Appendix 10

Document Status Control Record

Application under Section 16
for Proposed Columbarium Redevelopment
at Lot 613 RP(Part), 614 & 1229 in D.D. 453
and Adjoining Government Land, Lo Wai,
Tsuen Wan

Traffic Impact Assessment Report

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INTRODUCTION

1.1 Background

- 1.1.1 With the promulgation of the Private Columbarium Ordinance, the Applicant of Lots No. 613 RP (Part), 614 and 1229 and their adjoining Government Land in DD 453 at Lo Wai Road, Tsuen Wan (hereinafter referred to "the Site") intends to regularize its existing "columbarium" use.
- 1.1.2 Lo Wai is an area with a number of existing columbaria, traffic management measures have been formulated and implemented continuously in the past and present by the Transport Department (TD) during the festival days and its shadow periods. In order not to generate additional traffic volume in Lo Wai area during the festival days and its shadow periods, the Applicant proposed to close the columbarium on these special days in the rezoning application. All visitors must make their visits only on other normal weekdays and normal weekends. The arrangement will form part of the Management Plan to be submitted to the Private Columbarium Licensing Board) ("PCLB") for long-term monitoring and enforcement purposes.
- 1.1.3 Recently, the Applicant requested the study team to design the columbarium in an innovative building form for the S16 planning application. In the new design, 4,250 niches will be provided.
- 1.1.4 LLA Consultancy Limited has been commissioned to conduct an updated traffic impact assessment (TIA) study for the S16 planning application. This TIA report presents the latest study findings.

1.2 Objectives

- 1.2.1 The objectives of this study can be summarised as follows:
 - to discuss the development content and recommend the transport facilities for the proposed development;
 - to review the latest existing traffic conditions on normal weekdays and weekends in the vicinity of the Site;
 - to assess the future traffic situation in the surrounding road network;
 - to examine the possible increase in pedestrian and vehicular traffic generation/ attraction on normal weekdays and weekends when the proposed columbarium development is fully occupied; and
 - to appraise the potential traffic impact on normal weekdays and weekends when the proposed columbarium development is fully occupied.

2 THE PROPOSED COLUMBARIUM DEVELOPMENT

2.1 Development Site

2.1.1 As shown in **Figure 2.1**, the Site is located on the western side of Lo Wai Road and is about 180m away from the main entrance of Yuen Yuen Institute.

2.2 Development Schedule

2.2.1 The proposed columbarium development comprises 4,250 niches and **Table 2.1** summarizes the latest key development parameters.

Table 2.1 Key Development Parameters

	Development Parameters	Total			
Pro	pposed No. of Columbarium Niches	Maximum 4,250			
Pro	pposed No. of Urns	Maximum 6,375			
		(2,125 niches with 1 urn/niche and 2,125 niches with 2 urns/niche)			
Pro	pposed Internal Transport Facilities				
-	Private Cars Parking Space (2.5m x 5.0m)	3			
-	Disabled Private Cars Parking Space (3.5m x 5.0m)	1			
-	Pick-up/Drop-off Lay-by (10m in length)	1			
-	Motorcycle Parking Space (1.0m x 2.4m)	3			
-	Light Goods Vehicle Loading/Unloading Bay (3.5m x 7.0m)	1			

- 2.2.2 The operating hours of the proposed columbarium development are from 09:00 to 17:30 daily (i.e. Monday to Sunday). The proposed columbarium development will not open to the public on the following days:
 - Ching Ming and Chung Yeung Festival Days
 - Two weekends, i.e. Saturday and Sunday, before and after Ching Ming Festival Days, including public holidays in between
 - Two weekends, i.e. Saturday and Sunday, before and after Chung Yeung Festival Days, including public holidays in between.

Note: the actual closure days in each year will be notified to all buyers of niches in accordance with the procedure set out in the Management Plan.

2.3 Access Arrangement

2.3.1 The Site can be reached via an access road which connects directly to Lo Wai Road. In order to cope with the future possible traffic demand on normal weekdays and weekends, it is proposed to widen the section of the access road between the Site and Lo Wai Road to a minimum of 7.3m single 2-lane carriageway with a pedestrian footpath on the southern kerbside.

2.4 Car Parking and Loading/Unloading Provisions

- 2.4.1 There is no car parking and loading/unloading provisions standard requirements with respect to the columbarium development under the present Hong Kong Planning Standards and Guidelines (HKPSG). The proposed internal transport facilities are hence provided solely to meet the operational needs.
- 2.4.2 It is proposed to provide 4 private car parking spaces. Out of the 4 private car parking spaces, 3 are 2.5m (W) \times 5.0m (L) and 1 is 3.5m (W) \times 5.0m (L) for people with disabilities. Additionally, 3 motorcycle parking spaces of 1.0m (W) \times 2.4m (L) and 1 no. of light goods vehicle loading/unloading bay of 3.5m (W) \times 7.0m (L) are also proposed to cater for the loading/unloading purposes. **Table 2.1** listed out the details of the provision.
- 2.4.3 The proposed columbarium will generate and attract around 110 visitors on a daily basis (details will be discussed in **Section 4.2**). For visitors arriving by private car, they must make advance booking and 1 hour free parking space will be reserved for each party. The worst case scenario will be that the 110 visitors on a daily basis are all arriving by private cars. With an occupancy rate of 4 persons per private car, there will be 28 private cars arriving on a daily basis and each private car will have one hour parking timeslot assigned by the management office. As a result, the provision of four parking spaces can have 32 one-hour timeslots (4 spaces x 8 one-hour timeslot between from 09:00 to 17:00 per space) available and will be adequate to serve the parking demand under the worst case scenario.
- 2.4.4 A pick-up/drop-off lay-by (10m in length) is provided to serve the visitors arriving by taxis and the lay-by can serve up to 40 taxis per hour (3 minutes pick-up/drop-off time required per taxi).
- 2.4.5 The proposed internal traffic layout is shown in **Figure 2.2**. and the swept path analysis is provided in **Figure 2.3** to **2.5**.

3 EXISTING TRAFFIC CONDITIONS

3.1 Existing Road Network

- 3.1.1 The major road in the vicinity of the Site is Lo Wai Road, which is a single 2-lane carriageway. Lo Wai Road connects with Yi Pei Chun Road and Sam Tung Uk Road to form a roundabout. In 2022. Lo Wai Road carried an AADT of 3.790 vehicles.
- 3.1.2 The access road to the Site is a short access road connecting the Site to Lo Wai Road and the traffic volume is minimal.

3.2 Existing Public Transport Facilities

3.2.1 **Table 3.1** shows the operation details of the public transport services on normal days.

Table 3.1 Existing Public Transport Services on Normal Days

Mode	Route No.	Origin-Destination	Frequency (min)
Terminus a	t Lo Wai F	Road	
Minibus	81	Tsuen Wan (Shiu Wo Street) – Lo Wai	6 – 25
En-route St	op at San	n Tung Uk Road	
Bus	32	Tsuen Wan (Shek Wai Kok) – Olympic Station	20 – 30
	36 ⁽³⁾	Tsuen Wan West Station – Lei Muk Shue	12 – 25
	32M ⁽³⁾	Kwai Fong Station – Cheung Shan	15 – 25
	43X	Tsuen Wan West Station – Yiu On	9 – 20
Minibus	82	Tsuen Wan (Shiu Wo Street) – Shing Mun Reservoir	8 – 25
	82M	Tsuen Wan (Shiu Wo Street) – Cheung Shan Estate	10 – 30
	94	Shek Wai Kok – Kwai Shing Circuit	7 – 30
	312	Lei Muk Shue Estate Public Transport Interchange –Tsing Yi Station	5 – 9

Note:

(1)

Circular Route

3.3 Traffic Count Surveys

- 3.3.1 In order to appraise the existing traffic conditions on normal weekdays and weekends, classified turning movement count surveys were conducted on Sunday, 26 June 2022 and Wednesday, 29 June 2022 from 08:30 to 18:30. It has been observed that the peak hours were 08:30 09:30 (AM), 10:45 11:45 (Noon) and 17:30 18:30 (PM) on weekday. The corresponding peak hours on weekend were 08:30 09:30 (AM), 10:15 11:15 (Noon) and 17:30 18:30 (PM).
- Due to the recent COVID-19 coronavirus, it is understood that the traffic flows may be lower. As similar traffic surveys were carried out on Sunday, 17 March 2019 and Wednesday, 20 March 2019 during the rezoning application stage. The two sets of traffic flow data are compared and a summary table at the concerned road sections are provided in **Table 3.2**.

Peak Hour Traffic Flows in veh/hr 2019 2022 No. Roads AM Noon PM AM Noon PM Weekday Peak Hour Upper Section - Lo Wai Road between 193 145 167 168 126 145 L1 Hilltop Road and Lo Wai Lane Lower Section - Lo Wai Road between 353 265 307 307 231 267 12 Hilltop Road and Yi Pei Chun Road 428 321 371 355 266 308 13 Yi Pei Chun Road eastbound 324 Yi Pei Chun Road westbound 450 337 390 374 280 L4 **TOTAL** 903 1.424 1.068 1.235 1.204 1.044 Weekend Peak Hour Upper Section - Lo Wai Road between 609 605 641 637 690 656 L1 Hilltop Road and Lo Wai Lane Lower Section - Lo Wai Road between 951 945 1.024 903 898 973 12 Hilltop Road and Yi Pei Chun Road Yi Pei Chun Road eastbound 554 550 596 499 495 536 L3 467 464 503 420 418 453 Yi Pei Chun Road westbound L4

Table 3.2 Comparison of 2019 and 2022 Traffic Survey Results

3.3.3 **Table 3.2** shows that the traffic flows in 2019 are higher than those in 2022. As a result, the traffic flows in 2019 are adopted as the conservative data for the subsequent assessment and the traffic flows are shown diagrammatically in **Figures 3.1 – 3.2**.

2,613

2,596

2,813

2,431

2,416

2,618

TOTAL

3.4 Existing Junction Capacity Assessment

3.4.1 Based on the observed peak hour traffic flows, the performances of the concerned junctions were assessed. The assessment results are summarized and presented in **Table 3.3** and the detailed calculation sheets are presented in **Appendix A**.

Table 3.3 Junction Capacity Assessments

			DFC ⁽¹⁾							
No.	Junction Location	Junction Type	Week	day Peak	Hour	Weekend Peak Hour				
		,,,	AM	Noon	PM	AM	Noon	PM		
J1	Lo Wai Road/Access Road to the Site	Priority	0.01	0.00	0.00	0.00	0.00	0.00		
J2	Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road	Roundabout	0.30	0.22	0.26	0.28	0.28	0.31		

Notes: (1) DFC = design flow to capacity ratio for priority junction and roundabout.

3.4.2 It can be seen from **Table 3.3** that both concerned junctions are operating satisfactorily during the peak hours on normal weekday and weekend.

Existing Link Capacity Assessment 3.5

The Volume to Capacity (V/C) Ratios of Lo Wai Road, Yi Pei Chun Road and Sam Tung Uk 3.5.1 Road were assessed and the results are presented in Table 3.4.

Table 3.4 **Link Capacity Assessments**

			Traffic Flow in veh/hr [V/C Ratio]						
No.	Road	Capacity	Week	day Peal	Hour	Weekend Peak Hour			
			AM	Noon	PM	AM	Noon	PM	
L1	Upper Section – Lo Wai Road between Hilltop Road and Lo Wai Lane	1,400 veh/hr ⁽¹⁾	193 [0.14]	145 [0.10]	167 [0.12]	641 [0.46]	637 [0.46]	690 [0.49]	
L2	Lower Section – Lo Wai Road between Hilltop Road and Yi Pei Chun Road	1,700 veh/hr ⁽²⁾	353 [0.21]	265 [0.16]	307 [0.18]	951 [0.56]	945 [0.56]	1,024 [0.60]	
L3	Yi Pei Chun Road eastbound	1,900 veh/hr ⁽³⁾	428 [0.23]	321 [0.17]	371 [0.20]	554 [0.29]	550 [0.29]	596 [0.31]	
L4	Yi Pei Chun Road westbound	950 veh/hr ⁽³⁾	450 [0.47]	337 [0.35]	390 [0.41]	467 [0.49]	464 [0.49]	503 [0.53]	
L5	Sam Tung Uk Road eastbound	1,900 veh/hr ⁽³⁾	288 [0.15]	216 [0.11]	250 [0.13]	424 [0.22]	421 [0.22]	456 [0.24]	
L6	Sam Tung Uk Road westbound	950 veh/hr ⁽³⁾	334 [0.35]	250 [0.26]	289 [0.30]	398 [0.42]	396 [0.42]	429 [0.45]	

Notes:

(3)

The design one-way flow for undivided carriageway as stipulated in Volume 2 of TPDM is adopted.

As shown in Table 3.4, all road links are operating satisfactorily with V/C ratios under 0.85. As 3.5.2 a result, the overall traffic condition, as indicated by the junction and link capacity assessments result, is satisfactory.

The design two-way flow for district distributor (6.75m) as stipulated in Volume 2 of TPDM is adopted. The design two-way flow for district distributor (7.3m) as stipulated in Volume 2 of TPDM is adopted.

⁽¹⁾ (2)

4 TRAFFIC IMPACT ASSESSMENT

4.1 Future Traffic Growth

Design Year

4.1.1 The tentative year for the proposed columbarium development to be in operation is 2025. So, 2028, i.e. 3 years after the commencement in operation, will be taken as the design year in this study.

Historical Growth from the Annual Traffic Census (ATC) Data

4.1.2 In order to establish the traffic growth rate in the vicinity of the study area, reference was made to the ATC Reports published by TD, reporting on the annual average daily traffic (AADT) flows at counting stations in the territory. The details of the counting stations and the recorded counts in vicinity are shown in **Table 4.1**.

Table 4.1 Annual Traffic Census Data

Stn.	Stn. Bood AADT ⁽¹⁾							
No.	Road	2017	2018	2019	2020	2021	2022	2017 – 2022
5851	Lo Wai Road	4,050	4,120 (1.7%)	4,100 (-0.5%)	4,060 (-1%)	4,620 (13.8%)	3,790 (-18%)	-1.3%

Note:

(1)

Figures in bracket indicate the percentage change between successive years.

4.1.3 From the record data, it was found that the traffic volume at the vicinity area has been fluctuating since 2017 with an average negative growth rate of 1.3%.

Future Territorial Population and Employment Data Matrix (TPEDM)

4.1.4 Reference was also made to the 2019–based TPEDM published by Planning Department. The population and employment data of year 2019 and 2031 in Tsuen Wan District are summarized in **Table 4.2**.

Table 4.2 Population and Employment Data in Tsuen Wan District

Year	2019	2026	2031
Population	293,700	279,450	249,400
Employment	165,000	166,100	160,650
Total	458,700	445,550	410,050
	Average Growth %	-0.4% (2019 to 2026)	-1.6% (2026 to 2031)

- 4.1.5 As shown in **Table 4.2**, the average annual growth rates for the total of population and employment are -0.4% and -1.6% during 2019 to 2026 and 2026 to 2031, respectively.
- 4.1.6 Although both the annual growth rates in the historical ATC data and the TPEDM projections are negative, a nominal annual growth rate of +2.0% is still adopted for the projecting the 2019 observed traffic flows to the 2028 reference traffic flows in the assessment with a conservative approach.

Future Columbarium Developments in Lo Wai Area

- 4.1.7 It is noted that the major development in Lo Wai will be the extension of Yuen Yuen Institute with an additional of 20,000 niches. There is no exact information on when the proposed Yuen Yuen Institute Extension will be fully completed. It is anticipated that most of the vehicular and pedestrian traffic generated and attracted by these niches (when occupied) will be on the festival days and their shadow periods which will not overlap with the traffic generated and attracted by the proposed columbarium development.
- 4.1.8 It is also noted that there are various existing columbarium developments in Lo Wai, which they have submitted applications to regularize the columbarium use. In these developments, there are certain amount of niches were being sold but not occupied. In the following assessment, an assumption of a total of 20,000 niches (sold but not occupied) will be considered. Similar to the new niches in the extension of Yuen Yuen Institute, the vehicular and pedestrian traffic generated and attracted by these niches (when occupied) will be on the festival days and their shadow periods only.
- 4.1.9 Besides the traffic generated on the festival days and their shadow periods, the buyers and his/her relatives will attend a simple ceremony to place their ancestor's ashes in the above niches on a selected date throughout the year and therefore will generate additional trips on normal weekdays and normal weekends. It is assumed that a ten-years time is required to fully occupied the 40,000 unoccupied/new niches, i.e. 4,000 niches per year. With approximately 80 suitable days for holding such ceremony, there will be 50 niches to be occupied on each day. On average, 5 to 6 niches will be occupied per hour and this will generate a two-way traffic of 20 to 24 vehicles/hour (4 vehicle trips per niche). To be conservative, a nominal value of 50 vehicle trips (two-way) are assumed to cater for the traffic generated for attending the ceremony to place the ancestor's ashes for the new 40,000 niches in the Lo Wai area.

