

Your Ref.: A/YL-KTS/1101

Our Ref.: P22068A/TL25387

14 November 2025

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

By E-mail
tpbpd@pland.gov.hk

Dear Sir,

Submission of Further Information (FI)

**Temporary Shop and Services (Retail Shop for Hardware Groceries and Construction Materials) with Ancillary Facilities for a Period of 5 Years in “Residential (Group D)” Zone, Lots 670 (Part), 671 (Part), 673 (Part), 674, 675, 676, 677 (Part), 679 (Part) and 680(Part) in D.D. 106 and Adjoining Government Land,
Yuen Long, New Territories
(Application No. A/YL-KTS/1101)**

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/FSYLE, PlanD (Attn.: Ms. Anna TONG)

Further Information for Planning Application No. A/YL-KTS/1101**Response-to-Comments****Comments from Environmental Protection Department**

Contact person: Mr. Kelvin WONG (Tel.: 2835 1117)

I.	Comments	Responses
1.	Please advise whether the proposed use would involve materials of dusty nature (e.g., cement, earth, pulverized fuel ash, aggregates, silt, stonefines, sand, debris, sawdust and wooden chips).	No materials of dusty nature will be involved at the site.

Comments from Drainage Services Department

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

II.	Comments	Responses
1.	We are unable to provide comment on drainage aspect of the application at this stage. Comment on drainage aspect will be provided when the drainage proposal as mentioned in paragraph 23 of the planning statement is received.	Please refer to the drainage proposal (Plans 5.1 and 5.2) and hydraulic calculations for details.

- END -

1 For Catchment Area A			Ref.	
Area, A	=	972 m ²		
Average slope, H	=	0.1 m per 100m		
Distance on the line of natural flow, L	=	21 m		
Time of concentration, t ₀	=	$0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (21) / (0.1^{0.2} \times 972^{0.1})$	SDM 7.5.2 (d)	
	=	2.4 min		
2 For Existing UC in Catchment Area A				
	From	To		
Ground level (mPD)	7.80	7.80		
Invert level (mPD)	6.95	6.72		
Width of u-channel, w	=	500 mm		
Length of u-channel, L _c	=	45.6 m		
Depth of vertical part of u-channel, d	=	830 mm		
Gradient of u-channel, S _f	=	$(6.95-6.72)/45.6 = 0.005$		
Cross-Section Area, a	=	$0.5 \pi r^2 + w d = 0.5 \times 3.14 \times 250^2 + 500 \times 830$		
	=	0.513 m ²		
Wetted Perimeter, p	=	$\pi r + 2 d = 3.14 \times 250 + 2 \times 830$		
	=	2.445 m	SDM 8.2.1	
Hydraulic radius, R	=	a / p		
	=	0.210 m		
3 Use Manning Equation for estimating velocity of stormwater				
Take n	=	0.016 for concrete lined channels:-	SDM Table 13	
Allowable velocity, v	=	$R^{1/6} \times (RS_f)^{1/2} / n = (0.21)^{1/6} \times (0.21 \times 0.005)^{1/2} / 0.016$	SDM Table 12	
	=	1.57 m/s		
Time of flow, t _f	=	0.5 min		
4 Use "Rational Method" for calculation of design flow				
Design intensity, i	=	$a / (t_0 + t_f + b)^c$	SDM 4.3.2	
	=	$505.5 / (2.4+0.5+3.29)^{0.355}$ for return period T = 50 years	Corrigendum 1/2024	
	=	265	SDM Table 3a	
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A	SDM 7.5.2 (b)
Flat Grassland (heavy soil)	0.25	0.0	0.0	
Concrete Paving	0.95	972.0	923.4	
		SUM =	923.4	
Upstream flow, Q _u	=	0 m ³ /s		
Design flow, Q _d	=	$1.16 \times 0.278i \sum C_i A_i + Q_u$ where A _i is in km ²		SDM 7.5.2 (a)
	=	$1.16 \times 0.278 \times 265 \times 923.4 / 1000000 + 0$		
	=	0.079 m ³ /s		Corrigendum 1/2022
Allowable flow, Q _a	=	$a \times v$		
	=	0.513×1.57		
	=	0.804 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.	
November 2025	Lots 670 (Part), 671 (Part), 673 (Part), 674, 675, 676, 677 (Part), 679 (Part) and 680 (Part) in D.D. 106 and Adjoining Government Land, Yuen Long, New Territories		Page 1 (P22068A)	

