctions

Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	6.80	A

#### **Junction Network Options**

Driving Side	Lighting
Left	Normal/unknown

### Arms

#### Arms

Am	Arm	Name	Description	Arm Type
Α	A	(untitled)		Major
В	B	(untitled)		Minor
С	С	(untitled)		Major

#### Major Arm Geometry

Am	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
С	10.00		0.00		2.20	0.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

#### **Minor Arm Geometry**

Алт	Minor Arm Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
в	One lane	5.00										50	50



#### Slope / Intercept / Capacity

#### **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)	Stope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	622.329	0.094	0.237	0.149	0.338
10000	B-C	786.649	0.100	0.252	•	-
1333	C-B	573.963	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

# **Traffic Flows**

### **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	1	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		~	1	HV Percentages	2.00		ų.	-	~	

# **Entry Flows**

#### **General Flows Data**

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
Α	FLAT	✓	165.00	100.000
в	FLAT	<ul> <li>✓</li> </ul>	75.00	100.000
С	FLAT	✓	150.00	100.000

# **Direct/Resultant Flows**

### Direct Flows Data

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Time Segment	Arm	Direct Demand Entry Flow	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow. (Ped/hr)
08:00-08:15	Α	165.00	165.00	34	
08:00-08:15	в	75.00	75.00		
08:00-08:15	С	150.00	150.00		
08:15-08:30	A	165.00	165.00		
08:15-08:30	в	75.00	75.00		
08:15-08:30	С	150.00	150.00	· .	
08:30-08:45	Α	165.00	165.00		
08:30-08:45	В	75.00	75.00		· · · ·
08:30-08:45	С	150.00	150.00		
08:45-09:00	Α	165.00	165,00		
08:45-09:00	В	75.00	75.00		
08:45-09:00	С	150.00	150.00		
09:00-09:15	A	165.00	165.00		
09:00-09:15	В	75.00	75.00		,
09:00-09:15	С	150.00	150.00		
09:15-09:30	A	165.00	165.00		
09:15-09:30	в	, 75.00	75.00		· · · · · · · · · · · · · · · · · · ·
09:15-09:30	С	150.00	150.00		

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

	То					
	1	A	В	C		
E a a a	A	0.000	60.000	105.000		
From	В	35.000	0.000	40.000		
1.8	С	90.000	60.000	0.000		

Turning Proportions (PCU) - Junction 1 (for whole period)

	То					
1999. 1997 - 1997 1997 - 1997		Α	В	С		
-	A	0.00	0.36	0.64		
From	В	0.47	0.00	0.53		
	C.	0.60	0.40	0.00		

### **Vehicle Mix**

Average PCU Per Vehicle - Junction 1 (for whole period)

	То					
		A	В	C		
Erom	A	1.000	1.000	1.000		
FIOIII	В	1.000	1.000	1.000		
	C	1.000	1.000	1.000		

Heavy Vehicle Percentages - Junction 1 (for whole period)

		T	0	
		A	в	С
From	Α	0.0	0.0	0.0
11011	В	0.0	0.0	0.0
	С	0.0	0.0	0.0

# Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.12	6.28	0.13	··A
C-A		- 1	-	-
C-B	. 0.11	7.44	0.12	A
A-B	-	. •	-	-
A-C	-	-	-	

#### Main Results for each time segment

#### Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	74.48	0.00	648.02	0.116	0.13	6.271	A
C-A	90.00	90.00	0.00	~	-	-	-	-
C-B	60.00	59.51	0.00	543.66	0.110	0.12	. 7.427	A
A-B	60.00	60.00	0.00	-	-	-	-	· -
A-C	105.00	105.00	0.00	-	-	-	-	-

#### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	647.92	0.116	0.13	6.282	A
C-A	90.00	90.00	0.00	· •	-	-	-	-
C-B	60.00	60.00	0.00	543.66	0.110	0.12	7.442	A
A-B	60.00	60.00	0.00	-	-	-	-	-
A-C	105.00	105.00	0.00		-	-		-

### Main results: (08:30-08:45)

12L

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	647.92	0.116	0.13	6.282	A
C-A	90.00	90.00	0.00	-	-	<del>,</del>	-	-
C-B	60.00	60.00	0.00	543.66	0.110	0.12	7.442	A
A-B	60.00	60.00	0.00	-	-	-	-	-
A-C	105.00	105.00	0.00	-	-	-	-	-

### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	647.92	0.116	0.13	6.282	A
C-A	90.00	90.00	0.00	-	-	-	-	-
C-B	60.00	60.00	0.00	543.66	0.110	0.12	7.442	A
A-B	60.00	60.00	0.00	-	-	-	-	-
A-C	105.00	105.00	0.00	- · ·	-	-	-	-

### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	647.92	0.116	0.13	6.282	A
C-A	90.00	90.00	0.00	-	-	- <u>,</u> =	-	-
С-В	60.00	60.00	0.00	543.66	0.110	0.12	7.442	A
A-B	60.00	60.00	0.00	-	-	-	-	-
A-C	105.00	105.00	0.00	-		-	-	-

### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	75.00	75.00	0.00	647.92	0.116	0.13	6.282	A
C-A	90.00	90.00	0.00	-	-	-	-	-
С-В	60.00	60.00	0.00	543.66	0.110	0.12	7.442	A
A-B	60.00	60.00	0.00	-	-	-	-	-
A-C	105.00	105.00	0.00	-	-	. <b>-</b>	-	-



		Junctic	ons 8 👾		
	PICADY	8 - Priority In	tersection M	ódule	
		ersion: 8.0.5.523 [19 © Copyright TRL I			
	sales and distribution 44 (0)1344.770758 e				

#### Filename: Jn B.arc8

Path: \\PROJSRV\Project\CTA Consultants Limited\CTA - Project\22007HK - TCS for Rezoning of PNS Sheung Shui Fresh Food Distribution Centre\CAL\2022-02-07 Report generation date: 9/2/2022 14:51:22

» Junction B - 2022 Existing, AM

» Junction B - 2022 Existing, PM

» Junction B - 2030 Reference, AM

» Junction B - 2030 Reference, PM

» Junction B - 2030 Design, AM

» Junction B - 2030 Design, PM

Summary of junction performance

		АМ				РМ		
* *	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	al all a state of	Jur	iction	B - 2	022 Existing			
Stream B-AC	0.41	11.89	0.29	В	0.39	11.87	0.28	В
Stream C-A	-		-	-	-	-	-	-
Stream C-B	0.02	6.99	0.02	А	0.01	6.89	0.01	'A'
Stream A-B		-	-	-	-	-	-	-
Stream A-C	-	~	- ·	-	-	-	-	-
		Ju	nctio	n B -	2030 Design			
Stream B-AC	0.63	13.81	0.39	В	0.62	13.96	0.38	В
Stream C-A	-		-	-	-	-	-	-
Stream C-B	0.05	7.31	0.05	А	0.04	7.17	0.04	A
Stream A-B	-	-	-	-	-	-	-	-
Stream A-C	·-	-	-	-	-	-		-
		Jun	ction	B ~ 2	030 Reference	3	1	
Stream B-AC	0.54	13.07	0.35	В	0.52 *	13.06	0.34	В
Stream C-A	-	-	-	-	-	-	-	-
Stream C-B	0.04	7.21	0.04	A	0.03	7.10	0.03	A
Stream A-B	-	-	-	-	-	-	-	-
Stream A-C	-	· -	-	-		-	-	-

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

"D1 - 2022 Existing, AM " model duration: 8:00 - 9:30 "D2 - 2022 Existing, PM" model duration: 8:00 - 9:30

"D3 - 2030 Reference, AM" model duration: 8:00 - 9:30 "D4 - 2030 Reference, PM" model duration: 8:00 - 9:30

"D5 - 2030 Design, AM" model duration: 8:00 - 9:30

"D6 - 2030 Design, PM" model duration: 8:00 - 9:30

Run using Junctions 8.0.5.523 at 9/2/2022 14:51:18



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### File summary

Title	(untitled)
Location	
Site Number	
Date	27/1/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	user
Description	

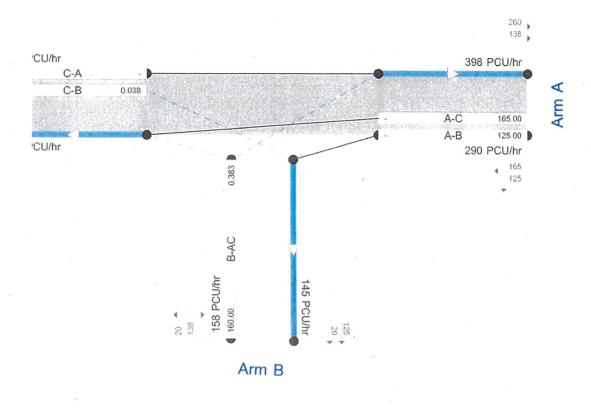
### Analysis Options

Vehicle Length	Do Queue	Calculate Residual	Residual Capacity Criteria	RFC	Average Delay Threshold	Queue Threshold
(m)	Variations	Capacity	Type	Threshold	(s)	(PCU)
5.75			N/A	0.85	36.00	20.00

### Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	<b>Total Delay Units</b>	Rate Of Delay Units
m	kph	PCU	PCU	perHour	S	-Min	perMin





The junction diagram reflects the last run of ARCADY.

# Junction B - 2022 Existing, AM

#### Data Errors and Warnings

No errors or warnings

#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction B	N/A			100.000	

### **Demand Set Details**

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Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2022 Existing, AM	2022 Existing	АМ		FLAT	08:00	09:30	90	15		

Generated on 9/2/2022 14:51:32 using Junctions 8 (8.0.5.523)

# **Junction Network**

#### Junctions

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Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	11.53	B

#### **Junction Network Options**

Driving Side Lighting Left Normal/unknown

### Arms

#### Arms

Am	Am	Name	Description	Arm Type
Α	A	San Po Street (SB)		Major
в	В	Ka Fu Ci		Minor
С	С	San Po Street (NB)		Major

#### Major Arm Geometry

Am	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
C	10.00		0.00		2.20	3.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

#### Minor Arm Geometry

Am	Minor Am Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
в	One lane	2.20			30) -		-	E.				50	50

### Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
17,34	B-A	476.978	0.072	0.181	0.114	0.259
1	B-C	602.919	0.076	0.193	-	-
1	C-B	575.701	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.



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# **Traffic Flows**

### **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		~	~	HV Percentages	2.00	8			¥	1

# **Entry Flows**

#### **General Flows Data**

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
A	FLAT	1	275.00	100.000
В	FLAT	✓	125.00	100.000
С	FLAT	✓ _	185.00	100.000

# **Direct/Resultant Flows**

### **Direct Flows Data**

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow. (Ped/hr)
08:00-08:15	Α	275.00	275.00		
08:00-08:15	в	125.00	125.00		( <b>6</b> )
08:00-08:15	С	185.00	185.00		
08:15-08:30	Α	275.00	275.00		
08:15-08:30	В	125.00	125.00		
08:15-08:30	С	185.00	185.00	• .	
08:30-08:45	A	275.00	275.00		
08:30-08:45	в	. 125.00	125.00		
08:30-08:45	С	185.00	185.00		
08:45-09:00	A	275.00	275.00		
08:45-09:00	В	125.00	125.00		
08:45-09:00	С	1,85.00	185.00		
09:00-09:15	A	275.00	275.00		
09:00-09:15	В	125.00	125.00		
09:00-09:15	C	185.00	185.00		
09:15-09:30	A	-275.00	275.00		
09:15-09:30	В	125.00	125.00		
09:15-09:30	С	, 185.00	185.00	arrate. zeren s	

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

	200		То	
240		A	В	C
-	A	0.000	130.000	145.000
From	В	115.000	0.000	10.000
	C	175.000	10.000	0.000

Turning Proportions (PCU) - Junction 1 (for whole period)

			Го	
		A	В	C
E	Α	0.00	0.47	0.53
FIOID	В	0.92	0.00	0.08
	C	0.95	0.05	0.00

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# Vehicle Mix

Average PCU Per Vehicle - Junction 1 (for whole period)

1944		То						
		A	B	C				
	A	1.000	1.000	1.000				
rron	В	1.000	1.000	1.000				
	C	1.000	1.000	1.000				

Heavy Vehicle Percentages - Junction 1 (for whole period)

	То						
		Α	В	C			
Erom	Α	0.0	0.0	0.0			
FIOIII	в	0.0	0.0	0.0			
	C	0.0	0.0	0.0			

# Results

#### Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.29	11.89	0.41	В
C-A	-	-	-	-
C-B	0.02	6.99	0.02	A
A-B	-	-	-	-
A-C	-	-	. <b>-</b>	-

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### Main Results for each time segment

#### Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	125.00	123.38	0.00	427.65	0.292	0.41	11.771	В
C-A	175.00	175.00	0.00			•	-	-
C-B	10.00	9.92	0.00	525.03	0.019	0.02	6.988	A
A-B	130.00	130.00	0.00	-	-	-	•	-
A-C	145.00	145.00	0.00	-	-	-		

#### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	125.00	124.99	0.00	427.63	0.292	0.41	11.895	В
C-A	175.00	175.00	0.00	-	-	-	-	-
C-B	10.00	10.00	0.00	525.03	0.019	0.02	6.988	A
A-B	130.00	130.00	0.00	-	-	-	-	-
A-C	145.00	145.00	0.00	-	-	-	- *	-

#### Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	125.00	124.99	0.00	427.63	0.292	0.41	11.895	B
C-A	175.00	175.00	0.00	-	-	-	-	
C-B	10.00	10.00	0.00	525.03	0.019	0.02	6.988	A.
A-B	130.00	130.00	0.00	-	-		-	-
A-C	145.00	145.00	0.00	-	-	· -	-	-

#### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	125.00	125.00	0.00	427.63	0,292	0.41	11.895	В
C-A	175.00	175.00	0.00	-	-	-	-	-
C-B	10.00	10.00	0.00	525.03	0.019	0.02	6.988	A
A-B	130.00	130.00	0.00	-	-	· _	-	-
A-C	145.00	145.00	0.00	-	· -	-	-	-

#### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	125.00	125.00	0.00	427.63	0.292	0.41	11.895	B
C-A	175.00	175.00	0.00	-	-			-
C-B	10.00	10.00	0.00	525.03	0.019	0.02	6.988	A.
A-B	130.00	130.00	0.00	-	-	-	-	-
A-C	145.00	145.00	0.00		÷.,	÷	-	-

#### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	125.00	125.00	0.00	427.63	0.292	0.41	11.895	В
C-A	175.00	175.00	0.00	-	-		-	-
C-B	10.00	10.00	0.00	525.03	0.019	0.02	6.988	A
A-B	130.00	130.00	0.00	-	-		-	-
A-C	145.00	145.00	0.00	-	-		-	-

# Junction B - 2022 Existing, PM

### **Data Errors and Warnings**

No errors or warnings

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#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction B	N/A			100.000	

### **Demand Set Details**

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2022 Existing, FM	2022 Existing	RM		FLAT	08:00	09:30	90	15	-	

# **Junction Network**

### Junctions

Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B;C	11.67	В

#### Junction Network Options

Driving Side Lighting Left Normal/unknown

### Arms

#### Arms

Arm	Am	Name	Description	Arm Type
Α	A	San Po Street (SB)		Major
в	В	Ka Fu Ci		Minor
С	С	San Po Street (NB)		Major

#### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
C	10.00		0.00		2.20	3.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

#### **Minor Arm Geometry**

Ал	Minor Arm Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
E	One lane	2.20										50	50

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#### Slope / Intercept / Capacity

#### **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	476.978	0.072	0.181	0.114	0.259
1	B-C	602.919	0.076	0.193	-	-
124392	С-В	575.701	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

# **Traffic Flows**

#### **Demand Set Data Options**

Default Vehicle Mix		Mix Varies	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
-	2	1	~	HV Percentages	2.00				4	1

# **Entry Flows**

### **General Flows Data**

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
A	FLAT	¥ .	260.00	100.000
В	FLAT	1	120.00	100.000
С	FLAT	. 🗸	240.00	100.000

# **Direct/Resultant Flows**

### **Direct Flows Data**

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Time Segment	Am	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	Α	260.00	260.00		
08:00-08:15	В	120.00	120.00		
08:00-08:15	С	/ 240.00	240.00		
08:15-08:30	Α	260.00	260.00		
08:15-08:30	В	120.00	120.00		
08:15-08:30	С	240.00	240.00		
08:30-08:45	A	260.00	260.00		
08:30-08:45	в	120.00	120.00		
08:30-08:45	С	240.00	240.00		
08:45-09:00	A	260.00	260.00	·林治家 医二、白白	C.S.S. Market C. C. C.
08:45-09:00	в	120.00	120.00	ı.	
08:45-09:00	С	240.00	240.00		
09:00-09:15	A	260.00	260.00		
09:00-09:15	В	120.00	120.00		
09:00-09:15	С	240.00	240.00		
09:15-09:30	A	260.00	260.00		
09:15-09:30	В	120.00	120.00		
09:15-09:30	С	240.00	240.00		· ;

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

		То								
	224 A. Sejan	Α	В	C						
<b>F</b>	A	0.000	110.000	150.000						
From	В	110.000	0.000	10.000						
	С	235.000	5.000	0.000						

Turning Proportions (PCU) - Junction 1 (for whole period)

		То							
	1	A	В	C					
	A	0.00	0.42	0.58					
From	в	0.92	0.00	0.08					
	C	0.98	0.02	0.00					

# **Vehicle Mix**

Average PCU Per Vehicle - Junction 1 (for whole period)

		То								
		A	B	C						
From	A	1.000	1.000	1.000						
11011	в	1.000	1.000	1.000						
	C	1.000	1.000	1.000						

Heavy Vehicle Percentages - Junction 1 (for whole period)

	s, ⊘≥, Toh, s							
	197 197	A	В	C				
From	A	0.0	0.0	0.0				
FIOI	В	0.0	0.0	0.0				
	C	0.0	0.0	0.0				

# Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.28	11.87	0.39	В
C-A		-	· -	-
C-B	0.01	6.89	0.01	. Α
A-B	-	-	-	-
A-C	-	-	-	-

#### Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	120.00	118.45	. 0.00	423.24	0.284	0.39	. 11.753	B
C-A	235.00	235.00	0.00	-	-	-	-	-
C-B	5.00	4.96	0.00	527.80	0.009	0.01	6.885	· A
A-B	110.00	110.00	0.00	-	-	-	-	-
A-C	150.00	150.00	0.00	-	-	-	-	-

#### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	120.00	119.99	0.00	423.23	0.284	0.39	11.871	B
C-A	235.00	235.00	0.00	-	-	-	-	-
C-B	5.00	5.00	0.00	527.80	0.009	0.01	6.885	A.
A-B	110.00	110.00	0.00	-	-	-	-	-
A-C	150.00	150.00	0.00		-	-	Ξ.	-

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#### Generated on 9/2/2022 14:51:32 using Junctions 8 (8.0.5.523)

#### Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	120.00	120.00	0.00	423.23	0.284	0.39	11.871	B
C-A	235.00	235.00	0.00	-	-	<b>-</b> . *	-	-
C-B	5.00	5.00	0.00	527.80	0.009	0.01	6.887	A
A-B	110.00	110.00	0.00	-	-	*t <u>-</u>	-	-
A-C	150.00	150.00	0.00	-	-	-	s <b>=</b> 0	-

#### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	120.00	120.00	0.00	423.23	0.284	0.39	11.871	B
C-A	235.00	235.00	0.00	-	-	-		-
C-B	5.00	5.00	0.00	527.80	0.009	0.01	6.887	A
A-B	110.00	110.00	0.00	-	-	• • • •	-	-
A-C	150.00	150.00	0.00		-	-	-	-

#### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	120.00	120.00	0.00	423.23	0.284	0.39	11.871	В
C-A	235.00	235.00	. 0.00	-	-	-	-	-
C-B	5.00	5.00	0.00	527.80	0.009	0.01	6.887	A
A-B	110.00	110.00	0.00	7	-	-	-	-
A-C	150.00	150.00	0.00	-	-	-	-	-

#### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	120.00	120.00	0.00	423.23	0.284	0.39	11.871	В
C-A	235.00	235.00	0.00	-	-		-	~
C-B	5.00	5.00	0.00	527.80	0.009	0.01	6.887	A
A-B	110.00	110.00	0.00	-	-		-	-
A-C	150.00	150.00	0.00		-	· _ ·	-	-

# Junction B - 2030 Reference, AM

#### **Data Errors and Warnings**

No errors or warnings

#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	<b>Reason For Scaling Factors</b>
Junction B	N/A			100.000	

### **Demand Set Details**

Name	Scenario Name	Time Period Name	Description Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Reference, AM	2030 Reference	AM	FLAT	08:00	09:30	90	15	2 •	



### **Junction Network**

#### Junctions

Junction	Name	Junction Type	Major Road Direction.	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	12.38	В

#### **Junction Network Options**

Driving Side	Lighting
Left	Normal/unknown

### Arms

#### Arms

Am	Am	Name	Description	Arm Type
Α	A	San Po Street (SB)		Major
В	В	Ka Fu Ci		Minor
C	С	San Po Street (NB)		Major

#### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
С	10.00		. 0.00		2.20	3.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

#### Minor Arm Geometry

Arm	Minor Arm Type	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	front to the state of	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
в	One lane	2.20							-		50	50

#### Slope / Intercept / Capacity

#### **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)	for	Slope for A-C	for	for
1	B-A	476.978	0.072	0.181	0.114	0.259
10830	B-C	602.919	0.076	0.193	-	-
123.02	C-B	575.701	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.



# **Traffic Flows**

### **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Time		Vehicle Mix Varies Over Entry		PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		~	1	HV Percentages	2.00				1	4

# **Entry Flows**

### **General Flows Data**

Am	m Profile Type Use Turning Cou		Average Demand Flow (PCU/hr)	Flow Scaling Factor (%		
Α	FLAT	1	305.00	100.000		
В	FLAT	× 1	150.00	100.000		
C	FLAT	1	215.00	100.000		

# **Direct/Resultant Flows**

### **Direct Flows Data**

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	Α	305.00	305.00		-
08:00-08:15	в	150.00	150.00	· ·	
08:00-08:15	С	215.00	215.00		
08:15-08:30	A	305.00	305.00		
08:15-08:30	В	150.00	150.00		
08:15-08:30	С	215.00	215.00		
08:30-08:45	A	305.00	305.00		
08:30-08:45	в	150.00	150.00		
08:30-08:45	C	215.00	215.00		· ·
08:45-09:00	A	305.00	305.00		
08:45-09:00	В	150.00	150.00		
08:45-09:00	C	215.00	. 215.00		
09:00-09:15	A	305.00	305.00		
09:00-09:15	В	150.00	150.00		
09:00-09:15	С	215.00	215.00		
09:15-09:30	A	305.00	305.00		
09:15-09:30	В	150.00	150.00		
09:15-09:30	С	215.00	215.00		



# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

		en de	To	被認知
		A	в	C C
É.	A	0.000	145.000	160.000
FIOM	В	130.000	0.000	20.000
	С	195.000	20.000	0.000

Turning Proportions (PCU) - Junction 1 (for whole period)

	124	$\langle 2 \rangle$	Го	
		Α.	B	C
Star.	Α	0.00	0.48	0.52
FIOIII	B	0.87	0.00	0.13
	C	0.91	0.09	0.00

# Vehicle Mix

Average PCU Per Vehicle - Junction 1 (for whole period)

		То							
	13845 - 450	A	в	С					
	Α	1.000	1.000	1.000					
FIOM	В	1.000	1.000	1.000					
	C	1.000	1.000	1.000					

Heavy Vehicle Percentages - Junction 1 (for whole period)

		Se T	ò.	
	Nes.	Α	В	C
	Α	0.0	0.0	0.0
FIOIN	B	0.0	0.0	0.0
	C	0.0	0.0	0.0

# Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.35	13.07	0.54	B
C-A	-	-	-	-
C-B	0.04	7.21	0.04	A .
A-B		-	-	-
A-C	-	-	-	-



### Main Results for each time segment

#### Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	150.00	147.87	0.00	425.37	0.353	0.53	12.878	В
C-A	195.00	195.00	0.00	-	-	-	-	-
C-B	20.00	19.84	0.00	519.51	0.039	0.04	7.203	A
A-B	145.00	145.00	0.00		-	-	-	-
A-C	160.00	160.00	0.00	-	-	-	-	-

#### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	150.00	149.98	0.00	425.33	0.353	0.54	13.071	В
C-A	195.00	195.00	0.00	-		-	-	-
C-B	20.00	20.00	0.00	519.51	0.039	0.04	7.206	A
A-B	145.00	145.00	0.00	-	-	-	-	-
A-C	160.00	160.00	0.00	-	-	-	-	-

#### Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	150.00	149.99	0.00	425.33	0.353	0.54	13.074	В
C-A	195.00	195.00	0.00	-	-	-	-	-
C-B	20.00	20.00	0.00	519.51	0.039	0.04	7.206	A
A-B	145.00	145.00	0.00	-	-	-	-	-
A-C	160.00	160.00	0.00	-	-	-	-	-

#### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	150.00	150.00	0.00	425.33	0.353	0.54	13.074	B
C-A	195.00	195.00	0.00	-	-	-	-	-
С-В	20.00	20.00	0.00	519.51	0.039	0.04	7.206	A
A-B	145.00	145.00	0.00	-	-	-	-	-
A-C	160.00	160.00	0.00	-	-	-	-	-

#### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	150.00	150.00	0.00	425.33	0.353	0.54	13.074	в
C-A	195.00	195.00	0.00	-	-	-	-	-
C-B	20.00	20.00	0.00	519.51	0.039	0.04	7.206	A
A-B	145.00	145.00	0.00	•	•		-	-
A-C	160.00	160.00	0.00	-	-		-	-

#### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	150.00	150.00	0.00	425.33	0.353	0.54	13.074	В
C-A	195.00	195.00	0.00	-	-	-	-	-
Ċ-B	20.00	20.00	0.00	519.51	0.039	0.04	7.209	A
A-B	145.00	145.00	0.00	-	-	-	÷	-
A-C	160,00	160.00	0.00	-	-	-	-	-

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Generated on 9/2/2022 14:51:32 using Junctions 8 (8.0.5.523)

# Junction B - 2030 Reference, PM

#### **Data Errors and Warnings**

No errors or warnings

#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction B	N/A			100.000	

#### **Demand Set Details**

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Reference, RM	2030 Reference	RM		FLAT	08:00	09:30	90	15		

# **Junction Network**

#### Junctions

Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	12.50	В

### **Junction Network Options**

Driving Side	Lighting
Left	Normal/unknown

### Arms

#### Arms

Arm	Am	Name	Description	Arm Type
Α	A	San Po Street (SB)		Major
в	В	Ka Fu Ci		Minor
С	С	San Po Street (NB)		Major

#### **Major Arm Geometry**

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right. Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
С	10.00		0.00		2.20	3.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

#### **Minor Arm Geometry**

[	٩m	Minor Am Type	Lane Width	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
	в	One lane	2.20									50	50

# <u>ISr</u>

### Slope / Intercept / Capacity

#### **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	476.978	0.072	0.181	0.114	0.259
1.	₿-C	602.919	0.076	0.193	-	-
1	C-B	575.701	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments. Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

# **Traffic Flows**

### **Demand Set Data Options**

Vehicle Mix Varies Over Time		Vehicle Mix Varies Over Entry		PCU Factor. for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
3 1	1	1	HV Percentages	2.00		-11 v		~	1

# **Entry Flows**

### **General Flows Data**

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
A	FLAT	√	290.00	· 100.000
в	FLAT	1	145.00	100.000
С	· FLAT	1	275.00	100.000

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### **Direct/Resultant Flows**