Approved Development in Lo Wai Area

- 4.1.10 A new rezoning application with 458 residential units in the vicinity of the proposed columbarium development, Y/TW/13, was approved by the Town Planning Board in 2020. To estimate the future traffic flows generated and attracted of the newly approved development, updated information has been obtained from the statutory planning portal of Town Planning Board.
- 4.1.11 Based on the latest set of traffic generation and attraction rates documented in Chapter 3 "Transport Considerations of Town Plans" of the Transport Planning and Design Manual (TPDM), the traffic generated by the approved application were estimated as shown in **Table 4.3** and are taken into account in the following assessment.

Table 4.3 Traffic Generations by the Planned and Approved Development

Davidanment	Use /	AM Peak Hour		Noon Pe	ak Hour	PM Peak Hour		
Development	Content	Gen.	Att.	Gen. (2)	Att. (2)	Gen.	Att.	
TPDM Mean Trip Rate					(80)			
Private Housing: Medium-Density / R(B) – 120m ^{2 (1)}	pcu/hr/flat	0.2246	0.1157	0.2246	0.1468	0.1068	0.1468	
Traffic Generation of Y/TW/13	458 units	103	53	103	68	49	68	

Note: (1) Mean trip rate of Private Housing: Medium-Density / R(B) with average flat size of 120 m² is adopted.

(2) Reference was made to the AM and PM trip rates, to be conservative, the larger rates were adopted.

4.2 Pedestrian Traffic Generation of the Proposed Columbarium Development

- 4.2.1 Visitors of the proposed columbarium development are expected to arrive throughout the year, except on the festival days and their shadow periods as mentioned in **Section 2.2.2.** So, no traffic will be generated or attracted by the proposed columbarium development on the festival days and their shadow periods.
- 4.2.2 At present, there are a total of 103 occupied niches at the Site. According to the 2019 data, a total of 790 visitors were recorded to visit the occupied niches, equivalent to not more than 8 persons per niche. Normally, for a niche that can placed two urns or more, the number of visitors will be mainly comprised of the same family group members, except with minimal additional visitors from other relatives/friends for few individuals. To cater for this effect, a 10% increase of the trip rate, 9 persons per niche (8 x (1+10%) = 8.8, say 9), will be adopted for the niches with two urns.
- 4.2.3 So, the proposed columbarium development, when fully occupied, will generate 36,125 person trips (8 x 2,125 + 9 x 2,125) each year. Excluding the Ching Ming and Chung Yeung Festival Days and their shadow periods (the shadow period will be subjected to the prevailing traffic condition every year) that the proposed columbarium development will be closed as well as other days that will not attract visitors (e.g. new year, lunar new year, days with extreme bad weather), 330 days each year is assumed to have visitors. It is estimated that on average, 110 visitors, i.e. 36,125/330 = 110 will be generated and attracted by proposed columbarium development on a daily basis.

4.3 Vehicular Traffic Generation of the Proposed Columbarium Development

4.3.1 In the following assessment, it is assumed that half of the visitors, i.e. 55 visitors, will visit the proposed columbarium development before noon at 11:00, which is the peak of the day. Although these visitors can take the green public minibus route no. 81 to travel from Tsuen Wan (Shiu Wo Street) to Lo Wai for the proposed columbarium development, all the visitors is assigned to take taxis (2 persons per taxi) on a conservative approach. Therefore, a total of 28 pcu/hour (one-way) will be attracted to the proposed columbarium development during the noon peak hour and it is also included in the AM and PM peak for conservative assessment purpose. The traffic generation/attraction pattern is shown in **Figure 4.1**.

4.4 2028 Reference and Design Flows

4.4.1 The 2028 Reference Flows (**Figures 4.2 and 4.3**), i.e. the traffic flows in the local road network, are estimated based on the following equation.

2028 Reference Flows

2019 surveyed peak hour traffic flows on normal weekday/weekend x $(1+2\%)^9$ + traffic for attending ceremony for the new 40,000 niches in the area between 2019 and 2028 + traffic generated by the approved development

4.4.2 The 2028 Design Flows (**Figures 4.4 and 4.5**), i.e. the traffic flows in the local road network plus the proposed development traffic are estimated based on the following equation:

2028 Design Flows

2028 Reference Flows + traffic generated by the proposed columbarium development

4.5 Future Junction Capacity Assessment

4.5.1 Junction capacity assessments were carried out for the design year 2028 and the results are shown in **Table 4.4** and the detailed calculation sheets are presented in **Appendix B**.

Table 4.4 Junction Capacity Assessments – Year 2028

Ma	lunation Lagation	Junction	2028 Reference			2028 Design		
No.	Junction Location	Туре	AM	Noon	PM	AM	Noon	PM
Weel	kday Peak Hour	A						
J1	Lo Wai Road/Access Road to the Site	Priority	0.01	0.01	0.01	0.07	0.07	0.07
J2	Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road	Roundabout	0.47	0.35	0.41	0.47	0.35	0.41
Week	cend Peak Hour							
J1	Lo Wai Road/Access Road to the Site (2)	Priority	0.01	0.01	0.01	0.08	0.08	0.09
J2	Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road	Roundabout	0.46	0.45	0.45	0.48	0.47	0.47

Notes:

4.5.2 As shown in **Table 4.4**, the assessment results indicated that both concerned junctions will perform satisfactorily on year 2028, with DFC values under 0.85.

¹⁾ All numbers are in DFC = design flow to capacity ratio for priority junction and roundabout.

⁽²⁾ Access road to the Site is widened to 7.3m.

4.6 Future Link Capacity Assessment

4.6.1 Link capacity assessments were carried out for the design year 2028 and the results are shown in **Table 4.5**.

Table 4.5 Link Capacity Assessments – Year 2028

No.	Road	Capacity		ce Flows V/C Ratio	. ,	_	n Flows (v V/C Ratio	,
			AM	Noon	PM	АМ	Noon	PM
Weel	kday Peak Hour							
L1	Upper Section – Lo Wai Road between Hilltop Road and Lo Wai Lane	1,400 veh/hr ⁽¹⁾	282 [0.20]	226 [0.16]	252 [0.18]	338 [0.24]	282 [0.20]	308 [0.22]
L2	Lower Section – Lo Wai Road between Hilltop Road and Yi Pei Chun Road	1,700 veh/hr ⁽²⁾	630 [0.37]	526 [0.31]	536 [0.32]	686 [0.40]	582 [0.34]	592 [0.35]
L3	Yi Pei Chun Road	1,900	570	442	509	598	470	537
	eastbound	veh/hr ⁽³⁾	[0.30]	[0.23]	[0.27]	[0.31]	[0.25]	[0.28]
L4	Yi Pei Chun Road	950	622	487	516	642	507	536
	westbound	veh/hr ⁽³⁾	[0.65]	[0.51]	[0.54]	[0.68]	[0.53]	[0.56]
L5	Sam Tung Uk Road	1,900	391	305	326	399	313	334
	eastbound	veh/hr ⁽³⁾	[0.21]	[0.16]	[0.17]	[0.21]	[0.16]	[0.18]
L6	Sam Tung Uk Road	950	421	322	375	421	322	375
	westbound	veh/hr ⁽³⁾	[0.44]	[0.34]	[0.39]	[0.44]	[0.34]	[0.39]
Weel	cend Peak Hour							
L1	Upper Section – Lo Wai Road between Hilltop Road and Lo Wai Lane	1,400 veh/hr ⁽¹⁾	818 [0.58]	813 [0.58]	877 [0.63]	874 [0.62]	869 [0.62]	933 [0.67]
L2	Lower Section – Lo Wai Road between Hilltop Road and Yi Pei Chun Road	1,700 veh/hr ⁽²⁾	1,345 [0.79]	1,337 [0.79]	1,392 [0.82]	1,401 [0.82]	1,393 [0.82]	1,448 [0.85]
L3	Yi Pei Chun Road	1,900	722	717	781	750	745	809
	eastbound	veh/hr ⁽³⁾	[0.38]	[0.38]	[0.41]	[0.39]	[0.39]	[0.43]
L4	Yi Pei Chun Road	950	634	631	647	654	651	667
	westbound	veh/hr ⁽³⁾	[0.67]	[0.66]	[0.68]	[0.69]	[0.69]	[0.70]
L5	Sam Tung Uk Road	1,900	562	557	576	570	565	584
	eastbound	veh/hr ⁽³⁾	[0.30]	[0.29]	[0.30]	[0.30]	[0.30]	[0.31]
L6	Sam Tung Uk Road	950	497	494	540	497	494	540
	westbound	veh/hr ⁽³⁾	[0.52]	[0.52]	[0.57]	[0.52]	[0.52]	[0.57]

Notes: (1) The design two-way flow for district distributor (6.75m) as stipulated in Volume 2 of TPDM is adopted.

4.6.2 **Table 4.5** shows that all road links will operate with V/C ratios under 1.0, for both "With" and "Without" the proposed columbarium development, which is indicated as satisfactory as stated in Transport Planning and Design Manual ("TPDM") (see **Note 1**¹). So, the future traffic condition is considered to be acceptable.

⁽²⁾ The design two-way flow for district distributor (7.3m) as stipulated in Volume 2 of TPDM is adopted.

The design one-way flow for undivided carriageway as stipulated in Volume 2 of TPDM is adopted.

¹ Note 1: Chapter 1.4, Volume 1 of TPDM states that "In general, a peak hour v/c ratio of 1.0 or less indicates a satisfactory level of traffic on the proposed road."

5 OTHER MANAGEMENT MEASURES

5.1 Visit-by-Appointment Scheme

5.1.1 Visit-by-Appointment scheme will be implemented at the proposed columbarium development to control the number of visitors each day and to reserve car parking space for visitors.

5.2 Data Collection and Review of Management Plan

5.2.1 A traffic report shall be prepared for every subsequent year, summarizing all traffic-related information, such as the number of visitors, number of niches occupied, etc. All information can be used to evaluate the operation efficiency of the traffic arrangement and assist to enhance the management of the proposed columbarium. At the same time, if necessary, the information can be provided to Hong Kong Police Force, Transport Department, and other relevant government departments for consideration. Necessary actions can be taken to improve the overall traffic arrangement.

6 SUMMARY AND CONCLUSION

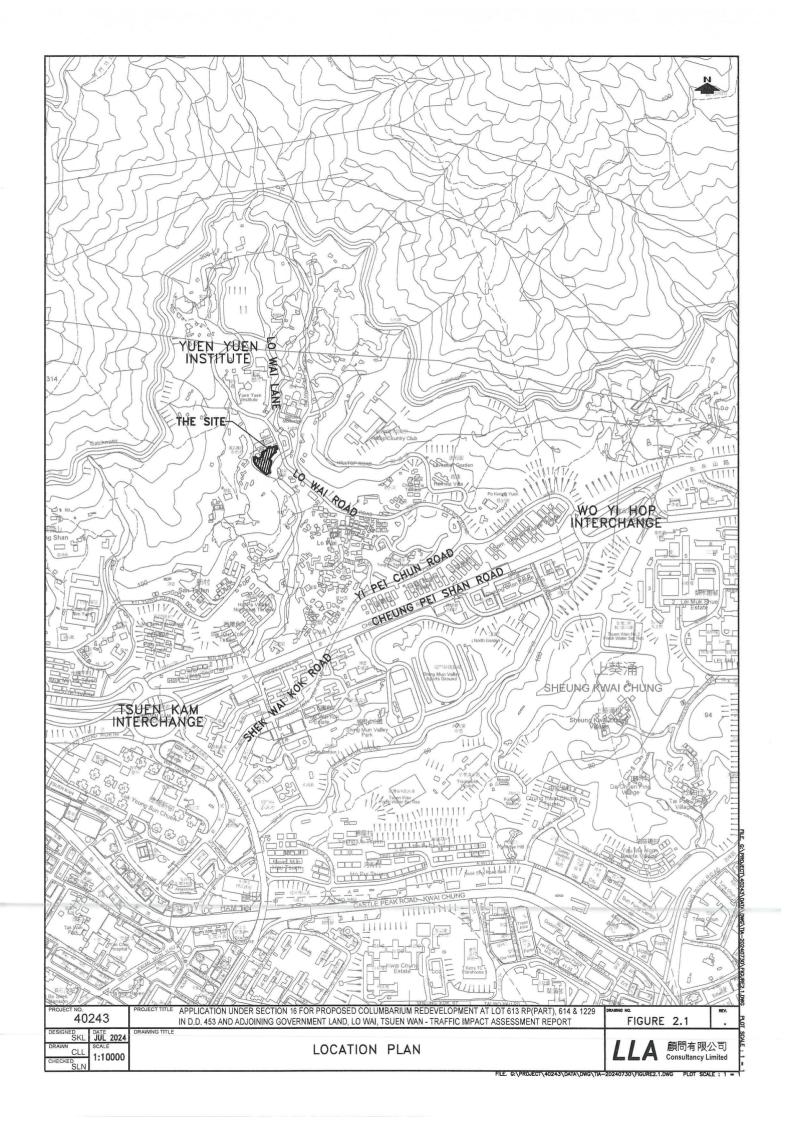
6.1 Summary

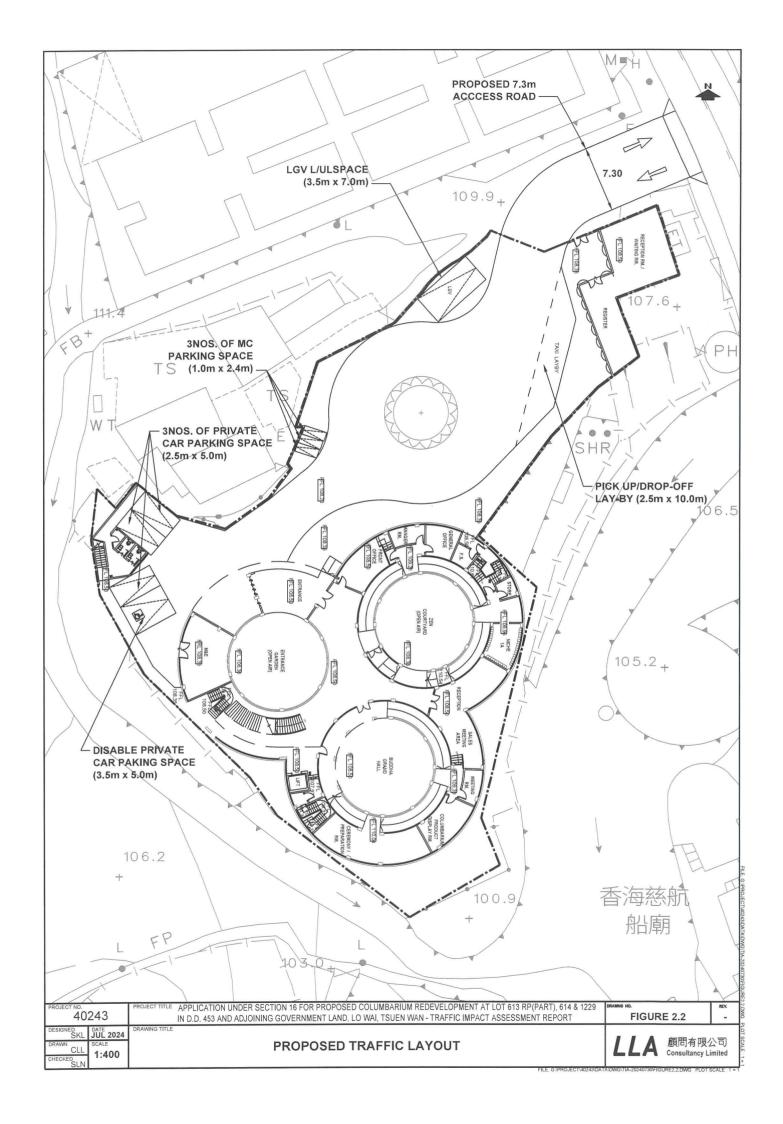
- 6.1.1 The Applicant intends to regularize its existing "columbarium" use at the Site to provide 4,250 niches. The Site is located on the western side of Lo Wai Road and is about 180m away from the main entrance of Yuen Yuen Institute. The Site can be reached via an access road which is connected to Lo Wai Road.
- 6.1.2 In order not to generate additional traffic volume in Lo Wai area during festival days and its shadow periods, the Applicant proposes to close the columbarium on these special days. All visitors must make their visits only on other normal weekdays and weekends. This arrangement will form part of the Management Plan to be submitted to the Private Columbarium Licensing Board) (" PCLB") for long-term monitoring and enforcement purposes.
- 6.1.3 The proposed columbarium development will provide 4 private car parking spaces including 1 for people with disabilities, 3 motorcycle parking spaces and 1 LGV loading/unloading bay. A pick-up/drop-off lay-by (10m in length) is also provided to serve the visitors arriving by taxis.
- 6.1.4 To appraise the existing traffic conditions on normal weekdays and weekends, classified turning movement count surveys were conducted on a weekday and a Sunday from 08:30 to 18:30 in June 2022. Due to the recent COVID-19 coronavirus, the set of 2022 traffic flows were compared with the 2019 traffic flows (collected during the rezoning application) and was found to be smaller. Therefore, the 2019 traffic flows were adopted and based on the peak hour traffic flows, junction and link capacity assessments were conducted. The overall traffic conditions, as indicated by the DFCs and V/Cs, was satisfactory.
- 6.1.5 Taking into consideration of the historical growth from the ATC data, future TPEDM data and future developments in the Lo Wai area, a nominal growth rate of 2% is adopted to project the 2028 Reference Traffic Flows ("Without" the proposed columbarium). Also, a nominal traffic of 50 vehicle trips (2-way) per hour are assumed to cater for the demand for attending ceremony for the new 40.000 niches in the Lo Wai area.
- 6.1.6 Visitors of the proposed columbarium development are expected to arrive throughout the year, except on the festival days and their shadow periods. It is estimated that a total of 28 pcu/hour (one-way) will be attracted to the proposed columbarium development. The 2028 Design Traffic Flows ("With" the proposed columbarium) are derived by sum up the 2028 Reference Traffic Flows and the development traffic flows.
- 6.1.7 Based on the future traffic flows, junction and link capacity assessments were conducted for both "With" and "Without" the proposed columbarium development and the results was satisfactory.
- 6.1.8 Other management measures, i.e. visit-by-appointment scheme and regular review of management plan, would be implemented.

