

GoldRich PLANNERS & SURVEYORS LTD.

金 潤 規 劃 測 量 師 行 有 限 公 司

Your Ref.: A/YL-KTS/1090

Our Ref.: P25040/TL25323

30 September 2025

The Secretary
Town Planning Board
15/F., North Point Government Offices
333 Java Road, North Point, Hong Kong

By Post and E-mail
tpbpd@pland.gov.hk

Dear Sir,

Submission of Further Information (FI)

**Proposed Temporary Private Vehicle Park (Private Cars Only)
for a Period of 3 Years in "Village Type Development" Zone,
Lot 343 (Part) in D.D. 113, Kam Tin, Yuen Long, New Territories
(Application No. A/YL-KTS/1090)**

We write to submit FI in response to departmental comment(s) conveyed by the Planning Department for the captioned application.

Yours faithfully,
For and on behalf of
Goldrich Planners & Surveyors Ltd.



Francis LAU

Encl.

c.c.
DPO/FS&YLE, PlanD (Attn.: Ms. Anna TONG) *By E-mail only*

Further Information for Planning Application No. A/YL-KTS/1090**Response-to-Comments****Comments from Chief Engineer/Mainland North, Drainage Services Department**

Contact person: Mr. CHAN Yue Lap, Kenneth (Tel.: 2300 1259)

I.	Comments	Responses
1.	According to his record, there are existing streamcourse/channel on government land within the application site that may also serve the adjacent land. There is a potential increase flooding risk to the area if the government land and the streamcourse/channel are disturbed or affected by the operation of the applicant. The applicant shall submit a drainage proposal as mentioned in paragraph 19 of the planning statement for his further review.	Please see the drainage proposal (Plans 5.1 & 5.2) and hydraulic calculation for details.