### **Direct Flows Data**

Time Segment	Am	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	Α	290.00	290.00		
08:00-08:15	В	145.00	145.00		
08:00-08:15	С	275.00	275.00		
08:15-08:30	A	290.00	290.00		
08:15-08:30	В	145.00	145.00		
08:15-08:30	С	275.00	275.00		
08:30-08:45	A	290.00	290.00		
08:30-08:45	В	145.00	145.00		
08:30-08:45	С	275.00	275.00		
08:45-09:00	A	290.00	290.00		
08:45-09:00	В	145.00	145.00		
08:45-09:00	С	275.00	275.00		
09:00-09:15	A'	290.00	290.00		
09:00-09:15	В	145.00	145.00		
09:00-09:15	С	275.00	275.00		
09:15-09:30	A.	290.00	290.00		
09:15-09:30	в	145.00	145.00	÷.,	
09:15-09:30	С	275.00	275.00		

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

8328			То	
		A	В	C
-	Α	0.000	125.000	165.000
From	В	125.000	0.000	20.000
	C	260.000	15.000	0.000

Turning Proportions (PCU) - Junction 1 (for whole period)

	÷	- To					
and the second	123	Α	В	C			
	A	0.00	0.43	0.57			
From	В	0.86	0.00	0.14			
	C	0.95	0.05	0.00			

# Vehicle Mix

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Average PCU Per Vehicle - Junction 1 (for whole period)

			То	
		Α.	B	C.
	A	1.000	1.000	1.000
FIOM	В	1.000	1.000	1.000
	C	1.000	1.000	1.000

Heavy Vehicle Percentages - Junction 1 (for whole period)

$\langle \langle \rho \rangle \rangle$		То				
i kaj		A	В	C		
From	Α	0.0	0.0	0.0		
From	В	0.0	0.0	0.0		
	C	0.0	0.0	0.0		

### Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.34	13.06	0.52	В
C-A	· -	-	-	-
C-B	0.03	7.10	0.03	· A
A-B	-	-	-	-
A-C	-	-	-	-

### Main Results for each time segment

### Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	145.00	142.94	<u>0.00</u>	420.76	0.345	0.51	12.868	B
C-A	260.00	260.00	0.00	-	-	-	-	-
C-B	15.00	14.88	0.00	522.27	0.029	0.03	7.093	A
A-B	125.00	125.00	0.00	•	-	-	-	-
A-C	165.00	165.00	0.00	-	-	-		-

#### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	145.00	144.98	0.00	420.73	0.345	0.52	13.053	В
C-A	260.00	260.00	- 0.00	-		-	-	-
C-B	15.00	15.00	0.00	522.27	0.029	0.03	7.095	A
A-B	125.00	125.00	0.00	-	-	-	-	-
A-C	165.00	165.00	0.00	-	-	-	-	-



#### Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	145.00	144.99	0.00	420.73	0.345	0.52	13.055	В.
C-A	260.00	260.00	0.00	-	-	-	-	-
C-B	15.00	15.00	0.00	522.27	0.029	0.03	7.095	A
A-B	125.00	125.00	0.00	-	-	-	· -	-
A-C	165.00	165.00	0.00	-	-	-	•	-

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#### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	145.00	145.00	0.00	420.73	0.345	0.52	13.055	В
C-A	260.00	260.00	0.00	-	-	-	-	-
С-В	15.00	15.00	0.00	522.27	0.029	0.03	7.095	A
A-B	125.00	125.00	0.00	-	-	-	-	-
A-C	165.00	165.00	0.00	-	-		-	-

#### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	145.00	145.00	0.00	420.73	0.345	0.52	13.055	В
C-A	260.00	260.00	0.00		-	-	-	-
C-B	15.00	15.00	0.00	522.27	0.029	0.03	7.098	A
A-B	125.00	125.00	0.00	-	-	-	-	-
A-C	165.00	165.00	0.00	-	-	-	-	-

#### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	145.00	145.00	0.00	420.73	0.345	0.52	13.055	В
C-A	260.00	260.00	0.00	-		-	-	-
C-B	15.00	15.00	0.00	522.27	0.029	0.03	7.098	A
A-B	125.00	125.00	0.00		-	-	-	-
A-C	165.00	165.00	0.00	-	-	- 3	-	-

# Junction B - 2030 Design, AM

#### **Data Errors and Warnings**

No errors or warnings

#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	<b>Reason For Scaling Factors</b>
Junction B	N/A			100.000	

### **Demand Set Details**

Name	Scenario Name	Time Periodi Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Löcked
2030 Design, AM	2030 Design	AM		FLAT	08:00	09:30	90	15		

### **Junction Network**

#### Junctions

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Junction	Name	Junction Type	Major Road Direction	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	12.96	В

### Junction Network Options

Driving Side	Lighting
Left	Normal/unknown

### Arms

#### Arms

Am	Am	Name	Description	Arm Type
Α	Α	San Po Street (SB)		Major
в	В	Ka Fu Ci		Minor
С	С	San Po Street (NB)		Major

### **Major Arm Geometry**

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
C	10.00		0.00		2.20	3.00		

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

#### Minor Arm Geometry

Arm	Minor Arm Type	Lane Width (m)	Width	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)		Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
в	One lane	2.20		,							· 50	50

#### Slope / Intercept / Capacity

#### **Priority Intersection Slopes and Intercepts**

Junction	Stream	Intercept (PCU/hr)	for	for	Slope for C-A	for
1	B-A	476.978	0.072	0.181	0.114	0.259
1	B-C	602.919	0.076	0.193	-	-
13,4,454.	C-B	575.701	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.



### **Traffic Flows**

#### **Demand Set Data Options**

Default Vehicle Mix	Mix Varies		Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning: Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		×.	~	· HV Percentages	2.00				√ .	1

# **Entry Flows**

### **General Flows Data**

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
Α	FLAT	<ul> <li>✓</li> </ul>	315.00	100.000
В	FLAT	<b>√</b> .	165.00	100.000
С	FLAT	1	220.00	100.000

# **Direct/Resultant Flows**

#### Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow, (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-08:15	Α	315.00	315.00		
08:00-08:15	в	165.00	165.00		
08:00-08:15	Ċ	220.00	220.00		
08:15-08:30	Α	315.00	315.00		1991 States and States
08:15-08:30	В	165.00	. 165.00		•
08:15-08:30	С	220.00	220.00		
08:30-08:45	A	315.00	315.00	<b>经</b> 运行运行的 化运行数	
08:30-08:45	В	165.00	165.00		
08:30-08:45	С	220.00	220.00		
08:45-09:00	A	315.00	315.00	是自己的是他的影响	
08:45-09:00	В	165.00	165.00		
08:45-09:00	С	220.00	220.00		
09:00-09:15	·A	315.00	315.00		
09:00-09:15	В	165.00	165.00		
09:00-09:15	С	220.00	220.00		
09:15-09:30	A	315.00	315.00	经济和公司的基本	
09:15-09:30	В	165.00	165.00		
09:15-09:30	C	220.00	220.00		-

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

	(法)		То	
		Α	в	C
Erom	Α	0.000	155.000	160.000
FIOIN	В	140.000	0.000	25.000
	C	195.000	25.000	0.000

Turning Proportions (PCU) - Junction 1 (for whole period)

	То				
57 (s.		A	< <b>B</b>	С	
-	A	0.00	0.49	0.51	
From	В	.0.85	0.00	0.15	
	С	0.89	0.11	0.00	

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# **Vehicle Mix**

Average PCU Per Vehicle - Junction 1 (for whole period)

(1, 1)	То							
	12	Α	В	C				
Craw	A	1.000	1.000	1.000				
From	B	1.000	1.000	1.000				
	С	1.000	1.000	1.000				

Heavy Vehicle Percentages - Junction 1 (for whole period)

		ा	0	
	1.4	Α	В	С
Erem	A	0.0	0.0	0.0
FIOM	B	0.0	0.0	0.0
	C	0.0	0.0	0.0

# Results

#### Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.39	13.81	0.63	B
C-A	-	-		-
C-B	0.05	7.31	0.05	А
A-B	-	-	-	-
A-C	-	-	-	-

### Main Results for each time segment

#### Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	165.00	162.53	0.00	425.62	0.388	0.62	13.561	В
C-A	195.00	195.00	0.00	-			-	-
C-B	25.00	24.80	0.00	517.67	0.048	0.05	7.300	A
A-B	155.00	155.00	0.00	-	·-	-	-	-
A-C	160.00	160.00	0.00	-		-	-	-

#### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	165.00	164.97	0.00	425.57	0.388	0.63	13.809	В
C-A	195.00	195.00	0.00	-	-	-	-	-
C-B	25.00	25.00	0.00	517.67	0.048	0.05	7.306	A
A-B	155.00	155.00	0.00	-		-	-	-
A-C	160.00	160.00	0.00	-	-	-	-	-

#### Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	165.00	164.99	0.00	425.57	0.388	0.63	13.812	Β.
C-A	195.00	195.00	0.00	-	-	-	-	-
C-B	25.00	25.00	0.00	517.67	0.048	0.05	7.306	A
A-B	155.00	155.00	0.00	-	-	· -	·-	-
A-C	160.00	160.00	0.00	-	-		-	-

#### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	165.00	164.99	0.00	425.57	0.388	0.63	13.815	B
C-A	195.00	195.00	0.00	-	-	•	-	-
C-B	25.00	25.00	0.00 .	517.67	0.048	0.05	7.306	A
A-B	155.00	155.00	0.00		-	•	-	-
A-C	160.00	160.00	0.00		<b>1</b> -	•	-	-

### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	165.00	165.00	0.00	425.57	0.388	0.63	13.815	B
C-A	195.00	195.00	0.00	-	-	-	-	-
C-B	25.00	25.00	0.00	517.67	0.048	0.05	7.306	·A
A-B	155.00	155.00	0.00	-	-	-	-	-
A-C	160.00	160.00	0.00	-	-	-	-	-

#### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	165.00	165.00	0.00	425.57	0.388	0.63	13.815	В
C-A	195.00	195.00	0.00	-	-		-	
C-B	25.00	25.00	0.00	517.67	0.048	0.05	7.306	A
A-B	155.00	155.00	0.00	-		-	-	1
A-C	160.00	160.00	0.00	-	-	-	-	-

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# Junction B - 2030 Design, PM

### **Data Errors and Warnings**

No errors or warnings

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#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	<b>Reason For Scaling Factors</b>
Junction B	• N/A		(4)	100.000	

### **Demand Set Details**

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Design, FM	2030 Design	FM		FLAT	08:00	09:30	90	15		

# **Junction Network**

### Junctions

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Junction	Name	Junction Type	<b>Major Road Direction</b>	Arm Order	Junction Delay (s)	Junction LOS
1	(untitled)	T-Junction	Two-way	A,B,C	13.20	В

### **Junction Network Options**

Driving Side Lighting

Left Normal/unknown

### Arms

#### Arms

Arm	Am	Name	Description	Arm Type
Α	Α	San Po Street (SB)		Major
в	В	Ka Fu Ci		Minor
С	С	San Po Street (NB)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width For Right Turn (m)	Visibility For Right Turn (m)	Blocks?	Blocking Queue (PCU)
C	10.00		0.00		2.20	3.00		a

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

#### **Minor Arm Geometry**

Ап	n A	inor Arm ype	Lane Width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate Flare Length	Flare Length (PCU)	Visibility To Left (m)	Visibility To Right (m)
E		Dne ane	2.20										50	50



#### Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)		Slope for A-C	for	for
1005-5	B-A	476.978	0.072	0.181	0.114	0.259
1.	B-C	602.919	0.076	0.193	-	-
1485	C-B	575.701	0.184	0.184	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

# **Traffic Flows**

### **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Turn		Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	~	~	HV Percentages	2.00		at at		· .	✓

### **Entry Flows**

### **General Flows Data**

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
Α	FLAT	1	290.00	100.000
в	FLAT	1	160.00	100.000
С	FLAT	1	280.00	100.000

**Direct/Resultant Flows** 

#### **Direct Flows Data**

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Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow . (Ped/hr)
08:00-08:15	Α	290.00	290.00	×	
08:00-08:15	в	160.00	160.00		
08:00-08:15	С	280.00	280.00		
08:15-08:30	A	290.00	290.00		
08:15-08:30	В	160.00	160.00		
08:15-08:30	C	280.00	280.00		
08:30-08:45	A	290.00	290.00	<b>经国际关于资本的</b>	
08:30-08:45	в	160.00	160.00		·
08:30-08:45	С	280.00	280.00		
08:45-09:00	A	290.00	290.00	·公共关系的公共40-251-26	
08;45-09:00	В	160.00	160.00		i)
08:45-09:00	C	280.00	280.00		
09:00-09:15	A	290.00	290.00		Charles and the second s
09:00-09:15	в	160.00	160.00		
09:00-09:15	С	280.00	280.00		
09:15-09:30	A	290.00	290.00		
09:15-09:30	в	160.00	160.00		
09:15-09:30	С	280.00	280.00	10 M	

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction 1 (for whole period)

14 m.			То	
	1	A	В	C
<u>e de</u>	A	0.000	125.000	165.000
From	B	140.000	0.000	20.000
	С	260.000	20.000	0.000

Turning Proportions (PCU) - Junction 1 (for whole period)

			Го	
		A	В	С
	A	0.00	0.43	0.57
From	В	0.88	0.00	0.13
	C	0.93	0.07	0.00

## **Vehicle Mix**

Average PCU Per Vehicle - Junction 1 (for whole period)

	100.00		То	
		A	B	C
Erom	A	1.000	1.000	1.000
( Contraction	В	1.000	1.000	1.000
	C	1.000	1.000	1.000

Heavy Vehicle Percentages - Junction 1 (for whole period)

		्रा	0	$M_{\rm eff}$
		A	В	C
From	A	0.0	0.0	0.0
FIOII	В	0.0	0.0	0.0
	C	0.0	0.0	0.0

## Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.38	13.96	0.62	В
C-A	-	-	-	-
C-B	0.04	7.17	0.04	A
A-B	-	-	-	-
A-C		-	-	-

#### Main Results for each time segment

#### Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	160.00	157.58	0.00	417.96	0.383	0.61	13.703	В
C-A	260.00	260.00	0.00	-	-	-		-
C-B	20.00	19.84	0.00	522.27	0.038	0.04	7.163	A
A-B	125.00	125.00	0.00	-	-	-	-	-
A-C	165.00	165.00	0.00	-	-	-	-	-

#### Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	160.00	159.97	0.00	417.92	0.383	0.61	13.951	В
C-A	260.00	260.00	0.00	-		-	-	-
C-B	20.00	20.00	0.00	522.27	0.038	0.04	7.166	A
A-B	125.00	125.00	0.00	-		-	-	-
A-C	165.00	165.00	0.00	-	-	-	-	-

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#### Generated on 9/2/2022 14:51:32 using Junctions 8 (8.0.5.523)

#### Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	160.00	159.99	0.00	417.92	0.383	0.62	13.954	B
C-A	260.00	260.00	0.00	-	-	-	-	-
C-B	20.00	20.00	0.00	522.27	0.038	0.04	7.166	A
A-B	125.00	125.00	0.00	-	-	•	-	-
A-C	165.00	165.00	0.00	-	-	-	-	-

#### Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	160.00	159.99	0.00	417.92	0.383	0.62	13.956	В
C-A	260.00	260.00	0.00	-	-	-	- 1	-
C-B	20.00	20.00	0.00	522.27	0.038	0.04	7.166	A
A-B	125.00	125.00	0.00	-	-	-	-	-
A-C	165.00	165.00	0.00	-	-	-	-	-

#### Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	160.00	160.00	0.00	417.92	0.383	0.62	13.956	В
C-A	260.00	260.00	0.00	-	-	-		-
C-B	20.00	20.00	0.00	522.27	0.038	0.04	7.166	A
A-B	125.00	125.00	0.00	Ξ.	.=	-	-	-
A-C	165.00	165.00	0.00	-	-	-	-	-

#### Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
B-AC	160.00	160.00	0.00	417.92	0.383	0.62	13.956	В
C-A	260.00	260.00	0.00	-	-		-	-
С-В	20.00	20.00	0.00	522.27	0.038	0.04	7.169	A
A-B	125.00	125.00	0.00	-	-	•	-	-
A-C	165.00	165.00	0.00	-		-	-	-

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RAFFIC SIGNALS	CALCULA Junction C	10-01-20-01-01-02-0-0-0-0-0-0-0-0-0-0-0-	n Road / Si	an Po Stree	t / Sheung		o: 22007H	К.						CTA	Consi	iltant	s Ltd.
Description:						Diar rang			-								
	tion ment tion	se	ge 1 (m)	Radius	(m) 5	F Pro. T	urning (%)	Saturat	vised ion Flow u/hr)	Total R Saturatio	on Flow		A.M. Peak			P.M. Peak	¢
Approach	Direction Movement notation	Phase	Stage Width (m)	Left	Right []	A.M	. P.M.	A.M.	P.M.	A.M.	P.M.	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y
San Po Street	м ф	с	3 5.0	30	25	1 34%/5	9%:4% / 70	3 2010	2005	2010	2005	355	0.177	0.177	380 ·	0.190	0.190
Sheung Shui Tung Hing Road	s⇔	D	4 5.0	30	25	1 76%/1	5%2%/24	2020	2025	2020	2025	170	0.084	0.084	145 .	0.072	0.072
Po Wan Road	W 1	A A	1 4.0 1 3.5			1 100%		1860 2075	1860 2065	1860 2075	1860 2065	180 195	0.097 0.094	0.097	160 150	0.086 0.073	0.086
Po Wan Road	E ∲	в	2 5.0		25	1 15%/3	0%3% / 31%	4 2065	2070	2065	2070	270	0.131	0.131	240	0.116	0.116
							(*) (										
Pedestrian crossing	<b>«</b> »	Ep	5 Min	. Green = 8	Gm + 9Fr	n = 17s						÷	۰.				
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*															ia.		
						(*)					.*						
otes:	22			T	raffic Flo	w (pcu / hr) 25(3:		AM(PM) 130(90)				εγ	Check Phas 0.488	e	εу	Check Phas 0.463	ie
						(20) <u></u> 145) →	. <b>*</b> ] ↑	• ل <u>&gt;</u>	` <u>^</u>	45(50) 150(100)		L (sec) C (sec) y pract.	29 128 0.696		L (sec) C (sec) y pract.	29 128 0.696	
						(75) —¥	ግ 个	٢►	4↓	180(160)		R.C. (%)	43%		R.C. (%)	50%	
tage / Phase Diagrams	Ă	2			13	120(9		210(265	4		, ,	11	5				
A A A A A A A A A A A A A A A A A A A	†	- ·	11	7			1	/		12		-		L	/	3	z
	THE MORNE	-				cro)	$\leq r$		1		50	30	- A	E E	R.		
ENFORMET T	/	-	T	<u>`</u> \		/	11 1	l.	-	$\square$	TI	۱.	( DEMAND DEP	ENDANT)	/		
G = 2		I/G = 5			₽G	= 7			I/G = 5				I/G = 8+17	Average Los	s time is ad	opted	
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r	TRAFFIC SIGNALS	CALCULAT		ad / San	Po Street			22007HK						. (	CTA (	Consu	ltants	s Ltd.
ť		Year 2030 1				Sheang		ing itoliu										
P		ion nent on	9 9	(m)	Radius ()	E 0/1	Pro. Tur	ning (%) S	Revise	Flow	Total Re Saturatio	n Flow		A.M. Peak		90 -	P.M. Peak	
(	Approach	Direction Movement notation	Phase Stage	(m) dıbi (m)	Left	Right B	A.M.	Р.М.	(pcu/b	r) P.M.	(pcu/	hr) P.M.	Flow	y Value	Critical y	Flow	y Value	Critical y
r	San Po Street	<u>   </u> м 余	 C 3			F	1		2010	2010	2010	2010	(pcu/hr)		0.102	(pcu/hr)	0.204	0.204
×	Sheung Shui Tung	L		5.0			34%/589			2010	2010	2010	385	0.192	0.192	410	0.204	0.204
C	Hing Road	s 🕁	D 4	5.0	30 2	.5 1	74% / 169	/1%/249	2020	2025	2020	2025	190	0.094	0.094	165	0.081	0.081
`	Po Wan Road	W 1	A 1 A 1	4.0 3.5		0 1 15 0				1860 2065	1860 2075	1860 2065	200 225	0.108 0.108	0.108	180 180	0.097 0.087	0.097
C	Po Wan Road	E ∲.	B 2	5.0	30 2	25 1	15%/289	0%/31%	2065	2065	2065	2065	300	0.145	0.145	260	0.126	0.126
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	Pedestrian crossing	<->	Ep 5	Min. (	Green = 8G	im + 9Fn	n = 17s											
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~											6							
(	Notes:				Tr	affic Flov	v (pcu / hr) 30(40)		M(PM) P 40(100)	EAK			εу	Check Phas 0.539	e	εу	Check Phas 0.508	e
6	· .						(25)	1 1	<b>I</b> >	<u>^</u>	55(60)		L (sec) C (sec)	29 128		L (sec) C (sec)	29 128	
(	1						(80) → (80) √ ←	↑	1>	<- ₽	170(120) 200(180)		y pract. R.C. (%)	0.696 29%		y pract. R.C. (%)	0.696 37%	
1	Stage / Phase Diagrams	s					130(95)	30(30) 2	25(285)					•				
L	1 31 14	NAT	2	$\left \right $	/	3	, }			4	, \	$\backslash$		5	11	_		
6			).	$\langle \rangle$	7		-		-		JC.		/	T	E			
C		Res and include	1	-	5	. [-	~	75		/	14	15	T.F.D			1		
(	SWIDDING T	<b>X</b>	/	B//	`			<u>17</u> . '		_		T	χ.	( DEMAND DEP	ENDANT)	<b>`</b>		
. C	1/G = 2		I/G = 5			УG	=7	,		I/G = 5				I/G = 8+17	Average Los	s time is ad	opted	
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RAFFIC SIGNALS	CAL	CULA	TION						Job No:	22007HI	c					(	CTA (	Consu	ltant	s Ltd.
Description:	Jund Yea	tion C r 2030	- Po W Design	Van Ro 1 Flow	oad / Sa	n Po St	reet / She	eung Sh	nui Tung H	ing Road			······································		,			-		
Approach	Direction	Movement notation	Phase	Stage	Width (m)	Radi	ius (m)	Nearside 0/1	Pro. Tur	ning (%)	Revi Saturatic (pcu	n Flow	Total R Saturatio	n Flow		A.M. Peak			P.M. Peak	
	Dire	Mov	Ph	St	· Wid	Left	Right	Nears	A.M.	P.M.	A.M,	P.M.	A.M.	P.M.	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y
San Po Street	N	$\Leftrightarrow$	С	3	5.0	30	25	1	33% / 599	2%/719	2010	2010	2010	2010	390	0.194	0.194	425	0.211	0.211
Sheung Shui Tung Hing Road	S	⇔	D	4	5.0	30	25	1	72%/159	9%/24%	2025	2025	2025	2025	195	0.096	0.096	170	0.084	0.084
Po Wan Road	w w	₹ 1>	A A	1 1	4.0 3.5	18 0	0 25	1 0	100% 24%	100% 33%	1860 2075	1860 2065	1860 2075	1860 2065	205 225	0.110 0.108	0.110	185 180	0.099 0.087	0.099
Po Wan Road	E	⇒	в	2	5.0	30	25	1	15%/289	0%/319	2065	2065	2065	2065	300	0.145	0.145	260	0.126	0.126
						≈,		8												
Ded			<b>F</b> -		10.	<b>C</b>	= 8Gm +	07	12-											
Pedestrian crossing		<b>«»</b>	Ep	5	міц. (	Green =	= 8Gm +	9rm =	- 1 /S											*
	3					ж.														
•														•			* .'			
											8									
lotes:							Traffic	Flow (	pcu / hr) 30(40)	25(30)	AM(PM) 1 140(100)	PEAK			εу	Check Phase 0.546		εу	Check Phas 0.521	e -
								45(25	<b>.</b>	4	اي. اي.	۸	55(60)		L (sec) C (sec)	29 128		L (sec) C (sec)	29 128	÷
· ·	<							170(155 85(80		↑	Þ	← ⊾	170 <u>(</u> 120) 205(185)		y pract. R.C. (%)	0.696 28%		y pract. R.C. (%)	0.696 34%	
Stage / Phase Diagrams						•			130(95)	35(35)	230(300)								¥.	
1 31 14	/	744	2	``	11	/	-	3	, 1'		/	4	, \			5	11			
The second	1-	NUT TAND		1	$\langle /$	AL	1	و	a)	A F	1		JC.	~	1	Real Property	E	2		
THREE	in the second	2	1	-	N.	5		/	1.	77		1	1	T	1		and T	" <b>2</b>		
G = 2			I/G = :	5	) B//			I/G = '	\ 	./ .		I/G = 5	\	//		(DEMAND DEPE		day - t 4		
0-2			00=	5					,			נ≃טען				I/G = 8+17 A	verage Los	une is ado	pica	
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T	RAFFIC SIGNALS C				Road / Po	Shek V	Wu Road		Job No:	22007H	IК.					CTA	Co	asult	ants	Ltd.
	Description															•				
-J.		tion	ion	2	(III)	Rad	ius (m)	le 0/1	Pro. Ti (%		Rev Satur Flow (	ation	Total R Saturatio (pcu	on Flow		A.M. Peak		1	P.M. Peak	
	Approach	Direction	notation	Stage	Width (m)	Left	Right	Nearside	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critica y
1	Po Shek Wu Road	N (		A 1		40	0	1			1895	1895	1895	1895	330	0.174		435	Ó.230	
Ţ		N N		A I A I	3.5	0	0	0	0% 0%	0% 0%	2105 2105	2105 2105	4210 0	4210 0	430 430	0.204 0.204		、358 358	0.170 0.170	
	8	и И И		B 2 B 2		0	25 20	0 0	100% 100%	100% 100%	1975 2025	1975 2025	4000 0	4000 0	119 122	0.060 0.060	0.060	119 122	0.060 0.060	0.060
l	Po Shek Wu Road	s		A. 1	3.5	15	0	1	100%	100%	1785	1785	1785	1785	205	0.115	÷	205	0.115	
		s - s -	т –		3.5	0	0	0	0% 0%	0% 0%	2105 2105	2105 2105	4210 0	4210 0	495 495	0.235	0.235	465	0.221	0.230
	San Wan Road	Е		E 4		20	0	. 1	51%	55%	1885	1880	1885	1880	215	0.114	0.154	220	0.117	0.154
	2	Е —	1	E 4	3.5	. 0	18	' 0	100%	100%	1945	1945	1945	1945	300	0.154		300	0.154	
1	San Wan Road	w W		D 2 C 2		0 20	30 0	0 1	19% 100%	19% 100%	2135 1875	2135 1875	2135 1875	2135 1875	365 500	0.171 0.267	0.171	360 485	0.169 0.259	0.169
	Pedestrian crossing	~	Ç	Gp 2	2 Min.	Green =	= 5Gm + = 5Gm + = 5m + 8	10Fm	= 15s								ŧ			
									\$										. 6	
1						s -									Ð					
	Notes:					Traff	ic Flow (	pcu / ł	ır)		AM(P)	I) PEAK				Check Pha	se		Check Pha	ise
1				8						990(930)	205(20				Ey L (sec)	0.620 21		Ey L (sec)	0.612 21	
							110(120 105(100	$\rightarrow$	*	4	لے ح	$\leftarrow$	70(70) 245(250)		C (sec) y pract.	128 0.752		C (sec) y pract.	128 0.752	
	•						300(300	) —	330(435)	)	1		500(485)		R.C. (%)	21%		R.C. (%)	23%	
										860(715	240(24 )									
	Store / Phone Diagrams																			
	Stage / Phase Diagrams		2			3		U l	Н	4	Ϊ.									
	4	×			G C+3	3				4 			->							
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#### TRAFFIC SIGNALS CALCULATION