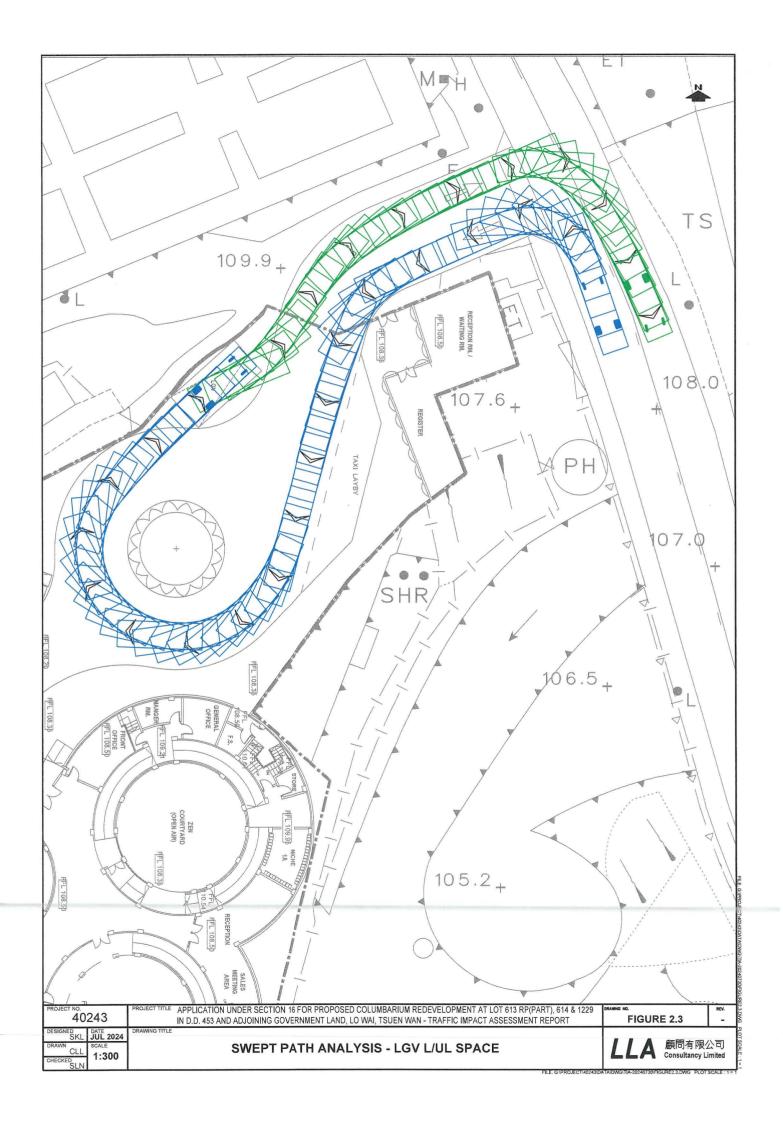
6.2 Conclusion

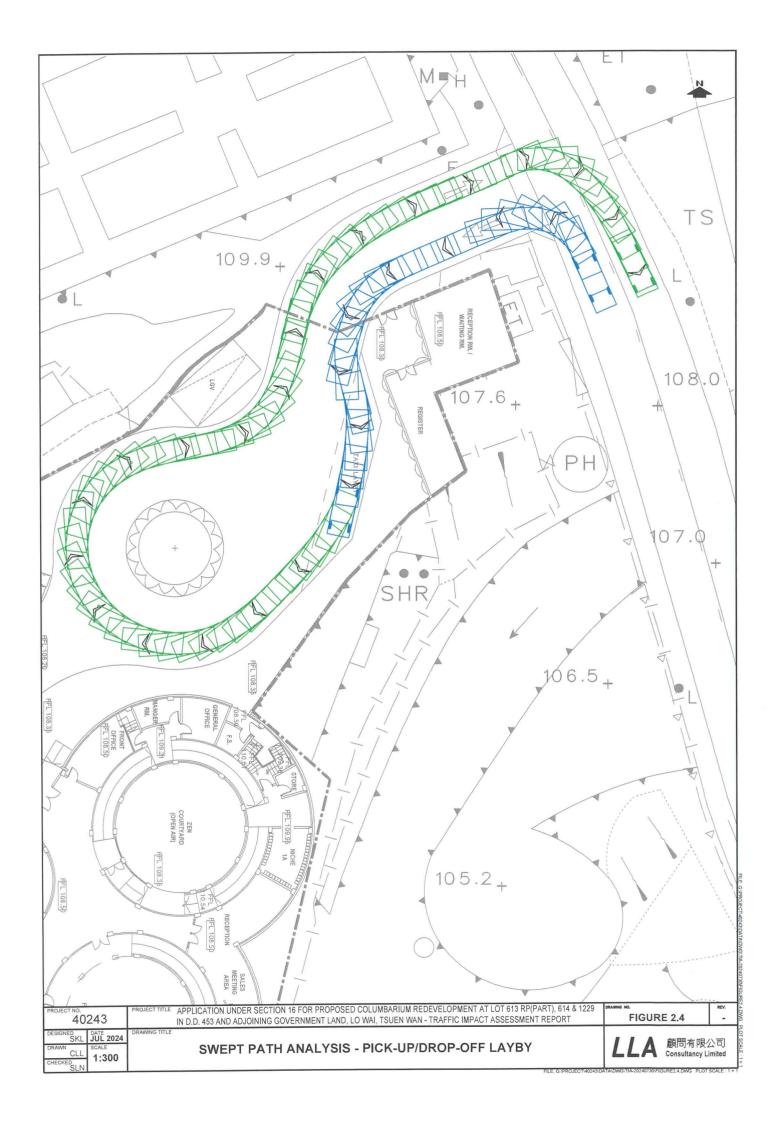
- 6.2.1 The findings of this traffic impact assessment indicated that the proposed columbarium development will not cause additional adverse impact on the operation of Lo Wai Road on normal weekdays and weekends, provided that the proposed columbarium development is closed for the visitors during the festival days and its shadow period. The Applicant will incorporate the same proposed traffic arrangements into the submission documents to PCLB for future monitoring and enforcement purposes.
- 6.2.2 In view of the above, the proposed columbarium development is considered acceptable in traffic viewpoint.