- END -

1 For Catchment Area A			Ref.
Area, A	=	1009 m ²	SDM 7.5.2 (d)
Average slope, H	=	0.1 m per 100m	
Distance on the line of natural flow, L	=	18 m	
Time of concentration, t _o	=	0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (18) / (0.1 ^{0.2} *1009 ^{0.1}) = 2.1 min	
2 For Proposed UC in Catchment Area A			SDM 8.2.1
	From	To	
Ground level (mPD)	13.00	12.90	
Invert level (mPD)	12.70	12.36	
Width of u-channel, w	=	300 mm	
Length of u-channel, L _c	=	67.6 m	
Depth of vertical part of u-channel, d	=	390 mm	
Gradient of u-channel, S _f	=	(12.7-12.36)/67.6 = 0.005	
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 150 ² + 300 x 390 = 0.152 m ²	
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 150 + 2 x 390 = 1.251 m	
Hydraulic radius, R	=	a / p = 0.122 m	
3 Use Manning Equation for estimating velocity of stormwater			SDM Table 13 SDM Table 12
Take n	=	0.016 for concrete lined channels:-	
Allowable velocity, v	=	R ^{1/6} x (RS _f) ^{1/2} / n = (0.122) ^{1/6} x (0.122 x 0.005) ^{1/2} / 0.016 = 1.09 m/s	
Time of flow, t _f	=	1.0 min	
4 Use "Rational Method" for calculation of design flow			SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a SDM 7.5.2 (b) SDM 7.5.2 (a)
Design intensity, i	=	a / (t _o + t _f + b) ^c = 505.5 / (2.1+1+3.29) ^{0.355} for return period T = 50 years = 262	
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	
Flat Glassland(heavy soil)	0.25	0.0	
Concrete Paving	0.95	1009.0	
		SUM =	
		958.6	
Upstream flow, Q _u	=	0 m ³ /s	
Design flow, Q _d	=	0.278i Σ C _f A _i + Q _u where A _i is in km ² = 0.278 x 262 x 958.55 / 1000000 + 0 = 0.070 m ³ /s	
Allowable flow, Q _a	=	a x v = 0.152 x 1.09 = 0.166 m ³ /s > Q _d (O.K.)	
Reference was made to Stormwater Drainage Manual (SDM) by DSD			
Scale: NA	Hydraulic Calculation		Goldrich Planners & Surveyors Ltd.
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1 For Catchment Area B			Ref.
Area, A	=	302 m ²	SDM 7.5.2 (d)
Average slope, H	=	0.1 m per 100m	
Distance on the line of natural flow, L	=	10 m	
Time of concentration, t ₀	=	0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (10) / (0.1 ^{0.2} 302 ^{0.1}) = 1.3 min	
2 For Proposed UC in Catchment Area B			SDM 8.2.1
	From	To	
Ground level (mPD)	13.00	12.90	
Invert level (mPD)	12.53	12.36	
Width of u-channel, w	=	300 mm	
Length of u-channel, L _c	=	33.4 m	
Depth of vertical part of u-channel, d	=	390 mm	
Gradient of u-channel, S _f	=	(12.53-12.36)/33.4 = 0.005	
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 150 ² + 300 x 390 = 0.152 m ²	
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 150 + 2 x 390 = 1.251 m	
Hydraulic radius, R	=	a / p = 0.122 m	
3 Use Manning Equation for estimating velocity of stormwater			SDM Table 13 SDM Table 12
Take n	=	0.016 for concrete lined channels:-	
Allowable velocity, v	=	R ^{1/6} x (RS _f) ^{1/2} / n = (0.122) ^{1/6} x (0.122 x 0.005) ^{1/2} / 0.016 = 1.10 m/s	
Time of flow, t _f	=	0.5 min	
4 Use "Rational Method" for calculation of design flow			SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a SDM 7.5.2 (b) SDM 7.5.2 (a)
Design intensity, i	=	a / (t ₀ + t _f + b) ^c = 505.5 / (1.3+0.5+3.29) ^{0.355} for return period T = 50 years = 284	
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	
Flat Grassland (heavy soil)	0.25	0.0	
Concrete Paving	0.95	302.0	
		SUM =	
		286.9	
Upstream flow, Q _u	=	0 m ³ /s	
Design flow, Q _d	=	0.278i Σ C _f A _i + Q _u where A _i is in km ² = 0.278 x 284 x 286.9 / 1000000 + 0 = 0.023 m ³ /s	
Allowable flow, Q _a	=	a x v = 0.152 x 1.1 = 0.167 m ³ /s > Q _d (O.K.)	
Reference was made to Stormwater Drainage Manual (SDM) by DSD			
Scale: NA	Hydraulic Calculation		Goldrich Planners & Surveyors Ltd.
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1 For Connection between CP4 and Existing Local 350 UC			Ref.
Area, A	=	0 m ²	
Average slope, H	=	0.1 m per 100m	
Distance on the line of natural flow, L	=	0 m	
Time of concentration, t _o	=	0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (0) / (0.1 ^{0.2} 0 ^{0.1})	SDM 7.5.2 (d)
	=	0.0 min	
2 For Proposed UC in Connection between CP4 and Existing Local 350 UC			
	From	To	
Ground level (mPD)	12.90	12.90	
Invert level (mPD)	12.36	12.35	
Width of u-channel, w	=	300 mm	
Length of u-channel, L _c	=	2 m	
Depth of vertical part of u-channel, d	=	400 mm	
Gradient of u-channel, S _f	=	(12.36-12.35)/2 = 0.005	
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 150 ² + 300 x 400	
	=	0.155 m ²	
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 150 + 2 x 400	
	=	1.271 m	
Hydraulic radius, R	=	a / p	SDM 8.2.1
	=	0.122 m	
3 Use Manning Equation for estimating velocity of stormwater			
Take n	=	0.016 for concrete lined channels:-	SDM Table 13
Allowable velocity, v	=	R ^{1/6} x (RS _f) ^{1/2} / n = (0.122) ^{1/6} x (0.122 x 0.005) ^{1/2} / 0.016	SDM Table 12
	=	1.09 m/s	
Time of flow, t _f	=	0.0 min	
4 Use "Rational Method" for calculation of design flow			
Design intensity, i	=	a / (t _o + t _f + b) ^c	SDM 4.3.2
	=	505.5 / (0+0+3.29) ^{0.355} for return period T = 50 years	Corrigendum 1/2024
	=	330	SDM Table 3a
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A
Flat Grassland (heavy soil)	0.25	0.0	0.0
Concrete Paving	0.95	0.0	0.0
		SUM =	0.0
Upstream flow, Q _u	=	0.093 m ³ /s	
Design flow, Q _d	=	0.278i Σ C _f A _i + Q _u where A _i is in km ²	SDM 7.5.2 (a)
	=	0.278 x 330 x 0 / 1000000 + 0.093	
	=	0.093 m ³ /s	
Allowable flow, Q _a	=	a x v	
	=	0.155 x 1.09	
	=	0.169 m ³ /s	
	>	Q _d (O.K.)	
Reference was made to Stormwater Drainage Manual (SDM) by DSD			
Scale: NA	Hydraulic Calculation		Goldrich Planners & Surveyors Ltd.
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