Job No: 22007HK **CTA Consultants Ltd.** Junction: Junction D - Po Wan Road / Po Shek Wu Road Description: Year 2030 Reference Flow Revised Total Revised Pro. Turning Nearside 0/1 Radius (m) Saturation Saturation Flow A.M. Peak P.M. Peak Direction (H Movemen notation Stage (%) Phase Width ( Flow (pcu/hr) (pcu/hr) Approach Right Flow Critical Flow Critical Left y Value y Value P.M. P.M. P.M. A.M. A.M. A.M. (pcu/hr) (pcu/hr) Y у ¢ Po Shek Wu Road Ν 3.5 15 0 1 100% 100% 1785 1785 5995 5960 370 0.207 380 0.213 A 1 4 N 3.5 20 0 0 0% 23% 2105 2070 0 0 483 0.229 441 0.213 A 1 N 3.5 0 0 0 0% 0% 2105 2105 0 0 483 0.229 449 0.213 1 A 0.078 0.075 0.075 N В 0 25 0 100% 100% 1975 1975 4000 4000 153 0.078 148 2 3.4 N В 2 20 0 100% 100% 2025 0 0.078 152 0.075 42 0 2025 0 157 Po Shek Wu Road S A 1 3.5 15 0 1 60% 70% 1855 1835 6065 6045 414 0.223 358 0.195 S 3.5 0 0 0 0% 0% 2105 2105 0 0 470 0.223 0.229 411 0.195 0.213 A 1 3.5 0 0 0 0% 0% 2105 2105 0 0 470 0.223 411 0.195 S 1 € E 4%/11'.4%/99 1875 3820 3825 287 0.153 292 0.155 0.156 Е 4 20 18 1880 0.153 San Wan Road 3.4 1 303 E E 4 3.5 0 18 0 100% 100% 1945 1945 0 0 298 0.153 0.156 San Wan Road 2,3 4.0 0 30 0 22% 21% 2130 2135 2130 2135 395 0.185 0.185 385 0.180 0.180 w D W С 2,3 4.0 20 0 1 100% 100% 1875 1875 1875 1875 620 0.331 575 0.307 1 1,4 Min. Green = 5Gm + 9Fm = 14s Fp Pedestrian crossing <->> Min. Green = 5Gm + 10Fm = 15s Gp 2 Hp 3 Min. Green = 5m + 8Fm = 13sNotes: Traffic Flow (pcu / hr) AM(PM) PEAK Check Phase Check Phase 0.624 εy 0.645 εу 1105(930) 250(250) L (sec) 21 L (sec) 21 C (sec) 125(130) \_\_\_^ 1 - 85(80) 128 128 J C (sec) 1 130(135) → ← 310(305) 0.752 0.752 y pract. y pract.  $\uparrow$ 1> 330(330) 620(575) R.C. (%) 5 R.C. (%) 17% 21% 370(480) 310(300) 965(790) Stage / Phase Diagrams 3 4 Ц d D ЦL ЦI U Ha f . . TT TT I/G = 7J/G = 71/G = 6VG = 5

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														3		
<u> </u>	TRAFFIC SIGNALS C	ALCULATION	×			Job No: 22	2007HK					CTA	Co	nsult	ants	Ltd.
1		Junction D - Po V Year 2030 Desig		Shek Wu Road				-				۰.				
est.		on ent en	E a	Radius (m)	s 0/1	Pro. Turn	satu	vised tration	Saturati	Revised ion Flow		A.M. Péak	: "	1	P.M. Peak	
	Approach	Direction Movement notation Phase	Stage Width (m)	Left Right	Nearside 0/1	h	P.M. A.M.	(pcu/hr) P.M.	A.M.	u/hr) P.M.	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y
[	Po Shek Wu Road	N CA	1 3.5	15 0	1		00% 1785		5995	5960	380	0.213		383	0.215	
		N A A N B	1 3.5 1 3.5 2 3.5	20 0 0 0 0 25	0 0 0	0%	24% 2105 0% 2105 00% 1985	2105	0 0 4035	0 0 4035	483 483 153	0.229 0.229 0.077	0.077	444 452 148	0.215 0.215 0.074	0.074
			2 4.5	0 20	0		00% 2050		0	0	157	0.077	0.077	152	0.074	0.074
1	Po Shek Wu Road	s A A	1 3.5 1 3.5	15 0 0 0	1 0		70% 1855 0% 2105		6065 0	6045 0	414 470	0.223 0.223	0.229	358 411	0.195 0.195	0.215
		s 🗸 A	1 3.5	0 0	0	0%	0% 2105	2105	0	• 0	470	0.223		411	0.195	
	San Wan Road	e	4 3.5 4 3.5	20 18 0 18	1 0		%/89 1885 00% 1945		3830 0	383 <i>5</i> 0	295 305	0.157 0.157	0.157	303 312	0.160 0.160	0.160
1	San Wan Road	W < ⊂ D W √ C	2,3 4.0 2,3 4.0	0 30 20 0	0		21% 2130 .00% 1875		2130	2135 1875	395 620	0.185 0.331	0.185	385 575	0.180	0,180
		wψ						1875	1875	1075	020	0.551		515	0.507	
	Pedestrian crossing	≪≫ Fp Gp Hp	2 Min.	Green = 5Gm + Green = 5Gm + Green = 5m + 8	10Fm	= 15s										
1	· ·	112	5 1811.								<b>x</b> 101					
	20 9				÷			90		° .						
			ar R			1										
•	Jotes:		•	Traffic Flow (	pcu / l	1 <b>r)</b>	AM(F	M) PEAK	5		εy	Check Pha 0.648	ase	εy	Check Pha 0.630	ise
			5	130(140		110:	5(930) 250(2 ↓ L	1	- 85(80)		L (sec) C (sec)	21 128	a.	L (sec) C (sec)	21 128	
-	-			135(140 335(335		5	^  >		310(305) 620(575)		y pract: R.C. (%)	0.752 16%		y pract. R.C. (%)	0.752 19%	
						380(490) 9(	310(3 65(790)	00)					د	^		
	Stage / Phase Diagrams	× 2	G D++3	3	LΙ	H	4 									
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-			A B C C	TT	∩₄	●→D	T	.U ∱ [	* jr							
	I/G = 7	I/G = 6		I/G = 5		I	/G = 7			1						
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RAFFIC SIGNALS CAL					No: 22007I	łK		-		,	CTA	Co	nsult	ants	Ltd.
Junction: Jun Description: Ye			/ Choi Yuen Ro	ad										<u> </u>	
tion	ment ion se	(m)	Radius (m)	Pro e O/I	. Turning (%)	Satur	rised ration pcu/hr)	Saturati	Revised on Flow 1/hr)		A.M. Peak	:		P.M. Peak	
Approach 311	Movement notation Phase	Stage Width (m)	Left Right	Nearside 0/1	4. P.M.	A.M.	P.M.	A.M.	P.M.	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y
Po Shek Wu Road N N N	i ↑ c	2,3 5.9 2,3 3.3 2,3 3.3	40 0 0 0 0 0	1 100 0 09 0 09	6 0%	2125 2085 2085	2125 2085 2085	2125 4170 0	2125 4170 0	154 573 573	0.072 0.275 0.275		148 560 560	0.070 0.269 0.269	
N	54 J	3 3.4 3 4.2	0 25 0 20	0 100 0 100			1975 2025	4000 <sup>°</sup> 0	4000 0	213 218	0.108 0.108	0.108	225 230	0.114 0.114	0.114
Po Shek Wu Road S S	з 🕹 в	1 3.6 1,2 3.7 1,2 3.9	0 10 0 0 0 0	0 100 0 09 0 09	6 0%	1840 2125 2145	1840 2125 2145	1840 6395 0	1840 6395 0	45 434 438	0.024 0.204 0.204	0.024 0.180	70 452 456	0.038 0.213 0.213	0.038 0.175
S	в 🗡 В	1,2 3.9 1,2 3.7 1,2 3.5	0 0 15 0	0 09	6 0%	2125	2125 1785	0 1785	0 1785	434 430	0.204 0.241		452 230	0.213 0.129	
Choi Yuen Road E E E	Э 과 н	5 3.5 5 3.4 5 3.5	15 0 0 20 0 18	1 40 0 100 0 100	% 100%		1870 1950 1945	5785 0 0	5765 0 0	62 96 95	0.033 0.049 0.049	0.049	62 68 67	0.033 0.035 0.035	0.035
Choi Yuen Road V		4 4.0 3,4 4.0	0 30 20 - 0	0 86 0 100	0% 100%		2065 2005	2065 3830	2065 3830	318 229	0.154 0.114	0.154	283 235	0.137 0.117	0.137
Pedestrian crossing	V ↓ F,G ≪ > Ip Jp		18 0 Green = 27Gm Green = 47 Gm		s	1825	1825	0	0	208	0.114		214	0.117	
	Kp Lp	4 Min.	Green = 4Gm + Green = 40Gm	9Fm = 13s											
otes:			Traffic Flow		1305(13		M) PEAK			Ey L (sec)	Check Pha 0.515 24	ise	Ey L (sec)	Check Ph 0.498 24	ase
	•	×	25(31 37(31 191(135	)^ ) →	↓ ↓ ۹ ↑	l∍  > 431(45	₹ ↓	275(240) 43(43) 437(449)		C (sec) y pract. R.C. (%)	128 0.731		C (sec) y pract. R.C. (%	128 0.731	
tage / Phase Diagrams					1145(11			4		1234	5	15	·		
				3			<u>p</u>			<u>Ш</u>	K ID				T
	1/G =			D 4	J) [	↓ ►E	ţ.	1/G = 9	T	∏n√[	•> G	I/G = 8		<u>IIn</u>	L
oss Time: 6s+5s+9s+8s-4s	(Nos. of stage	es) = 24s	· · · · · · · · ·				•								
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TRAFFIC SIGNALS CALCULATION

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Job No: 22007HK

### **CTA Consultants Ltd.**

-	FRAFFIC SIGNALS C.	AUCULATI	ION						Job No:	22007F	115.					UIA	L COI	nsulta	ints l	_τa.
		Junction E -				Choi Y	uen Roa	ad										_		÷
1	Description:	Year 2030 I	Referen	nce Flo	W															
, t	Approach	Direction Movement notation	Phase	Stage	Width (m)	Radiu	ıs (m)	Nearside 0/1	Pro. Tu (%	_	Rev Satur Flow (j	ation	Total R Saturatio (pcu	on Flow		A.M. Peak		P	.M. Peak	
		Dire	E.	St	Wid	Left	Right	Nears	À.M.	P.M.	A.M.	P.M.	A.M.	P.M.	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critical y
	Po Shek Wu Road	V V V V V V V	D C C C E E	2,3 2,3 2,3 2,4 3 3	5.9 3.5 3.5 3.5 3.4 4.2	40 0 0 0 0	0 0 0 25 20	1 1 0 0 0 0	100% 0% 0% 100% 100%	100% 0% 0% 100% 100%	2125 1965 2105 2105 1975 2025	2125 1965 2105 2105 1975 2025	2125 6175 0 0 4000 0	2125 6175 0 0 4000 0	305 434 465 465 217 223	0.144 0.221 0.221 0.221 0.110 0.110	0.110	305 420 450 232 238	0.144 0.214 0.214 0.214 0.118 0.118	0.118
	Po Shek Wu Road	\$ \$ \$ \$ \$ \$ \$ \$ \$	A B B B	1 1,2 1,2 1,2 1,2	3.6 3.7 3.9 3.7 3.5	0 0 0 15	10 0 0 0	0 0 0 1	100% 0% 0% 100%	100% 0% 0% 100%	1840 2125 2145 2125 1785	1840 2125 2145 2125 1785	1840 6395 0 0 1785	1840 6395 0 0 1785	60 296 299 296 475	0.033 0.139 0.139 0.139 0.139 0.266	0.033 0.107	85 321 324 321 255	0.046 0.151 0.151 0.151 0.143	0.046 0.105
	Choi Yuen Road		H H H	5 5 5	3.5 3.4 3.5	15 0 0	0 20 18	1 0 0	18% 77% 100%	25% 63% 100%	1930 1980 1945	1915 2000 1945	5855 0 0	5860 0 0	166 171 168	0.086 0.086 0.086	0.086	141 147 143	0.073 0.073 0.073	0.073
	Choi Yuen Road	W W W W	G F,G F,G	4 3,4 3,4	4.0 4.0 3.6	0 20 18	30 0 0	0 0 1	84% 100% 100%	79% 100% 100%	2070 2005 1825	2075 2005 1825	2070 3830 0	2075 3830 0	375 238 217	0.181 0.119 0.119	0.181	340 243 222	0.164 0.121 0.121	0.164
	Pedestrian crossing	~⇒	Ip Jp Kp Lp	2,3 1,4,5 4 1,2,5	Min. G Min. G	reen = -	27Gm + 47 Gm + 4Gm + 9 40Gm +	+ 5Fm =	= 52s 13s							÷	- 1			
	Notes:		121				30(35) 175(160) 300(235)	_ _ ↑ }	60(85) حا 305(305)	960(965 ↓ ↑ 365(132	) 475(25: L <b>-</b>   <b>&gt;</b> 440(47)	< ↓ ↓	315(270) 60(75) 455(465)	F	εy L (sec) C (sec) y práct. R.C. (%) 12 3 4 5		ise	(Ey L (sec) C (sec) y pract. R.C. (%)	Check Pha 0.506 24 128 0.731 45%	5e
	Stage / Phase Diagrams		2 ⊆ VG=(					3  ]/G =					4		 ∏		5 . <u>н</u> ≪ 			
	,	13 (1105. 01	Jugos	275				· · · · · ·							¥					

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TRAFFIC SIGNALS (	CALCULAT		hek Wu	Road	Choi Y	Yuen Ro	ad	Job No:	220071	IK .			N A A A A A A A A A A A A A A A A A A A		CTA	Co	nsult	ants	Ltd.
	n: Year 2030																		
Approach	Direction Movement notation	Phase	Stage	Width (m)	Radi	us (m)	Nearside 0/1	Pro. Tr (%		Satur	rised ration pcu/hr)	Saturati	Revised on Flow 1/hr)		A.M. Peak			P.M. Peak	
, ibbroad	Dire Mov	Ph	St	wide	Left	Right	Nears	A.M.	P.M.	A.M.	Р.М.	A.M.	P.M.	Flow (pcu/hr)	y Value	Critical y	Flow (pcu/hr)	y Value	Critica y
Po Shek Wu Road	м (∽)	D	2,3	5.9	40	0	1	100%	100%	2125	2125	2125	2125	305	0.144		305	0.144	
	N N	C C	2,3 2,3	3.5 3.5	0	0	1	0% 0%`	0% 0%	1965 2105	1965 2105	6175 0	6175 0	434 465	0.221		420 450	0.214	
	й <b>↑</b>	C E	2,4 3	3.5 3.4	0 0	0 25	0 0	0% 100%	0% 100%	2105 1975	2105 1975	0 4000	0 4000	465 217	0.221 0.110	0.110	450 232	0.214	0.118
	и 🔁	Е	3	4.2	0	20	0	100%	100%	2025	2025	0	0	223	0.110		238	0.118	
Po Shek Wu Road	s 📢	А	1	3.6	0	10	0	100%	100%		1840	1840	1840	60	0.033	0.033	85	0.046	0.046
	s 🕇	B	1,2 1,2	3.7 3.9	0 • 0	0 0	0 0	0% 0%	0% 0%	2125 2145	2125 2145	6395 0	6395 0	297 300	0.140 0.140	0.107	322 325	0.152 0.152	0.105
	s s	B	1,2 1,2	3.7 3.5	0 15	0	0 1	0% 100%	0% 100%	2125 1785	2125 1785	0 1785	0 1785	297 - 480	0.140 0.269	· *	322 260	0.152 0.146	
																			0.070
Choi Yuen Road	E	- Н • Н	5 5	3.5 3.4	15 0	0 20	1 0	18% 77%	25% 63%	1930 1980	1915 <sub>.</sub> 2000	5855 0	5860 0	166 171	0.086	0.086	,141 147	0.073 0.073	0.073
·	Е	н	5	3.5	0	18	0	100%	100%	1945	1945	0	0	168	0.086		143	0.073	
Choi Yuen Road	W	G	4	4.0	0	30	0	84%	79%	2070	2075	2070	2075	375	0.181	0.181	340	0.164	0.164
	www	F,G F,G	3,4 3,4	4.0 3.6	20 18	0 0	0 1	100% 100%	100% 100%		2005 1825	3830 0	3830 0	238 217 -	0.119 0.119		243 222	0.121 0.121	
Pedestrian crossing	¥ ≪≫	Ip	2,3	Min. (	Green =	= 27Gm +	- 19Fn	n = 46s			÷								
		Jp Kp	1,4,5 4			47 Gm 46m +					•		÷			÷.			
		Lp	1,2,5	Min. (	Green =	= 40Gm +	- 12Fn	n = 52s							¢.				
*						÷.							•						·
otes:					Traffi	ic Flow (	pcu/h	ur)		AM(P)	M) PEAK			1	Check Pha	ise	T	Check Pha	ase
	đ.							60(85)	895(970 )	)) 480(26	0)			Ey L (sec)	0.517 24		Ey L (sec)	0.506 24	
						30(35) 175(160)		*	↓	L		315(270) 60(75)	)	C (sec) y pract.	128 0.731		C (sec) y pract.	128 0.731	
2	а.					300(235)		<b>آ</b> 305(305)	\ ↑	<b> </b> ▲ 440(47	¥	455(465	).	R.C. (%)			R.C. (%		
Stage / Phase Diagrams						7			1370(13)		•/			12345					
<sup>1</sup> . <u>†</u>		2		1		, ►	3		个			4			к	5			
		=	-1-1-		6	>	=		3J	~	<u>_</u>				-l-	H-			r
			• +	Tn	4r		-	04	โด	Y/	¥ ¥	† —	- FT	IIn T	→G		USC I	Π	L
//G = 0	***	1/G =			•		I/G =	= 5		<u>&gt; -  </u>		I/G = 9	11		-	I/G = 8	3		
Loss Time: 6s+5s+9s+8	85-45 (Nos. o:	t stage	s) = 24s	5						t									
							e											8	

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Generated on 10/2/2022 9:26:26 using Junctions 8 (8.0.5.523)

### **Junctions 8**

#### **ARCADY 8 - Roundabout Module**

Version: 8.0.5.523 [19102,19/06/2015]

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The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Jn F.arc8

Path: \\PROJSRV\Project\CTA Consultants Limited\CTA - Project\22007HK - TCS for Rezoning of PNS Sheung Shui Fresh Food Distribution Centre\CAL\2022-02-07

Report generation date: 10/2/2022 9:26:24

#### » Junction F - 2022 Existing Flow, AM » Junction F - 2022 Existing Flow, PM

» Junction F - 2022 Existing Flow, PW

#### Summary of junction performance

		AM				PM		
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
					2 Existing Flo			
Arm 1	1.81	9.35	0.65	Α	2.39	10.73	0.71	В
Arm 2	1.16	4.22	0.54	Α	1.78	5.50	0.64	A
Arm 3	0.15	2.60	0.13	A	0.19	2.98	0.16	A
Arm 4	1.90	4.36	0.66	A	1.72	4.27	0.63	A

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

"D7 - 2022 Existing Flow, AM " model duration: 8:00 - 9:00 "D8 - 2022 Existing Flow, PM" model duration: 17:30 - 18:30

Run using Junctions 8.0.5.523 at 10/2/2022 9:26:22

#### File summary

Title	(untitled)
Location	
Site Number	
Date	16/10/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	Kathy Wan
Description	

#### **Analysis Options**

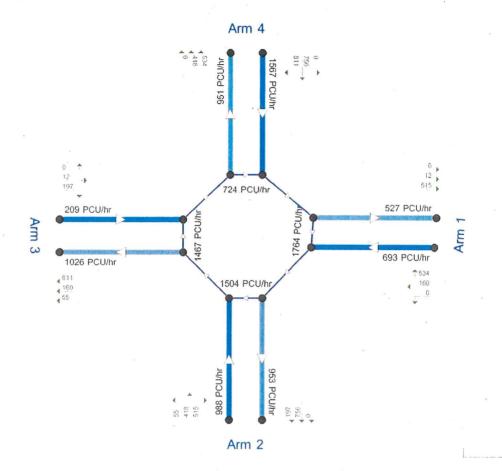
Vehicle Length	Do Queue	Calculate Residual	Residual Capacity Criteria	RFC	Average Delay Threshold	Queue Threshold
(m)	Variations	Capacity	Type	Threshold	(s)	(PCU)
5.75			N/A	0.85	36.00	20.00



Generated on 10/2/2022 9:26:26 using Junctions 8 (8.0.5.523)

#### Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	PCU	PCU	perHour	S	-Min	perMin



20.00 m

Storing material flow through process. ACure Time Segment: (08.00.09.00) Showing Analysis Set. "A1: Junction F." Demand Set. "D7: 2022 Elusting Flow AM.

The junction diagram reflects the last run of ARCADY.

# Junction F - 2022 Existing Flow, AM

#### **Data Errors and Warnings**

No errors or warnings

#### **Analysis Set Details**

٠ſ	Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
	Junction F	ARCADY			100.000	

#### **Demand Set Details**

TPL

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2022 Existing Flow, AM	2022 Existing Flow	AM		FLAT	08:00	09:00	60	60		

# **Junction Network**

### Junctions

Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Junction Delay (s)	Junction LOS
D	Fanling Highway / Fan Kam Road / Po Shek Wu Road	Roundabout	1,2,3,4			5.22	А

#### Junction Network Options

Driving Side Lighting Left Normal/unknown

Arms

#### Arms

Am	Arm	Name	Description
1	1	Fanling Highway	
2	2	Fan Kam Road	
3	3	Fanling Highway	
4	4	Po Shek Wu Road	

### **Capacity Options**

Am	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)
1	0.00	99999.00
2	0.00	99999.00
3	0.00	99999.00
4	0.00	99999.00

### **Roundabout Geometry**

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) Exit angle (deg) Only
1.	3.75	9.00	<sup>.</sup> 16.00	60.00	85.00	30.00
2	7.50	11.00	. 12.00	50.00	85.00	45.00
3	7.00	8.00	13.00	50.00	85.00	30.00
4	7.00	10.50	16.00	100.00	85.00	30.00



### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

Am	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
1		(calculated)	(calculated)	0.509	1974.564
2		(calculated)	(calculated)	0.610	2756.969
3		(calculated)	(calculated)	0.574	2433.512
4		(calculated)	(calculated)	0.637	2852.201

The slope and intercept shown above include any corrections and adjustments.

# **Traffic Flows**

#### **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU),	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		~	~	HV Percentages	2.00				~	4

## **Entry Flows**

#### **General Flows Data**

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
1	FLAT	<u>الا</u>	695.00	100.000
2	FLAT		989.00	100.000
3	FLAT	1	209.00	100.000
4	FLAT	1	1569.00	100.000

# **Direct/Resultant Flows**

#### **Direct Flows Data**

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
08:00-09:00	1	695.00	695.00	•	-
08:00-09:00	2	989.00	989.00		
08:00-09:00	3	209.00	209.00		
08:00-09:00	4	1569.00	1569.00		1

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# **Turning Proportions**

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Turning Counts / Proportions (PCU/hr) - Junction D (for whole period)

			То		
		1	2	3	4
2014) 19 48-01	1	0.000	0.000	160.000	535.000
From	2	516.000	0.000	55.000	418.000
	3	12.000	197.000	0.000	0.000
	4	0.000	757.000	812.000	0.000

Turning Proportions (PCU) - Junction D (for whole period)

			To			
		1	2	3	4	
	1	0.00	0.00	0.23	0.77	ļ
From	2	0.52	0.00	0.06	0.42	ł
	3	0.06	0.94	0.00	0.00	۱,
	4	0.00	0.48	0.52	0.00	

## **Vehicle Mix**

Average PCU Per Vehicle - Junction D (for whole period)

	То								
		1	2	3	4				
	1	1.000	1.000	1.000	1.000				
From	2	1.000	1.000	1.000	1.000				
	3	1.000	1.000	1.000	1.000				
	4	1.000	1.000	1.000	1.000				

Heavy Vehicle Percentages - Junction D (for whole period)

4.4.3		То							
	27	1	2	3	- 4				
	1	0.0	,0.0	0.0	0.0				
From	2	0.0	0.0	0.0	0.0				
- 35 - 7	3	0.0	0.0	0:0	0.0				
	4	0.0	0.0	0.0	0.0				

# Results

Results Summary for whole modelled period

Алт	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.65	9.35	1.81	A
2	0.54	4.22	1.16	A
3	0.13	2.60	0.15	A .
4	0.66	4.36	1.90	A



#### Main Results for each time segment

#### Main results: (08:00-09:00)

Aŗm	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
1	695.00	693.19	1763.96	0.00	1076.45	0.646	1.81	9.350	A
2	989.00	987.84	1504.21	0.00	1839.91	0.538	1.16	4.220	A
3	209.00	208.85	1466.51	0.00	1591.04	0.131	0.15	2.604	A
4	1569.00	1567.10	724.24	0.00	2390.97	0.656	1.90	4.360	A

# Junction F - 2022 Existing Flow, PM

#### **Data Errors and Warnings**

No errors or warnings

#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction F	ARCADY			100.000	

### **Demand Set Details**

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2022 Existing Flow, PM	2022 Existing Flow	FM	•	FLAT	17:30	18:30	60	60		

# **Junction Network**

#### Junctions

Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Junction Delay (s)	Junction LOS
D,	Fanling Highway / Fan Kam Road / Po Shek Wu Road	Roundabout	1,2,3,4			6.00	A

#### **Junction Network Options**

<b>Driving Side</b>	Lighting			
Left '	Normal/unknown			

## Arms

#### Arms

Arm	Am	Name	Description
1	1	Fanling Highway	
2	2	Fan Kam Road	
3	3	Fanling Highway	
4	4	Po Shek Wu Road	

#### Generated on 10/2/2022 9:26:26 using Junctions 8 (8.0.5.523)

### **Capacity Options**

EL

Am	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)
1	0.00	99999.00
2.	0.00	99999.00
3	0.00	99999.00
4	0.00	99999.00

### Roundabout Geometry

Arm	V - Approach road half- width (m)	E - Entry width (m)		R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) Exit angle (deg) Only
1	3.75	9.00	16.00	60.00	85.00	30.00
2	7.50	11.00	12.00	50.00	· 85.00	45.00
3	7.00	8.00	13.00	50.00	85.00	30.00
4	7.00	10.50	16.00	100.00	85.00	30.00

### Slope / Intercept / Capacity

### Roundabout Slope and Intercept used in model

Arm	Enter slope and intercept directly	Entered slope	Entered intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
1		(calculated)	(calculated)	0.509	1974.564
2	9	(calculated)	(calculated)	0.610	2756.969
3		(calculated)	(calculated)	0.574	2433.512
4		(calculated)	(calculated)	0.637	2852.201

The slope and intercept shown above include any corrections and adjustments.