1 For Catchment Area B		Ref.									
Area, A	= 1211 m ²										
Average slope, H	= 0.1 m per 100m										
Distance on the line of natural flow, L	= 25 m										
Time of concentration, t ₀	= 0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (25) / (0.1 ^{0.2} 1211 ^{0.1}) = 2.8 min	SDM 7.5.2 (d)									
2 For Existing UC in Catchment Area B											
	<table><tr><td></td><td>From</td><td>To</td></tr><tr><td>Ground level (mPD)</td><td>7.80</td><td>7.80</td></tr><tr><td>Invert level (mPD)</td><td>7.30</td><td>6.87</td></tr></table>		From	To	Ground level (mPD)	7.80	7.80	Invert level (mPD)	7.30	6.87	
	From	To									
Ground level (mPD)	7.80	7.80									
Invert level (mPD)	7.30	6.87									
Width of u-channel, w	= 500 mm										
Length of u-channel, L _c	= 86.3 m										
Depth of vertical part of u-channel, d	= 680 mm										
Gradient of u-channel, S _f	= (7.3-6.87)/86.3 = 0.005										
Cross-Section Area, a	= 0.5 π r ² + w d = 0.5 x 3.14 x 250 ² + 500 x 680 = 0.438 m ²										
Wetted Perimeter, p	= π r + 2 d = 3.14 x 250 + 2 x 680 = 2.145 m										
Hydraulic radius, R	= a / p = 0.204 m	SDM 8.2.1									
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 = (0.204) ^{1/6} x (0.204 x 0.005) ^{1/2} / 0.016 = 1.53 m/s	SDM Table 12									
Time of flow, t _f	= 0.9 min										
4 Use "Rational Method" for calculation of design flow											
Design intensity, i	= a / (t ₀ + t _f + b) ^c = 505.5 / (2.8+0.9+3.29) ^{0.355} for return period T = 50 years = 253	SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a									
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)									
Flat Glassland(heavy soil)	0.25	0.0									
Concrete Paving	0.95	1211.0									
		C x A									
		1150.5									
		SUM = 1150.5									
Upstream flow, Q _u	= 0 m ³ /s										
Design flow, Q _d	= 1.16 x 0.278i Σ C _i A _i + Q _u where A _i is in km ² = 1.16 x 0.278 x 253 x 1150.45 / 1000000 + 0 = 0.094 m ³ /s	SDM 7.5.2 (a) Corrigendum 1/2022									
Allowable flow, Q _a	= a x v = 0.438 x 1.53 = 0.670 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.
November 2025	Lots 670 (Part), 671 (Part), 673 (Part), 674, 675, 676, 677 (Part), 679 (Part) and 680 (Part) in D.D. 106 and Adjoining Government Land, Yuen Long, New Territories	Page 2 (P22068A)