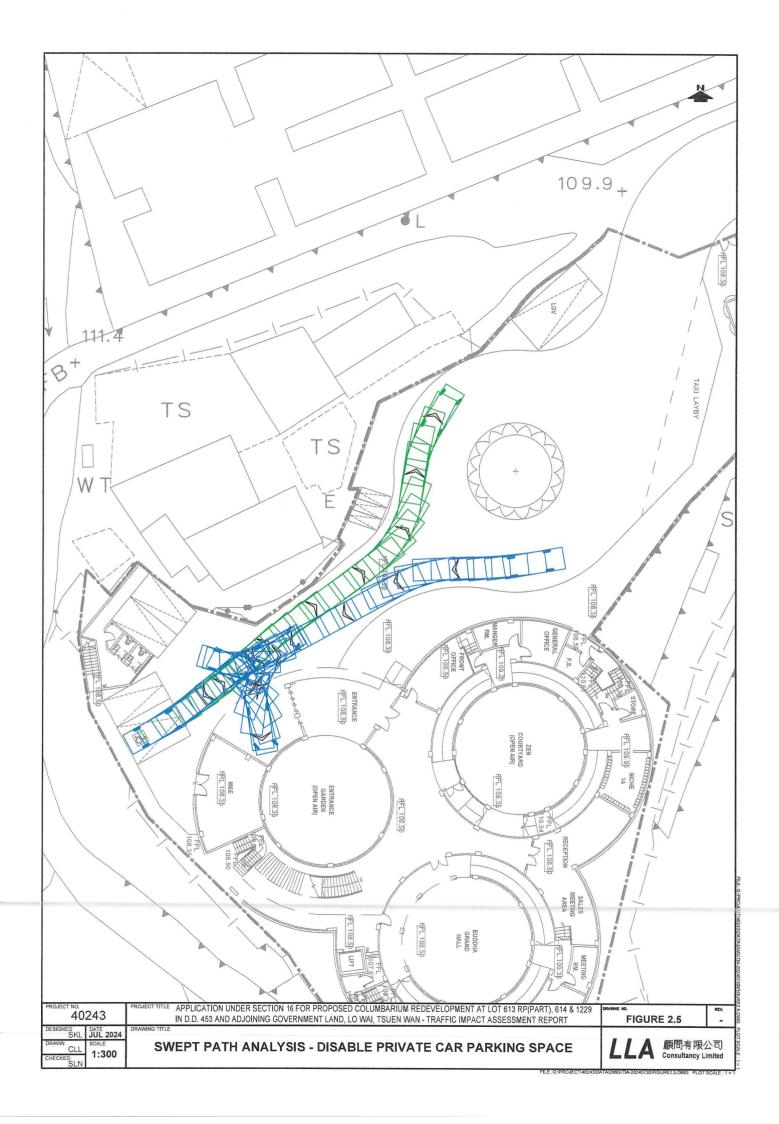
13

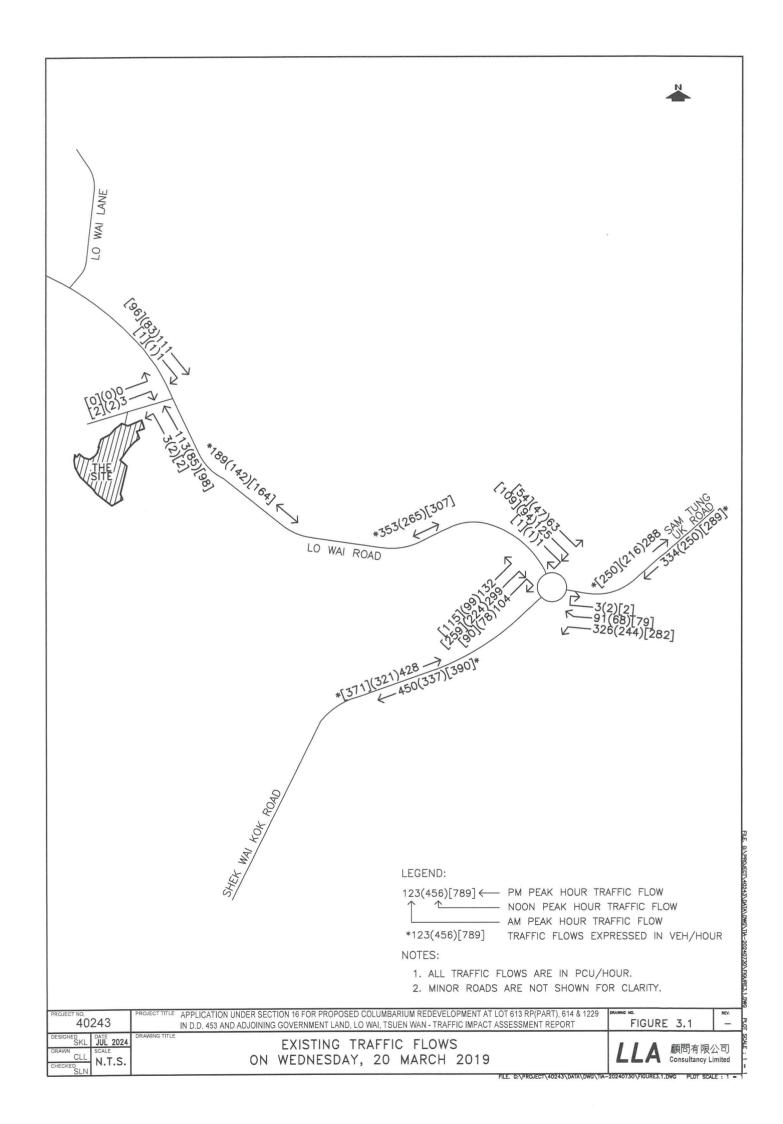


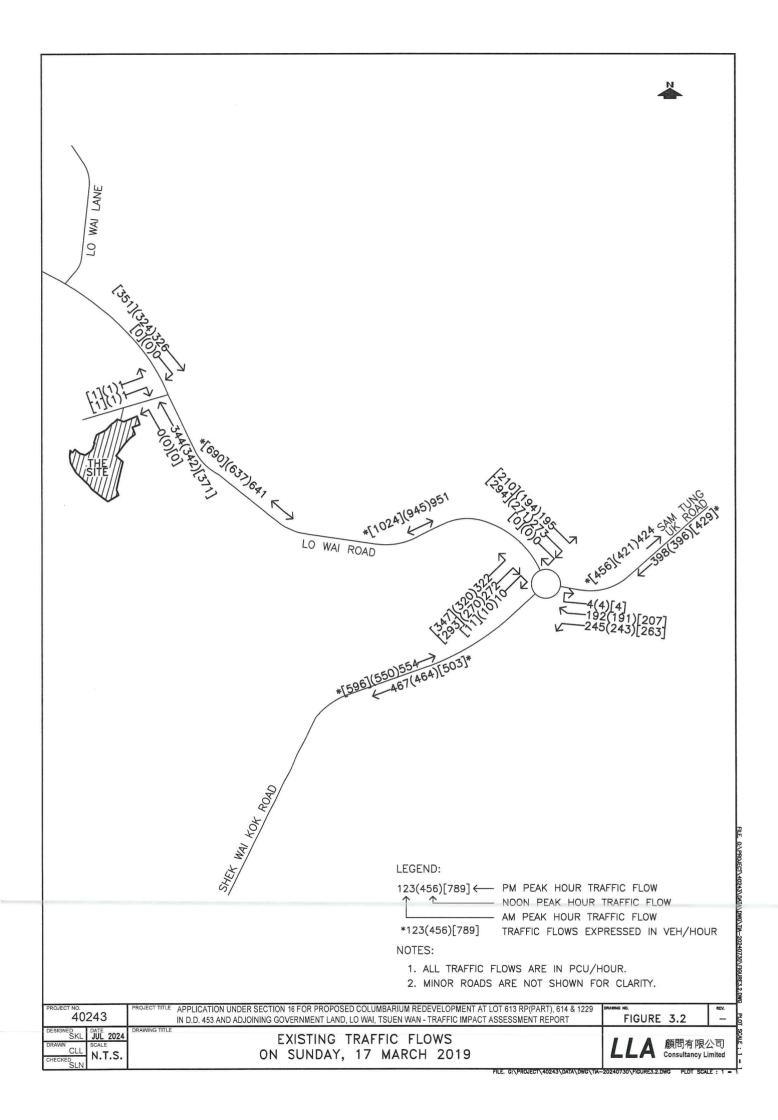


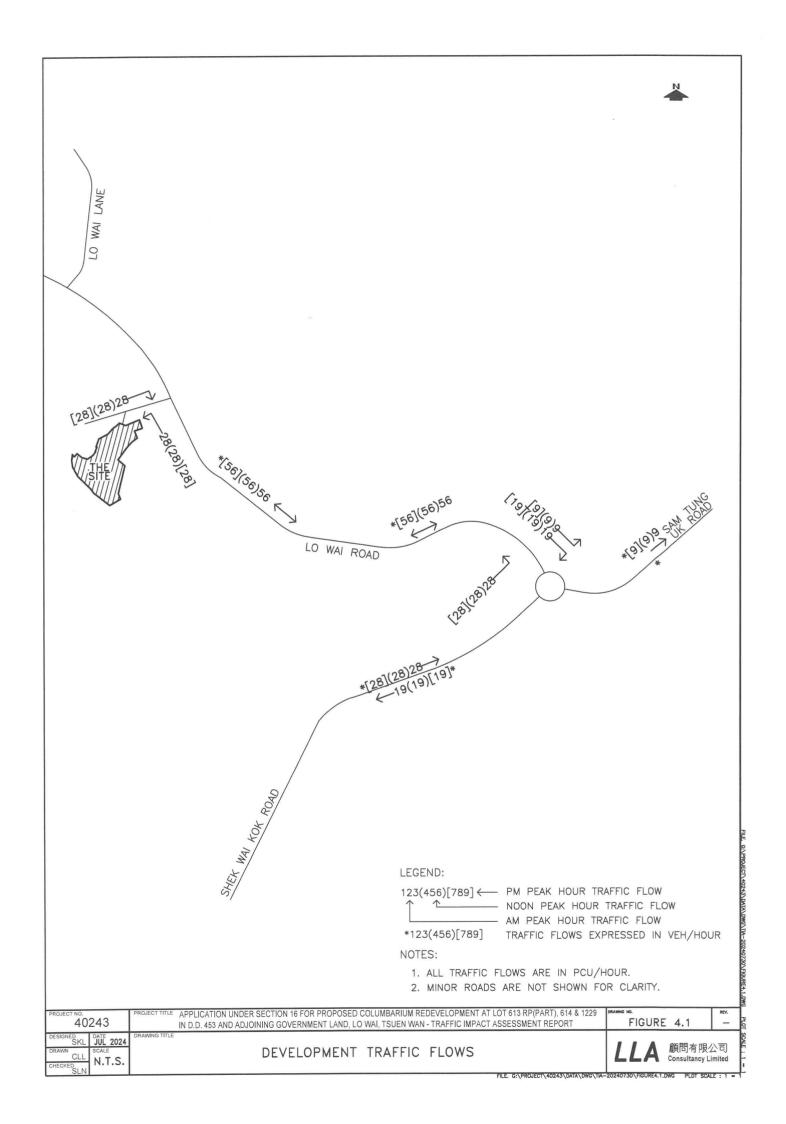


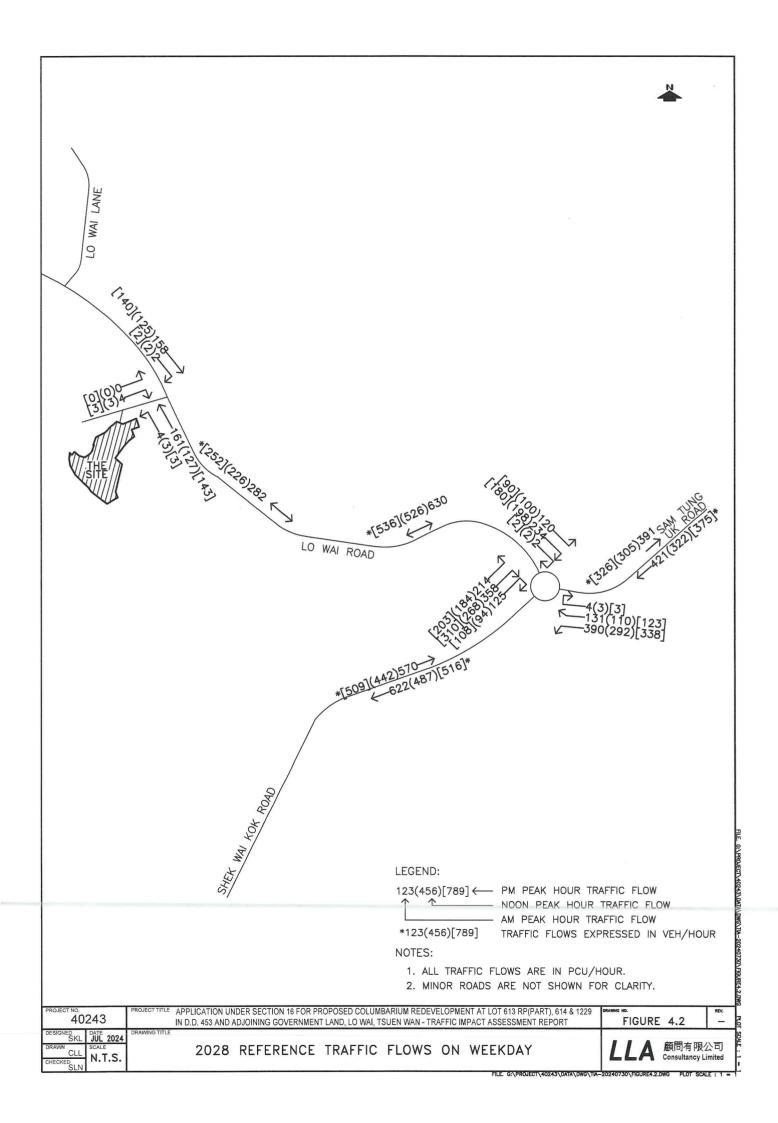


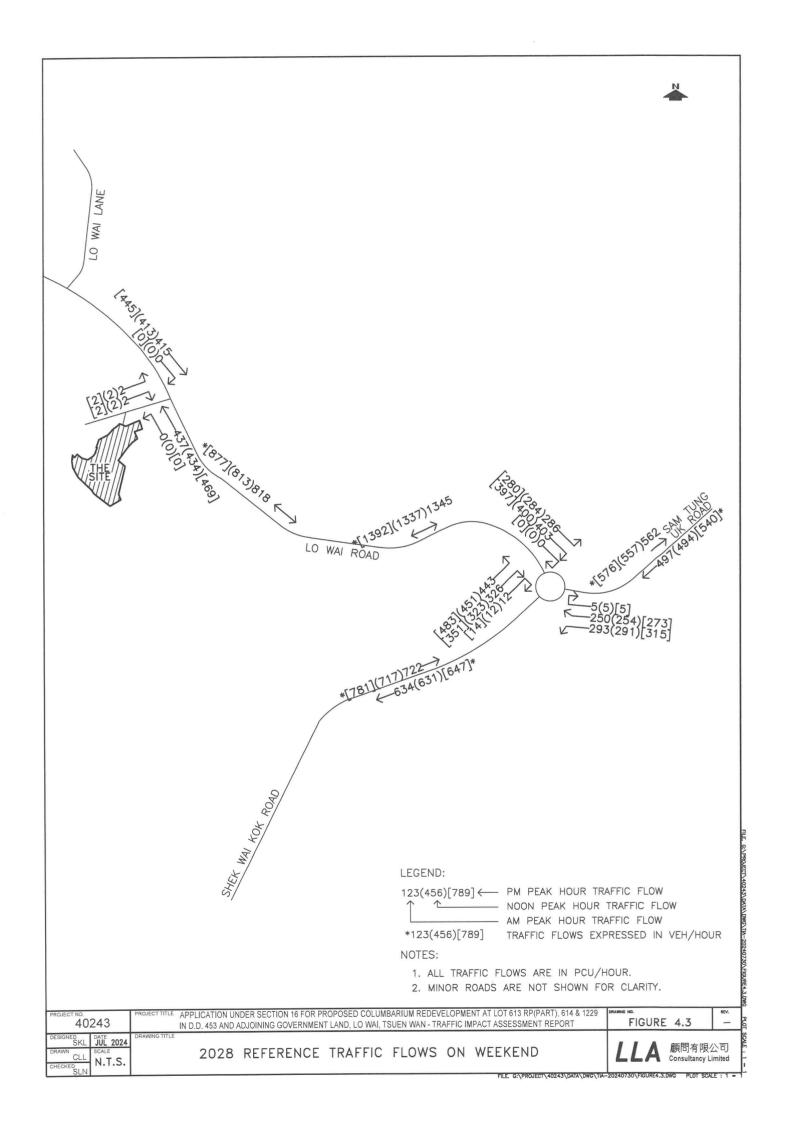


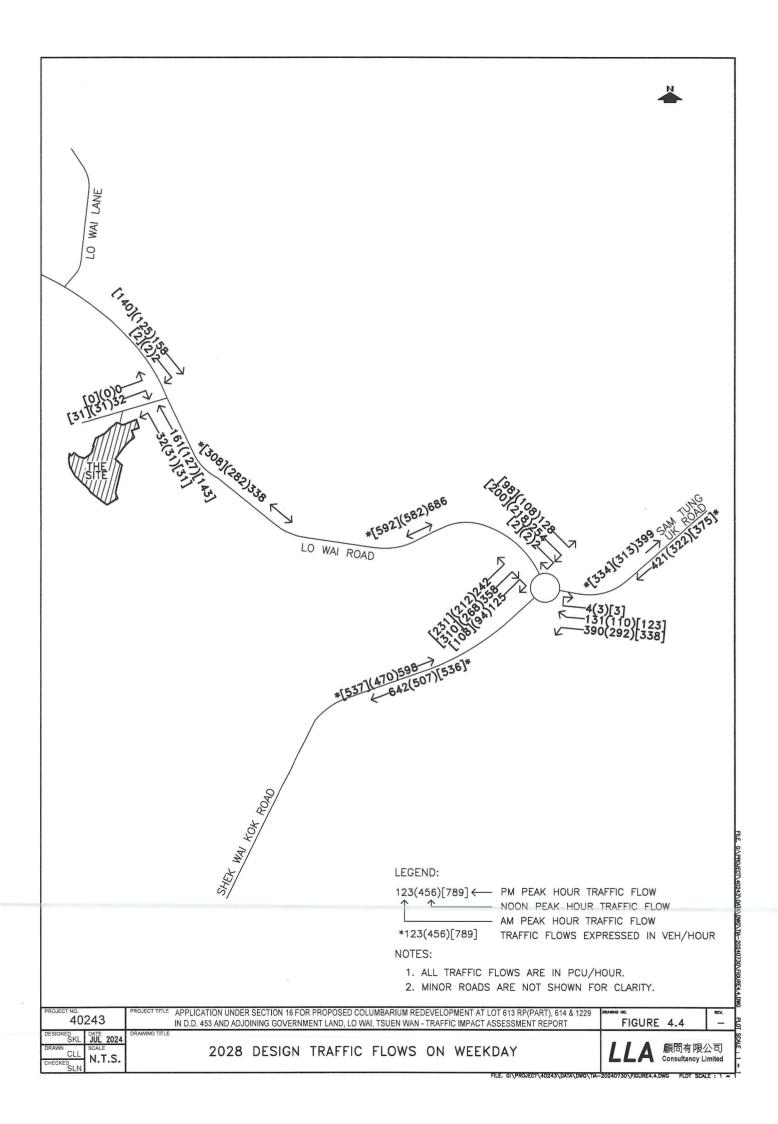


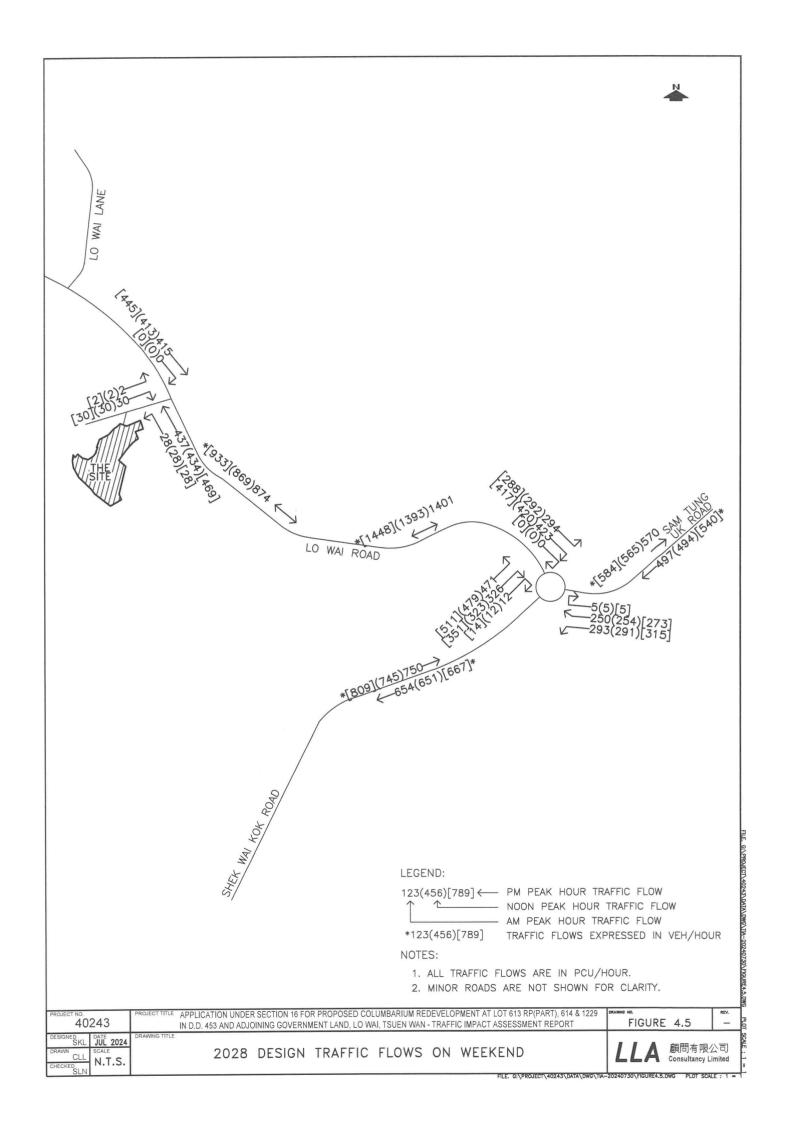












APPENDIX A Junction Capacity Assessment – Existing Scenario

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Access Road to the Site

VI b-a =

Vrb-a =

Vrb-c = q b-a =

q b-c =

40 (metres)

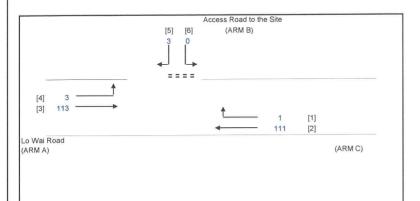
50 (metres) 30 (metres)

3 (pcu/hr) 0 (pcu/hr)

2019 Existing

10 Evicting AM	Р
19 Existing AM	FI
(Weekday)	-

PRIORITY JUNCTI	ON CALCU	LATION		INITIALS	DATE
2040 Evicting AM	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24
2019 Existing AM	FILENAME :	J1_Weekday.xlsx	CHECKED BY:	SLN	Jul-24
(Weekday)	REFERENCE NO		REVIEWED BY:	SLN	Jul-24



```
NOTES: (GEOMETRIC INPUT DATA)
                 MAJOR ROAD WIDTH
      W =
                  CENTRAL RESERVE WIDTH
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
      W c-b =
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
                  VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
      VI b-a =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
      Vr c-b =
                  STREAM-SPECIFIC B-A
                  STREAM-SPECIFIC B-C
                 STREAM-SPECIFIC C-B
                 (1-0.0345W)
```

GEOMETRIC DETAILS	S:		GEOMETRIC FACT	ORS :		THE CAPACITY OF MO	VEME	NT:		COMPARISION OF DESIGN FLOT TO CAPACITY:	N		
MAJOR ROAD	(ARM A)												
W =	7.30	(metres)	D	=	0.8217	Q b-a	=	474		DFC b-a	=	0.0063	
W cr =	0	(metres)	E	=	0.8628	Q b-c	=	616		DFC b-c	=	0.0000	
q a-b =	3	(pcu/hr)	F	=	1.2464	Q c-b	=	889		DFC c-b	=	0.0011	
q a-c =	113	(pcu/hr)	Y	=	0.7482	Q b-ac	=	474		DFC b-ac (share lane)	=	0.0063	
940	, 10	(1000000)											
MAJOR ROAD	(ARM C)		F for (Qb-a	ac) =	0.0000								
W c-b =	7.30	(metres)	1971 35500 (16 27555 30			TOTAL FLOW	=	231	(PCU/HR)				
Vrc-b =	40	(metres)											
000 10000	111	(pcu/hr)											
q c-a =													
q c-b =	1	(pcu/hr)								CDITICAL DEC		- 0.04	
										CRITICAL DFC	-	= 0.01	
MINOR ROAD	(ARM B)												
W b-a =	3.00	(metres)											
W b-c =	3.00	(metres)											

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1 Lo Wai Road/Access Road to the Site

MINOR ROAD (ARM B) W b-a =

W b-c =

VIb-a =

Vrb-a =

Vrb-c =

q b-a =

q b-c =

3.00

40

(metres)

(metres)

(metres)

3.00 (metres)

30 (metres)

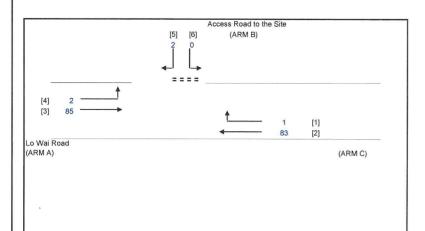
2 (pcu/hr)

0 (pcu/hr)

PRIORITY JUNCTI	ON CALCULATION
2019 Existing Noon	PROJECT NO.: 40243

(Weekday)

TON CALCULATION		INITIALS	
PROJECT NO.: 40243	PREPARED BY:	SKL	
FILENAME: J1_Weekday.xlsx	CHECKED BY:	SLN	
REFERENCE NO.:	REVIEWED BY:	SLN	



NOTES: (GEOMETRIC INPUT DATA) MAJOR ROAD WIDTH CENTRAL RESERVE WIDTH LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM bas LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b VI b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a Vrb-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c. Vrc-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b STREAM-SPECIFIC B-A STREAM-SPECIFIC B-C

> STREAM-SPECIFIC C-B (1-0.0345W)