# **Traffic Flows**

### Demand Set Data Options

Default Vehicle Mix		Vehicle Mix Varies Over Entry		PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	~	~	HV Percentages	2.00				~	1

## **Entry Flows**

#### General Flows Data

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
1	FLAT	1	800.00	100.000
2	FLAT	✓	1163.00	100.000
3	FLAT	1	227.00	100.000
4	FLAT	• 🗸	1450.00	100.000

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## **Direct/Resultant Flows**

#### **Direct Flows Data**

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
17:30-18:30		800.00	800.00		
17:30-18:30	2	1163.00	1163.00		
17:30-18:30	3	227.00	227.00		
17:30-18:30	4	1450.00	1450.00		

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction D (for whole period)

認識	26	ad se k	То	(kata	
		资料 <b>1</b> 条字	2	3	r <b>4</b>
	1	0.000	0.000	191.000	609.000
From	2	658.000	0.000	31.000	474.000
	3	18.000	209.000	0.000	0.000
	4	0.000	700.000	750.000	0.000

Turning Proportions (PCU) - Junction D (for whole period)

			То		
97 (P		1	2	3	4
	1	0.00	0.00	0.24	0.76
From	2	0.57	0.00	0.03	0.41
	3	0.08	0.92	0.00	0.00
	4	0.00	0.48	0.52	0.00

# **Vehicle Mix**

Average PCU Per Vehicle - Junction D (for whole period)

	1	(1997) 1997)	То		
		୍ଲ 1୍ବି	2	3	4
	1	1.000	1.000	1.000	1.000
From	2	1.000	1.000	1.000	1.000
	3	1.000	1.000	1.000	1.000
	4	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Junction D (for whole period)

	133	t k	То		
		-1	2	3	4
	1	0.0	0.0	0.0	0.0
From	2	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0

Generated on 10/2/2022 9:26:26 using Junctions 8 (8.0.5.523)

9

# Results

(131

## Results Summary for whole modelled period

Am	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.71	10.73	2.39	В
2	0.64	5.50	1.78	A
3	0.16	2.98	0.19	A
4	0.63	4.27	1.72	Α

### Main Results for each time segment

### Main results: (17:30-18:30)

Am	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
1	800.00	797.61	1657.11	0.00	1130.85	0.707	2.39	10.727	В
2	1163.00	1161.22	1546.72	0.00	1814.00	0.641	1.78	5.501	A
3	227.00	226.81	1737.45	0.00	1435.40	0.158	0.19	2.978	A
4	1450.00	1448.28	883.81	0.00	2289.36	0.633	1.72	4.271	A



	Junctions 8
•	ARCADY 8 - Roundabout Module
	Version; 8.0.5.523 [19102,19/06/2015] © Copyright TRL Limited, 2022
	For sales and distribution information, program advice and maintenance, contact.TRL: Tel: +44 (0)1344 770758 .cmail: software@trl.co.uk Web: http://www.trlsoftware.co.uk
	The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Jn F (Future).arc8

Path: \\PROJSR\/Project\CTA Consultants Limited\CTA - Project\22007HK - TCS for Rezoning of PNS Sheung Shui Fresh Food Distribution Centre\CAL\2022-02-07 Report generation date: 9/2/2022 14:53:08

» Junction F - 2030 Reference, AM

» Junction F - 2030 Reference, PM

» Junction F - 2030 Design, AM

» Junction F - 2030 Design, PM

Summary of junction performance

		AM			AM			PM		-
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS		
		Ju	nctio	n F	2030 Design					
Arm 1	0.73	3.42	0.42	А	0.86	3.52	0.46	А		
Arm 2	1.70	4.64	0.63	A	1,90	. 4.99	0.66	А		
Arm 3	0.19	3.14	0.16	Α	0.22	3.43	0.18	А		
Arm 4	1.07	3.31	0.52	Α	0.87	3.04	0.46	А		
		Jun	ction	F - 2(	030 Reference	•				
Arm 1	0.72	3.41	0.42	Α.	0.85	3.50	0.46	A		
Arm 2	1.69	4.62	0.63	A	1.90	4.97	0.66	A		
Arm 3	0.19	3.13	0.16	A	0.22	3.42	0.18	A		
Arm 4	1.07	3.31	0.52	A	0.87	3.04	0.46	А		

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

"D7 - 2030 Reference, AM " model duration: 8:00 - 9:00 "D8 - 2030 Reference, PM" model duration: 17:30 - 18:30 "D9 - 2030 Design, AM" model duration: 8:00 - 9:00 "D10 - 2030 Design, PM" model duration: 17:30 - 18:30

Run using Junctions 8.0.5.523 at 9/2/2022 14:53:06

## File summary

17L

Title	(untitled)
Location	
Site Number	
Date	16/10/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	Kathy Wan
Description	

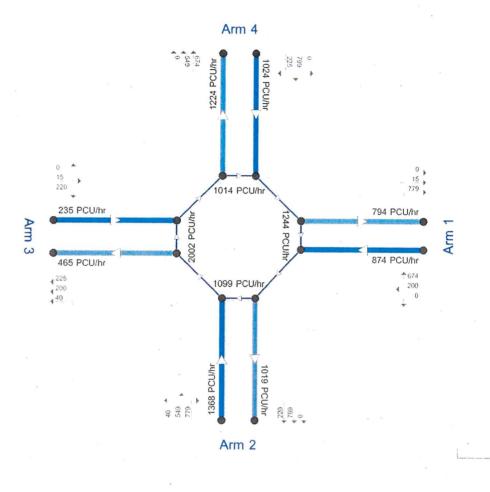
### Analysis Options

Vehicle Length	Do Queue	Calculate Residual	Residual Capacity Criteria	RFC	Average Delay Threshold	Queue Threshold
(m)	Variations	Capacity	Type	Threshold	(s)	(PCU)
5.75			N/A	0.85	36.00	20.00

#### Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	PCU	PCU	perHour	S	-Min	perMin





Time Segment (17 30-18 30) Showing Analysis Set: "A1 - Ju

ction F \* Demand Set 1D7 2030 Refe Nerice AM

The junction diagram reflects the last run of ARCADY.

# Junction F - 2030 Reference, AM

#### **Data Errors and Warnings**

No errors or warnings

#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	<b>Reason For Scaling Factors</b>
Junction F	ARCADY			100.000	

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20.00 m

4

### **Demand Set Details**

BL

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Reference, AM	2030 Reference	AM		FLAT	08:00	09:00	60	60		

# **Junction Network**

### Junctions

Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Junction Delay (s)	Junction LOS
D	Fanling Highway / Fan Kam Road / Po Shek Wu Road	Roundabout	1,2,3,4	8		3.82	A

#### **Junction Network Options**

 Driving Side
 Lighting

 Left
 Normal/unknown

## Arms

#### Arms

Am	Am	Name	Description
1	1	Fanling Highway	
2	2	Fan Kam Road	
3	3	. Fanling Highway	
4	4	Po Shek Wu Road	

### **Capacity Options**

Am	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)
1	0.00	99999.00
2	0.00	99999.00
3	0.00	99999.00
4	0.00	99999.00

### **Roundabout Geometry**

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
1	7.30	9.00	12.00	60.00	85.00	30.00	
2	7.50	11.00	12.00	50.00	85.00	45.00	
3	7.00	8.00	13.00	50.00	85.00	30.00	
4	7.00	10.50	16.00	100.00	85.00	30.00	

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#### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

Am	Enter slope and intercept directly	Entered slope	Entered Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
1		(calculated)	(calculated)	0.606	2649.989
2		(calculated)	(calculated)	0.610	2756.969
3		(calculated)	(calculated)	0.574	2433.512
4		(calculated)	(calculated)	0.637	2852.201

The slope and intercept shown above include any corrections and adjustments.

# **Traffic Flows**

#### **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn		Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		1	· 1	HV Percentages	2.00				~	. 🗸 🕐

# **Entry Flows**

#### **General Flows Data**

Am	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
1	FLAT	1	765.00	100.000
2	FLAT	1	1320.00	100.000
3	FLAT	<ul> <li>✓</li> </ul>	220.00	100.000
4	FLAT	1	1160.00	100.000

## **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction D (for whole period)

	313		То		
		<b>然1</b> 10分	2	3	<u>.</u> 4.
	1	0.000	0.000	165.000	600.000
From	2	735.000	0.000	65.000	520.000
	3	10.000	210.000	0.000	0.000
	4	0.000	840.000	320.000	0.000

#### Turning Proportions (PCU) - Junction D (for whole period)

			To		
		1	2	3	4
	1	0.00	0.00	0.22	0.78
From	1 2	0.56	0.00	0.05	0.39
	3	0.05	0.95	0.00	0.00
	4	0.00	0.72	0.28	0.00

## **Vehicle Mix**

TEL

#### Average PCU Per Vehicle - Junction D (for whole period)

			То		
		1	2	3	4
	1	1.000	1.000	1.000	1.000
rom	2	1.000	1.000	1.000	1.000
	3	1.000	1.000	1.000	1.000
	4	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Junction D (for whole period)

	的资		То	430	William (
	35	1	2	3	4
	1	0.0	0.0	0.0	0.0
om	2	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0

## Results

### Results Summary for whole modelled period

Am	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.42	3.41	0.72	A
2	0.63	4.62	1.69	A
3	-0.16	3.13	0.19	A
4	0.52	3.31	1.07	A

#### Main Results for each time segment

#### Main results: (08:00-09:00)

Am	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
1	765.00	764.28	1368.75	0.00	1820.07	0.420	0.72	3.408	A
2	1320.00	1318.31	1083.98	0.00	2096.11	0.630	1.69	4.618	A
3	220.00	219.81	1852.82	. 0.00	1369.12	0.161	0.19	3.132	A
4	1160.00	1158,93	953.86	0.00	2244.74	0.517	1.07	3.312	A



# Junction F - 2030 Reference, PN

#### **Data Errors and Warnings**

No errors or warnings

#### **Analysis Set Details**

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction F	ARCADY	•		100.000	*:

#### **Demand Set Details**

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Times Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Reference, FM	2030 Reference	FM	e R	FLAT	17:30	18:30	. 60	60	2	

# **Junction Network**

#### Junctions

Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Junction Delay (s)	Junction LOS
D	Fanling Highway / Fan Kam Road / Po Shek Wu Road	Roundabout	1,2,3,4			3.94	Α

#### **Junction Network Options**

Driving Side	Lighting
Left	Normal/unknown

## Arms

#### Arms

Amı	Arm	Name	Description	
1	1 Fanling Highway		ay .	
2	2 Fan Kam Road			
3	3	Fanling Highway		
4	4	Po Shek Wu Road		

#### **Capacity Options**

Am	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)
1	0.00	99999.00
2	0.00	99999.00
3	0.00	99999.00
4	0.00	99999.00



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#### Generated on 9/2/2022 14:53:11 using Junctions 8 (8.0.5.523)

#### **Roundabout Geometry**

Arm	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m),	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
1	7.30	9.00	12.00	60.00	85.00	30.00	
2	7.50	11.00	12.00	50.00	85.00	45.00	
3	7.00	8.00	13.00	50.00	85.00	30.00	
4	7.00	10.50	16.00	100.00	85.00	30.00	

#### Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Am	Enter slope and Intercept directly	Entered slope	Entered Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
1	-	(calculated)	(calculated)	0.606	2649.989
2		(calculated)	(calculated)	0.610	2756.969
3		(calculated)	(calculated)	0.574	2433.512
4		(calculated)	(calculated)	0.637	2852.201

The slope and intercept shown above include any corrections and adjustments.

# **Traffic Flows**

#### **Demand Set Data Options**

Default Vehicie Mix	Vehicle Mix Varies Over Time		Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		~	~	HV Percentages	2.00		9		1	1

# **Entry Flows**

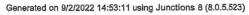
### **General Flows Data**

Am	Profile Type	<b>Use Turning Counts</b>	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
1	FLAT	1	870.00	100.000
2	FLAT	1	1370.00	100.000
3	FLAT	√	235.00	100.000
4	FLAT	1	1025.00	100.000

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction D (for whole period)

	1	То									
		<b>1</b> 20	2	3	4						
	1	0.000	0.000	200.000	670.000						
From	2	780.000	0.000	40.000	550.000						
	3	15.000	220.000	0.000	0.000						
	4	0.000	800.000	225.000	0.000						





Turning Proportions (PCU) - Junction D (for whole period)

		То								
	12.2	31	2	3	4					
	1	0.00	0.00	0.23	0.77					
From	1 2	0.57	0.00	0.03	0.40					
	3	0.06	0.94	0.00	0.00					
	4	0.00	0.78	0.22	0.00					

# Vehicle Mix

Average PCU Per Vehicle - Junction D (for whole period)

	SA		То	影響	
<u>9</u> 93-		1	2	3	4
	1	1.000	1.000	1.000	1.000
From	2	1.000	1.000	1.000	1.000
	3	1.000	1.000	1.000	1.000
	4	1.000	1.000	1.000	1.000

Heavy Vehicle Percentages - Junction D (for whole period)

	14. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19		То	36	
	10 - 14 - 14 - 14 - 14	_1	. 2	3	4
	1	0.0	0.0	0.0	0.0
From	2	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0

## Results

### Results Summary for whole modelled period

Am	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	
1	0.46	3.50	0.85	A	
2	0.66	4.97	1.90	A	
3	0.18	3.42	0.22	A	
4	0.46	3.04	0.87	A	

#### Main Results for each time segment

Main results: (17:30-18:30)

Am	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
1	870.00	869.15	1243.92	0.00	1895.76	0.459	0.85	3.503	A
2	1370.00	1368.10	1093.96	0.00	2090.02	0.656	1.90	4.973	A
3	235.00	234.78	1997.51	0.00	1286.00	0.183	0.22	3.424	A
4	1025.00	1024.13	1013.70	0.00	2206.64	0.465	0.87	3.043	A

# Junction F - 2030 Design, AM

#### **Data Errors and Warnings**

No errors or warnings

BL

### Analysis Set Details

Name	Roundabout Capacity Model	Description	Locked	Network Flow Scaling Factor (%)	<b>Reason For Scaling Factors</b>
Junction F	ARCADY			100.000	

#### **Demand Set Details**

Name	Scenario Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min)	Single Time Segment Only	Locked
2030 Design, AM	2030 Design	AM		FLAT	08:00	09:00	60	60		

## **Junction Network**

#### Junctions

Junction	Name	Junction Type	Arm Order	Grade Large Separated Roundabout	Junction Delay (s)	Junction LOS
D	Fanling Highway / Fan Kam Road / Po Shek Wu Road	Roundabout	1,2,3,4		3.83	A

#### **Junction Network Options**

Driving Side	Lighting
Left	Normal/unknown

## Arms

#### Arms

Arm	Am	Name	Description
1	1	Fanling Highway	
2	2	Fan Kam Road	
3	3	Fanling Highway	
4	4	Po Shek Wu Road	

#### **Capacity Options**

Am	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)
1	0.00	99999.00
2	0.00	99999.00
3	0.00	99999.00
4	0.00	99999.00



#### **Roundabout Geometry**

Алт	V - Approach road half- width (m)		l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
1	7.30	9.00	12.00	60.00	85.00	30.00	
2	7.50	11.00	12.00	50.00	85.00	45.00	·
3	7.00	8.00	13.00	50.00	85.00	30.00	
4	7.00	10.50	16.00	100.00	85.00	30.00	

#### Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Enter slope and Intercept directly	Entered slope	Entered Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
1		(calculated)	(calculated)	0.606	2649.989
2		(calculated)	(calculated)	0.610	2756.969
3		(calculated)	(calculated)	0.574	2433.512
4		(calculated)	(calculated)	0.637	2852.201

The slope and intercept shown above include any corrections and adjustments.

# **Traffic Flows**

#### **Demand Set Data Options**

Default Vehicle Mix	1	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
	~	~	HV Percentages	2.00				1	1

## **Entry Flows**

#### **General Flows Data**

Am	Profile Type	<b>Use Turning Counts</b>	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
1	FLAT	1	770.00	100.000
2	FLAT	✓ 3	1320.00	100.000
3	FLAT	1	220.00	100.000
4	FLAT	1	1160.00	100.000

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction D (for whole period)

	100		То		
		20 <b>1</b> 2	2	3	4
	1	0.000	0.000	165.000	605.000
From	2	735.000	0.000	65.000	520.000
	3	10.000	210.000	0.000	0.000
	4	0.000	840.000	320.000	0.000

Turning Proportions (PCU) - Junction D (for whole period)

刻於	調査	То							
		1	2	3	4	5			
	1	0.00	.0.00	0.21	0.79				
From	2	0.56	0.00	0.05	0.39				
	3	0.05	0.95	0.00	0.00				
	4	0.00	0.72	0.28	0.00				

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## **Vehicle Mix**

Average PCU Per Vehicle - Junction D (for whole period)

	133	То							
		1.	2	3	4				
	1	1.000	1.000	1.000	1.000				
From	2	1.000	1.000	1.000	1.000				
	3	1.000	1.000	1.000	1.000				
	4	1.000	1.000	1.000	1.000				

Heavy Vehicle Percentages - Junction D (for whole period)

		То						
		1	2	3	4			
	1	0.0	0.0	0.0	0.0			
From	2	0.0	0.0	0.0	0.0			
	3	0.0	0.0	0.0	0.0			
	4	0.0	0.0	0.0	0.0			

# Results

#### Results Summary for whole modelled period

Am	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS A	
1	0.42	3.42	0.73		
2	0.63	4.64	1.70	A	
3	0.16	3.14	0.19	A	
4	0.52	3.31	1.07	A	

#### Main Results for each time segment

Main results: (08:00-09:00)

Arm	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
1	770.00	769.27	1368.75	0.00	1820.07	0.423	0.73	3.424	A
2	1320.00	1318.30	1088.97	0.00	2093.07	0.631	1.70	4.636	A
3	220.00	219.81	1857.81	0.00	1366.26	0.161	0.19	3.139	A
4	1160.00	1158.93	953.86	0.00	2244.74	0.517	1.07	3.312	A



# Junction F - 2030 Design, PM

#### **Data Errors and Warnings**

No errors or warnings

#### Analysis Set Details

Name	<b>Roundabout Capacity Model</b>	Description	Locked	Network Flow Scaling Factor (%)	Reason For Scaling Factors
Junction F	ARCADY			100.000	

#### **Demand Set Details**

Name	Scenarlo Name	Time Period Name	Description	Traffic Profile Type	Model Start Time (HH:mm)	Model Finish Time (HH:mm)	Model Time Period Length (min)	Time Segment Length (min).	Single Time Segment Only	Locked
2030 Design, FM	2030 Design	FM		FLAT	17:30	18:30	. 60	60		

# **Junction Network**

#### Junctions

Junction	Name	Junction Type	Arm Order	Grade Separated	Large Roundabout	Junction Delay (s)	Junction LOS
D	Fanling Highway / Fan Kam Road / Po Shek Wu Road	Roundabout	1,2,3,4			3.95	Α

#### **Junction Network Options**

Driving Side	Lighting
Left	Normal/unknown

## Arms

#### Arms

Arm	Am	Name 🔍 👘	Description
1	1	Fanling Highway	
2	2	Fan Kam Road	
3	3	Fanling Highway	8. 
4	4	Po Shek Wu Road	

#### **Capacity Options**

Am	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)
1	0.00	99999.00
2	0.00	99999.00
3	. 0.00	99999.00
4	0.00	99999.00

### Roundabout Geometry

USL.

Am	V - Approach road half- width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
1	7.30	9.00	12.00	60.00	85.00	30.00	
2	7.50	11.00	12.00	50.00	85.00	45.00	
3	7.00	8.00	13.00	50.00	85.00	30.00	
4	7.00	10.50	16.00	100.00	85.00	30.00	

#### Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Am	Enter slope and intercept directly	Entered slope	Entered Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
1		(calculated)	(calculated)	0.606	2649.989
2		(calculated)	(calculated)	0.610	2756.969
3		(calculated)	(calculated)	0.574	2433.512
4		(calculated)	(calculated)	0.637	2852.201

The slope and intercept shown above include any corrections and adjustments.

## **Traffic Flows**

### **Demand Set Data Options**

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	and the second second	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		~	1	HV Percentages	2.00		• .		1	ý -

# **Entry Flows**

### **General Flows Data**

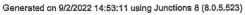
Arm	Profile Type	<b>Use Turning Counts</b>	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)
1	FLAT	<ul> <li>✓</li> </ul>	875.00	100.000
2	FLAT	1	1370.00	100.000
3	FLAT	~	235.00	100.000
4	FLAT	¥.	1025.00	100.000

# **Turning Proportions**

Turning Counts / Proportions (PCU/hr) - Junction D (for whole period)

1	То					
d Lines e Nga Jaw		3.102	2	3	4	
	1	0.000	0.000	200.000	675.000	
From	2	780.000	0.000	40.000	550.000	
	3	15.000	220.000	0.000	0.000	
	4	0.000	800.000	225.000	0.000	

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Turning Proportions (PCU) - Junction D (for whole period)

	То				
		<b>劉信</b>	2	3	4
	1	0.00	0.00	0.23	0.77
From	2	0.57	0.00	0.03	0.40
	3	0.06	0.94	0.00	0.00
	4	0.00	0.78	0.22	0.00

## **Vehicle Mix**

Average PCU Per Vehicle - Junction D (for whole period)

	То					
		1	. 2	3	4	
	1	1.000	1.000	1.000	1.000	
From	2	1.000	1.000	1.000	1.000	
	3	1.000	1.000	1.000	1.000	
	4	1.000	1.000	1.000	1.000	

Heavy Vehicle Percentages - Junction D (for whole period)

	То				
		1	2	3	4
	1	0.0	0.0	0.0	0.0
From	2	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0

## Results

#### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1	0.46	3.52	0.86	A
2	0.66	4.99	1.90	A
3	0.18	3.43	0.22	A
4	0.46	3.04	0.87	A

#### Main Results for each time segment

#### Main results: (17:30-18:30)

Arm	Total Demand (PCU/hr)	Entry Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	RFC	End Queue (PCU)	Delay (s)	LOS
1	875.00	874.14	1243.92	0.00	1895.76	0.462	0.86	3.520	A
2	1370.00	1368.10	1098.95	0.00	2086.98	0.656	1.90	4.995	A
3	235.00	234.78	2002.49	0.00	1283.14	0.183	0.22	3.433	A
4	1025.00	1024.13	1013.69	0.00	2206.64	0.465	0.87	3.043	A

16

Written Representation in relation to Amendment Item D4 of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 on Rezoning of Park'N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui

# **Appendix 5**

## Sewerage Impact Assessment

Written Representation in relation to Amendment Item D4 of Draft Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/25 on Rezoning of Park'N Shop Sheung Shui Fresh Food Distribution Centre from "Industrial" to "Other Specified Uses" annotated Business Zone at 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui

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# Subject: Sewerage Impact Assessment (SIA) Report Date: 18 January 2022

Draft

WSD

# Quality Management

Date	Revision	Prepared by	Checked by	Authorised by		
Jan 2022	Rev 0	Lily Chow	C. K. Chan	Paul Kau		
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2	OUTLINE OF EXISTING SITE CONDITIONS AND SEWERAGE CHARACTERISTICS	2
3	STANDARDS AND REGULATIONS ON WATER QUALITY ,	3
4	ASSESSMENT METHODOLOGY	4
5	SEWAGE IMPACT ASSESSMENT	6
6	CONCLUSION	7

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	10	,	~

### LIST OF APPENDICES

Appendix 4.1 Sewer Plan

Appendix 4.2 Detailed Calculation of Sewage Flow and Loading

Parknshops Sheung Shui Fresh Food Distribution Centre Proposed Residential at F.S.S.T.L. 97, Area 4B, Sheung Shui, N.T. Sewerage Impact Assessment (SIA) – Revision 0 Report No. 2535624A

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#### **1 INTRODUCTION**

- 1.1 WSP (Asia) Limited was commissioned by Kung Hei Investment Limited to conduct a Sewerage Impact Assessment (SIA) for the indicative composite residential development at FSSTL 97, 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui (Hereafter "Project Site") by ascertaining adequate capacity of the existing sewerage system to cope with the sewerage flow generated from the Indicative Development.
- 1.2 Under Amendment Item D4 of the Draft Fanling/Sheung Shui Outline Zoning Plan No. S/FSS/25, the Representation Site in Sheung Shui Area 4 is proposed to be rezoned from "Industrial" ("I") to "Other Specified Uses" annotated "Business" ("OU(B)") subject to maximum building height restriction of 75mPD and maximum plot ratio restriction of 5.
- 1.3 To enable a composite residential development at Representation Site, the Written Representation puts forward a proposed rezoning from "I" to "Residential (Group E)" ("R(E)") with a proposed domestic PR of 5 and a non-domestic PR of 0.5, subject to the same building height restrictions of 75mPD set out for the adjoining "OU(B)" zone.
- 1.4 The scope of the sewerage impact assessment includes catchment study of the proposed site, discussion on potential sewerage impact on the existing sewerage system from two development scenarios: 1) a business development with plot ratio 5 for office, retail and restaurant uses under the "OU(B)" zone and 2) the indicative composite residential development with plot ratio 5 and non-domestic plot ratio of 0.5 under the "R(E)" zone and any recommendation on feasible mitigation measures, if applicable.

2 OUTLINE OF EXISTING SITE CONDITIONS AND SEWERAGE CHARACTERISTICS

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- 2.1 The Project Site is located at F.S.S.T.L. 97, 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui The area of the Project Site is approximately 3041m<sup>2</sup>.
- 2.2 Under Amendment Item D4 of the Draft Fanling/Sheung Shui Outline Zoning Plan No. S/FSS/25, the Representation Site in Sheung Shui Area 4 is proposed to be rezoned from "Industrial" ("I") to "Other Specified Uses" annotated "Business" ("OU(B)") subject to maximum building height restriction of 75mPD and maximum plot ratio restriction of 5.
- 2.3 To enable a composite residential development at Representation Site, the Written Representation puts forward a proposed rezoning from "I" to "Residential (Group E)" ("R(E)") with a proposed domestic PR of 5 and a non-domestic PR of 0.5, subject to the same building height restrictions of 75mPD set out for the adjoining "OU(B)" zone. The sewage generated from the Proposed Development will be connected to Manhole 1 (FMH1004018) of the existing public sewerage network at Ka Fu Close.
- 2.4 The main sewerage flow runs along a series of foul sewer with size of 225mm in diameters along Ka Fu Close.

#### 3 STANDARDS AND REGULATIONS ON WATER QUALITY

- 3.1 Water quality in Hong Kong is subject to the provisions of the Water Pollution Control Ordinance (Cap 358), 1980 (WPCO). Territoral Water has been subdivided into ten Water Control Zones (WCZ) and four supplementary water control zones. The Project Site is located in the Deep Bay Control Zone. A Technical Memorandum on Standards for Effluents discharged into Drainage and Sewerage Systems, Inland and Coastal Water (TMES) has been issued, which requires licensing of all discharges into all public sewers and drains. The water quality standards will have to be complied during the operation stages.
- 3.2 Discharge of sewage from the Project Site shall also be referenced to Building (Standards of Sanitary Fitments, Plumbing, Drainage Works and Latrines) Regulations 40(1), 40(2), 41(1), 90 and recap in ProPECC PN 5/93.

#### 4 ASSESSMENT METHODOLOGY

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- 4.1 The assessment has been carried out in accordance with the guidelines set out in EPD Report No. EPD/TP 1/05 Guidelines for Estimating Sewage Flows (GESF) for Sewerage Infrastructure Planning Version 1.0 ("GESF").
- 4.2 The existing demand for the sewerage system was identified to estimate the potential sewerage impact on the existing sewerage system associated with the Proposed Development.
- 4.3 With respect to the drainage record plans obtained from Drainage Services Department (DSD), the nearest existing manhole would be Manhole 1 (FMH1004018). It is proposed that the sewage generated from the Proposed Development will be directed to Manhole 1 (FMH1004018) at Ka Fu Close in the existing sewerage system. The proposed discharge manhole of sewage generated from the proposed development remains the same as the previous application (commercial development with PR 5.0).
- 4.4 The main sewerage flow runs along a series of sewer with size of 225mm in diameters along Ka Fu Close.
- 4.5 Locations of the manholes are shown in the drainage plan demonstrated in Appendix 4.1.
- 4.6 Based on the information of the existing foul sewers from DSD, the allowable flow rate of the existing sewers was calculated by using the Colebrook-White Equation. With reference to Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning (GESF), the Global Unit Flow Factors indicated in Table 4.1 and the Global Peaking factors shown in Table 4.2 are adopted for calculation.