1 For Connection between CP7 to Existing Watercourse Area, A = 0 m² Average slope, H = 0.1 m per 100m Distance on the line of natural flow, L = 0 m Time of concentration, t₀ = 0.14465 L / (H^{0.2} A^{0.1}) = 0.14465 (0) / (0.1^{0.2} * 0^{0.1}) = 0.0 min			Ref.																								
2 For Pipe after CP7 Size(Diameter) w = 400 mm Length of Pipe = 9 m Design the pipe to 9/10 full bore capacity, then Area of ventilated portion = 0.1 of pipe area $\frac{1}{2} r^2 \theta - \frac{1}{2} r^2 \sin(\theta)$ = 0.1 πr^2 $\theta - \sin(\theta)$ = 0.2 π θ = 1.63 rad = 93.4^o (By trial and error) Area A = 0.9 πr^2 = 0.9 x 3.14 x 400² = 0.452 m² Wetted Perimeter P = 2 $\pi r - r \theta$ = 1861 mm Hydraulic radius R = $\frac{A}{P}$ = 242.9 mm			SDM 7.5.2 (d)																								
3 Use Manning Equation for estimating velocity of stormwater Fall S = 1: 8 Take n = 0.016 for concrete lined channels:- Allowable velocity, v = $R^{1/6} \times (RS)^{1/2} / n$ = (242.9)^{1/6} * (242.9/8)^{1/2} / 0.016 = 8.25 m/s Time of flow, t_f = 0.02 min			SDM 8.2.1																								
4 Use "Rational Method" for calculation of design flow Design intensity, i = a / (t₀ + t_f + b)^c = 505.5 / (0.0+0.02+3.29)^{0.355} for return period T = 50 years = 331 <table> <tr> <th>Type of surface</th><th>Runoff Coefficient C</th><th>Catchment Area A (m²)</th><th>C x A</th></tr> <tr> <td>Flat Grassland (heavy soil)</td><td>0.25</td><td>0.0</td><td>0.0</td></tr> <tr> <td>Concrete Paving</td><td>0.95</td><td>0.0</td><td>0.0</td></tr> <tr> <td>Macadam Roadways</td><td>0.425</td><td>0.0</td><td>0.0</td></tr> <tr> <td>Wooded Areas</td><td>0.105</td><td>0.0</td><td>0.0</td></tr> <tr> <td colspan="3">SUM =</td><td>0.0</td></tr> </table> Upstream flow, Q_u = 0.173 m³/s Design flow, Q_d = 0.278i $\sum C_i A_i$ + Q_u where A_i is in km² = 1.16 x 0.278 x 331 x 0 / 1000000 + 0.173 = 0.173 m³/s Allowable flow, Q_a = a x v = 0.3974 x 1.35 = 3.729 m³/s > Q_d (O.K.)			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	Macadam Roadways	0.425	0.0	0.0	Wooded Areas	0.105	0.0	0.0	SUM =			0.0	SDM 4.3.2 Corrigendum 1/2024 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																								
Macadam Roadways	0.425	0.0	0.0																								
Wooded Areas	0.105	0.0	0.0																								
SUM =			0.0																								
Reference was made to Stormwater Drainage Manual (SDM) by DSD			SDM 7.5.2 (b)																								
Scale: NA	Hydraulic Calculation	Goldrich Planners & Surveyors Ltd.																									
November 2025	Lots 670 (Part), 671 (Part), 673 (Part), 674, 675, 676, 677 (Part), 679 (Part) and 680 (Part) in D.D. 106 and Adjoining Government Land, Yuen Long, New Territories	Page 3 (P22068A)																									

1 For Catchment Area C		Ref.									
Area, A	= 2332 m ²										
Average slope, H	= 0.1 m per 100m										
Distance on the line of natural flow, L	= 29 m										
Time of concentration, t _c	= 0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (29) / (0.1 ^{0.2} 2332 ^{0.1}) = 3.1 min	SDM 7.5.2 (d)									
2 For Existing UC in Catchment Area C											
	<table> <tr> <th></th><th>From</th><th>To</th></tr> <tr> <td>Ground level (mPD)</td><td>7.80</td><td>7.80</td></tr> <tr> <td>Invert level (mPD)</td><td>7.30</td><td>6.72</td></tr> </table>		From	To	Ground level (mPD)	7.80	7.80	Invert level (mPD)	7.30	6.72	
	From	To									
Ground level (mPD)	7.80	7.80									
Invert level (mPD)	7.30	6.72									
Width of u-channel, w	= 500 mm										
Length of u-channel, L _c	= 118.2 m										
Depth of vertical part of u-channel, d	= 830 mm										
Gradient of u-channel, S _f	= (7.3-6.72)/118.2 = 0.005										
Cross-Section Area, a	= 0.5 π r ² + w d = 0.5 x 3.14 x 250 ² + 500 x 830 = 0.513 m ²										
Wetted Perimeter, p	= π r + 2 d = 3.14 x 250 + 2 x 830 = 2.445 m										
Hydraulic radius, R	= a / p = 0.210 m	SDM 8.2.1									
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 = (0.21) ^{1/6} x (0.21 x 0.005) ^{1/2} / 0.016 = 1.55 m/s	SDM Table 12									
Time of flow, t _f	= 1.3 min										
4 Use "Rational Method" for calculation of design flow											
Design intensity, i	= a / (t _c + t _f + b) ^c = 505.5 / (3.1+1.3+3.29) ^{0.355} for return period T = 50 years = 246	SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a									
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)									
Flat Glassland(heavy soil)	0.25	0.0									
Concrete Paving	0.95	2332.0									
		C x A									
		2215.4									
		SUM = 2215.4									
Upstream flow, Q _u	= 0 m ³ /s										
Design flow, Q _d	= 1.16 x 0.278i Σ C _p A _i + Q _u where A _i is in km ² = 1.16 x 0.278 x 246 x 2215.4 / 1000000 + 0 = 0.176 m ³ /s	SDM 7.5.2 (a) Corrigendum 1/2022									
Allowable flow, Q _a	= a x v = 0.513 x 1.55 = 0.793 m ³ /s > Q _d (O.K.)										
Reference was made to Stormwater Drainage Manual (SDM) by DSD											