GEOMETRIC DETAIL	LS:			THE CAPACITY OF MOV	EME	NT:		COMPARISION OF DESIGN FLOW TO CAPACITY:					
MAJOR ROA	AD (ARM A)									TO CAPACITY.			
W =	7.30	(metres)	D	=	0.8217	Q b-a	=	484		DFC b-a	=	0.0041	
W cr =	0	(metres)	E	=	0.8628	Q b-c	=	623		DFC b-c	=	0.0000	
q a-b =	2	(pcu/hr)	F	=	1.2464	Q c-b	=	899		DFC c-b	=	0.0011	
q a-c =	85	(pcu/hr)	Υ	=	0.7482	Q b-ac	=	484		DFC b-ac (share lane)	=	0.0041	
MAJOR ROA	D (ARM C)		F for (Qb-a	ic) =	0.0000								
W c-b =	7.30	(metres)				TOTAL FLOW	\cong	173	(PCU/HR)				
Vr c-b =	40	(metres)											
q c-a =	83	(pcu/hr)											
q c-b =	1	(pcu/hr)											

CRITICAL DFC

= 0.00

DATE

Jul-24

Jul-24

Jul-24

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1 Lo Wai Road/Access Road to the Site

Vrb-a =

Vrb-c =

q b-a =

q b-c =

50 (metres)

30 (metres)

2 (pcu/hr)

0 (pcu/hr)

PRIORITY JUNCTION CALCULATION 2019 Existing PM PROJECT NO.: 40243

(Weekday)

PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24
FILENAME :	J1 Weekday.xlsx	CHECKED BY:	SLN	Jul-24
REFERENCE NO	.:	REVIEWED BY:	SLN	Jul-24

INITIALS

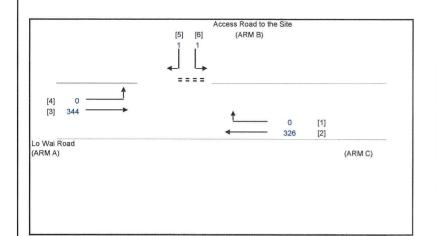
DATE

	Access Road to the Site
	[5] [6] (ARM B) 2 0 = = = =
[4] 2 1	1 [1] 96 [2]
Lo Wai Road (ARM A)	(ARM C)

```
NOTES: ( GEOMETRIC INPUT DATA )
                 MAJOR ROAD WIDTH
      W =
      W cr =
                 CENTRAL RESERVE WIDTH
     W b-a = I ANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
      W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
      W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
      VIb-a =
                 VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
      Vrh-a =
      Vrb-c =
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
      Vr c-b =
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
                 STREAM-SPECIFIC B-A
                 STREAM-SPECIFIC B-C
                 STREAM-SPECIFIC C-B
                 (1-0.0345W)
```

GEOMETRIC DE			GEOMETRIC FACT	ORS :		THE CAPACITY OF MOV	/EME	ENT :		COMPARISION OF DESIGN FLOW TO CAPACITY:		
MAJOR	ROAD (ARM A	i)						170		DEC 1	=	0.0042
W =	7.30	(metres)	D	=	0.8217	Q b-a	=	479		DFC b-a		
W cr =	0	(metres)	E	=	0.8628	Q b-c	=	620		DFC b-c	=	0.0000
qa-b =	2	(pcu/hr)	F	=	1.2464	Q c-b	=	895		DFC c-b	=	0.0011
q a-c =			Y	=	0.7482	Q b-ac	=	479		DFC b-ac (share lane)	=	0.0042
W c-b = Vr c-b = q c-a = q c-b =	40 96 1	(metres) (metres) (pcu/hr) (pcu/hr)	F for (Qb-a	ic) =	0.0000	TOTAL FLOW	Ξ	199	(PCU/HR)	CRITICAL DFC	=	0.00
579997736283037 500	OAD (ARM B											
W b-a =	3.00	(metres)										
W b-c =	3.00	(metres)										
VI b-a =	40	(metres)										

LLA CONSULTANCY LIMITED	PRIORITY JUNCT	ION CALCU	JLATION		INITIALS	DATE
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and	2019 Existing AM	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24
Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories		FILENAME:	J1_Weekend.xlsx	CHECKED BY:	SLN	Jul-24
J1 Lo Wai Road/Access Road to the Site		REFERENCE NO	D.:	REVIEWED BY:	SLN	Jul-24



GEOMETRIC FACTORS:

GEOMETRIC DETAILS:

NOTES: (GEOMETRIC INPUT DATA) W = MAJOR ROAD WIDTH CENTRAL RESERVE WIDTH W cr = W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a VI b-a = Vrb-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c. Vrc-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b D = STREAM-SPECIFIC B-A E = STREAM-SPECIFIC B-C STREAM-SPECIFIC C-B F = (1-0.0345W)

COMPARISION OF DESIGN FLOW

02011211110 0211112			SESILE ITAG I AG I G			THE OAL ASTITION III	OVLIN	LIVI .		TO CAPACITY:		
MAJOR ROAI	D (ARM A)											
W =	7.30	(metres)	D	=	0.8217	Q b-a	=	392		DFC b-a	=	0.0026
W cr =	0	(metres)	E	=	0.8628	Q b-c	=	562	×	DFC b-c	=	0.0018
q a-b =	0	(pcu/hr)	F	=	1.2464	Q c-b	=	812		DFC c-b	=	0.0000
q a-c =	344	(pcu/hr)	Υ	=	0.7482	Q b-ac	=	462		DFC b-ac (share lane)	=	0.0043
MAJOR ROAD	(ARM C)		F for (Qb-ac)	=	0.5000							
W c-b =	7.30	(metres)				TOTAL FLOW	=	672	(PCU/HR)			
Vr c-b =	40	(metres)							,			
q c-a =	326	(pcu/hr)										
q c-b =	0	(pcu/hr)										
										CRITICAL DFC	=	0.00
MINOR ROAD	(ARM B)											
W b-a =	3.00	(metres)										
W b-c =	3.00	(metres)										
VI b-a ≔	40	(metres)										
Vrb-a =	50	(metres)										
Vr b-c =	30	(metres)										
q b-a =	1	(pcu/hr)										
a b-c =	1	(pcu/hr)										

THE CAPACITY OF MOVEMENT:

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Access Road to the Site

Vrb-c =

q b-a =

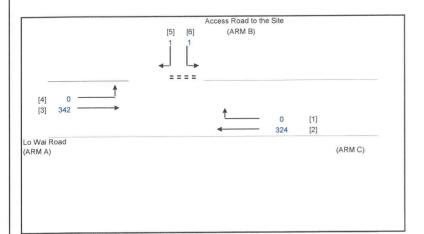
q b-c =

30 (metres) 1 (pcu/hr)

1 (pcu/hr)

2019 Existing Noon (Weekend)

	PRIORITY JUNCTI	ON CALCU	LATION		INITIALS	DATE	
	2040 Eviation Name	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
	2019 Existing Noon	FILENAME :	J1_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
-	(Weekend)	REFERENCE NO		REVIEWED BY:	SLN	Jul-24	



```
NOTES: (GEOMETRIC INPUT DATA)
                  MAJOR ROAD WIDTH
                  CENTRAL RESERVE WIDTH
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
      VI b-a =
                  VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
      Vrb-a =
      Vr b-c =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
      Vr c-h =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
                  STREAM-SPECIFIC B-A
                  STREAM-SPECIFIC B-C
                  STREAM-SPECIFIC C-B
                  (1-0.0345W)
```

GEOMETRIC	GEOMETRIC DETAILS: MAJOR ROAD (ARM A)		GEOMETRIC FA	стс	RS:		THE CAPACITY OF MO	VEME	ENT:		COMPARISION OF DESIGN FLOW TO CAPACITY:			
MAJO	R ROA	D (ARM A)						-						0.0025
W	=	7.30	(metres)	D		=	0.8217	Q b-a	=			DFC b-a	=	
W cr	=	0	(metres)	E		=	0.8628	Q b-c	=	562		DFC b-c	=	0.0018
q a-b	=	0	(pcu/hr)	F		=	1.2464	Q c-b	=	812		DFC c-b	=	0.0000
q a-c		342	(pcu/hr)	Υ		=	0.7482	Q b-ac	=	463		DFC b-ac (share lane)	=	0.0043
MAJO	R ROAI	D (ARM C)		F for (Q	b-ac) =	0.5000							
W c-l	o =	7.30	(metres)					TOTAL FLOW	f = f	668	(PCU/HR)			
Vr c-k) =	40	(metres)											
q c-a	=	324	(pcu/hr)											
q c-b	=	0	(pcu/hr)									CDITION DEC		0.00
1												CRITICAL DFC	=	0.00
MINO	ROAD	(ARM B)												
W b-	a =	3.00	(metres)											
W b-	c =	3.00	(metres)											
VI b-a	=	40	(metres)											
Vr b-a	a =	50	(metres)											

LLA CONSULTANCY LIMITED PRIORITY JUNCTION CALCULATION INITIALS DATE Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and PROJECT NO.: 40243 PREPARED BY: SKI Jul-24 2019 Existing PM Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories FILENAME : J1 Weekend.xlsx CHECKED BY: SIN Jul-24 (Weekend)

REFERENCE NO .:

	Access Road to the Site [5] [6] (ARM B) = = = =
[4] 0 [3] 371	0 [1] 351 [2]
_o Wai Road /ARM A)	(ARM C)

J1 Lo Wai Road/Access Road to the Site

```
NOTES: ( GEOMETRIC INPUT DATA )
      W =
                 MAJOR ROAD WIDTH
      W cr =
                 CENTRAL RESERVE WIDTH
      W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
      W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
      W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
                 VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
      VI b-a =
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
      Vr b-a =
      Vr b-c =
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
      Vr c-b =
       D =
                 STREAM-SPECIFIC B-A
                 STREAM-SPECIFIC B-C
                 STREAM-SPECIFIC C-B
                 (1-0.0345W)
```

REVIEWED BY:

SLN

Jul-24

METRIC DETAILS:		GEOMETRIC FACTORS:		THE CAPACITY OF MOVEMENT :		COMPARISION OF DESIGN FLOW TO CAPACITY:	
MAJOR ROAD (ARM A							
W = 7.30	(metres)	D =	0.8217	Q b-a = 383		DFC b-a	= 0.0026
W cr = 0	(metres)	E =	0.8628	Q b-c = 556		DFC b-c	= 0.0018
q a-b = 0	(pcu/hr)	F =	1.2464	Q c-b = 803		DFC c-b	= 0.0000
q a-c = 371	(pcu/hr)	Y =	0.7482	Q b-ac = 454		DFC b-ac (share lane)	= 0.0044
MAJOR ROAD (ARM C)	F for (Qb-ac) =	0.5000				
W c-b = 7.30	(metres)			TOTAL FLOW = 724	(PCU/HR)		
Vrc-b = 40	(metres)						
q c-a = 351	(pcu/hr)						
q c-b = 0	(pcu/hr)						
						CRITICAL DFC	= 0.00
MINOR ROAD (ARM B)							
W b-a = 3.00	(metres)						
W b-c = 3.00	(metres)						
VI b-a = 40	(metres)						1
Vr b-a = 50	(metres)						,
Vr b-c = 30	(metres)						
q b-a = 1	(pcu/hr)						
q b-c = 1	(pcu/hr)						

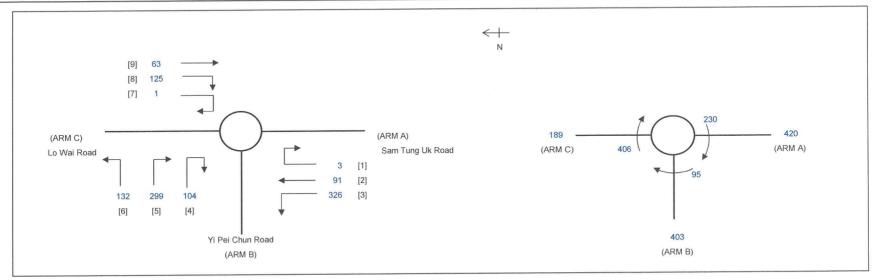
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABO	OUT CA	ALCUI	ATION
	JUIUr		_/ \ \ \

2019 Existing AM (Weekday)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME :	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



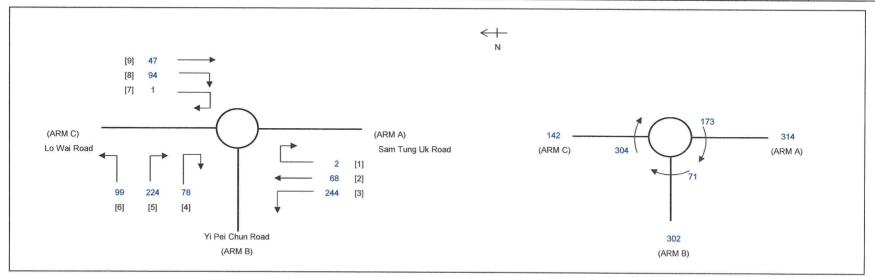
ARM		-	А	В	С			
NPUT	PARA	AMETERS:						
/	=	Approach half width (m)	3.50	3.65	3.50			
Ξ	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
3	=	Entry radius (m)	40.00	50.00	40.00			
)	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
A	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	420	403	189			
Qc	=	Circulating flow across entry (pcu/h)	230	95	406			
OUTP	UT PA	RAMETERS:						
3	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
Л	=	EXP((D-60)/10)	0.04	0.04	0.04			
ž.	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1547	1049	1466	Total In Sum =	1333	PC
FC	=	Design flow/Capacity = Q/Qe	0.27	0.38	0.13	DFC of Critical Approach =	0.38	

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

2019	Existing Noon
(Weekday)

ROUNDABOUT	CALCULATI	ON		INITIALS	DATE
2019 Existing Noon	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24
(Weekday)	FILENAME:	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24
(Weekday)	REFERENCE NO .:	J2	REVIEWED BY:	SLN	Jul-24



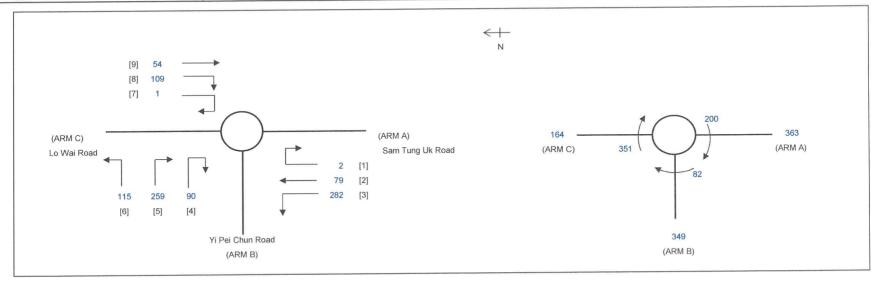
ARM			Α	В	С			
INPU	T PAR	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	314	302	142			
Qc	=	Circulating flow across entry (pcu/h)	173	71	304			
OUTE	PUT PA	ARAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	Ξ	K(F-Fc*Qc)	1586	1062	1536	Total In Sum =	999	F
DFC	=	Design flow/Capacity = Q/Qe	0.20	0.28	0.09	DFC of Critical Approach =	0.28	

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

2 Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

2019 Existing PM (Weekday)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



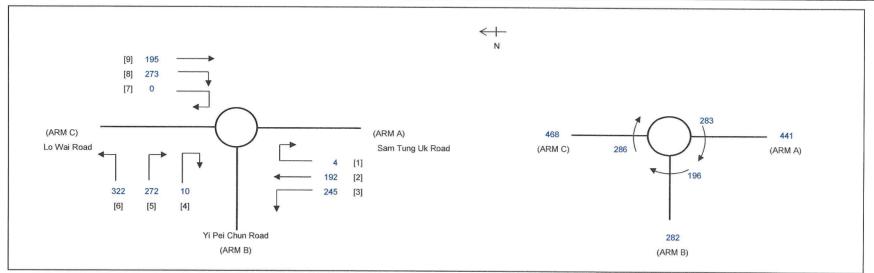
ARM			А	В	С			
INPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	363	349	164			
Qc	=	Circulating flow across entry (pcu/h)	200	82	351			
OUTPU	JT PA	RAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64	T	1155	PCU
Qe	=	K(F-Fc*Qc)	1568	1056	1504	Total In Sum =	1155	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.23	0.33	0.11	DFC of Critical Approach =	0.33	

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

2019 Existing AM (Weekend)

ROUNDABOUT	CALCULATI	ON		INITIALS	DATE
2019 Existing AM	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24
(Weekend)	FILENAME:	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24
(WCCRCIII)	REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24



ARM			Α	В	С			
INPU	Γ PAR	AMETERS:				,		
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	441	282	468			
Qc	=	Circulating flow across entry (pcu/h)	283	196	286			
OUTF	UT PA	ARAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	Ξ	K(F-Fc*Qc)	1511	995	1549	Total In Sum =	1981	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.29	0.28	0.30	DFC of Critical Approach =	0.30	

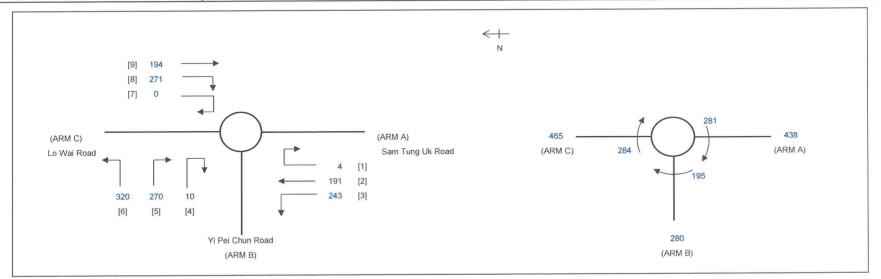
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J2 Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION

2019 Existing Noon (Weekend)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



ARM			Α	В	C			
NPU	PAR	AMETERS:						
/	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
2	=	Entry radius (m)	40.00	50.00	40.00			
)	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	438	280	465			
Qc	=	Circulating flow across entry (pcu/h)	281	195	284			
OUTF	UT PA	ARAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1512	996	1550	Total In Sum =	1968	PC
DFC	=	Design flow/Capacity = Q/Qe	0.29	0.28	0.30	DFC of Critical Approach =	0.30	

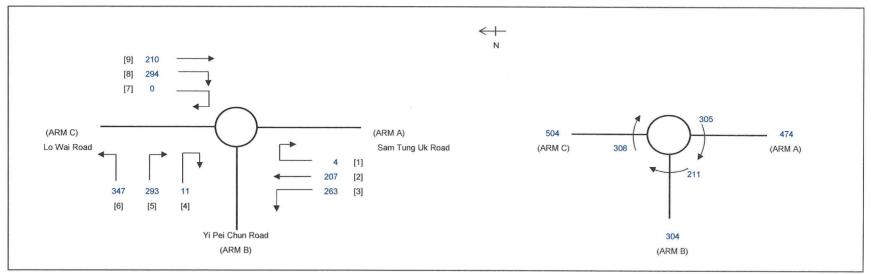
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J2 Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION

2019 Existing PM (Weekend)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



ARM			Α	В	С			
NPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
3	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	\equiv	Entry flow (pcu/h)	474	304	504			
Qc	=	Circulating flow across entry (pcu/h)	305	211	308			
DUTP	UT PA	RAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
(2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M.	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1496	987	1534	Total In Sum =	2133	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.32	0.31	0.33	DFC of Critical Approach =	0.33	

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1 Lo Wai Road/Access Road to the Site

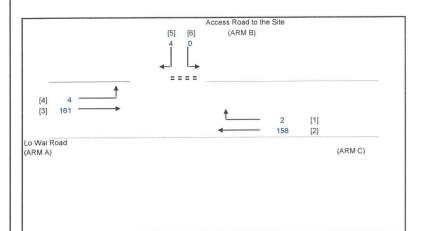
q b-a =

q b-c =

4 (pcu/hr) 0 (pcu/hr)

2028 Reference AM (Weekday)

	PRIORITY JUNCTI	PRIORITY JUNCTION CALCULATION										
	2020 Deference AM	PROJECT NO.: 40243		PREPARED BY:	SKL	Jul-24						
		FILENAME :	J1_Weekday.xlsx	CHECKED BY:	SLN	Jul-24						
1	(Weekday)	REFERENCE NO	.:	REVIEWED BY:	SLN	Jul-24						



```
NOTES: (GEOMETRIC INPUT DATA)
      w =
                  MAJOR ROAD WIDTH
                  CENTRAL RESERVE WIDTH
      W cr =
      W b-a =
                  I ANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
      W c-b =
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
                  VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
      VI b-a =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
      Vrb-a =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
      Vr b-c =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
      Vr c-b =
                  STREAM-SPECIFIC B-A
       D =
                  STREAM-SPECIFIC B-C
        E =
                  STREAM-SPECIFIC C-B
                  (1-0.0345W)
```

GEC	GEOMETRIC DETAILS: MAJOR ROAD (ARM A)		GEOMETRIC FACTO	GEOMETRIC FACTORS:			VEME	ENT :		COMPARISION OF DESIGN FLOW TO CAPACITY:				
							0.8217	Q b-a	=	456		DFC b-a	=	0.0088
	W		7.30	(metres)	D	=							=	0.0000
	W cr	=	0	(metres)	E	=	0.8628	Q b-c	=	605		DFC b-c		
	q a-b	=	4	(pcu/hr)	F	=	1.2464	Q c-b	=	873		DFC c-b	=	0.0023
	q a-c	=	161	(pcu/hr)	Y	=	0.7482	Q b-ac	=	456		DFC b-ac (share lane)	=	0.0088
	MAJOR W c-b Vr c-b q c-a q c-b	= = =	7.30 40 158 2	(metres) (metres) (pcu/hr) (pcu/hr)	F for (Qb-ac	c) =	0.0000	TOTAL FLÖW	Ξ	329	(PCU/HR)	CRITICAL DFC	=	0.01
- 1	MINOR	ROAD (A	ARM B)											
	W b-a	=	3.00	(metres)										
	W b-c	=	3.00	(metres)										
	VI b-a	=	40	(metres)										
	Vr b-a	=	50	(metres)										
	Vr b-c	=	30	(metres)										

APPENDIX B

Junction Capacity Assessment
- 2028 Reference & Design Scenarios

LLA CONSULTANCY LIMITEDPRIORITY JUNCTION CALCULAProposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and2028 ReferencePROJECT NO.:

Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1	Lo Wai Road/Access	s Road to the Site

30 (metres)

3 (pcu/hr)

0 (pcu/hr)

Vr b-c = q b-a =

q b-c =

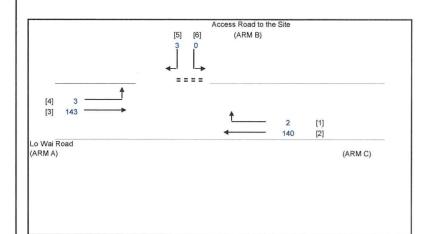
		A	ccess Road to th	e Site		
	[5]	[6]	(ARM B)			
[4] 3	==	== _	<u>†</u>	2 125	[1] [2]	
Wai Road RM A)						(ARM C)

```
PRIORITY JUNCTION CALCULATION
                                                                      INITIALS
                                                                                   DATE
                                                                                  Jul-24
                                                   PREPARED BY:
                                                                        SKL
                    PROJECT NO.: 40243
      Noon
                                                                        SLN
                                                                                   Jul-24
                    FILENAME :
                                 J1_Weekday.xlsx
                                                   CHECKED BY:
    (Weekday)
                    REFERENCE NO.:
                                                   REVIEWED BY:
                                                                        SIN
                                                                                   Jul-24
```

```
NOTES: (GEOMETRIC INPUT DATA)
     W = MAJOR ROAD WIDTH
     W cr = CENTRAL RESERVE WIDTH
     W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
      W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
      W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
               VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
      VI b-a =
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
      Vr c-b =
                 STREAM-SPECIFIC B-A
       E =
                 STREAM-SPECIFIC B-C
                 STREAM-SPECIFIC C-B
                 (1-0.0345W)
```

	GEOMETRIC DETAILS:		GEOMETRIC FACT	GEOMETRIC FACTORS :			THE ON MOTHER TO				COMPARISION OF DESIGN FLOW TO CAPACITY:			
MAJOF	ROAD	(ARM A)									DEO I	=	0.0064	
W	=	7.30	(metres)	D	=	0.8217	Q b-a	=	468		DFC b-a			
W cr	=	0	(metres)	E	=	0.8628	Q b-c	=			DFC b-c	=	0.0000	
q a-b	=	3	(pcu/hr)	F	=	1.2464	Q c-b	=	884		DFC c-b	=	0.0023	
q a-c		127	(pcu/hr)	Υ	=	0.7482	Q b-ac	=	468		DFC b-ac (share lane)	=	0.0064	
MAJOR	ROAD	(ARM C)		F for (Qb-a	c) =	0.0000								
W c-b	=	7.30	(metres)				TOTAL FLOW	=	260	(PCU/HR)				
Vr c-b	=	40	(metres)											
q c-a		125	(pcu/hr)											
q c-b	=	2	(pcu/hr)								CRITICAL DFC	=	0.01	
MINOR	ROAD	(ARM B)												
W b-a	=	3.00	(metres)											
W b-c	=	3.00	(metres)											
VI b-a	=	40	(metres)											
Vr b-a	=	50	(metres)											

LLA CONSULTANCY LIMITED PRIORITY JUNCTION CALCULATION INITIALS DATE Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and PROJECT NO.: 40243 PREPARED BY: SKI Jul-24 2028 Reference PM Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories FILENAME : J1 Weekday.xlsx CHECKED BY: SLN Jul-24 (Weekday) J1 Lo Wai Road/Access Road to the Site REFERENCE NO.: REVIEWED BY: SLN Jul-24



q b-c =

0 (pcu/hr)

NOTES: (GEOMETRIC INPUT DATA) MAJOR ROAD WIDTH W = W cr = CENTRAL RESERVE WIDTH LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b W c-b = VI b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a Vrb-a = Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b D = STREAM-SPECIFIC B-A E = STREAM-SPECIFIC B-C STREAM-SPECIFIC C-B (1-0.0345W)

GEOMETRIC DETAILS: MAJOR ROAD (ARM A)		GEOMETRIC FACT	GEOMETRIC FACTORS:		THE CAPACITY OF MO	THE CAPACITY OF MOVEMENT:			COMPARISION OF DESIGN FLOW TO CAPACITY:				
W =	7.30	(metres)	D	=	0.8217	Q b-a	je	463		DFC b-a	=	0.0065	
W cr =	0	(metres)	E	=	0.8628	Q b-c	=	609		DFC b-c	=	0.0000	
q a-b =	3	(pcu/hr)	F	=	1.2464	Q c-b	Ξ	879		DFC c-b	=	0.0023	
q a-c =	143	(pcu/hr)	· ·	=	0.7482	Q b-ac	=	463		Acceptance of the second of th			
quo -	145	(pearity		_	0.1402	Q b-ac	_	403		DFC b-ac (share lane)	=	0.0065	
MAJOR ROAD (A	RM C)		F for (Qb-a	c) =	0.0000								
W c-b =	7.30	(metres)				TOTAL FLOW	=	291	(PCU/HR)				
Vrc-b =	40	(metres)							Sec. Property and the Co.				
q c-a =	140	(pcu/hr)											
q c-b =	2	(pcu/hr)											
,,	-									CRITICAL DFC	=	0.01	
MINOR ROAD (A	RM B)											0101	
W b-a =	3.00	(metres)											
W b-c =	3.00	(metres)											
VI b-a =	40	(metres)											
Vrb-a =	50	(metres)											
Vrb-c =	30	(metres)											
q b-a =	3	(pcu/hr)											

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Access Road to the Site

Vrb-c =

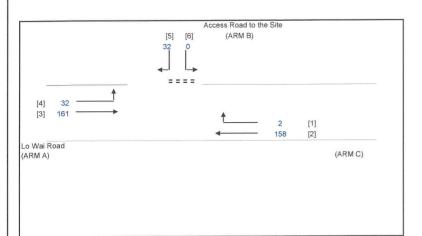
q b-a =

30 (metres) 32 (pcu/hr)

0 (pcu/hr)

2028 Design AM (Weekday)

PRIORITY JUNCTI	PRIORITY JUNCTION CALCULATION										
2020 Decign AM	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24						
2028 Design AM	FILENAME :	J1_Weekday.xlsx	CHECKED BY:	SLN	Jul-24						
(Weekday)	REFERENCE NO).:	REVIEWED BY:	SLN	Jul-24						



```
NOTES: ( GEOMETRIC INPUT DATA )
      W =
                 MAJOR ROAD WIDTH
      W cr =
                 CENTRAL RESERVE WIDTH
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
      W b-a =
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
      VI b-a =
                  VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
      Vrb-a =
      Vr b-c =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
      Vr c-b =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
                  STREAM-SPECIFIC B-A
                  STREAM-SPECIFIC B-C
                 STREAM-SPECIFIC C-B
                 (1-0.0345W)
```

Γ														
	GEOMETRIC DETAILS:			GEOMETRIC FACT	GEOMETRIC FACTORS:			/EME	ENT:		COMPARISION OF DESIGN FLOW TO CAPACITY:			
	MAJOR ROAL	(ARM A)												
	W =	7.30	(metres)	D	=	0.8752	Q b-a	=	483		DFC b-a	=	0.0663	
- 1	W cr =	0	(metres)	E	=	0.9190	Q b-c	=	641		DFC b-c	=	0.0000	
	q a-b =	32	(pcu/hr)	F	=	1.2464	Q c-b	=	863		DFC c-b	=	0.0023	
	q a-c =	161	(pcu/hr)	Y	=	0.7482	Q b-ac	=	483		DFC b-ac (share lane)	=	0.0663	
	MAJOR ROAD (ARM C)		F for (Qb-ac	a) =	0.0000									
	W c-b =	7.30	(metres)				TOTAL FLOW	=	385	(PCU/HR)				
	Vr c-b =	40	(metres)											
	q c-a =	158	(pcu/hr)											
- 1	q c-b =	2	(pcu/hr)											
											CRITICAL DFC	=	0.07	
	MINOR ROAD (ARM B)													
	W b-a =	3.65	(metres)											
	W b-c =	3.65	(metres)											
	VI b-a =	40	(metres)											
	Vr b-a =	50	(metres)											

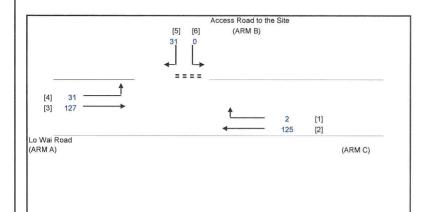
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1 Lo Wai Road/Access Road to the Site

PRIORIT	Y	JUNCTION	CALCULATION
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2028 Design Noon (Weekday)

П	ON CALCUI	_ATION		INITIALS	DATE	
,	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
•	FILENAME:	J1_Weekday.xlsx	CHECKED BY:	SLN	Jul-24	
	REFERENCE NO.	:	REVIEWED BY:	SLN	Jul-24	



NOTES: (GEOMETRIC INPUT DATA) MAJOR ROAD WIDTH CENTRAL RESERVE WIDTH W cr = W h-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b VI b-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a Vrb-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c Vr c-b = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b STREAM-SPECIFIC B-A STREAM-SPECIFIC B-C STREAM-SPECIFIC C-B (1-0.0345W)

1														
	GEOMETRIC DETAILS	S:		GEOMETRIC FAC	rors :		THE CAPACIT	Y OF MOVE	MEN	T:		COMPARISION OF DESIGN FLOW TO CAPACITY:		
	MAJOR ROAD	(ARM A)												
	W =	7.30	(metres)	D	=	0.8752	Q b-a	:	=	496		DFC b-a	=	0.0625
	W cr =	0	(metres)	E	=	0.9190	Q b-c	=	=)	650		DFC b-c	=	0.0000
1	q a-b =	31	(pcu/hr)	F	=	1.2464	Q c-b	=	= 1	875		DFC c-b	=	0.0023
	qa-c =	127	(pcu/hr)	Y	=	0.7482	Q b-ac		=	496		DFC b-ac (share lane)	=	0.0625
	MAJOR ROAD	(ARM C)		F for (Qb-a	ac) =	0.0000								
1	W c-b =	7.30	(metres)				TOTAL	FLOW =	=	316	(PCU/HR)			
1	Vr c-b =	40	(metres)											
	q c-a =	125	(pcu/hr)											
	q c-b =	2	(pcu/hr)											
												CRITICAL DFC	=	0.06
	MINOR ROAD	(ARM B)												
1	W b-a =	3.65	(metres)				W							
1	W b-c =	3.65	(metres)											
	VIb-a =	40	(metres)											
1	Vrb-a =	50	(metres)											
	Vr b-c =	30	(metres)											
	q b-a =	31	(pcu/hr)											
1	q b-c =	0	(pcu/hr)											

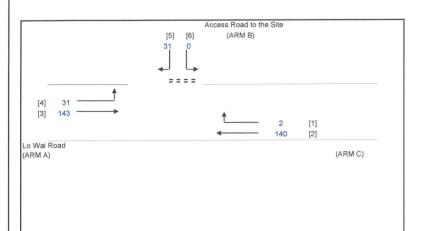
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1 Lo Wai Road/Access Road to the Site

PRIORITY JUNCTION CALCULATION

2028 Design PM (Weekday)

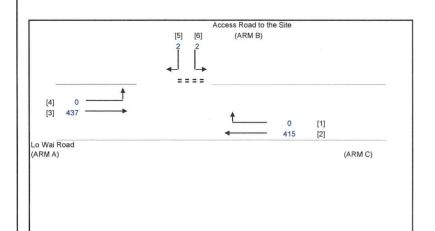
ION CALCULATION	INITIALS	DATE		
PROJECT NO.: 40243	PREPARED BY:	SKL	Jul-24	
FILENAME: J1_Weekday.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	REVIEWED BY:	SLN	Jul-24	



```
NOTES: (GEOMETRIC INPUT DATA)
      W =
                 MAJOR ROAD WIDTH
                 CENTRAL RESERVE WIDTH
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
      W c-b =
                 VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
                 VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
                 STREAM-SPECIFIC B-A
                 STREAM-SPECIFIC B-C
                 STREAM-SPECIFIC C-B
                 (1-0.0345W)
```