Table 4.1 Global Unit Flow Factor (UFF)

Туре	Units Flow Factors (m <sup>3</sup> /person/day)
Residents (R2)	0.27
Office Staff	0.28
Retail Staff	0.28
F&B Staff	1.58

Table 4.2 Global Peaking Factor

Population	Peaking Factor
More than 50000	$Max(\frac{6}{N^{0.175}}, 1.6)$
10,000 - 50,000	3
5,000 10,000	· · 4
1,000 – 5,000	5
Less than 1,000	6

#### 5 SEWAGE IMPACT ASSESSMENT

#### Population

- 5.1 The existing demand for the sewerage system was calculated to estimate the sewerage impact on the Project Site, which is indicated in **Appendix 4.1**.
- 5.2 Population of the Indicative Development is estimated with the GFA and planned usage type according to the Commercial and Industrial Floor Space Utilization Survey (CIFSUS) published by Planning Department in 2005. The estimated worker density (employee/100m<sup>2</sup>) is 3.5 for Retail staff.
- 5.3 For other commercial activities in the typical business development with PR 5 for office, retail and restaurant use, the estimated worker density (employee/100m<sup>2</sup>) is 3.4 for Office staff, 5.1 for F&B staff and 3.5 for Retail staff as referenced from "Table 8 Worker Density by Economic Activity and Planned Usage Type" in the CIFSUS.

#### **Description of Zones**

#### **Project Site**

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5.4 The assumption of sewerage discharged from the Indicative Development is based on the location of existing manholes. It is assumed that sewage generated from the Project Site would be diverted to Manhole 1 (FMH1004018) since it is the nearest existing Manhole from proposed site area.

#### Sewage from Project Site

- 5.5 General activities such as toilet flushing, washing and cleaning are considered as the major sources of sewage discharge from the Project Site. All sewage will be collected and sewers will be connected to the existing sewerage systems and directed to the government drainage network. The peak flow of the Project Site is calculated in accordance with the DSD Sewerage Manual Part and the GESF. Detailed calculation of sewerage flow and loading is given in Appendix 4.2.
- 5.6 The estimated average sewerage flow from the Indicative Development is 252.9m<sup>3</sup>/day, which is smaller than the average sewerage flow of a typical business development with PR 5 for office, retail and restaurant use, 362.1m<sup>3</sup>/day.
- 5.7 As such, the Indicative Development is not expected to result in adverse impact on the existing sewerage system.

#### 6 CONCLUSION

6.1 A sewerage impact assessment has been carried out for Indicative composite residential development at F.S.S.T.L. 97, 6 Ka Fu Close, Sheung Shui Area 4, Sheung Shui, N.T. It is expected that the total peak sewerage flow of 0.0176m<sup>3</sup>/s will be generated from the full operation of the Proposed Development. Sewage from the Indicative Development would be diverted to public sewerage system on Ka Fu Close. As the expected peak flow from the Indicative Development is smaller than that of a typical development with PR 5 for business use (i.e. Office, Retail, Restaurants). (0.0210m<sup>3</sup>/s), the Indicative Development is not expected to result in adverse impact on the existing sewerage system.

# Appendices

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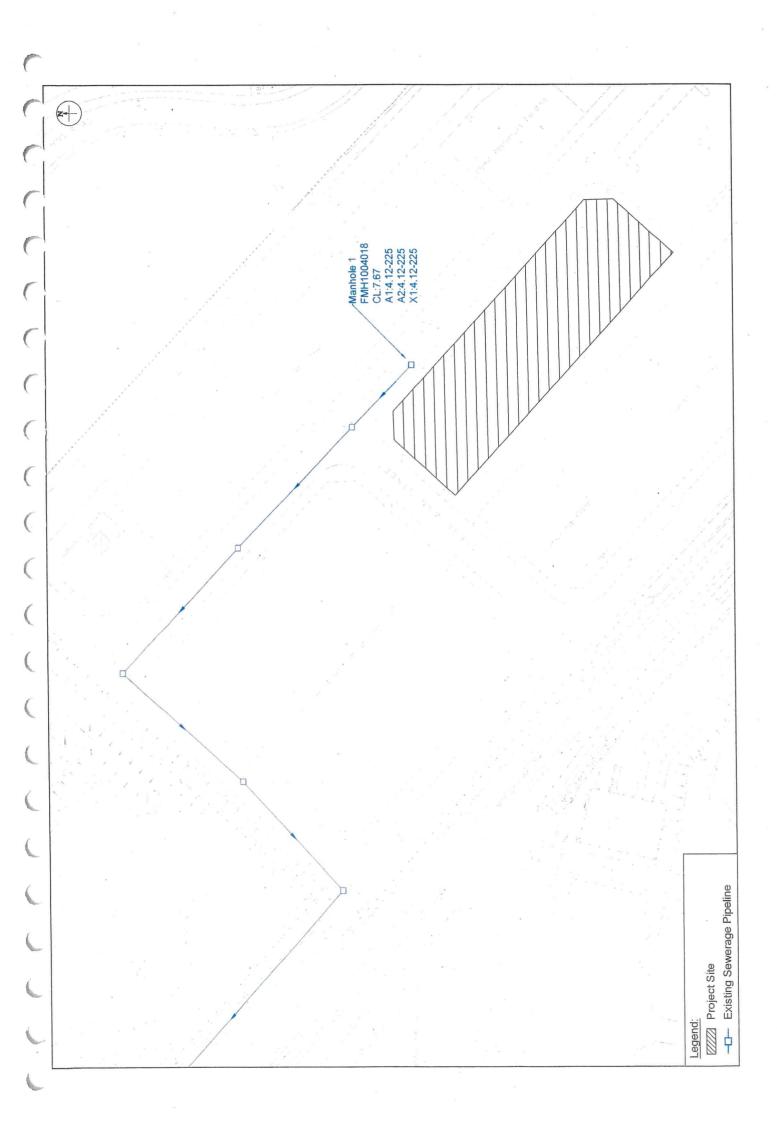
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# Appendix 4.1 Sewer Plan

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# Appendix 4.2

# **Detailed Calculation of Sewage Flow and Loading**

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dsw	APPENDIX 4.2								×		
	AF			Remarks					Remarks		
an in				Peaking Factor Total Peak Flow (m <sup>3</sup> /s)		0.0210			Peaking Factor Total Peak Flow (m <sup>3</sup> /s)	20470	9/10:0
				Peaking Factor		5			Peaking Factor		9
· · · ·				Population		1341			Contribution Population	200	122
¢.				Estimated Total Discharge Catchment Inflow Sewage (m <sup>3</sup> td) at Manhole (m <sup>3</sup> td) Factor (PCIF)		1.0			Estimated Total Discharge Catchment Inflow Severage Discharge (m <sup>3</sup> /ot) at Manhole (m <sup>3</sup> /ot) Factor (PCIF)		1.0
, ·				Total Discharge at Manhole (m <sup>3</sup> /d)		362.1			Total Discharge at Manhole (m <sup>3</sup> /d)	0600	R707
				Estimated Sewage Discharge (m <sup>3</sup> /d)	72.4	44.7	245.0		Estimated Sewage Discharge (m <sup>3</sup> /d)	238.0	011
				Global Unit Factor	0.28	0.28	1.58		Global Unit Factor	0.27	97.0
÷	G SHUI, N.T.		the second se	Population	258	160	155		Population	882	ε
×	AREA 4B, SHEUN			GFA	1603	4562	3041		GFA	NIA	TLUT
	AT F.S.S.T.L. 97,			No.of Units	NIA	NIA	NIA		No.of Units	304	
	SED RESIDENTIAL			Uses	Office	Retail	F&B		Uses	Residential	
e	PROJECT : PARKINSHOPS SHEUNG SHUI FRESH FOOD DISTRIBUTION CENTRE PROPOSED RESIDENTIAL AT F.S.S.T.L. 97, AREA 4B, SHEUNG SHUI, N.T.		Detailed Calcutation of Sewage Flow and Loading of Scheme from Previous Application	Buildings in Zone		Proposed Building		Detailed Catculation of Sewage Flow and Loading of Proposed Scheme	Buldings in Zone		Proposed Building
	PS SHEUNG SHUI FRE	ISESSMENT	<b>Tewage Flow and Loadi</b>	Discharge Manhole No.		FMH1004018		ewage Flow and Load	Discharge Manhole No.		FMH1004018
ж. В	PROJECT : PARKNSHO	SEWERAGE IMPACT ASSESSMENT	Detailed Calculation of 5	Area		Commercial PR 5.0		Detailed Calculation of S	Area	Domaetic DD 5.0	DOILCORD LIV 0'0'

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#### 就草圖作出申述 **Representation Relating to Draft Plan**

#### 參考編號 **Reference Number:**

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#### 220217-114811-44620

提交限期 Deadline for submission:

17/02/2022

提交日期及時間 Date and time of submission:

17/02/2022 11:48:11

「申述人」全名 Full Name of "Representer": 先生 Mr. Edmond Fong for The Hong Kong and China G as Company Limited

TPB/R/S/FSS/25 2

「獲授權代理人」全名 Full Name of "Authorized Agent" :

與申述相關的草圖 Draft plan to which the representation relates: S/FSS/25

申述的性質及理由

Nature of and reasons for the representation:

on stage, and provide protective measure s. Application number: Y/NE-KTS/12 Link: https://www.info.gov.hk/tpb/tc/plan\_appl ication/Attachment/20190222/s12afi\_Y NE-KTS\_12\_4\_gist.pdf Application number: Y/NE-KTS/14 Link: https://www.info.gov.hk/tpb/tc/plan appl ication/Attachment/20200619/s12afi Y NE-KTS\_14\_5\_gist.pdf Application number: A/NE-KTS/484 Link: https://www.info.gov.hk/tpb/tc/plan appl ication/Attachment/20191126/s16fi A

NE-KTS\_484\_12\_gist.pdf

對草圖的建議修訂(如有的話) Proposed Amendments to Draft Plan(if any):

0

TPB/R/S/FSS/25 3

#### 就草圖作出申述 Representation Relating to Draft Plan

參考編號 Reference Number:

220217-204204-67064

提交限期 Deadline for submission:

17/02/2022

提交日期及時間 Date and time of submission:

17/02/2022 20:42:04

「申述人」全名 Full Name of "Representer":

先生 Mr. John Douglas Moore

「獲授權代理人」全名 Full Name of "Authorized Agent":

與申述相關的草圖 Draft plan to which the representation relates: S/FSS/25

申述的性質及理由

Nature of and reasons for the representation:

有關事項	性質	理由		
Subject Matters	Nature	Reason		
All Items		I object to all of the various rezoning pro posals from G/IC to residential, whether the proposed rezoning be for public or pr ivate housing developments. Hong Kong faces a diminishing population for variou s reasons, with an increasingly elderly po pulation requiring community services in light of the distinct possibility that they will not have adequately equipped family members (or domestic helpers) in Hong Kong who can care for them privately.		
		With respect to the "B" sites, these shoul d be retained as G/IC for stand-alone co mmunity services and to lessen the ventil ation, visual and "wall effects" of existin g, nearby developments. Any constructio n on these sites will create a wall effect b ordering a green hillside and is not comp atible with the surroundings.		
		I note that thousands of trees in aggregat e have been surveyed with respect to the various application sites, and I object to t he extensive destruction of the natural ec osystem and felling of such an extensive number of trees. The application contains no background on the environmental imp acts of such widespread destruction of th e natural environment. Extensive residen		

tial construction will be done with extens ive podiums which cannot accommodate at ground planting. Trees on podiums is not comparable to at ground planting and will not provide space for planting trees with appropriately-sized canopies to shad e frequently access outdoor spaces. In ad dition, compensatory planting at "off-site " locations is unacceptable as it does not replace the loss of vegetation at the appli cation sites. Vague statements regarding plans to plan trees on podium estates in n othing more than fraudulent greenwash.

Small piecemeal developments lack tradi tional support systems necessary for public housing development and should be av oided.

There is no discussion of this "off-site" l ocation at Tong Hang. How large is this site? What is its current use? How can al most 1,000 trees be planted at this locatio n, and if it is so conducive to tree plantin g, why has it not already been planted? It is amazing how compensatory sites just c onveniently and magically appear.

The images provided are inadequate and make it impossible to truly understand th e construction impact of the proposal. Th is application should be rejected.

對草圖的建議修訂(如有的話) Proposed Amendments to Draft Plan(if any):

#### 就草圖作出申述 Representation Relating to Draft Plan

參考編號 Reference Number:

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220217-204414-95628

TPB/R/S/FSS/25

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提交限期 Deadline for submission:

17/02/2022

提交日期及時間 Date and time of submission:

17/02/2022 20:44:14

「申述人」全名 Full Name of "Representer":

女士 Ms. Melanie Ann Moore

「獲授權代理人」全名 Full Name of "Authorized Agent":

與申述相關的草圖 Draft plan to which the representation relates: S/FSS/25

申述的性質及理由

Nature of and reasons for the representation:

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Subject Matters	Nature	Reason		
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對草圖的建議修訂(如有的話) Proposed Amendments to Draft Plan(if any):

#### 就草圖作出申述 Representation Relating to Draft Plan

參考編號 Reference Number:

220217-204534-55328

提交限期 Deadline for submission:

17/02/2022

提交日期及時間 Date and time of submission:

17/02/2022 20:45:34

「申述人」全名 Full Name of "Representer":

女士 Ms. Wilhelmina Evelyn Moore

TPB/R/S/FSS/25 5

「獲授權代理人」全名 Full Name of "Authorized Agent":

與申述相關的草圖 Draft plan to which the representation relates: S/FSS/25

申述的性質及理由

Nature of and reasons for the representation:

有關事項	性質	理由
Subject Matters	Nature	Reason
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對草圖的建議修訂(如有的話) Proposed Amendments to Draft Plan(if any):

#### 就草圖作出申述 Representation Relating to Draft Plan

參考編號 Reference Number:

220217-204657-42775

提交限期 Deadline for submission:

17/02/2022

提交日期及時間 Date and time of submission:

17/02/2022 20:46:57

「申述人」全名 Full Name of "Representer":

女士 Ms. Genevieve James Moore

TPB/R/S/FSS/25

「獲授權代理人」全名 Full Name of "Authorized Agent":

與申述相關的草圖 Draft plan to which the representation relates: S/FSS/25

申述的性質及理由

Nature of and reasons for the representation:

有關事項	性質	理由
Subject Matters	Nature	Reason
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對草圖的建議修訂(如有的話) Proposed Amendments to Draft Plan(if any):

#### 就草圖作出中述 Representation Relating to Draft Plan

#### 參考編號 Reference Number:

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220217-235407-77812

TPB/R/S/FSS/25 **7** 

提交限期 Deadline for submission:

17/02/2022

提交日期及時間 Date and time of submission:

17/02/2022 23:54:07

「申述人」全名 Full Name of "Representer":

先生 Mr. Piter Lu

「獲授權代理人」全名 Full Name of "Authorized Agent":

與申述相關的草圖 Draft plan to which the representation relates: S/FSS/25

申述的性質及理由

Nature of and reasons for the representation:

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有關事		
項	性質	理由
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Matters		
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Proposed Amendments to Draft Plan(if any):

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Urgent Return Receipt Requested

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AMENDMENTS TO FANLING/SHEUNG SHUI OZP NO. S/FSS/24 17/02/2022 19:54

From: To: File Ref:

tpbpd <tpbpd@pland.gov.hk>

#### AMENDMENTS TO FANLING/SHEUNG SHUI OZP NO. S/FSS/24

Dear TPB Members,

Yet another substantial grab of sites that were attended to provide community services and recreational facilities to be rezoned to feed the housing monster. This despite the reality that we face a diminishing population because of demographic, political and now economic issues. Once interest rates start to rise there will no longer be access to cheap capital and the acquisition of bricks and motor as investment vehicles will diminish. On the other hand the number of elderly requiring community services will steadily increase and it is evident that better child care facilities are necessary if working mothers are to be encouraged to have more children.

**Item A1** – (about 6.35 ha) Area 17 Rezone from "**G/IC**" and "R(C)1" to "R(A)7" with a maximum BH of 170mPD for the public housing development.

**Item A2** – (about 0.87ha) Rezone Area 17 Site B1 from **"G/IC**" and **"**R(C)1" to "R (A)8" with a maximum BH of 135mPD for the **private housing development**.

**Item A3** – (about 0.73 ha) Rezone Area 17 Site B2 from **"G/IC**" and **"**R(C)1" to "R (A)8" with a maximum BH of 145mPD for the **private housing development**.

Object to the rezoning of the two 'B' sites to private housing. One at least, preferably B2 close to the schools should be retained as GIC to provide stand-alone community services and to provide ventilation and visual relief from the wall effect of the existing towers and the proposed PH estate. B2 also has a number of trees. How many of the 14 are on this site?

4.12 A total of **1,035 trees** are surveyed.. There are **14 trees with DBH greater than 1m. 4.13 158 trees** are recommended to be retained, while the remaining **877 trees** are recommended to **be felled**, **including 8 trees with DBH greater than 1m**. About **350 new trees are proposed within the future public housing development** (Plan 8b). Since there is limited space within the sites for compensatory planting, an off-site location near **Tong Hang** (Plan 8a) has been identified for compensatory planting of about 505 trees.

No mention of the ecosystem and the impact on flora and fauna. There is absolutely no way 350 REAL trees could be provided at the PH as the majority of the site is to be developed on top of podiums and all that can grow at that level are decorative trees not the type of tree that would attract birds, butterflies or fauna.

planting trees **with appropriate sized canopies** in frequently accessed outdoor spaces

This is one of those fairytale statements that no one who has visited the new PH podium estates would take as anything more than GREENWASH. On the contrary it is clear that every effort is being made to ensure that those species of trees that could in due course require more space than their allocated box are no longer planted. Instead the trend is for trees that produce colourful flowers but are in reality nothing more than tall bushes.

**Item B** – (about 0.43 ha) Rezone Ching Hiu Road Site from **"G/IC" and "GB**" to "R (A)9" with a maximum BH of 140mPD for the public housing development.

Object to this stand-alone PH. In view of the small number of units and the private towers of Royal Green on one side and the Home for the Aged on the other, this site would be more suited to a medium rise private development or GIC use instead of a wall effect bordering the green hillside. It is clear from the visuals that the PH tower is not compatible with the surroundings. An extension of Royal Garden with the large clump of trees retained would be more appropriate.

HA officials themselves do not favour such small developments as they lack the traditional support systems of a PH development.

A total of **173 trees** are surveyed. There is one tree with DBH greater than 1m. **100 trees** are in direct conflict with or will be affected by the proposed development and are recommended to be felled due to poor condition and/or low suitability to be transplanted. The remaining 73 trees are recommended to be retained.

5.8 About **20 new trees** are proposed within the future public housing development (Plan 8c). Since there is limited space within the site for compensatory planting, about **80 trees** are proposed to be compensated at the off-site location near **Tong Hang** (Plan 8a).

**Item C1** – (about 3.05 ha) Rezone Tai Tau Leng Site from "**G/IC" and "GB**" to "R (A)10" with a maximum BH of 130mPD for the public housing development.

**Item C2** – (about 0.72ha) Rezone of a strip of land along Fanling Highway at Sheung Shui Area 35 **from "GB"** to area shown as 'Road'.

A total of **515 trees are surveyed (280 trees within the site)**. There are **10 trees with DBH greater than 1m. 371 trees, including seven with DBH greater than 1m. are in direct conflict** with or will be affected by the proposed development

and are recommended to be felled due to poor condition and/or low suitability to be transplanted. The remaining 144 trees are proposed to be retained.

6.8 About 130 new trees are proposed within the future public housing development (Plan 8d). Since there is limited space within the site for compensatory planting, about **230 trees are proposed to be compensated at the off-site location near Tong Hang** 

What can one say, its PH so it will go ahead regardless. Again no mention of the impact on for a and fauna and with much of the compensatory tree planting on podium level the compensatory planting can be taken as green wash.

**Item D1** – (about 1.96 ha) Rezone Choi Shun Street Site from "I" to "R(A)11" with a maximum BH of 160mPD for the public housing development..

**Item D2** – (about 3.64 ha) Rezone a proposed primary school site adjacent to Choi Shun Street, Sheung Shui Ambulance Depot, Sheung Shui Ventilation Building and a strip of land along Dongjiang watermains from "I" to "**G/IC**".

A total of **148 trees** are surveyed. A total of **123 trees will be affected** by the proposed development and proposed to be felled as the trees are not suitable for transplanting. The remaining 25 existing trees will be retained. About **90 new trees** will be provided within the public housing development (Plan 8e). **44 compensatory trees** are proposed outside the public housing site boundary (Plan 8e) Mostly along the highway

The rezoning of Industrial is of concern. Where are all these additional residents going to work?

Where are all those activities currently being carried out on brownfield sites that should be accommodated in custom built high rise industrial parks going to move to? The need to ensure employment opportunities within a reasonable distance of homes appears to have been forgotten in the drive to rezone every piece of land to tick the PH box.

**Item D3** - (about 3.11 ha) Rezone eastern portion of Area 30 from "I" to "C" with a maximum BH of 75mPD.

**Item D4** - (about 4.22 ha) Rezone Area 4 from "I" to "OU(B)" with a maximum BH of 75mPD.

While the above will be welcomed by developers and the commercial developments will provide employment, the issue of where will the brownfields and less desirable facilities go is not resolved. For example services like car repair are gradually being eliminated but these are essential to the smooth operation of the community and provide thousands of jobs for blue collar workers. The 'gentrification' of the 'l' zones with no alternative sites provided for workshops should be questioned by TPB members.

**Trees** -505 (A) +80 (B) +230 (C) =815 to be planted at Tong Hang. So how large is the site there? Other than one plan no details provided re how these trees will be accommodated and how they will integrate with the local environment and terrain.

Re the Visual Impact. It appears that the images were taken on a particularly bad pollution day to ensure visual impact would be obscured?

It is impossible to make an educated comment and better images should be provided so that this issue can be addressed during the Comments stage of consultation.

Mary Mulvihill

TPB/R/S/FSS/25

Form No. S6 表格第 S6 號

For Official Use Only 請勿填寫此欄	Reference No.	
	檔案編號	
	Date Received	
	收到日期	

The representation should be made to the Town Planning Board (the Board) before the expiry of the specified plan exhibition period. The completed form and supporting documents (if any) should be sent to the Secretary, Town Planning Board, 15/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong.

申述必須於指定的圖則展示期限屆滿前向城市規劃委員會(下稱「委員會」)提出,填妥的表格及支持有關申述的文件(倘有),必 須送交香港北角渣華道 333 號北角政府合署 15 樓城市規劃委員會秘書收。

2. Please read the "Town Planning Board Guidelines on Submission and Publication of Representations, Comments on Representations and Further Representations" before you fill in this form. The Guidelines can be obtained from the Secretariat of the Board (15/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong – Tel.: 2231 4810 or 2231 4835) and the Planning Enquiry Counters of the Planning Department (Hotline: 2231 5000) (17/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong and 14/F., Sha Tin Government Offices, 1 Sheung Wo Che Road, Sha Tin, New Territories), or downloaded from the Board's website at http://www.info.gov.hk/tpb/.

填寫此表格之前,請先細閱有關「根據城市規劃條例提交及公佈申述、對申述的意見及進一步申述」的城市規劃委員會規劃指引。 這份指引可向委員會秘書處(香港北角渣華道 333 號北角政府合署 15 樓 - 電話: 2231 4810 或 2231 4835 及規劃署的規劃資料查詢處(熱 線: 2231 5000)(香港北角渣華道 333 號北角政府合署 17 樓及新界沙田上禾輩路 1 號沙田政府合署 14 樓) 索取,亦可從委員會的網 頁下載 (網址: <u>http://www.info.gov.hk/tpb/</u>)。

3. This form can be downloaded from the Board's website, and obtained from the Secretariat of the Board and the Planning Enquiry Counters of the Planning Department. The form should be typed or completed in block letters, preferably in both English and Chinese. The representation may be treated as not having been made if the required information is not provided. 此表格可從委員會的網頁下載,亦可向委員會秘書處及規劃署的規劃資料查詢處索取。提出申述的人士須以打印方式或以正楷填寫

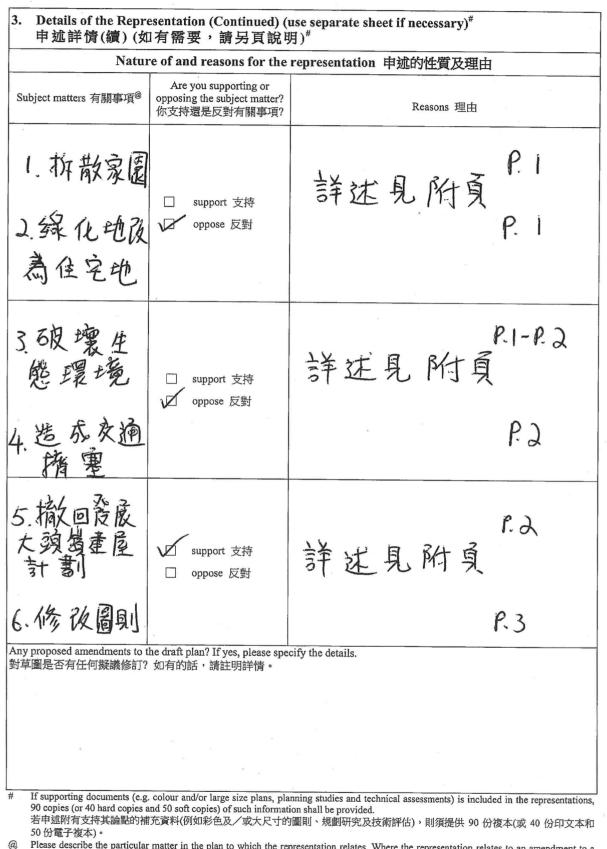
表格,填寫的資料宜中英文兼備。倘若未能提供所需資料,則委員會可把有關申述視為不曾提出論。

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\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「不適用」

Form No. S6 表格第 S6 號



Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目編號。

Please fill "NA" for not applicable item 請在不適用的項目填寫「不適用」

☑ at the appropriate box 請在適當的方格內加上 ☑ 號

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TPB/R/S/FSS/25 10 Form No. S6 表格第 S6 號

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Full Name 姓名 / 名稱 (Mr./ Ms./Company/Organisation\* 先生/女士/公司/機構\*)

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### 3. Details of the Representation 申述詳情

Draft plan to which the representation relates (please specify the name and number of the draft plan) 與申述相關的草圖 (請註明草圖名稱及編號)

S/FSS/24 Cl - R(A)10

\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「 不適用 」

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90 copies (or 40 hard copies	g. colour and/or large size plans, p and 50 soft copies) of such inform 甫充資料(例如彩色及/或大尺寸	ation shall be provided.		-

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附件

## 有關事項:粉嶺/上水分區計劃大綱核准圖編號

## S/FSS/24 - C1 - R(A)10

本人為政府計劃收回松柏塱帶狀地段(粉嶺/上水分區計劃大綱核准圖編號 S/FSS/24)的 居民,對於政府突然通知要收回土地及房屋感到十分驚訝、愕然,擔心得不能入眠,心 緒不寧。本人不能接受收回土地及房屋。本人要求不多,只是要求刪減計劃中將興建的 D及E座公屋,達致松柏塱現有居民居住的地段可以不遷不拆。

計劃中的A、B及C座公屋與D及E座公屋之間一河相隔,不但顯得格格不入。而且沒有考 慮這規劃暗藏的保安及管理的隱憂。此河在大雨時可於短瞬間滿溢,對於屋邨大量的居 民尤其是小孩及長者、屋邨保安員有極大潛在危險。此河平平無奇水淺得似溝渠,但是 是洩去周邊雨水的要河,大雨時因為地勢雨水大量從四方八面匯入此河,水勢之洶湧每 年雨季都浸沒了很多的汽車,是汽車報銷的黑點。這地段地勢並不容易改變,西南面的 高爾夫球場和北面的愛園別墅都高於此河,大量雨水沿著地勢流入青山公路匯集湧入此 河,情況兇險,真的不能低估及忽視此情況。

本人反對政府收回松柏塱這地段。因為這地段不大,更全為居住用途,現住了10多戶居 民。現有松柏塱民居部份地段計劃建以上提的兩幢公屋。緩減力度不大、又影響現住的 民居、又大費周章安排安置善後現居民,並不是理想的決定。

現在松柏塱民居部份地段的居民大部分都60歲以上的長者,其中也有多人已是80歲90歲 以上的行動不便的獨居老邁長者。多人得知這收回計劃都深感徬徨,老淚縱橫,於心何 忍?不難理解徬徨的原因,不良於行的長者怎能承受搬遷的折騰。左鄰右里已是超過50 年的老朋友,長者一直靠鄰里互相幫助。如要長者搬遷,鄰里各散東西,到了新環境人 生路不熟,又沒有鄰里幫助,不能適應,怎麼生活呢?