1 For Catchment Area D

Area, A = 1640 m²
 Average slope, H = 0.1 m per 100m
 Distance on the line of natural flow, L = 50 m

$$\text{Time of concentration, } t_o = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (50) / (0.1^{0.2} \times 1640^{0.1}) = 5.5 \text{ min}$$

SDM 7.5.2 (d)

2 For Existing UC in Catchment Area D

	From	To
Ground level (mPD)	7.80	7.80
Invert level (mPD)	7.17	6.87

Width of u-channel, w = 500 mm
 Length of u-channel, L_c = 60 m
 Depth of vertical part of u-channel, d = 680 mm
 Gradient of u-channel, S_f = (7.17-6.87)/60 = 0.005

$$\begin{aligned} \text{Cross-Section Area, } a &= 0.5 \pi r^2 + w d = 0.5 \times 3.14 \times 250^2 + 500 \times 680 \\ &= 0.438 \text{ m}^2 \\ \text{Wetted Perimeter, } p &= \pi r + 2 d = 3.14 \times 250 + 2 \times 680 \\ &= 2.145 \text{ m} \\ \text{Hydraulic radius, } R &= a / p \\ &= 0.204 \text{ m} \end{aligned}$$

SDM 8.2.1

3 Use Manning Equation for estimating velocity of stormwater

Take n = 0.016 for concrete lined channels:-
 Allowable velocity, v = R^{1/6} x (RS_f)^{1/2} / n = (0.204)^{1/6} x (0.204 x 0.005)^{1/2} / 0.016 = 1.53 m/s
 Time of flow, t_f = 0.7 min

SDM Table 13
 SDM Table 12

4 Use "Rational Method" for calculation of design flow

$$\begin{aligned} \text{Design intensity, } i &= a / (t_o + t_f + b)^c \\ &= 505.5 / (5.5 + 0.7 + 3.29)^{0.355} \text{ for return period } T = 50 \text{ years} \\ &= 228 \end{aligned}$$

SDM 4.3.2
 Corrigendum 1/2024
 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	1640.0	1558.0
SUM =			1558.0

SDM 7.5.2 (b)

$$\text{Upstream flow, } Q_u = 0 \text{ m}^3/\text{s}$$

$$\begin{aligned} \text{Design flow, } Q_d &= 1.16 \times 0.278 i \sum C_i A_i + Q_u \text{ where } A_i \text{ is in km}^2 \\ &= 1.16 \times 0.278 \times 228 \times 1558 / 1000000 + 0 \\ &= 0.115 \text{ m}^3/\text{s} \end{aligned}$$