GEOMETRIC DETAILS:			GEOMETRIC FA	GEOMETRIC FACTORS:			THE CAPACITY OF MOVEMENT :				COMPARISION OF DESIGN FLOW TO CAPACITY:		
MAJOR ROA													
W =	7.30	(metres)	D	=	0.8752	Q b-a		490		DFC b-a	=	0.0633	
W cr =	0	(metres)	E	=		Q b-c		646		DFC b-c	=	0.0000	
q a-b =	31	(pcu/hr)	F	=	1,12,12,1	Q c-b		870		DFC c-b	=	0.0023	
q a-c =	143	(pcu/hr)	Y	=	0.7482	Q b-ac	=	490		DFC b-ac (share lane)	=	0.0633	
MAJOR ROAL	(ARM C)		F for (Q	o-ac) =	0.0000								
W c-b =	7.30	(metres)				TOTAL FLOW	=	347	(PCU/HR)				
Vr c-b =	40	(metres)											
q c-a =	140	(pcu/hr)											
q c-b =	2	(pcu/hr)											
										CRITICAL DFC	=	0.06	
MINOR ROAD	(ARM B)												
W b-a =	3.65	(metres)											
W b-c =	3.65	(metres)											
VI b-a =	40	(metres)											
Vr b-a =	50	(metres)											
Vr b-c =	30	(metres)											
q b-a =	31	(pcu/hr)											
		(pcu/hr)											

LLA CONSULTANCY LIMITED PRIORITY JUNCTION CALCULATION INITIALS DATE Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and PROJECT NO.: 40243 PREPARED BY: SKL Jul-24 2028 Reference AM Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories FILENAME : J1 Weekend.xlsx CHECKED BY: SLN Jul-24 (Weekend) J1 Lo Wai Road/Access Road to the Site REFERENCE NO.: REVIEWED BY: SLN Jul-24



NOTES: (GEOMETRIC INPUT DATA) MAJOR ROAD WIDTH W cr = CENTRAL RESERVE WIDTH W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c. W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b VIb-a = VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a Vrb-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c. Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b Vr c-b = STREAM-SPECIFIC B-A STREAM-SPECIFIC B-C E = STREAM-SPECIFIC C-B (1-0.0345W)

GEOMETRIC DETAILS: MAJOR ROAD (ARM A)	GEOMETRIC FACTORS:	THE CAPACITY OF MOVEMENT:	COMPARISION OF DESIGN FLOW TO CAPACITY:
*			
W = 7.30 (metres)	D = 0.8217	Q b-a = 359	DFC b-a = 0.0056
W cr = 0 (metres)	E = 0.8628	Q b-c = 540	DFC b-c = 0.0037
q a-b = 0 (pcu/hr)	F = 1.2464	Q c-b = 780	DFC c-b = 0.0000
q a-c = 437 (pcu/hr)	Y = 0.7482	Q b-ac = 431	DFC b-ac (share lane) = 0.0093
MAJOR ROAD (ARM C)	F for (Qb-ac) = 0.5000		
W c-b = 7.30 (metres)		TOTAL FLOW = 856 (PCU/HR)	*
Vr c-b = 40 (metres)			
q c-a = 415 (pcu/hr)			
q c-b = 0 (pcu/hr)			
			CRITICAL DFC = 0.01
MINOR ROAD (ARM B)			
W b-a = 3.00 (metres)			
W b-c = 3.00 (metres)			
VI b-a = 40 (metres)			
Vr b-a = 50 (metres)			
Vr b-c = 30 (metres)			
q b-a = 2 (pcu/hr)			
q b-c = 2 (pcu/hr)			

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1 Lo Wai Road/Access Road to the Site

Vrb-a =

Vrb-c =

q b-a =

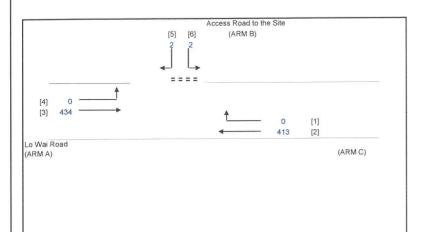
50 (metres)

30 (metres)

2 (pcu/hr) 2 (pcu/hr)

2028 Reference Noon (Weekend)

PRIORITY JUNCTI		INITIALS	DATE		
2028 Reference	PROJECT NO.: 40243		PREPARED BY:	SKL	Jul-24
Noon	FILENAME: J1_We	ekend.xlsx	CHECKED BY:	SLN	Jul-24
(Weekend)	REFERENCE NO.:		REVIEWED BY:	SLN	Jul-24



```
NOTES: (GEOMETRIC INPUT DATA)
      W =
                 MAJOR ROAD WIDTH
      W cr =
                 CENTRAL RESERVE WIDTH
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
      W b-a =
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
      VI b-a =
                  VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
      Vrh-a =
      Vr b-c =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
      Vr c-b =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
                  STREAM-SPECIFIC B-A
                  STREAM-SPECIFIC B-C
                 STREAM-SPECIFIC C-B
                 (1-0.0345W)
```

GEOMETRIC DE	IC DETAILS: GEOMETRIC FACT			ORS:		THE CAPACITY OF MO	/EME		COMPARISION OF DESIGN FLOW TO CAPACITY:				
0.0000000000000000000000000000000000000	20 1000 100 100 -					12 00 121	0.1		000		DFC b-a	=	0.0056
W	= 7.	30	(metres)	D	=	0.8217	Q b-a	=	.000				
W cr	=	0	(metres)	E	=	0.8628	Q b-c	=			DFC b-c	=	0.0037
q a-b	=	0	(pcu/hr)	F	=	1.2464	Q c-b	\equiv	781		DFC c-b	=	0.0000
q a-c	= 4		(pcu/hr)	Υ	=	0.7482	Q b-ac	=	432		DFC b-ac (share lane)	=	0.0093
W c-b Vr c-b q c-a q c-b	= 4	30 40 13 0	(metres) (metres) (pcu/hr) (pcu/hr)	F for (Qb-ad	c) =	0.5000	TOTAL FLOW	=	851	(PCU/HR)	CRITICAL DFC	=	0.01
MINOR	ROAD (ARM	B)											
W b-a	= 3	00	(metres)										
W b-c	= 3	00	(metres)										
VI b-a	= .	10	(metres)										

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1 Lo Wai Road/Access Road to the Site

GEOMETRIC DETAILS:

Vrb-c =

q b-a =

q b-c =

30 (metres)

2 (pcu/hr)

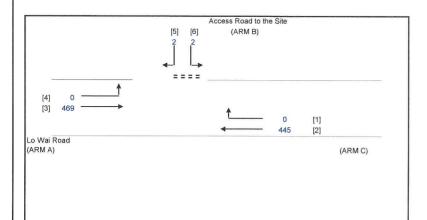
2 (pcu/hr)

PRIORITY JUI	NCTION	CALCUL	ATION
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2028 Reference PM (Weekend)

11	ON CALCU	LATION		INITIALS	DATE	
VI	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
W.L.	FILENAME:	J1_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
	REFERENCE NO	1.:	REVIEWED BY:	SLN	Jul-24	

COMPARISION OF DESIGN FLOW



GEOMETRIC FACTORS:

NOTES: (GEOMETRIC INPUT DATA) MAJOR ROAD WIDTH W cr = CENTRAL RESERVE WIDTH W b-a = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a W b-c = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c W c-b = LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a VI b-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a Vrb-a = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c Vr b-c = VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b Vr c-b = D = STREAM-SPECIFIC B-A STREAM-SPECIFIC B-C STREAM-SPECIFIC C-B (1-0.0345W)

											TO CAPACITY:		
	MAJOR ROAI	D (ARM A)											
	W =	7.30	(metres)	D	=	0.8217	Q b-a	=	348		DFC b-a	=	0.0057
	W cr =	0	(metres)	E	=	0.8628	Q b-c	=	533		DFC b-c	=	0.0038
	q a-b =	0	(pcu/hr)	F	=	1.2464	Q c-b	=	769		DFC c-b	=	0.0000
	q a-c =	469	(pcu/hr)	Υ	=	0.7482	Q b-ac	=	421		DFC b-ac (share lane)	=	0.0095
	MAJOR ROAD	(ARM C)		F for (Qb-a	c) =	0.5000							
1	W c-b =	7.30	(metres)				TOTAL FLOW	=	918	(PCU/HR)			
	Vrc-b =	40	(metres)							, ,			
	q c-a =	445	(pcu/hr)										
1	q c-b =	0	(pcu/hr)										
											CRITICAL DFC	=	0.01
	MINOR ROAD	(ARM B)									OTTIONE DI O		0.01
1	W b-a =	3.00	(metres)										
	W b-c =	3.00	(metres)										
	VI b-a =	40	(metres)										
	Vrb-a =	50	(metres)										

THE CAPACITY OF MOVEMENT:

30 (metres)

30 (pcu/hr)

2 (pcu/hr)

Vrb-c =

g b-c =

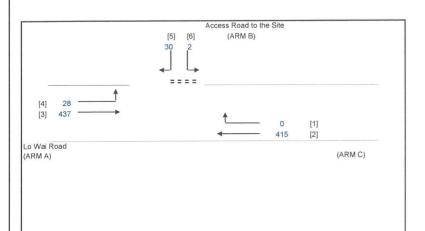
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J1 Lo Wai Road/Access Road to the Site

PRIORITY JUNCTION CALCULATION

2028 Design AM (Weekend)

ION CALCULATIO	N	INITIALS	DATE	
PROJECT NO.: 40243	PREPARED BY:	SKL	Jul-24	
FILENAME: J1_Weel	kend.xlsx CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	REVIEWED BY:	SLN	Jul-24	



```
NOTES: (GEOMETRIC INPUT DATA)
                  MAJOR ROAD WIDTH
      W =
                  CENTRAL RESERVE WIDTH
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
      W c-b =
                  VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
                  STREAM-SPECIFIC B-A
                  STREAM-SPECIFIC B-C
                  STREAM-SPECIFIC C-B
                  (1-0.0345W)
```

GEOMETRIC DETAILS:		GEOMETRIC FACT	GEOMETRIC FACTORS:			VEME	:NT :		COMPARISION OF DESIGN FLOW TO CAPACITY:				
MAJOR F	ROAD (ARM A)												
W =	7.30	(metres)	D	=	0.8752	Q b-a	=	380		DFC b-a	=	0.0789	
W cr =	0	(metres)	E	=	0.9190	Q b-c	=	573		DFC b-c	=	0.0035	
q a-b =	28	(pcu/hr)	F	=	1.2464	Q c-b	=	771		DFC c-b	=	0.0000	
q a-c =	437	(pcu/hr)	Y	=	0.7482	Q b-ac	=	388		DFC b-ac (share lane)	=	0.0824	
MAJOR R	OAD (ARM C)		F for (Qb-ad	c) =	0.0625								
W c-b =	7.30	(metres)				TOTAL FLOW	=	912	(PCU/HR)				
Vr c-b =	40	(metres)											
q c-a =	415	(pcu/hr)											
q c-b =	0	(pcu/hr)											
										CRITICAL DFC	=	80.0	
MINOR R	OAD (ARM B)												
W b-a =	3.65	(metres)											
W b-c =	3.65	(metres)											
VI b-a =	40	(metres)											
Vr b-a =	50	(metres)											

LLA CONSULTANCY LIMITED PRIORITY JUNCTION CALCULATION Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories 2028 Design Noon (Weekend) PROJECT NO.: 40243 PREPARED BY: CHECKED BY:

				Access Road to the	e Site		
_			[5] [6] 30 2 ====	(ARM B)			
[4] [3]	28 —— 434 ——			<u>†</u>	0 413	[1] [2]	
o Wai F ARM A)							(ARM C)

GEOMETRIC FACTORS:

J1 Lo Wai Road/Access Road to the Site

GEOMETRIC DETAILS:

```
NOTES: (GEOMETRIC INPUT DATA)
                  MAJOR ROAD WIDTH
      W cr =
                  CENTRAL RESERVE WIDTH
      W b-a =
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
      W b-c =
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
      W c-b =
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
                  VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
      Vrb-a =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c.
      Vrc-b =
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM C-b
                  STREAM-SPECIFIC B-A
                  STREAM-SPECIFIC B-C
                  STREAM-SPECIFIC C-B
                  (1-0.0345W)
```

COMPARISION OF DESIGN FLOW

REVIEWED BY:

REFERENCE NO.:

INITIALS

SKL

SLN

SLN

DATE

Jul-24

Jul-24

Jul-24

										TO CAPACITY:		
MAJOR ROA	D (ARM A)									TO ONE MOIT !		
W =	7.30	(metres)	D	=	0.8752	Q b-a		381		DFC b-a	=	0.0787
W cr =	0	(metres)	E	=	0.9190	Q b-c	=	573		DFC b-c	=	0.0035
q a-b =	28	(pcu/hr)	F	=	1.2464	Q c-b	=	772		DFC c-b	=	0.0000
q a-c =	434	(pcu/hr)	Υ	=	0.7482	Q b-ac	=	389		DFC b-ac (share lane)	=	0.0822
MAJOR ROAL	D (ARM C)		F for (Qb-	-ac) =	0.0625							
W c-b =	7.30	(metres)				TOTAL FLOW	=	907	(PCU/HR)			
Vr c-b =	40	(metres)										
q c-a =	413	(pcu/hr)										
q c-b =	0	(pcu/hr)										
										CRITICAL DFC	=	80.0
MINOR ROAD	(ARM B)											7-7.7
W b-a =	3.65	(metres)										
W b-c =	3.65	(metres)										
VI b-a =	40	(metres)										
Vr b-a =	50	(metres)										
Vr b-c =	30	(metres)										
q b-a =	30	(pcu/hr)										
q b-c =	2	(pcu/hr)										

THE CAPACITY OF MOVEMENT:

30 (metres)

30 (pcu/hr)

2 (pcu/hr)

Vr b-c = q b-a =

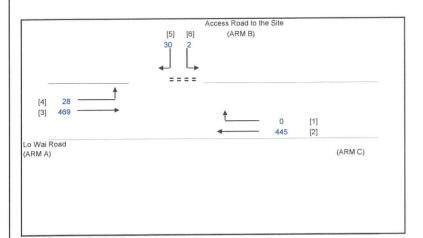
q b-c =

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

.I1 Lo Wai Road/Access Road to the Site

2028 Design PM
2020 Design FW
(Weekend)
(## 6 6 1 6 1 1 6 1

	PRIORITY JUNCT	ION CALCU		INITIALS	DATE	
	2020 Danius DM	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24
	2028 Design PM	FILENAME :	J1_Weekend.xlsx	CHECKED BY:	SLN	Jul-24
1	(Weekend)	REFERENCE NO).:	REVIEWED BY:	SLN	Jul-24



```
NOTES: ( GEOMETRIC INPUT DATA )
                  MAJOR ROAD WIDTH
      W =
                  CENTRAL RESERVE WIDTH
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-a
                 LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM b-c
      W c-b =
                  LANE WIDTH AVAILABLE TO VEHICLE WAITING IN STREAM c-b
                  VISIBILITY TO THE LEFT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-a
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM b-c
                  VISIBILITY TO THE RIGHT FOR VEHICLES WAITING IN STREAM c-b
      Vr c-b =
                  STREAM-SPECIFIC B-A
                  STREAM-SPECIFIC B-C
                  STREAM-SPECIFIC C-B
                  (1-0.0345W)
```

GEOMETRIC DE			GEOMETRIC FACT	ORS :		THE CAPACITY OF MO	VEME	ENT:		COMPARISION OF DESIGN FLOW TO CAPACITY:		
MAJOR F	ROAD (ARM A)							000		DFC b-a	=	0.0815
W =	7.30	(metres)	D	=	0.8752	Q b-a		368				
W cr =	0	(metres)	E	=	0.9190	Q b-c		565		DFC b-c	=	0.0035
g a-b =	28	(pcu/hr)	F	=	1.2464	Q c-b	=	760		DFC c-b	=	0.0000
q a-c =		(pcu/hr)	Y	=	0.7482	Q b-ac	=	376		DFC b-ac (share lane)	=	0.0851
MAJOR R	OAD (ARM C)		F for (Qb-a	c) =	0.0625							
W c-b =	7.30	(metres)				TOTAL FLOW	=	974	(PCU/HR)			
Vr c-b =	40	(metres)										
q c-a =	445	(pcu/hr)										
q c-b =	0	(pcu/hr)								CRITICAL DFC	=	0.09
										CRITICAL DEC	_	0.09
MINOR R	OAD (ARM B)											
W b-a =	3.65	(metres)										
W b-c =	3.65	(metres)										
VI b-a =	40	(metres)										
Vrb-a =	50	(metres)										

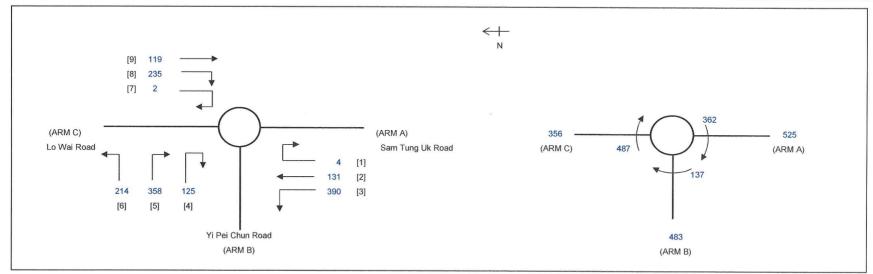
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J2 Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION

2028 Reference AM (Weekday)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



ARM			Α	В	С			
NPU"	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
Е	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	525	483	356			
Qc	=	Circulating flow across entry (pcu/h)	362	137	487			
3011	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0,23			
		RAMETERS:						
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
K 2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
М	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48	8		
-c	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1457	1027	1409	Total In Sum =	1934	PC
OFC	=	Design flow/Capacity = Q/Qe	0.36	0.47	0.25	DFC of Critical Approach =	0.47	

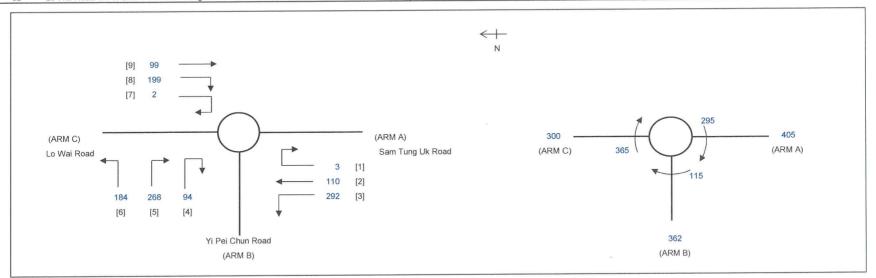
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

I2 Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION

2028 Reference Noon (Weekday)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	

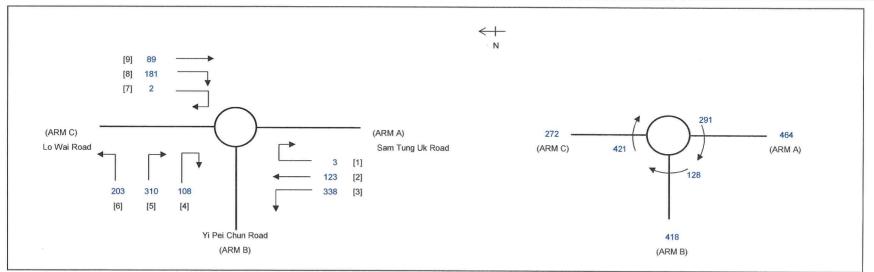


ARM			A	В	С			
NPU	PARA	AMETERS:						
J	=	Approach half width (m)	3.50	3.65	3.50			
Ξ	=	Entry width (m)	6.50	3.65	6.20			
4	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
A	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	405	362	300			
Qc	=	Circulating flow across entry (pcu/h)	295	115	365			
OUTP	UT PA	RAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			BOLL
Qe	=	K(F-Fc*Qc)	1503	1039	1494	Total In Sum =	1551	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.27	0.35	0.20	DFC of Critical Approach =	0.35	

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION INITIALS DATE											
2028 Reference PM	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24						
(Weekday)	FILENAME:	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24						
(Weekday)	REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24						



ARM			Α	В	С			
INPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	464	418	272			
Qc	=	Circulating flow across entry (pcu/h)	291	128	421			
OUTP	JT PA	RAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36	×.		
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe		K(F-Fc*Qc)	1505	1032	1455	Total In Sum =	1629	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.31	0.41	0.19	DFC of Critical Approach =	0.41	

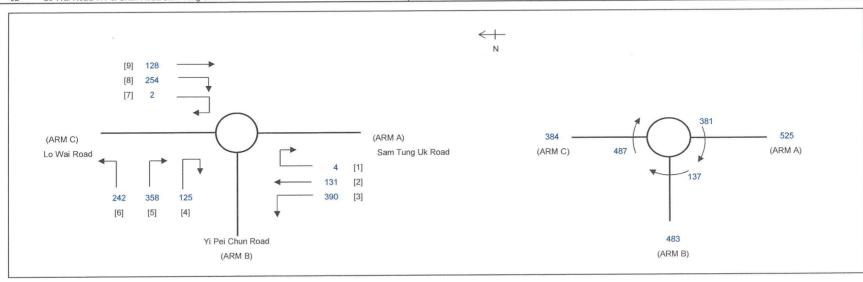
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

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2028 Design AM (Weekday)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	

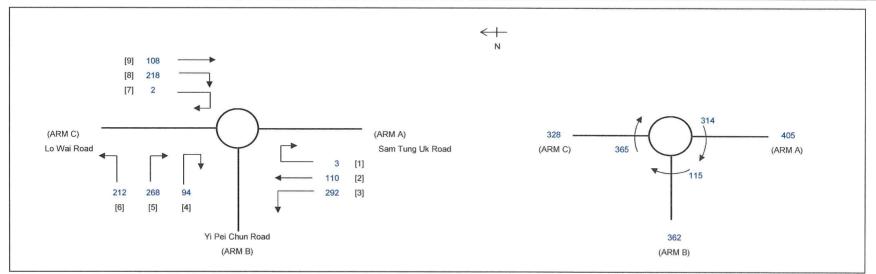


ARM			Α	В	С			
NPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
Ξ	=	Entry width (m)	6.50	3.65	6.20			
1	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
)	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	525	483	384			
Qc	=	Circulating flow across entry (pcu/h)	381	137	487			
DUTP	UT PA	RAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			_
Qe	=	K(F-Fc*Qc)	1444	1027	1409	Total In Sum =	2018	P
DFC	=	Design flow/Capacity = Q/Qe	0.36	0.47	0.27	DFC of Critical Approach =	0.47	

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION INITIALS											
2028 Design Noon	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24						
(Weekday)	FILENAME:	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24						
(weekday)	REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24						



ARM			A	В	С			
INPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	405	362	328			
Qc	=	Circulating flow across entry (pcu/h)	314	115	365			
OUTP	JT PA	RAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
М	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1490	1039	1494	Total In Sum =	1635	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.27	0.35	0.22	DFC of Critical Approach =	0.35	

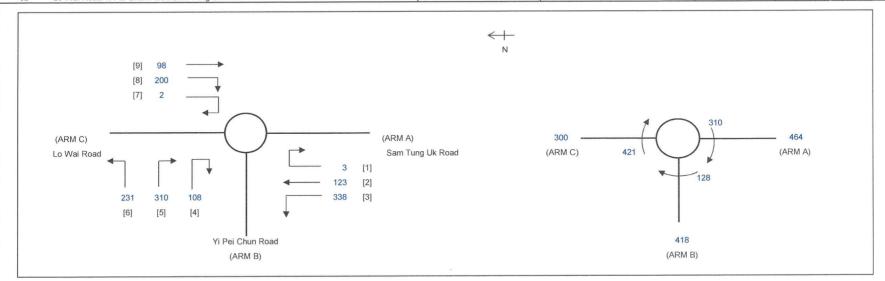
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION

2028 Design PM (Weekday)

1	CALCULATI	ON		INITIALS	DATE	
	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
	FILENAME:	J2_Weekday.xlsx	CHECKED BY:	SLN	Jul-24	
	REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



ARM			А	В	С			
INPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
₹	=	Entry radius (m)	40.00	50.00	40.00			
)	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
A	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	464	418	300			
Qc	=	Circulating flow across entry (pcu/h)	310	128	421			
		RAMETERS: Sharnness of flare = 1.6(F-V)/I	0.37	0.00	0.23			
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
<	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1492	1032	1455	Total In Sum =	1713	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.31	0.41	0.21	DFC of Critical Approach =	0.41	

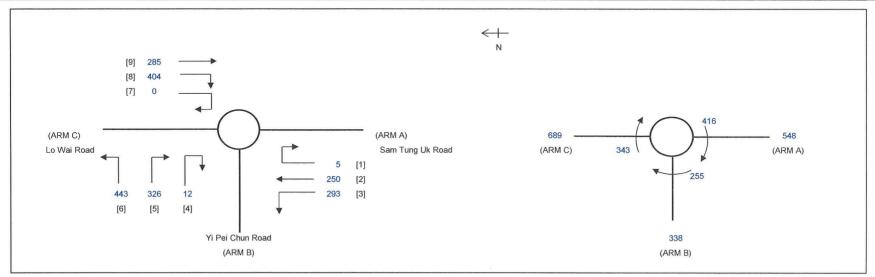
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION

2028 Reference AM (Weekend)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



ARM			Α	В	С			
NPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	548	338	689			
Qc	=	Circulating flow across entry (pcu/h)	416	255	343			
OUTP	UT PA	ARAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	Ξ	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1420	964	1509	Total In Sum =	2707	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.39	0.35	0.46	DFC of Critical Approach =	0.46	

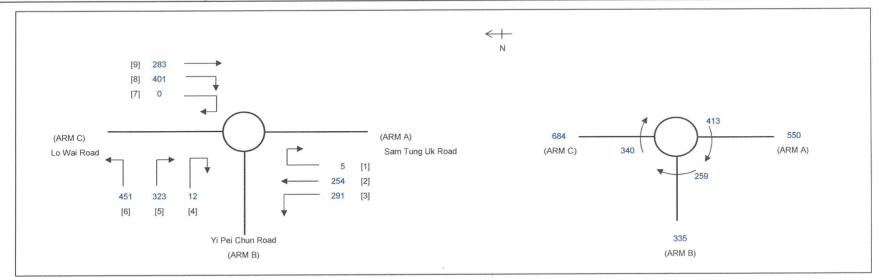
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

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2028 Reference Noon (Weekend)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



ARM			A	В	C			
INPU	T PAR	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
Е	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	550	335	684			
Qc	=	Circulating flow across entry (pcu/h)	413	259	340			
S K	=	RAMETERS: Sharpness of flare = 1.6(E-V)/L 1-0.00347(A-30)-0.978(1/R-0.05)	0.37 1.08	0.00 0.99	0.23 1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64	March or Steps Gard		
Qe	=	K(F-Fc*Qc)	1422	961	1511	Total In Sum =	2704	PCU
DFC	=	Design flow/Capacity = Q/Qe	0,39	0.35	0.45	DFC of Critical Approach =	0.45	

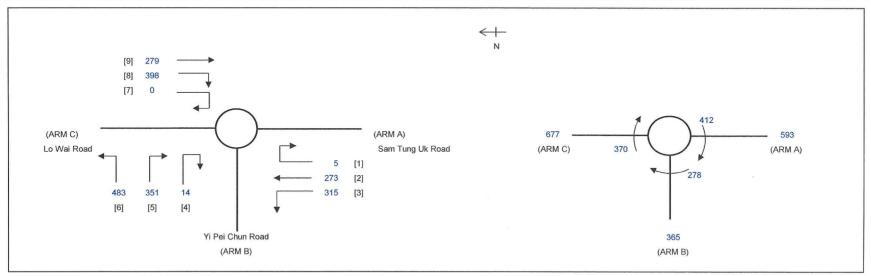
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J2 Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION

2028 Reference PM (Weekend)

1	CALCULATI	ON		INITIALS	DATE	
	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
	FILENAME:	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
	REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



ARM			Α	В	С			
NPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
Е	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	593	365	677			
Qc	=	Circulating flow across entry (pcu/h)	412	278	370			
OUTP	UT PA	ARAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
М	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1423	951	1491	Total In Sum =	2795	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.42	0.38	0.45	DFC of Critical Approach =	0.45	

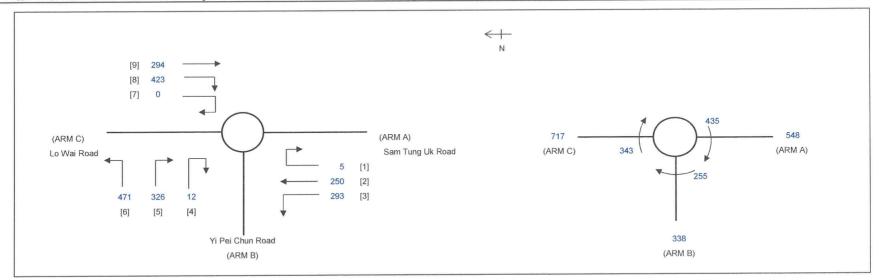
Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J2 Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION

2028 Design AM (Weekend)

CALCULATI	ON		INITIALS	DATE	
PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
FILENAME:	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



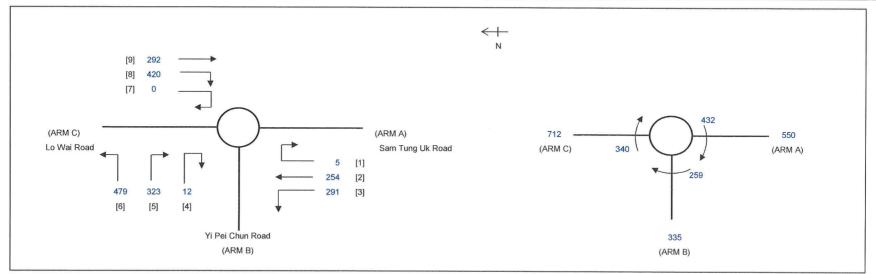
ARM			A	В	С			
INPUT	PARA	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	548	338	717			
Qc	=	Circulating flow across entry (pcu/h)	435	255	343			
OUTP	JT PA	RAMETERS:						
S	=	Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
K	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
X2	i=1	V + ((E-V)/(1+2S))	5.23	3.65	5.36			
M	=	EXP((D-60)/10)	0.04	0.04	0.04			
F	=	303*X2	1583	1106	1623			
Td	=	1+(0.5/(1+M))	1.48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	=	K(F-Fc*Qc)	1407	964	1509	Total In Sum =	2791	PCU
DFC	=	Design flow/Capacity = Q/Qe	0.39	0.35	0.48	DFC of Critical Approach =	0.48	

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

J2 Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ROUNDABOUT CALCULATION 2028 Design Noon (Weekend) PROJECT NO.: 4024 FILENAME: J2_V

1	CALCULATI	INITIALS	DATE			
	PROJECT NO.:	40243	PREPARED BY:	SKL	Jul-24	
	FILENAME :	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24	
	REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24	



ARM			Α	В	С			
INPU	PAR/	AMETERS:						
V	=	Approach half width (m)	3.50	3.65	3.50			
E	=	Entry width (m)	6.50	3.65	6.20			
L	=	Effective length of flare (m)	13.00	1.00	19.00			
R	=	Entry radius (m)	40.00	50.00	40.00			
D	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
Α	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	550	335	712			
Qc	=	Circulating flow across entry (pcu/h)	432	259	340			
S	=	RAMETERS: Sharpness of flare = 1.6(E-V)/L	0.37	0.00	0.23			
S	=							
K Va	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08 5.23	0.99 3.65	1.08			
X2 M	=	V + ((E-V)/(1+2S)) EXP((D-60)/10)	0.04	0.04	5.36 0.04			
IVI E	=	303*X2	1583	1106	1623	•		
r Td	=	1+(0.5/(1+M))	1,48	1.48	1.48			
Fc	=	0.21*Td(1+0.2*X2)	0.64	0.54	0.64			
Qe	_	K(F-Fc*Qc)	1409	961	1511	Total In Cum =	0700	DOLL
Qe	-	N(F-FC QC)	1409	901	1311	Total In Sum =	2788	PCU
OFC	=	Design flow/Capacity = Q/Qe	0.39	0.35	0.47	DFC of Critical Approach =	0.47	

Proposed Columbarium at Lot Nos. 613 RP(Part), 614 & 1229 in D.D. 453 and Their Adjoining Government Land, Lo Wai, Tsuen Wan, New Territories

2028 Design PM (Weekend)

ROUNDABOUT	CALCULATI	ON		INITIALS	DATE
2020 Decian DM	PROJECT NO.:	ROJECT NO.: 40243 PRE		SKL	Jul-24
2028 Design PM	FILENAME :	J2_Weekend.xlsx	CHECKED BY:	SLN	Jul-24
(Weekend)	REFERENCE NO.:	J2	REVIEWED BY:	SLN	Jul-24

Lo Wai Road/Yi Pei Chun Road/Sam Tung Uk Road

ARM			А	В	С			
NPUT	PARA	METERS:						
/	=	Approach half width (m)	3.50	3.65	3.50			
	=	Entry width (m)	6.50	3.65	6.20			
	=	Effective length of flare (m)	13.00	1.00	19.00			
2	=	Entry radius (m)	40.00	50.00	40.00			
)	=	Inscribed circle diameter (m)	28.00	28.00	28.00			
A	=	Entry angle (degree)	15.00	40.00	15.00			
Q	=	Entry flow (pcu/h)	593	365	705			
Qс	=	Circulating flow across entry (pcu/h)	431	278	370			
		RAMETERS:	0.37	0.00	0.23			
8	=	Sharpness of flare = 1.6(E-V)/L		0.00				
<	=	1-0.00347(A-30)-0.978(1/R-0.05)	1.08	0.99	1.08			
(2	=	V + ((E-V)/(1+2S))	5.23	3.65	5.36 0.04			
M	=	EXP((D-60)/10)	0.04	0.04	1623			
	=	303*X2	1583 1.48	1106 1.48	1.48			
Γd	=	1+(0.5/(1+M))		0.54	0.64			
-c	=	0.21*Td(1+0.2*X2)	0.64			Total In Sum =	2879	PCU
Qе	=	K(F-Fc*Qc)	1410	951	1491	total in Sum –	2015	1 00
DFC	=	Design flow/Capacity = Q/Qe	0.42	0.38	0.47	DFC of Critical Approach =	0.47	