除了適應問題外,還有經濟和住屋問題。若接受政府收回此地的賠償,就算拿最高金額 都不足買到現時一間相對廉價的居屋,長者都已退休沒有供樓能力。更不要提對長者來 講是天價的私樓了。若接受公屋或租住私樓長者也沒有能力每月交租,政府難道要迫明 明原本有屋住的人瞓街嗎?

土地是真金白銀買回來為的是可以在此安居,安享晚年。居民用了畢生的積蓄裝設甚至 重建老舊房子打造成為一個安樂窩,以此渡過餘生。收回土地及房屋如同強搶民居,又 怎能接受呢?

其實本人對政府收地發展和興建公共房屋減緩現在公共房屋供不應求的壓力是沒有異議 ,不過計劃應以不憂民為目標,計劃收回的土地應只集中選擇綜地、荒廢地和空置地, 不應選有居民居住的土地。

根據以上理由強列調要求考慮更改計劃,刪減計劃中興建的D及E座公屋,保留現松柏塱 民居部份,達致不遷不拆的目標。那就感激萬分。

TPB/R/S/FSS/25 11

Urgent Return Receipt Requested

Sign Encrypt Mark Subject Restricted Expand personal&publi

Opposition to Amendment Item C1 Tai Tau Leng S/FSS/24 14/02/2022 13:47

From: To: File Ref:

tpbpd@pland.gov.hk

1 attachment

Helen Yu Opposition to Amendment Item C1 SFSS24.pdf

Dear sirs,

Attached please find my Opposition to Amendment Item C1: The Rezoning of a Public Housing Site at Tai Tau Leng from "GB" and "G/IC" to R(A)10 in regards to Approved Fanling / Sheung Shui Outline Zoning Plan No. S/FSS/24.

Regards,

Helen Yu

Form No. S6 表格第 S6 號

For Official Use	Reference No. 檔案編號	
Only 請勿填寫此欄	Date Received	
	收到日期	1

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表格,填寫的資料宜中英文萊備。倘若未能提供所需資料,則委員會可把有關申述視為不曾提出論。

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Full Name 姓名 / 名稱 (Mr. (Ms) Company/Organisation\* 先生/女士/公司/機構\*)

Helen yu

(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交,須填上與香港身份證/護照所載的全名)

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\* Delete as appropriate 請刪去不適用者

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Natur	e of and reasons for the	representation 申述的性質及理由
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Amendment ITem C  The Responding of a public housing site at Tai Tau Leng from "GB" and "Gr/IC" to R(A)10	□ support 支持 ☑ oppose 反對	Please refer to attachment.
	□ support 支持 □ oppose 反對	
	<ul> <li>support 支持</li> <li>oppose 反對</li> </ul>	
if草圖是否有任何擬議修訂?	ue draft plan? If yes, please spec 如有的話,請註明詳情。	ny ue details.

若申述附有支持其論點的補充資料(例如彩色及/或大尺寸的圖則、規劃研究及技術評估),則須提供 90 份複本(或 40 份印文本和 50 份電子複本)·

50 份電子復本)。 @ Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事 項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目編號。 Please fill "NA" for not applicable item 請在不適用的項目填寫「不適用」 ☑ at the appropriate box 請在適當的方格內加上 ☑ 號

Opposition to Amendment Item C1: The Rezoning of a Public Housing Site at Tai Tau Leng from "GB" and "G/IC" to R(A)10

Effects on Transportation:

- 1. Impact on the Tai Tau Leng Interchange
  - a. The proposed rezoning and the subsequent construction of a public housing estate in Planning Area 35 will certainly place exceptional burden on the motorway network in Sheung Shui. I speak from experience as the resident of this area. The Tai Tau Leng Interchange is one of the busiest interchanges in Sheung Shui. When there is traffic jam, it causes significant slowdown for the through traffic in the Kam Tin direction on Fan Kam Road as well as the Yuen Long direction on Castle Peak Road Kwu Tung.
  - b. The Tai Tau Leng Interchange is right off of Exit 9 on Route 9. It is the last exit in Sheung Shui before one enters the Yuen Long area on Route 9's west-bound direction. Many long vehicles pulling large cargo take this exit. For northward to the Tai Tau Leng Interchange lies the Man Kam To Interchange. Therefore Exit 9 and the Tai Tau Leng Interchange are the most-used roadway by these heavy duty vehicles, which head toward the Man Kam To border area via this road link. As a result, a traffic jam at the Tai Tau Leng Interchange very often involve very large vehicles. This fact exacerbates the traffic problem.
  - c. If the development of Planning Area 35 goes forward, a projected increase of 8,900 in the population of the public housing estate in Tai Tau Leng, coupled with additional new bus routes running in the area and taxi stands, will place significant burden on the Tai Tau Leng Interchange. An envisioned closer economic ties with mainland China in this area will also cause significant increase in vehicular traffic that consists mostly of long vehicles. The proposed widening of the roadways in the Interchange does not change the fact that this area is the only way, with no alternative, to the Man Kam To Interchange from Route 9. Again I speak from experience. There were instances where a traffic accident on the four-lane section of Po Shek Wu Road clogs up the whole section between the Tai Tau Leng Interchange and the Man Kam To Interchange. The critical problem is the lack of alternative, rather than the number of lanes on the road.
  - d. Traffic at the Tai Tau Leng Interchange can cost lives because the Interchange lies right by the North District Hospital. Especially when there is traffic, as it does happen, at both the Kai Leng and Tai Tau Leng Interchanges. These are the only two ways to reach the North District Hospital. Very often, I stop at the Tai Tau Leng Interchange intending for ambulances to pass by, but traffic is so heavy that even with all cars stopping will not clear the way for emergency vehicles to pass through.
  - e. Like the neighboring Kai Leng Interchange, the Tai Tau Leng Interchange has been prone to traffic jam for the reasons stated above. There have been instances where both interchanges are so severely jammed that all traffic in the North District are paralyzed.
  - f. I emphasize that the mere widening of roadways will not prevent them from severe traffic jam. A proposed development with significant increase in

population and community facilities, and closer ties with mainland China, must come with a revision of the whole motorway network in this area, instead of merely providing more lanes on the same roads.

- 2. Impact on Castle Peak Road Kwu Tung
  - a. The vehicular access for the proposed public housing estate on Planning Area 35 is Castle Peak Road – Kwu Tung Section. Currently, this road is the main vehicular access for Eden Manor, Golf Parkview, the villages of Tsung Pak Long, Kam Tsin, Yin Kong, Kwu Tung and all the way to Ho Sheung Heung. An additional public estate housing a population of 8,900, coupled with the proposed development in Kwu Tung North and another approved high-rise development immediately west of Planning Area 35, will result in serious traffic on Castle Peak Road.
  - b. When the Eden Manor was under construction, a constant stream of truck fleets and roadside construction caused significant traffic issues for the residents of Tsung Pak Long. Castle Peak Road Kwu Tung Section is currently a one-lane road link on both directions. Whatever roadside construction, be they work on the nullah, the upgrading of underground pipelines, electricity or broadband networks, drainage and sewage systems, or work to widen the road itself, will cause serious traffic on the road. There were instances where I waited for more than fifteen minutes before being able to reach the Tai Tau Leng Interchange from Tsung Pak Long. The distance is a mere 600 meters.
  - c. The heavy use of Castle Peak Road Kwu Tung have far-reaching consequences for the traffic situation in all of Sheung Shui. Again, the central issue is not so much about the number of lanes on the road, but the fact that Castle Peak Road is the only road link that provides access for all these residential estates. The residents can easily be stuck in traffic during rush hours, resulting in actual loss in economic productivity. The feasibility study draws on so-called scientific indicators without a serious consideration of the reality of the situation.
  - d. Inclement weather has also caused significant problems for residents in the area. A few typhoons have felled the trees on Castle Peak Road – Kwu Tung. The trees that felled prevented all vehicular access after the typhoons. Again, this issue arises due to Castle Peak Road – Kwu Tung being the only access for residents in this area. The more populated this area is, the more likely that such incidents will cause significant loss in economic productivity and severe inconvenience.
  - e. In conclusion, the lack of diversion routes in Tai Tau Leng Interchange and Castle Peak Road – Kwu Tung renders this area unsuitable for largescale public housing even if both are to be widened to provide more lanes on each direction. The approved development in Kwu Tung North and the site immediately west of Planning Area 35 will only serve to exacerbate the problem.

### Effects on the Environment

1. Green Belt Zone

- a. The Town Planning Board's Guidelines for the Application for Development within Green Belt Zone states a few purposes for green belt zones. I think that two of the stated purposes are applicable to Planning Area 35. Namely, the green belt zones "conserve existing landscape features, areas of scenic value, and areas of recognized "fung shui" principles; and to define the outer limits of urbanized districts and to serve as a buffer between and within urban areas."
- b. As a green belt zone, the Tai Tau Leng area serves as a buffer between Long Valley and the densely populated establishments in Shek Wu Hui and Choi Yuen Estate.
- c. This green belt status has preserved, for decades, the rustic character in the neighborhood, which includes the Fanling Golf Course and Long Valley. Now that another part of the Fanling Golf Course will be used for public housing, the removal of green belt status in Tai Tau Leng will together pose a direct threat to the natural habitat of Long Valley.
- 2. The destruction of habitat for wildlife
  - a. I cannot agree with the conclusions drawn in the feasibility study on the potential impact that a rezoning of the Tai Tau Leng area and the subsequent development have on the ecology of the area. The study states that "the loss of species is low because of the commonness and low fauna and floral diversity."
  - b. Again I speak from experience and observation. I used to see fireflies in my garden, but after the construction of the Eden Manor across the street, I no longer see any fireflies. The proposed development in the Tai Tau Leng area will destroy the habitat for the local species. Its commonness only means that the same species will be found elsewhere. It does not mean that those resident species that find home here are being preserved. They will likely die as a result of the proposed development in the Northern Metropolis plan because a large area of low human footprint will be replaced by significant human presence.
  - c. Although the feasibility study makes the case that there is low fauna and flora diversity in the area, there is still a vibrant wildlife here. A few years ago, a family of birds made a nest on one of the trees in our garden. The mother laid eggs and the eggs hatched. We watched and documented the whole process. We were in awe, and we do not think that it is justified to take away the habitat even for common species. As rural residents we practice, to the fullest extent, living in harmony with nature.
  - d. The feasibility study also cites the distance of 500m from Long Valley, concluding that this distance alone will prevent the human development in Planning Area 35 from destroying the habitat for what the study seems to suggest as "more valued" wildlife there. The feasibility study zooms in on only Planning Area 35, but the Hong Kong Government has also plans to develop another part of the Fanling Golf Course and Kwu Tung North. The destruction of natural habitat in the vicinity is significant. The effect of natural habitat destruction is not limited to Planning Area 35. The overall plan of the Northern Metropolis will have adverse effect on Long Valley.
  - e. It is therefore deceiving to suggest that the natural habitat of Long Valley will not be affected by the rezoning and development of Planning Area 35 alone.

### Visual impact

- 1. The aerial view of this area of Sheung Shui now shows a large swathe of flatland with low density housing. But Eden Manor stands out as the only cluster of tall, black buildings in this landscape. Eden Manor is already an out-of-context sore thumb in this area of Sheung Shui. It goes against the rustic character in this area. More such highdensity residential development will certainly destroy the visual quality of the landscape here. I quote the feasibility study on this point, "within the cluster itself, the visual composition is rather consistent, but the cluster itself stand in contrast to the surrounding low density landscape."
- 2. The mitigation measures suggested in the feasibility study addresses the visual impact as viewed on the ground level, "reinstatement of streetscape elements, street interface of the development and the use of sensitive and chromatic treatment of architectural façade of the future building." They do not address the effect of a cluster of buildings on the landscape at large. Such cluster is an example of stereotype and monotonous development as stated in the Urban Design Guidelines.

#### The Nullah

- 1. The nullah right next to Planning Area 35 might present danger to the residents. It is a large waterway. When there is heavy rain, the rain water gushes to the nullah. It becomes dangerous, especially for small children.
- 2. If significant work is to be done to deck the nullah as suggested in the feasibility report, it will induce significant traffic problems on Castle Peak Road Kwu Tung, as I have experienced in the construction of Eden Manor.
- 3. Flooding is a consistent problem in Planning Area 35. As noted in the feasibility report, the nullah is a main channel of drainage for this area. During heavy rain, I often see rain water rushing through the relatively low terrain of my garden and drained via the nullah down Castle Peak Road. Significant construction work in this area poses the risk of damaging the structural integrity of the nullah.

### Effects on Air Ventilation

- Since the construction of Eden Manor across the street, I have noticed that my garden and my house is troubled by higher temperature, especially during the summer. Due to the Tai Tau Leng location being inland, air ventilation is only enabled by land breezes. The Eden Manor has blocked land breezes flowing to my house. It is the direct effect of a high density residential estate cluster at my doorstep.
- 2. The feasibility study suggests certain air ventilation features as mitigation when constructing the public housing estate. The empty bays suggested will assist air flow within these five blocks of public housing estate. This so-called mitigation may just benefit the five buildings themselves. But five blocks of high density residential buildings together will in any event alter and block the wind flow to the neighborhoods surrounding the area. It goes against common sense to think that a densely populated, five-building cluster will not affect wind flow to the surrounding villages. Eden Manor has had this effect on my house.

3. Finally, I think the feasibility study's section on air ventilation has not included some of the scientific indicators as would be expected under the Air Ventilation Assessment Guidelines.

Suitability of the ground to support largescale building construction

- 1. When Eden Manor was under construction, the foundation works have caused the floor tiles of my neighbor's house to deform. Her house lies right across the Eden Manor. As a result, the developer had to compensate my neighbor.
- 2. Any largescale construction of high density building in this site could potentially affect the foundation of neighboring structures, especially Eden Manor.
- 3. The ground of this area is frequently disturbed by water flow. Heavy rain causes the ground to be soft and moist especially during the rainy season.

### Consideration of an Alternative

- 1. The part of Tsung Pak Long Village within Planning Area 35 has enjoyed a very long history. Most of the residents on this part of Tsung Pak Long Village have been here for generations. For my family alone, we have been here since my grandfather settled down in Tsung Pak Long in 1946, a good 76 years by now. We have embraced our rustic life here in this village, living in harmony with the natural habitat here.
- As can be seen in the proposed development of the public housing estate, the public housing estate consists of two clear sections with the nullah separating the two. Blocks A, B and C lie eastward to the nullah. Blocks D and E will take up the area of Tsung Pak Long Village, where long-time villagers reside, to the west of the nullah.
- 3. I believe it is a fair suggestion to preserve the current zoning status of Tsung Pak Long Village as a green belt zone. It can continue to serve as a natural habitat buffer for the neighboring Long Valley. It can continue to give home to villagers who have invested generations of time, effort and attention to maintain their homes here. The Government should not disturb the quiet enjoyment of our way of life if alternatives exist.
- 4. A public housing estate consisting of the 3 blocks lying east to the nullah should amply serve the development purpose of the government. This will balance the interests of all parties involved.

Please give due consideration to the oppositions that I have raised herein.

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ronn NO. 30 衣俗弗 S6 號

1. The representation should be made to the Town Planning Board (the Board) before the expiry of the specified plan exhibition period. The completed form and supporting documents (if any) should be sent to the Secretary, Town Planning Board, 15/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong.

申述必須於指定的圖則展示期限屆滿前向城市規劃委員會(下稱「委員會」)提出,填妥的表格及支持有關申述的文件(倘有),必 須送交香港北角渣華道 333 號北角政府合署 15 樓城市規劃委員會秘書收。

2. Please read the "Town Planning Board Guidelines on Submission and Publication of Representations, Comments on Representations and Further Representations" before you fill in this form. The Guidelines can be obtained from the Secretariat of the Board (15/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong – Tel.: 2231 4810 or 2231 4835) and the Planning Enquiry Counters of the Planning Department (Hotline: 2231 5000) (17/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong – Tel.: 231 Java Road, North Point, Hong Kong and 14/F., Sha Tin Government Offices, 1 Sheung Wo Che Road, Sha Tin, New Territories), or downloaded from the Board's website at http://www.info.gov.hk/tpb/.

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3. This form can be downloaded from the Board's website, and obtained from the Secretariat of the Board and the Planning Enquiry Counters of the Planning Department. The form should be typed or completed in block letters, preferably in both English and Chinese. The representation may be treated as not having been made if the required information is not provided. 此表格可從委員會的網頁下載,亦可向委員會秘書處及規劃署的規劃資料查詢處索取。提出申述的人士須以打印方式或以正楷填寫 表格,填寫的資料宜中英文兼備。 倘若未能提供所需資料,則委員會可把有關申述視為不曾提出論。

1. Person Making this Representation (known as "Representer" hereafter) 提出此宗申述的人士 (下稱「申述人」) Full Name 姓名 / <del>名稱</del> (Mr. /Ms./Company/Organisation\* 先生/女士/公司/機構\*) RECEIVED 黄振弹 WONG CHUN KEUNG 0 S FEB 2022 Town Planning Board (Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交, 須填上與香港身份證/護照所載的全名) Authorised Agent (if applicable) 獲授權代理人(如適用) 2.

Full Name 姓名 /- 名稱- (Mr./ Ms./Company/Organisation\* 先生/女士/公司/機構\*)

(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交,須填上與香港身份證/護照所載的全名)

### 3. Details of the Representation 申述詳情

Draft plan to which the representation relates (please specify the name and number of the draft plan) 與申述相關的草圖 (請註明草圖名稱及編號)	S/FSS/24 Cl - R(A)10	

\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「不適用」

Form No. S6 表格第 S6 號

Nature of and reasons for the representation 申述的性質及理由		
ubject matters 有關事項 <sup>@</sup>	Are you supporting or opposing the subject matter? 你支持還是反對有關事項?	Reasons 理由
S/FSS/24 C1 – R(A)10 AMENDMENT ITEM C1	□ support 支持 ✔ oppose 反對	看附件 SEE ATTACHMENT
•	□ support 支持 □ oppose 反對	
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	□ oppose 反對	
ny proposed amendments to 草圖是否有任何擬議修訂 強列要求擱置。	the draft plan? If yes, please spe ? 如有的話,請註明詳情。 有關發展計劃。	ccify the details.
*		

③ 仍电子夜本)。
 ④ Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目編號。
 Please fill "NA" for not applicable item 請在不適用的項目填寫「不適用」
 ☑ at the appropriate box 請在適當的方格內加上 ☑ 號

附件

# 有關事項:粉嶺/上水分區計劃大綱核准圖編號

# S/FSS/24 - C1 - R(A)10

本人是上水松柏塱村居民,得悉本區被列入發展藍圖之內,震撼至今!畢竟從出生一直 居於此處,一草一木皆有感情,要遷出的話情何以堪!

與此同時,本人亦都明白香港土地不足,新界北部發展勢在必行,得以緩解全港居住房 屋短缺問题!要能平衡各方利益,不致冲突才是關鍵。

我長居此地,對環境比較瞭解,若規劃這地方建為公營房屋,本人可並不認同!

首先在交通方面,青山公路是唯一可以通達上水車站的要道,但這段公路只是一條狹小 的車路,多年來沿路住屋不斷發展,路況早已飽和,每天繁忙時段皆會堵車,莫說是交 通意外的了!要把路段加闊,同時也會增加上水迴旋處的交通壓力!上水週邊公路環環 相扣,但設計是只符合上世纪的稀疏人口,現今逐漸發展,已超出了負荷水平,嚴重擠 塞時有所聞,我也試過從上水回家花了3.5小時!而這段路程約只2公里!光在上水區交 通擠塞問題,一直都有反映給政府相關部門,但多年來一直未能解決,情況日益嚴重。 若在此再增加民居屋苑,根本是不設實際,並非簡單地加建直通路段就可解决,只會對 新的住戶甚至沿路居民做成諸多不便。

此外,從發展規劃圖則也可看見,這個發展區的中間有一條河道,這條河平時的水量不 多,但每當到了下雨季節,這條河就承擔了疏導從高爾夫球場及愛園别墅收集並流出來 的雨水,由於球場面積甚廣水量甚多,河道時常瞬間滿溢,甚至影響路面交通,情況嚴 峻,如果河道發展成為公共屋邨內的一部分,可能對民居造成不便,若在洪水爆發時有 小孩在河道上玩耍,甚至有生命威脅!你們評估河水流量按什麼數據?有風險評估嗎?

在整體上來看,政府把這裡規劃成為公營房屋,但毗鄰是已建成的高尚住宅又或已入紙 興建高級住宅,要在這裏興建公營房屋,一來格格不入,亦會面對大量反對聲音,並不 明智,要是政府把這裏的土地改變成為住宅用途之後,再出售予地產商發展成為私營房 屋的話,這似乎是出賣著在這裡土生土長的原住民,也會惹來利益輸送的嫌疑、私相授 受的不良印象!更有可能面對法津訴訟!

還有,評估報告說在這裏改建為公營房屋後,不會對當區的景觀,視角做成不能克服的 影響,你們是按怎麼標準判斷什麼是大影響什麼是小影響?從小農村平房變高樓大廈難 道不算大改變嗎?可以怎克服?什麼緩解措施?我親身經驗是,我從前每天早上起來便 看見晨早陽光,自從建了高爾夫 御園後,陽光不再,每天起來抬頭東望,只見到高樓 大廈!太陽被檔了,有什麼措施可還我從前的陽光?

基於以上因素,本人反對把這綠化地帶改劃成公共房屋。

 
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Person Making this Representation (known as "Representer" hereafter) 提出此宗申述的人士 (下稱「申述人」) Full Name 姓名 / 名稱 (Mr. /Ms./Company/Organisation\* 先生/女士/公司/機構\*) · LI · CHUN MING ALEXANDER RECEIVED 1 6 FEB 2022 (Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交, 須填上與香港身份證/護照所載的全名) TRAOL Janning Authorised Agent (if applicable) 獲授權代理人(如適用) 2. Full Name 姓名 / 名稱 (Mr./ Ms./Company/Organisation\* 先生/女士/公司/機構\*) (Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交, 須填上與香港身份證/護照所載的全名) Details of the Representation 申述詳情 3. Draft plan to which the representation relates (please S/FSS/24 CI - R(A)10 specify the name and number of the draft plan) 與申述相關的草圖 (請註明草圖名稱及編號)

\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「 不適用 」

Natur	e of and reasons for the	representation 申述的性質及理由
ubject matters 有關事項 <sup>@</sup>	Are you supporting or opposing the subject matter? 你支持還是反對有關事項?	Reasons 理由
交通	□ support 支持 ☑ oppose 反對	太多車輛使用青山公路致擠塞
寵物		Abandon
经水 化	□ support 支持 ✔ oppose 反對	消失
住屋	□ support 支持 ☑ oppose 反對	No replacement.
	the draft plan? If yes, please spe ? 如有的話,請註明詳情。	ecify the details.
		· · · · · · · · · · · · · · · · · · ·

Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事 @ 項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目編號。 Please fill "NA" for not applicable item 請在不適用的項目填寫「不適用」

☑ at the appropriate box 請在適當的方格內加上 ☑ 號

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## TPB/R/S/FSS/25 **1 4**

Form No. S6 表格第 S6 號

For Official Use Only	Reference No. 檔案編號			÷
	Date Received	۶.		
請勿填寫此欄	收到日期			

 The representation should be made to the Town Planning Board (the Board) before the expiry of the specified plan exhibition period. The completed form and supporting documents (if any) should be sent to the Secretary, Town Planning Board, 15/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong.

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2. Please read the "Town Planning Board Guidelines on Submission and Publication of Representations, Comments on Representations and Further Representations" before you fill in this form. The Guidelines can be obtained from the Secretariat of the Board (15/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong – Tel.: 2231 4810 or 2231 4835) and the Planning Enquiry Counters of the Planning Department (Hotline: 2231 5000) (17/F., North Point Government Offices, 333 Java Road, North Point, Hong Kong and 14/F.; Sha Tin Government Offices, 1 Sheung Wo Che Road, Sha Tin, New Territories), or downloaded from the Board's website at <a href="http://www.info.gov.hk/tpb/">http://www.info.gov.hk/tpb/</a>.

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此我留可從安負嘗的納負下報,一所可同委員嘗被當處反況的者的況前負科查詞處系取。远田中述的人工須以打印方式或以正借填為 表格,填寫的資料宜中英文兼備。倘若未能提供所需資料,則委員會可把有關申述視為不曾提出論。



(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交, 須填上與香港身份證/護照所載的全名)

### 3. Details of the Representation 申述詳情

Draft plan to which the representation relates (please<br/>specify the name and number of the draft plan)<br/>與申述相關的草圖 (請註明草圖名稱及編號)S/FSS/24<br/>C1 - R(A)10 AMENDMENT ITEM C1

\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「不適用」

Form No. S6 表格第 S6 號

Natur	e of and reasons for the	representation 申	述的性質及理由
ubject matters 有關事項 <sup>@</sup>	Are you supporting or opposing the subject matter? 你支持還是反對有關事項?	ж	Reasons 理由
S/FSS/24 C1 - R(A)10 AMENDMENT	□ support 支持 ☑ oppose 反對		看附件 SEE ATTACHMENT
ITEM C1			· · · ·
			• •
·	<ul><li>□ support 支持</li><li>□ oppose 反對</li></ul>		•
		, , ,	
	□ support 支持 □ oppose 反對		
- ;			
「草圖是否有任何擬議修訂	the draft plan? If yes, please sp ? 如有的話,請註明詳情。 + まし。	contry the details.	• •
強烈反對收地言	更) ~		
	•	~ .	. *

@ Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目編號。
 Please fill "NA" for not applicable item 請在不適用的項目填寫「不適用」
 ☑ at the appropriate box 請在適當的方格內加上 ☑ 號

# 附件

## 有關事項:粉嶺/上水分區計劃大綱核准圖編號

S/FSS/24 - C1 - R(A)10

本人反對收我的地做為公屋,首先現時政府賠償方案非常不合理!沒有考慮 過被收地的居民!

另外在交通方面,青山公路古洞段現時每天繁忙時段皆會堵車,由於高爾夫 御園入住後就更嚴重,這說明青山公路承受不了人口急劇增加,青山公路古 洞段一帶只適合低密度住宅,無論在景觀或交通方面都不適宜起公屋,人口 突然增加,會極大地增加交通意外!

北區會有很多地適合起公屋,為什麼要收一塊不適合起公屋的地來起公屋! 為何要收我的地,而又不收鄰近愛園的地?還是打算收我的地再轉售給私人發展商?咁應該由私人發展商同我們直接交易比較公平!

我在這居住了幾拾年,又是我媽媽留下比給我的遺產,本人對這塊土地有著 深刻的感情,本人在此強烈反對這個計劃,更不希望因為這個計劃,周圍的 百年老樹要被拆除,如同強搶我的家園一樣!

最後本人強烈反對改變我這塊綠化地做為主宅用地。

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表格,填寫的資料宜中英文兼備。倘若未能提供所需資料,則委員會可把有關申述視為不曾提出論。

 Person Making this Representation (known as "Representer" hereafter) 提出此宗申述的人士 (下稱「申述人」)

Full Name 姓名 / 名稱 (Mr. /Ms./Company/Organisation\* 先生/女士/公司/機構\*)

Mr. KU CHU KWAN MANTR 30

(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交, 須填上與香港身份證/護照所載的全名)

2. Authorised Agent (if applicable) 獲授權代理人(如適用)

Full Name 姓名 / 名稱 (Mr./ Ms./Company/Organisation\* 先生/女士/公司/機構\*)

(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交,須填上與香港身份證/護照所載的全名)

### 3. Details of the Representation 申述詳情

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75S/24

\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「不適用」

(C)

Natur	e of and reasons for the	representation 申述的性質及理由
Subject matters 有關事項 <sup>@</sup>	Are you supporting or opposing the subject matter? 你支持還是反對有關事項?	Reasons 理由
SFFSS/24 C1	□ support 支持 ☑ oppose 反對	破战敌有諮詢原居民,而 强行收回之地;本人 宪定反对魏敬事项。
	□ support 支持 □ oppose 反對	
	□ support 支持 □ oppose 反對	
ny proposed amendments to  草圖是否有任何擬議修訂	the draft plan? If yes, please sp ? 如有的話,請註明詳情。	ecify the details.

为 Goppes (or to have copies and 50 son copies) or such information shall be provided. 若申述附有支持其論點的補充資料(例如彩色及/或大尺寸的圖則、規劃研究及技術評估),則須提供 90 份複本(或 40 份印文本和 50 份電子複本)。

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Please fill "NA" for not applicable item 請在不適用的項目填寫「不適用」 I at the appropriate box 請在適當的方格內加上 I 號

TPB/R/S/FSS/25 16

Form No. S6 表格第 S6 號

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 1. Person Making this Representation (known as "Representer" hereafter)

 提出此宗申述的人士 (下稱「申述人」)

 Full Name 姓名 / 名稱 (Mr. /Ms./Company/Organisation\* 先生/女士/公司/機構\*)

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## 2. Authorised Agent (if applicable) 獲授權代理人(如適用)

Full Name 姓名 / 名稱 (Mr./ Ms./Company/Organisation\* 先生/女士/公司/機構\*)

(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交,須填上與香港身份證/護照所載的全名)

### 3. Details of the Representation 申述詳情

Draft plan to which the representation relates (please specify the name and number of the draft plan) 與申述相關的草圖 (請註明草圖名稱及編號)

CI-R(A NO. SI755/24

\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「 不適用 」

### Form No. S6 表格第 S6 號

3. Details of the Representation (Continued) (use separate sheet if necessary) <sup>#</sup> 申述詳情(續) (如有需要,請另頁說明) <sup>#</sup>			
Natur	e of and reasons for the	representation 申述的性質及理由	
Subject matters 有關事項 <sup>@</sup>	Are you supporting or opposing the subject matter? 你支持還是反對有關事項?	Reasons 理由	
AMENDMENT 17EM CI THE REZONING OF A PUBLIC HONSING SITE AT TAU LENGI FROM GB" × "G/IC"TO R(A)10	□ support 支持 1 oppose 反對	PLENSE SEE ANNEX I	
R(A)10	□ support 支持 □ oppose 反對		
	□ support 支持 □ oppose 反對		
ny proposed amendments to 讨草圖是否有任何擬議修訂?		cify the details. ANN Бъ I	

若申述附有支持其論點的補充資料(例如彩色及/或大尺寸的圖則、規劃研究及技術評估),則須提供 90 份複本(或 40 份印文本和 50 份電子複本)。

@ Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目編號。

Please fill "NA" for not applicable item 請在不適用的項目填寫「 不適用 」

☑ at the appropriate box 請在適當的方格內加上 ☑ 號

ANNEN I

# 我們提出以下理由反對收地:

根據 684 次城規會會議記錄內容,提及解决大頭嶺迴旋處及雞嶺 迴旋處交通問題一事,會議紀錄提及會有若干措施舒緩未來塞車 嚴重問題,但是未有切實地反映當 3300 單位牽涉 8900 人正式遷 入後的情況,這個方案是否確切地解決塞車問題,有關建議其實只 可以應付現時的居住人口密度正在天天面對著嚴重交通擠塞問題, 現在只是紙上談兵,完全沒有實質理據支持,到時是否可以達到成 效,只是一個願景,大家可參考之前興建的沙中線已是一個實例, 到 2030 年再遷入 8900 人居住後的交通嚴重負荷更是杯水車薪, 更妄想在 2030 年能解決這一帶交通問題,更加遙遙無期。

現時在青山公路古洞段 88號已經入伙的高爾夫御苑,有8座樓高 超過 28層的屋苑,政府預算在對面興建5座公屋,樓高約40層, 再加上旁邊的愛苑已向城規會申請興建7座樓高23層私人屋苑, 形成嚴重屛風效應,這樣大大增加區內空氣、環保、及燈光污染負 荷非常嚴重。

根據報告內容,政府為了興建 5 座公屋,將會在影響範圍內砍伐 大量老樹木 370 棵,大大影響環保生態,附近的朗園受到影響的 程度亦未可估計,嚴重破壞環境生態。好幾十年前,政府已把這區 規劃成緣化環保區,過往居民曾多次要求改善生活環境,申請重建 破舊的居所,都被政府否決,為何政府現時又可以為了急於興建公 屋,破壞緣化環保區而把這一帶住了好幾十年居民的家園毀於一 旦,更影響棲息於附近瀕臨絕種及罕有的候鳥、蝴蝶、昆蟲生態亦 隋之消失。政府多年來致力於朗園一带保育工作,全部毀於一旦。 現時每逢下大雨後,青山公路古洞段一帶路面的排水渠嚴重負荷 而導致水浸情況不斷加劇,渠務署是最清楚的,已是多年來未能解 決水浸問題,只會百上加斤令水浸情況悪化。

現時區內家家戶戶都有飼養多隻寵物,若受政府强權迫遷,一旦痛 失家園,便被迫把大量寵物遺棄在區內,未能一同帶上樓居住,而 上了年紀的老人家,本來是過着安逸的生活,地方寬敞、空氣清新, 相信都未能適應狹窄的上樓單位,之前古洞北政府收地,已是一個 活生生的例子。

最後想反映的是:現在政府過時的收地補償方案,遠遠未能給受政府强權迫遷的居民獲得之前同等的安樂生活,就算是補償公共房 屋亦是蚊蠅單位,更要受制於什麼資產及資格審查,等同於一般市 民申請公共房屋福利的資格相同,這是對於受政府强權迫遷的居

2

民非常不公平,政府要明白,為何我們選擇要在這一帶居住,就是 安於現時這一帶的生活環境,這是政府打擾了我們的生活寧靜,必 須正視所有以上將會發生的問題,不能因為要應付中央對於香港 的房屋興建數量要求,就草率地犧牲了我們現時住戶的理想居所。 而至於政府求地建屋,亦不是別無地方選擇,就是鄰近的高爾夫球 場,正足夠滿足政府想收回我們這條小小的村落的面積,佔地170 公頃的高爾夫球場,只願意交出2.4公頃的土地來應酬政府興建房 屋,是非常不合理。

# 受影響遷拆居民

(

區錦成、區展綱、 區易婷、 陳玉燕

трв/r/s/fss/25 **17** 

Form No. S6 表格第 S6 號

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	檔案編號	
	Date Received	
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. The representation shou	ld be made to the Town	Planning Board (the Board) before the expiry of the specified plan exhibition period. T

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申述必須於指定的圖則展示期限屆滿前向城市規劃委員會(下稱「委員會」)提出,填妥的表格及支持有關申述的文件(倘有),必

甲亟必須於指定的圖則展示期限屆滿前向城市規劃委員會(卜稱「委員會」)提出,填妥的表格及支持有關甲亟的文件(倘有) ,必 須送交香港北角渣華道 333 號北角政府合署 15 樓城市規劃委員會秘書收。

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此表格可從委員會的網貝卜戰,亦可同委員會秘書處及規劃者的規劃資料查詞處案取。提出申遞的人士須以打印方式或以止楷填寫 表格,填寫的資料宜中英文兼備。倘若未能提供所需資料,則委員會可把有關申述視為不曾提出論。

Person Making this Representation (known as "Representer" hereafter) 1. 提出此宗申述的人士 (下稱「申述人」) Full Name 姓名 / 名稱 (Mr. /Ms./Company/Organisation\* 先生/女士/公司/機構\*) RECEIVED 17 FEB 2022 Town Planning (Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided)ard (注意: 若個人提交, 須填上與香港身份證/護照所載的全名) Authorised Agent (if applicable) 獲授權代理人(如適用) 2. Full Name 姓名 / 名稱 (Mr./ Ms./Company/Organisation\* 先生/女士/公司/機構\*) (Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交, 須填上與香港身份證/護照所載的全名) Details of the Representation 申述詳情 3. Draft plan to which the representation relates (please CI - R(A) | 0specify the name and number of the draft plan) NO. SIFSS/24 與申述相關的草圖 (請註明草圖名稱及編號)

\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「 不適用 」

Form No. S6 表格第 S6 號

3. Details of the Representation (Continued) (use separate sheet if necessary) <sup>#</sup> 申述詳情(續) (如有需要,請另頁說明) <sup>#</sup>			
Nature of and reasons for the representation 申述的性質及理由			
Subject matters 有關事項 <sup>@</sup>	Are you supporting or opposing the subject matter? 你支持還是反對有關事項?	Reasons 理由	
Amendment (tem C1. The Rezoning of a Public honsing Site at Tai Tan Leng from 6B& G/IC to R(A)10		若受政府強權迫遇,一旦通史家 園、便被迫把大量寵物道棄在區 內·未能-同常上樓居住,這就是, 選擇徑這裏原因.	
	□ support 支持 ☑ oppose 反對	現在政府過時的收世補償方案 遠遠未能给政府強權迫遇的展民 獲得之前同等的安樂生活,就算 是補償公共房屋市是效编等位. 更要受制於什麼資產又資格審查, 這是對於受政府強權迫遇的居民 非常不公平、	
	□ support 支持 □ oppose 反對		
對草圖是否有任何擬議修訂 # If supporting documents (c.		lanning studies and technical assessments) is included in the representations,	

50 [万电士 侵本]。 @ Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事 項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目编號。 Please fill "NA" for not applicable item 請在不適用的項目填寫「 不適用 」 ☑ at the appropriate box 請在適當的方格內加上 ☑ 號

TPB/R/S/FSS/25 18

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The Secretary Town Planning Board 15/F North Point Government Offices 333 Java Road, North Point, Hong Kong

Our ref: T&ESD/E&IC/ES/EnvE/L1113

Date: 17 FEB 2022

By Post and Fax (Fax no.: 2877 0245 / 2522 8426)

Dear Sir/Madam,

### Draft Fanling/Sheung Shui Outline Zoning Plan No. S/FSS/25 – Notice of Representation Operational Rail and Fixed Noise Concern

The Corporation has, in general, no objection to the proposed amendments within the Draft Fanling/Sheung Shui Outline Zoning Plan (OZP) (No. S/FSS/25) as gazetted by the Town Planning Board on 17 December 2021. However, it is noted that Amendment Item D1 involves the rezoning of a site at Choi Shun Street, Sheung Shui Area 30 from "Industrial" ("I") to "Residential (Group A)11" ("R(A)11") with stipulation of building height restriction. Given the proximity of the site at Choi Shun Street to the MTR East Rail Line ("EAL") and Sheung Shui Ventilation Building ("SSV"), noise from train and fixed plant operations could be of concern to the future occupants.

We noted from the concerned OZP documents that the rezoning site at Choi Shun Street, Sheung Shui Area 30 will be allocated for public housing development. Preliminary Environmental Review ("PER") has been conducted as part of the Engineering Feasibility Study for the development site. We noticed from the PER and the layout plans in the relevant RNTPC Paper that single aspect building design and fixed windows have been recommended for implementation at the residential blocks close to the railway and SSV to meet the statutory noise limit. We wish to caution that the proposed development can be sensitive to air-borne noise from EAL especially the noise emitted from the nearby rail crossings, and the operational noise from the louvres of SSV. The future Environmental Assessment Study to be conducted by Hong Kong Housing Authority ("HKHA") at the detailed design stage should take into account and address any air-borne noise issue from EAL and SSV, and implement all necessary noise mitigation measures at the development to ensure full compliance with statutory requirements.



Page 1 of 2

MTR Headquarters Building, Telford Plaza, Kowloon Bay, Kowloon, Hong Kong. GPO Box 9916, Hong Kong Tel (852) 2993 2111 Fax (852) 2798 8822 香港九龍灣德福廣場港鐵總部大樓 香港郵政總局信箱9916號 電話 (852) 2993 2111 傳真 (852) 2798 8822

16

MTR Corporation Limited 香港鐵路有限公司 www.mtr.com.hk



We respectfully urge Town Planning Board to give due consideration to our concern and impose related development requirements through Planning Briefs, statutory plans and/or land administration documents. HKHA should also ensure that the future residents of the development will not be exposed to noise impacts exceeding relevant noise limits by implementing adequate noise mitigation measures at their own cost and to the satisfaction of the EPD.

Thank you for your attention. Should you have any queries, please feel free to contact our Acting Lead Environmental Manager, Ms. Catherine Leung at

Yours faithfully,

Chan Hing Keung General Manager – Engineering & Innovation Centre

c.c Mr. TSANG Sai Wing, Terence

Mr. LEE Chee Kwan

Assistant Director of EPD (Environmental Assessment)

Principal Environmental Protection Officer (Assessment & Noise)

Page 2 of 2

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表格,填寫的資料宜中英文兼備。 倘若未能提供所需資料,則委員會可把有關申述視為不曾提出論。

 Person Making this Representation (known as "Representer" hereafter) 提出此宗申述的人士 (下稱「申述人」)

Full Name 姓名 / 名稱 (Mr. /Ms./Company/Organisation\* <u>先生/女士/公</u>司/機構\*)

MTR Corporation Ltd

(Note: for submission by person, full name shown on Hong Kong Identity Card/Passport must be provided) (注意: 若個人提交,須填上與香港身份證/護照所載的全名)

### 2. Authorised Agent (if applicable) 獲授權代理人(如適用)

Full Name 姓名 / 名稱 (Mr./ Ms./Company/Organisation\* 先生/女士/公司/機構\*)

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### 3. Details of the Representation 申述詳情

Draft plan to which the representation relates (please specify the name and number of the draft plan) 與申述相關的草圖 (請註明草圖名稱及編號)

S/FSS/25

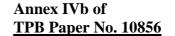
\* Delete as appropriate 請刪去不適用者

Please fill in "NA" for not applicable item 請在不適用的項目填寫「 不適用 」

申述詳情(續)(如有需要,請另頁說明) <sup>#</sup> Nature of and reasons for the representation 申述的性質及理由			
Subject matters 有關事項 <sup>@</sup>	Are you supporting or opposing the subject matter? 你支持還是反對有關事項?		
	□ support 支持 □ oppose 反對		
	<ul> <li>support 支持</li> <li>oppose 反對</li> </ul>		
	□ support 支持 □ oppose 反對		
甘草圖是否有任何擬議修訂?	he draft plan? If yes, please spe 如有的話,請註明詳情。 chment (Our ref: T&ESD/E&IC/		

90 copies (or 40 nard copies and 50 soft copies) or such information shall be provided. 若申述附有支持其論點的補充資料(例如彩色及/或大尺寸的圖則、規劃研究及技術評估),則須提供 90 份複本(或 40 份印文本和 50 份電子複本)。

50 份電子 (2本)。 @ Please describe the particular matter in the plan to which the representation relates. Where the representation relates to an amendment to a plan, please specify the amendment item number provided in the Schedule of Proposed Amendments.請形容圖則內與申述有關的指定事 項,如申述與圖則的修訂有關,請註明在修訂項目附表內的修訂項目編號。 Please fill "NA" for not applicable item 請在不適用的項目填寫「 不適用 」 ☑ at the appropriate box 請在適當的方格內加上 ☑ 號



T

**C1** 

就草圖的申述提出意見 Comment on Representation Relating to Draft Plan

参考編號 Reference Number:

 $\mathbf{C}$ 

220331-005730-75661

提交限期 Deadline for submission:

提交日期及時間

31/03/2022 00:57:30

01/04/2022

「提意見人」全名 Full Name of "Commenter":

Date and time of submission:

先生 Mr. 簡違和

「獲授權代理人」全名 Full Name of "Authorized Agent":

與意見相關的草圖 Draft plan to which the comment relates: S/FSS/25

## 意見詳情

**Details of the Comments:** 

		· · · · · · · · · · · · · · · · · · ·
	申述編號	意見詳情
	<b>Representation No:</b>	Details of Comments:
	No. S/FSS/25	本人在此對No. S/FSS/25的修訂項目C1表示反對。原因是本人的祖先 墳墓位於上述發展計劃的範圍內。祖先的墳墓已接近兩百年的歷史, 為免破壞祖先的安寧和後代的風水,本人對No. S/FSS/25的修訂項目C 1表示反對。檔案編號: DLON 1/27/22 (G1)
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FANLING/SHUENG SHUI OZP NO. S/FSS/25 01/04/2022 22:03

From: To: File Ref:

tpbpd <tpbpd@pland.gov.hk>

Dear Town Planning Board Members,

That the administration is proposing to truncate the role of the community in the town planning process is absolutely shocking. Often the first inkling local residents have of planned changes to their community is the posting of the relevant notices at the site.

The current dual system provides the opportunity for members of the community to gain fresh insight into issues that are not included in the papers. For example R11 provided background information on the impact on Tai Tau Leng Village. This detail could only be provided by someone very familiar with conditions in the locality. The information is set put in a very concise manner.

Strong objections to the implied threat of legal action in the submission of R1, intended to influence the discourse. We learn that the site is operated by Park'n'Rob (Cheung Kong), one of the twins in the supermarket monopoly that has been ripping off the community for decades. In line with its other applications to profit from the unfortunate trend of housing as an investment vehicle, it is demanding that Item D4 be rezoned to residential not business use.

No mention of how many workers would lose their jobs, and that the rezoning would not provide alternative employment for local residents.

No wonder the planning process takes so long when developers provide 200+ pages of often repetitive data to justify their proposals. Of course members do not read through as one rarely hears questions raised about the content.

In fact the reasoning behind the OZP is flawed. Hong Kong is facing a decline in population. The mainland ditto. Interest rates are rising the China government has launched a new policy that housing is for living in. The measures introduced have already had a significant impact on the housing market over the border and this will in due course and impact the local market.

We are now facing a housing glut but instead of recognizing this fact, the administration is forging ahead with its flawed policies. Anyone who follows the trends can see that rents are falling and there is a glut of empty units. Some years ago a vacancy tax was proposed to in order to address the then estimated 200,000 empty units. With both local and expat families leaving Hong Kong in droves, this number has certainly increased. Instead of building even more units, the focus should now be on assisting families of limited means to upgrade their quarters. This

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could be achieved via allowances and would be financially a far more prudent approach than turning every inch of space into concrete towers.

While the Chair will remind members to focus on the facts, it is the duty of members to consider the long term implications of the decisions made by the board.

Mary Mulvihill

cultivation and other agricultural purposes. The current "AGR" zone for the site is considered appropriate and there are no strong justifications in the application to justify changes to the zoning;

- (b) the applicant fails to demonstrate that the road access, traffic impact and crowd management issues associated with the proposed columbarium development could be satisfactorily addressed; and
- (c) the applicant fails to demonstrate that the columbarium development under the rezoning application would not pose adverse landscape and ecological impacts on the surrounding area and affect the management of the nearby Tai Lam Country Park."

## Agenda Item 9

[Open Meeting]

Proposed Amendments to the Approved Fanling/Sheung Shui Outline Zoning Plan No. S/FSS/24

(RNTPC Paper No. 9/21)

38. The Secretary reported that the proposed amendments mainly involved various public housing developments to be developed by the Hong Kong Housing Authority (HKHA), which were supported by two Engineering Feasibility Studies conducted by the Civil Engineering and Development Department (CEDD) with WSP (Asia) Limited (WSP) and AECOM Asia Company Limited (AECOM) as two of the consultants, and two sites for committed/approved commercial developments with Institute of Future Cities of the Chinese University of Hong Kong (CUHK) as the consultant for conducting technical assessments in support of the rezoning proposals. The following Members had declared interests on the item:

Mr Paul Y.K. Au-being a representative of the Director of(as Chief EngineerHome Affairs who was a member of the(Works), Home AffairsStrategic Planning Committee and the

Department)		Subsidised Housing Committee of HKHA;
Dr C.H. Hau	-	currently conducting contract research project with CEDD and having past business dealings with AECOM;
Mr Y.S. Wong	-	being a member of the Funds Management Sub-committee of HKHA;
Dr Conrad T.C. Wong	-	having current business dealings with HKHA and CUHK;
Mr K.K. Cheung	-	his firm having current business dealings with HKHA, WSP and AECOM; and
Mr L.T. Kwok	-	his serving organisation operating a social service team which was supported by HKHA and had openly bid funding from HKHA.

39. The Committee noted that according to the procedure and practice adopted by the the Board, as the proposed amendments relating to public housing developments were the subject of amendments to the Outline Zoning Plan (OZP) proposed by the Planning Department (PlanD), the interests of Members in relation to HKHA on the item only needed to be recorded and they could stay in the meeting. As Mr K.K. Cheung, Dr C.H. Hau and Dr Conrad T.C. Wong had no involvement in relation to the proposed amendment items, the Committee agreed that they could stay in the meeting.

#### Presentation and Question Sessions

40. The following government representatives and the consultants were invited to the meeting at this point:

 PlanD

 Mr Anthony K.O. Luk
 District Planning Officer/Fanling, Sheung Shui

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		and Yuen Long East (DPO/FSYLE)
Mr Patrick M.Y. Fung	-	Senior Town Planner/Fanling, Sheung Shui and Yuen Long East (STP/FSYLE)
Ms Lily H. Lau	-	Assistant Town Planner/Fanling, Sheung Shui and Yuen Long East
CEDD		
<u>CEDD</u> Mr K.H. Tao	-	Project Team Leader/Project
Mr F.S. Sit	-	Chief Engineer/Housing Projects 3
Mr Stephen Wat	-	Senior Engineer 2/Project
Mr Terry Kea	-	Senior Engineer 5/Project
Mr Patrick Yeung	-	Senior Engineer 4/Housing Projects 3
Mr Simon Wong	-	Engineer 3/Project
Mr Kevin Leung	-	Engineer 4/Project
Mr Melvin Lam	-	Engineer 9/Housing Projects 3
Housing Department (HD) Ms Alice Lo	-	Senior Planning Officer 2
Transport Department		
Mr Michael Cheung	-	Engineer/North 2
Atkins China Limited		
Mr Sean Wong	-	Technical Director

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Mr Jacky Yeung	-	Senior Associate Director
Ms Macy Kwong	-	Senior Engineer
WSP		
Mr Stephen Ho	-	Associate Director
Mr Derek Lam	-	Associate Director
Mr Ernest Tip	-	Associate Director
<u>AECOM</u>		
Mr Colin Kwok	-	Associate

With the aid of a Powerpoint presentation, Mr Patrick M.Y. Fung, STP/FSYLE, 41. briefed Members on the background, the rezoning proposals which were mainly to take forward the proposed public housing development under the Government's policy directives to increase housing land supply at various sites in Fanling and Sheung Shui and the latest area assessments of industrial land, the technical considerations, provision of Government, institution and community (GIC) facilities and open space in the area, consultations conducted and departmental comments as detailed in the Paper. Amendment Items A1 to A3 involved rezoning proposals for public and private housing developments at three sites in Fanling Area 17. Amendment Item B involved a rezoning proposal for public housing development at a site on Ching Hiu Road. Amendment Items C1 to C2 involved rezoning proposals for public housing development at a site near Tai Tau Leng together with a technical amendment for an area shown as 'Road'. Amendment Items D1 to D2 involved rezoning proposals for public housing development and a proposed primary school at a site on Choi Shun Street with technical amendment to reflect the existing Sheung Shui Ambulance Depot, Sheung Shui Ventilation Building and Dongjiang Watermains. Amendment Items D3 and D4 involved rezoning proposals for three industrial buildings (IBs) in Sheung Shui Area 30 and six IBs in Sheung Shui Area 4 to take forward the rezoning proposals recommended under the latest area assessments of industrial land.

42. As the presentation by PlanD's representative had been completed, the Chairman

invited questions from Members.

43. The Chairman and some Members raised the following questions:

#### GIC facilities

- (a) whether the actual provision of GIC facilities would be subject to confirmation by relevant Government departments at the detailed design stage;
- (b) noting the ageing population and low demand for schools in recent years, whether there was a genuine need for a primary school proposed under Amendment Item D2;

#### Proposed housing developments

(c) whether the proposed domestic plot ratios (PRs) for public and private housing developments (i.e. 6.5 and 6 respectively) were comparable with the development intensity of other housing developments in the area;

#### Impacts on "Green Belt" ("GB") zones and ecology

- (d) the loss of "GB" zones arising from the proposed amendments;
- (e) potential impacts on the ecology of Long Valley; and

#### Traffic improvement works

(f) noting that the District Council and Rural Committee members had raised concerns on the potential traffic impacts brought by the proposed developments, what the details of the proposed traffic improvement works were.

44. In response, Mr Anthony K.O. Luk, DPO/FSYLE, PlanD, and Mr K.H. Tao, Project Team Leader/Project, CEDD, made the following main points:

#### **GIC** facilities

- (a) gross floor area (GFA) equivalent to about 5% of the domestic GFA of the four proposed public housing developments respectively, which would be exempted from PR calculation, would be reserved for the provision of social welfare facilities, including elderly, child care and rehabilitation services. The location, type and actual provision of social welfare facilities would be subject to the advice from the Social Welfare Department and HD at the detailed design stage;
- (b) the primary school was proposed as a result of liaison with the Education Bureau (EDB). EDB considered that a primary school site should be reserved in the vicinity of the site under Amendment Item D2 to meet the local demand arising from the proposed housing developments as well as other demand of Fanling/Sheung Shui New Town. PlanD would continue to liaise with EDB to update the supply and demand of primary schools in the area;

#### Proposed housing developments

(c) the domestic PR of the major housing developments in the surrounding area was around 5 which was used to be the maximum PR with reference to the Hong Kong Planning Standards and Guidelines for the development of the new town. In view of the increasing acute demand for public housing, the Executive Council agreed in December 2018 to allow further increase of domestic PR for public housing sites up to 6.5 where technically feasible. The current proposed amendments to the OZP involved one public housing site and two private housing sites in Fanling (Items A1 to A3) and three public housing sites in Sheung Shui (Items B, C1 and D1), with domestic PR of 6.5 (for public housing sites) or 6.0 (for private housing sites) were in line with the above policy directives;

#### Impacts on "GB" zones and ecology

- (d) only Amendment Items B and C would involve "GB" zones and these
   "GB" sites were already formed for open air temporary carpark and open storage uses respectively;
- Long Valley was located about 260m from the sites in relation to (e) Amendment Items D1 to D2 and was the only site of recognised ecological/conservation interest within the assessment area of ecological impact (i.e. 500m from the development sites). Long Valley would not be directly or indirectly affected by the proposed developments as the most significant waterbird flight-line was northwards along Ng Tung River/Shek Sheung River to Shenzhen River and Deep Bay, which was unlikely to be affected by the proposed developments situated to the east of Long Valley. Whilst disturbance arising from lighting and associated glare at the development sites during the night time might affect some nocturnal birds such as nightjars and owls, PlanD would liaise with HD to adopt mitigation measures such as appropriate glass and façade treatments, as proposed under the ecological impact assessment, to minimise the impacts on Long Valley during the detailed design stage; and

#### Traffic improvement works

(f) apart from the major traffic infrastructures including construction of Fanling Bypass, Po Shek Wu Road Flyover and North-South Link to divert inter-district traffic from infiltrating into the new town centre, and to alleviate the traffic congestion at the two major roundabouts (i.e. Po Shek Wu Road Interchange and So Kwun Po Interchange), local road widening and improvement works to major critical road junctions were proposed for meeting the traffic needs arising from the future developments, including those under the current OZP amendments, in the North District.

45. Members had no question regarding other proposed amendments to the OZP and generally considered that they were acceptable.

46. After deliberation, the Committee decided to:

> agree to the proposed amendments to the approved Fanling/Sheung Shui (a) OZP No. S/FSS/24 and that the draft Fanling/Sheung Shui OZP No. S/FSS/24A at Attachment II of the Paper (to be renumbered to S/FSS/25 upon exhibition) and its Notes at Attachment III were suitable for exhibition under section 5 of the Town Planning Ordinance; and

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(b) adopt the revised Explanatory Statement (ES) at Attachment IV of the Paper for the draft Fanling/Sheung Shui OZP No. S/FSS/25A as an expression of the planning intentions and objectives of the Board for various land use zonings of the OZP and the revised ES would be published together with the OZP.

47. Members noted that, as a general practice, the Secretariat of the Board would undertake detailed checking and refinement of the draft OZP including the Notes and ES, if appropriate, before their publication under the Town Planning Ordinance. Any major revision would be submitted for the Board's consideration.

[The Chairman thanked the government representatives and the consultants for their attendance to answer Members' enquiries. They left the meeting at this point.]

[Dr Conrad T.C. Wong left the meeting at this point.]

## Sha Tin, Tai Po and North District

## Agenda Item 10

[Open Meeting]

48.

Proposed Amendments to the Approved Lung Yeuk Tau & Kwan Tei South Outline Zoning Plan No. S/NE-LYT/17 and Approved Hok Tau Outline Zoning Plan No. S/NE-HT/5 (RNTPC Paper No. 10/21)

The Secretary reported that the proposed amendments mainly involved a site for

### Annex VI of TPB Paper No. 10856 負責人

規劃署

見。就提供原區安置數據一事,由於現有的統計數據中沒有備存 有關資料,因此未能提供給議員參考。)

**39**. <u>朱霞芬女士</u>表示,規劃署將於會後檢視由主席提出在龍山 隧道迴旋處增設轉乘站的建議,並會以書面回覆。

40. <u>主席</u>補充,他曾在前交運會於 2020 年 11 月 9 日舉行的第 六次會議上提出於沙頭角公路轉入簡頭村位置增設右轉袋口位的 要求(委員會文件第 106/2020 號),並認為該提案有助政府部門進 行交通規劃。按目前的交通安排,日後將有四條巴士路線經龍山隧 道前往市區,途中需經沙頭角公路馬尾下段,一旦巴士停站,便會 影響簡頭村居民出入,出現車流倒灌的情況。因此,他當時建議在 該處增設右轉袋口位以疏導車流,惟運輸署沒有正面回應,並指根 據數據而不會採納其意見。他指署方根據現時的人口數據固然不 需增設右轉袋口位,但以日後的三萬人口來計算,結果截然不同。 他指剛才規劃署代表鏗鏘有力地提倡「四新精神」,基建先行,惟 實際上卻不重視增設路口位等微小改善,與其提倡的精神相違背, 希望相關部門跟進情況。

41. <u>朱霞芬女士</u>回應指,署方並無違背「四新精神」。由於皇后 山擴展用地發展的交通影響評估(TIA)沒有建議在沙頭角公路轉 入簡頭村的位置增設右轉袋口位,故運輸署會視乎該處的交通流 量,考慮是否採納主席的建議。她強調,北部都會區即將會有不同 發展,政府會秉承「四新精神」,更新有關數據以配合最新的發展。 政府除了檢視簡頭村目前的發展,亦會檢視其週邊配套,以作整全 的發展。

42. <u>主席</u>樂見規劃署的回應,但紙上談兵不能解決問題,故邀 請規劃署與土拓署在皇后山邨入伙後於早上7時跟他到簡頭村村 」進行視察,既可貫徹政府的觀念,亦更為「貼地」。

# <u>第3項</u>——<u>擬議修訂《粉嶺/上水分區計劃大綱核准圖編號</u> <u>S/FSS/24》</u>

(北區區議會文件第 45/2021 號)

43. <u>主席</u>歡迎規劃署粉嶺、上水及元朗東規劃專員陸國安先生、 沙田、大埔及北區規劃專員朱霞芬女士、高級城市規劃師/粉嶺上 水1馮武揚先生、助理城市規劃師/粉嶺上水2 劉涵女士、土拓 署工程項目組長/工程項目杜琪鏗先生、總工程師/房屋工程3薛 鳳聲先生、高級工程師 2/工程項目滑維青先生、高級工程師 5/ 工程項目祁德禮先生、高級工程師 4/房屋工程 3 楊志遠先生、房 屋署高級規劃師(2)盧穎儀女士及運輸署工程師/北區 2 張劍虹先 生出席會議。他表示,部門代表會使用投影片作介紹,秘書處昨日 已把有關投影片以電郵分發給各位議員,以便閱覽。

44. <u>陸國安先生</u>感謝區議會給予機會,讓規劃署於今天介紹粉 嶺/上水分區計劃大綱圖的修訂。是次修訂有四組修訂項目,主要 規劃作房屋發展,而大部分修訂均為公屋項目。首先,他會請同事 簡介有關修訂項目,然後聽取議員意見,出席的政府代表會盡力解 答。

45. <u>馮武揚先生</u>以投影片介紹北區區議會文件第 45/2021 號, 有關投影片載於附件二。

46. <u>張浚偉議員</u>表示,粉嶺第17區的房屋發展項目設有公共運 輸交匯處,預計會有新的巴士線,並設有巴士停泊設施等硬件配 套。軟件方面,區議會一直討論巴士南北走線方案,希望可加入此 項發展計劃,以「上水車上水出、粉嶺車粉嶺出」為原則,令由粉 嶺開出的巴士無須途徑上水前往高速公路。巴士公司一直指客源 不足,因而必須途徑上水及粉嶺,但如此路線安排會浪費居民的時 間,亦會造成交通擠塞。既然皇后山邨會新增三萬多人口,加上其 他新房屋發展項目,巴士公司無須再擔心客源問題。他希望規劃署 及運輸署可在此加入南北走線方案,滿足市民的期望,令巴士無須 再浪費時間而可直達市區,故他建議規劃署及運輸署可向巴士公 司施予壓力,盡快落實南北走線方案。

47. <u>温和達議員</u>表示,早前曾建議康樂及文化事務署(下稱「康 文署」)申請鄉郊地區用地,以興建大型體育設施,如體育大樓及 室內泳池等。因為上水鄉郊、沙頭角、打鼓嶺等地將有不少新的公 共屋邨、大型屋苑落成,而鄉郊有大量土地可作規劃。他認為康樂 用地不應全指望粉嶺及上水市區,而且即使在粉嶺及上水市區興 建游泳池,亦未能方便使用者,因其要花不少交通時間前往該等設 施,亦不符合北部都會區的規劃,故希望能在鄉郊地區增加康體用 地,令鄉郊地區更適合居住,並可推廣運動普及化。

48. <u>周錦豪議員</u>表示,剛才主席有提及現時北區的康體設施不符比例,希望規劃中可以向現時及將來新增的北區居民提供更多資源,令他們不用長時間輪候使用區內的康體設施。夏季時不少居

民抱怨要輪候長達一至兩個小時方可使用上水或粉嶺游泳池,故 希望可增加不同類型的康體設施。至於鐵路的載客量問題,他指出 東鐵綫由十二卡車轉成九卡車,他已接獲不少居民投訴未能上車 或令其候車時間大增,車廂內的擠迫情況亦更為嚴重。施政報告中 北部都會區規劃包括北環線東延,即將會有更多人使用鐵路出行, 加上東鐵綫使用九卡車,可以預想未來東鐵綫的客流定會嚴重「爆 煲」。他詢問有關部門會否與港鐵公司就上述問題的改善措施有更 多溝通。他指出,早前港鐵代表在交運會的會議上表示,希望乘客 可以循北環線古洞方向再經新的新界西鐵路前往港島或九龍一 帶,以作分流。但當北環線東延線完成後,他認為分流作用已失 效,因為客觀而言由安樂村前往港鐵粉嶺站轉乘必然比經由新界 西方便。他希望署方在此問題上有更多考量,因為擬議房屋發展計 劃涉及四萬多人口,配合北部都會區以及《香港 2030+:跨越 2030 年的規劃遠景與策略》(下稱《香港 2030+》)等發展,預計將會有 數以十萬計的人口增長。

49. <u>主席</u>認為温和達議員提及的康體設施是務實的意見,尤其 香港未來會舉辦全國運動會,北部都會區可在此事上有角色擔當, 例如部分賽事可於北部都會區進行,這亦自然要視乎基建配套能 否配合。至於人口增長問題,他表示在仔細計算下增長數字驚人, 北區區議會文件第45/2021號第2.2段中只列出了總伙數,各項加 起來是公營房屋有40950人,私人住宅則有4320人,即合共有 四萬多人的增長,加上剛才討論的皇后山第二期有11000人,共 有五萬多人,但在基建配套方面沒有看到「四新精神」,並無突破。 他指出粉嶺北新發展區計劃的人口達78000人,政府亦收回不少 土地,並花數百億興建粉嶺繞道東段,重置北區批發市場,但即使 兩個修改大綱項目合共所牽涉的人口達五萬人,卻是「零配套」。 而特首在施政報告亦有提及北部都會區是近半年來與深圳討論的 成果,原先計劃時未有考慮北部都會區,他質疑如果沒有北部都會 區發展,署方根本不會在基建方面有任何革新。

- 50. <u>主席</u>續指現時配套有以下兩大問題:
  - (a) 芬園警察訓練學校(即粉嶺第17區位置)的中心點在粉嶺圍 對面,與港鐵上水站及粉嶺站都有一段距離,只能依賴巴 士接駁。但該處連接雞嶺迴旋處,而現時雞嶺迴旋處的交 通狀況大家有目共睹,加上在北區政府合署附近香港房屋 協會(下稱「房協」)同樣有一個房屋發展項目,要思考完成

房屋發展後應如何疏導車流。整條馬會道交通燈口數量較 多,如按照現時雙線行車,則不可能疏導車流,尤其芬園將 有23000多人。皇后山公屋的三萬多人可採用粉嶺繞道東 段及龍山隧道作疏導。但芬園位於粉嶺公路入口,預計車 流大增,加上北環線東延線只到安樂村,距離芬園位置頗 遠,認為沒有可能在無任何交通配套改善下便執行此項目; 以及

(b)有關上水清曉路項目,前清河邨區議員袁浩倫先生曾在區 議會會議上就該區商業設施提出不少提案。現時清河邨發 展至二期,惟商業設施少得可憐,只有十間以內餐廳,導致 只能在屋邨籃球場舉辦墟市。現時清曉路再有房屋發展, 未來附近的粉嶺高爾夫球場亦會有公營房屋發展。他指出, 以往上水石湖墟水貨林立,但即使現時未通關,周末上水 匯、上水廣場等也人潮如湧。未來清曉路再有數千人口增 長,加上原有清河邨居民,商業設施不足以應付未來的人 口增長。現時清曉路項目只有社區設施而沒有商業設施, 他建議可採用「一地多用」的原則,在停車場地上或地下發 展,可參考日本建造地下街或港鐵尖東站地下等類似方案。

51. <u>主席</u>又指,文件中的四個房屋發展項目看似分散在不同地點,實質北區屬一個整體,發展項目所帶來的人流亦會前往聯和墟 及石湖墟。雖然聯和墟將來有行人天橋作疏導,但石湖墟仍未有任 何計劃,大家可見每天石湖墟交通擠塞的情況,卻仍是處於「零處 理」的狀態,希望部門代表可回應上述問題。

- 52. 陸國安先生對各議員的提問及意見有以下綜合回應:
  - (a) 就巴士南北走線方面,預計會在芬園設有新的交通交匯處, 屆時將有新的公共交通安排。至於能否做到張議員建議的 南北走線方案,相信運輸署會因應當時人口再作考慮,議 員及有關部門可在交運會上繼續監察及回應,稍後請運輸 署代表就此補充;
  - (b) 有關康體設施,《規劃標準》有人口基數指標,如人口超過 某項基數便需要提供某類設施。以游泳池為例,人口基數 相對較大。現時上水游泳池正進行擴建工程,難免有鄉郊 市民要前往上水市中心才可游泳。北部都會區文件中有提 醒部門進行超前規劃,不可只參考《規劃標準》。署方會參

考温議員的意見,考慮北區整體有否地方可提供更多康體 用地,令市民不用花太多交通時間去使用康體設施;

- (c) 至於鐵路九卡車問題,相關部門及鐵路公司已在區議會會 議上解釋,由十二卡車轉為九卡車後如何維持整個鐵路系統的運載力,例如縮短班次之間的頻率。至於南北走向策 略性鐵路或道路方面,政府會進行研究。他又指,政府曾提 出隨著《香港 2030+》規劃情況,會再規劃相對應的 2030 年後的鐵路及道路運輸系統,以考慮如何配合整個北部都 會區及日後的人口增長,並考慮是否需要建設策略性鐵路 或道路網絡,政府會繼續跟進;
- (d) 人口增長方面,每次署方進行新的房屋規劃時,均會評估 社區設施是否足夠,而這四個房屋項目中已經包括部分社 區設施,特別是服務弱勢社群、長者、有特殊需要的小朋友 及殘疾人士等的設施;
- (e)芬園距離鐵路站較遠。在現時計劃中,芬園將設有公共交 通交匯處及新增的公共交通設施,而實際上如何連繫鐵路 站亦是署方關注之處。現時方案包括加設行人天橋橫越馬 會道,貫穿日後房協的住宅項目,再經日後的新界東文化 中心旁前往港鐵粉嶺站,日後有更詳細的建議會再向區議 會詳細講解;以及
- (f) 清曉路項目較少商業設施的問題,當局隨後會就清河邨第 四期詳細設計,審視是否能增加商業或零售的配套設施, 滿足居民所需。

53. <u>陸國安先生</u>續指,整體的交通及配套設施可滿足這四個住 宅項目的人口增長,規劃署願意日後繼續與區議會合作溝通,並肩 同行。

54. <u>冼佳慧女士</u>表示,就巴士路線走線方面,她明白議員指出 現時部分巴士路線比較迂迴。不同巴士路線有不同角色,例如循環 線、區內線要接載乘客前往區內不同地方,因此會有較多上落客 點,亦有部分特快路線只有數個站點便會前往外區。運輸署明白議 員意見,亦理解作為乘客皆希望能盡快前往目的地。署方會因應地 區人口發展、預計客量及基建設施,適時檢討巴士路線走線安排。 55. <u>主席</u>總結,希望各負責規劃的部門盡量考慮議員今天提出 的意見,無論是此項議程的四個房屋發展項目或皇后山房屋發展 項目,都應以人民利益為依歸。

## 第4項——區議會撥款申請

(撥款申請見北區區議會文件第 46/2021 號) (團體過往推行活動的記錄見北區區議會文件第 47/2021 號)

56. <u>主席</u>表示,北區區議會文件第 46/2021 號詳列了 6 項區 議會撥款申請,包括 3 項社區參與計劃撥款申請、3 項地區小 型工程計劃撥款申請,以及 1 項地區小型工程的修訂預算申 請。秘書處已把申請團體過往推行活動的記錄,整理成北區區 議會文件第 47/2021 號,供議員考慮申請者過往推行活動的記 錄是否良好,以評審個別申請。

57. 在審批撥款申請前,<u>主席</u>詢問有否議員需要申報利益。 沒有議員作出申報。

58. <u>主席</u>詢問議員對上述 6 項撥款申請及 1 項修訂預算申請 有否意見。沒有議員提出問題或意見。

59. <u>大會</u>通過北區區議會文件第 46/2021 號的區議會撥款申請及修訂預算申請。

<u>第5項</u>——<u>北區地政處處理小型屋宇申請及處理重建新界豁免屋</u> <u>宇申請績效表</u>

(北區區議會文件第 48/2021 號)

60. <u>大會</u>備悉北區區議會文件第 48/2021 號。

<u>第6項</u>——宣傳工作小組報告

(北區區議會文件第 49/2021 號)

61, <u>大會</u>備悉北區區議會文件第 49/2021 號。

## <u>Provision of Open Space and Major Community Facilities</u> <u>in Fanling/Sheung Shui New Town</u> (Including Fanling/Sheung Shui Extension Area)

	Hong Kong Planning	HKPSG Requirement	Pro	vision	Surplus/ Shortfall
Type of Facilities	Standards and Guidelines (HKPSG)	(based on planned population)	Existing Provision	Planned Provision (including existing provision)	(against planned provision)
District Open Space	10 ha. per 100,000 persons <sup>1</sup>	36.05 ha	19.48 ha	28.65 ha	- 7.39 ha
Local Open Space	10 ha. per 100,000 persons <sup>1</sup>	36.05 ha	49.08 ha	66.96 ha	+ 30.92 ha
Secondary School	1 whole-day classroom for 40 persons aged 12-17	441 classrooms	582 classrooms	582 classrooms	+ 141 classrooms
Primary School	1 whole-day classroom for 25.5 persons aged 6-11	590 classrooms	649 classrooms	853 classrooms	+ 263 classrooms
Kindergarten/ Nursery	34 classrooms for 1,000 children aged of 3 to under 6	200 classrooms	241 classrooms	306 classrooms	+ 106 classrooms
District Police Station	1 per 200,000- 500,000 persons	0	0	0	0
Divisional Police Station	1 per 100,000- 200,000 persons	1	1	1	0
Hospital	5.5 beds per 1,000 persons	2,028 beds	658 beds	2,158 beds	+130 <sup>2</sup> beds
Clinic/Health Centre	1 per 100,000 persons	3	2	3	0

	Hong Kong Planning	HKPSG Requirement	Pro	vision	Surplus/ Shortfall
Type of Facilities	Standards and Guidelines (HKPSG)	(based on planned population)	Existing Provision	Planned Provision (including existing provision)	(against planned provision)
Magistracy (with 8 courtrooms)	1 per 660,000 persons	0	1	1	+ 1
Child Care Centre	100 aided places per 25,000 persons <sup>1</sup>	1,441 places	420 places	576 places	- 865 <sup>3</sup> places
Integrated Children and Youth Services Centre	$\begin{array}{c} 1 \text{ for } 12,000 \\ \text{persons aged} \\ 6-24^{1} \end{array}$	4	7	7	+ 3
District Elderly Community (DEC) Centres	1 for 170,000 persons in each new development area <sup>1</sup>	N.A.	1	1	N.A. <sup>4</sup>
Neighbourhood Elderly Centres (NEC)	1 for 15,000 to 20,000 persons in a cluster of new and redeveloped housing areas <sup>1</sup>	N.A.	5	11	N.A. <sup>5</sup>
Community Care Services (CCS) Facilities	17.2 subsidised places per 1,000 elderly persons aged 65 or above <sup>1,6</sup>	1,902 places	389 places	648 places	- 1,254 <sup>3</sup> places
Residential Care Homes for the Elderly	21.3 subsidised beds per 1,000 elderly persons aged 65 or above <sup>1</sup>	2,356 beds	1,224 beds	1,944 beds	- 412 <sup>3</sup> beds
Pre-school Rehabilitation Services (PSRS)	23 subvented places per 1000 children aged 0-6	414 places	208 places	208 places	- 206 places

	Hong Kong Planning	HKPSG Requirement	Pro	Surplus/ Shortfall	
Type of Facilities	Standards and Guidelines (HKPSG)	(based on planned population)	Existing Provision	Planned Provision (including existing provision)	(against planned provision)
Day Rehabilitation Services (DRS)	23 subvented places per 10000 persons aged 15 or above	708 places	130 places	610 places	- 98 <sup>3</sup> places
Residential Care Services (RCS)	36 subvented places per 10000 persons aged 15 or above	1,108 places	279 places	849 Places	- 259 <sup>3</sup> places
Community Rehabilitation Day Centre (CRDC)	1 centre per 420000 persons	0	0	0	0
District Support Centre for Persons with Disabilities (DSC)	1 centre per 280000 persons	1	1	1	0
Integrated Community Centre for Mental Wellness (ICCMW)	1 standard scale centre per 310000 persons	1	1	1	0
Integrated Family Services Centre	1 per 100,000 to 150,000 persons <sup>1</sup>	2	3	3	+ 1
Library	1 district library for every 200,000 persons	1	3	3	+ 2
Sports Centre	1 per 50,000 to 65,000 persons <sup>1</sup>	5	5	5	0

	Hong Kong Planning	HKPSG Requirement	Provision		Surplus/ Shortfall
Type of Facilities	Standards and Guidelines (HKPSG)	(based on planned population)	Existing Provision	Planned Provision (including existing provision)	(against planned provision)
Sports Ground/ Sports Complex	1 per 200,000 to 250,000 persons <sup>1</sup>	1	1	1	0
Swimming Pool Complex - standard	1 complex per 287,000 persons <sup>1</sup>	1	1	1	0

Notes:

The planned population of the Fanling/Sheung Shui New Town (including Fanling/Sheung Shui Extension Area) would be about 368,700 persons. If excluding transients, the overall planned population is about 360,500. All population figures have been adjusted to the nearest hundred.

- 1. The requirements excluded planned population of transients.
- 2. The provision of hospital beds would be monitored and addressed by the Hospital Authority on a regional basis.
- 3. This is a long-term goal and the actual provision would be subject to the consideration of the Social Welfare Department in the planning and development process as appropriate.
- 4. Provision of DEC Centre is only applicable for new development area.
- 5. Provision of NEC is only applicable for clusters of new and redeveloped housing areas with 15,000 to 20,000 persons.
- 6. The planning standard of the CCS Facilities (including both centre-based and home-based) is population-based. There is no rigid distribution between centre-based CCS and home-based CCS stated in the Elderly Services Programme Plan. Nonetheless, in general, 60% of CCS demand will be provided by home-based CCS and the remaining 40% will be provided by centre-based CCS.

Annex VIII of <u>TPB Paper No. 10856</u>

# Provision of Major Community Facilities and Open Space in North District

	Hong Kong Planning	HKPSG Requirement	Pro	Surplus/ Shortfall	
Type of Facilities	Standards and Guidelines (HKPSG)	s (based on s planned	Existing Provision	Planned Provision (including existing provision)	(against planned provision)
District Open Space	10 ha. per 100,000 persons <sup>1</sup>	67.88 ha	21.59 ha	66.69 ha	- 1.19 ha
Local Open Space	10 ha. per 100,000 persons <sup>1</sup>	67.88 ha	63.97 ha	110.91 ha	+ 43.03ha
Secondary School	1 whole-day classroom for 40 persons aged 12-17	839 classrooms	608 classrooms	818 classrooms	- 21 classrooms
Primary School	1 whole-day classroom for 25.5 persons aged 6-11	1,187 classrooms	770 classrooms	1,328 classrooms	+ 141 classrooms
Kindergarten/ Nursery	34 classrooms for 1,000 children aged of 3 to under 6	437 classrooms	263 classrooms	502 classrooms	+ 65 classrooms
District Police Station	1 per 200,000- 500,000 persons	1	1	2	+1
Divisional Police Station	1 per 100,000- 200,000 persons	3	3	4	+1
Magistracy (with 8 courtrooms)	1 per 660,000 persons	1	1	1	0
Hospital	5.5 beds per 1,000 persons	3,795 beds	658 beds	2,158 beds	- 1,637 <sup>2</sup> beds
Clinic/Health Centre	1 per 100,000 persons	7	4	7	0

	Hong Kong Planning	HKPSG Requirement	Pro	Provision	
Type of Facilities	Standards and Guidelines (HKPSG)	(based on planned population)	Existing Provision	Planned Provision (including existing provision)	Shortfall (against planned provision)
Child Care Centre	100 aided places per 25,000 persons <sup>1</sup>	2,715 places	457 places	1,513 places	- 1,202 <sup>3</sup> places
Integrated Children and Youth Services Centre	1 for 12,000 persons aged 6-24 <sup>1</sup>	9	7	7	- 2 <sup>3</sup>
District Elderly Community (DEC) Centre	1 for 170,000 persons in each new development area <sup>1</sup>	N.A	1	2	N.A <sup>4</sup>
Neighbourhood Elderly Centre (NEC)	1 for 15,000 to 20,000 persons in a cluster of new and redeveloped housing areas	N.A.	5	18	N.A. <sup>5</sup>
Community Care Services (CCS) Facilities	17.2 subsidised places per 1,000 elderly persons aged 65 or above <sup>1,6</sup>	3,245 places	468 places	1,328 places	- 1,917 <sup>3</sup> places
Residential Care Homes for the Elderly	21.3 subsidised beds per 1,000 elderly persons aged 65 or above <sup>1</sup>	4,019 beds	1,344 beds	3,848 Beds	- 171 beds
Pre-school Rehabilitation Services (PSRS)	23 subvented places per 1000 children aged 0-6	925 places	208 places	328 places	- 597 places

	Hong Kong Planning Standards and Guidelines (HKPSG)	HKPSG Requirement	Pro	Surplus/ Shortfall	
Type of Facilities		(based on planned population)	Existing Provision	Planned Provision (including existing provision)	(against planned provision)
Day Rehabilitation Services (DRS)	23 subvented places per 10000 persons aged 15 or above	1,314 places	130 places	1,160 places	- 154 places
Residential Care Services (RCS)	36 subvented places per 10000 persons aged 15 or above	2,057 places	439 places	2,159 places	+ 101 places
Community Rehabilitation Day Centre (CRDC)	1 centre per 420000 persons	1	0	1	0
District Support Centre for Persons with Disabilities (DSC)	1 centre per 280000 persons	2	1	2	0
Integrated Community Centre for Mental Wellness (ICCMW)	1 standard scale centre per 310000 persons	2	1	1	-1
Integrated Family Services Centre	1 per 100,000 to 150,000 persons <sup>1</sup>	6	3	4	+ 2
Library	1 district library for every 200,000 persons	3	4	5	+ 2
Sports Centre	1 per 50,000 to 65,000 persons <sup>1</sup>	10	5	9	-1 7
Sports Ground/ Sports Complex	1 per 200,000 to 250,000 persons <sup>1</sup>	2	1	2	0

	Hong Kong HKPSG Planning Requirement		Pro	Surplus/ Shortfall	
Type of Facilities	Standards and Guidelines (HKPSG)	(based on planned population)	Existing Provision	Planned Provision (including existing provision)	(against planned provision)
Swimming Pool Complex - standard	1 complex per 287,000 persons <sup>1</sup>	2	1	2	0

Notes:

The planned population of the North District would be about 690,200 persons. If excluding transients, the overall planned population is about 678,770. All population figures have been adjusted to the nearest hundred.

- 1. The requirements excluded planned population of transients.
- 2. A site has been reserved in Kwu Tung North (KTN) New Development Area (NDA) for development of a hospital with information on the number of bed to be determined at a later stage. The provision of hospital beds would be monitored and addressed by the Hospital Authority on a regional basis.
- 3. This is a long-term goal and the actual provision would be subject to the consideration of the Social Welfare Department in the planning and development process as appropriate.
- 4. Provision of DEC Centre is only applicable for NDA (i.e. Fanling North (FLN) and KTN NDAs in North District).
- 5. Provision of NEC is only applicable for clusters of new and redeveloped housing areas with 15,000 to 20,000 persons.
- 6. The planning standard of the CCS Facilities (including both centre-based and home-based) is population-based. There is no rigid distribution between centre-based CCS and home-based CCS stated in the Elderly Services Programme Plan. Nonetheless, in general, 60% of CCS demand will be provided by home-based CCS and the remaining 40% will be provided by centre-based CCS.
- 7. Provision of an additional sports centre will be considered in the FLN NDA development.