SDM 7.5.2 (a)
 Corrigendum 1/2022

$$\begin{aligned} \text{Allowable flow, } Q_a &= a \times v \\ &= 0.438 \times 1.53 \\ &= 0.672 \text{ m}^3/\text{s} \end{aligned}$$

$$> Q_d \text{ (O.K.)}$$

Reference was made to Stormwater Drainage Manual (SDM) by DSD

Scale: NA

Hydraulic Calculation

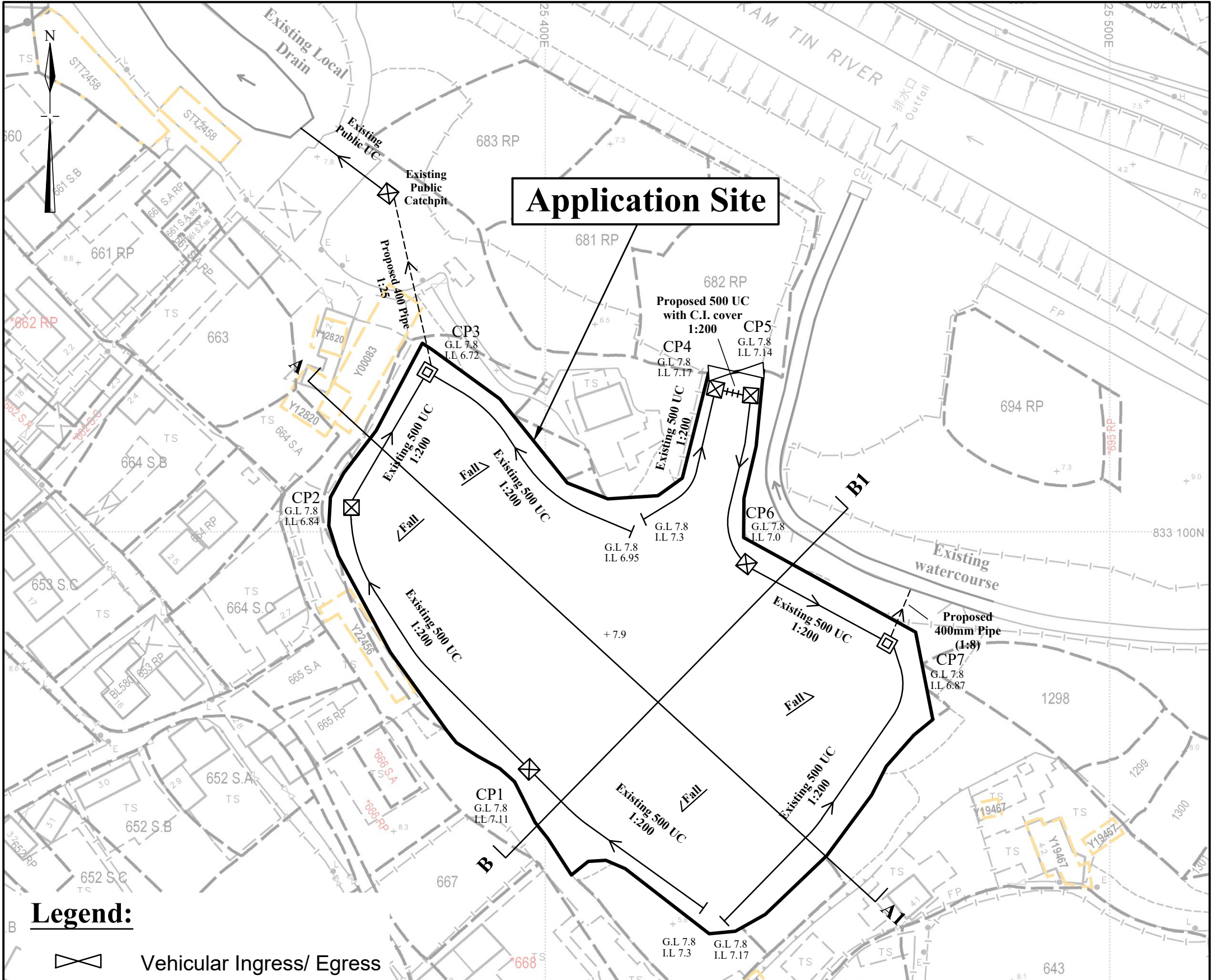
Goldrich Planners &
 Surveyors Ltd.

November 2025

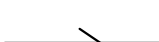
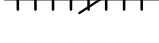
Lots 670 (Part), 671 (Part), 673 (Part), 674, 675, 676, 677 (Part), 679 (Part)
 and 680 (Part) in D.D. 106 and Adjoining Government Land,
 Yuen Long, New Territories

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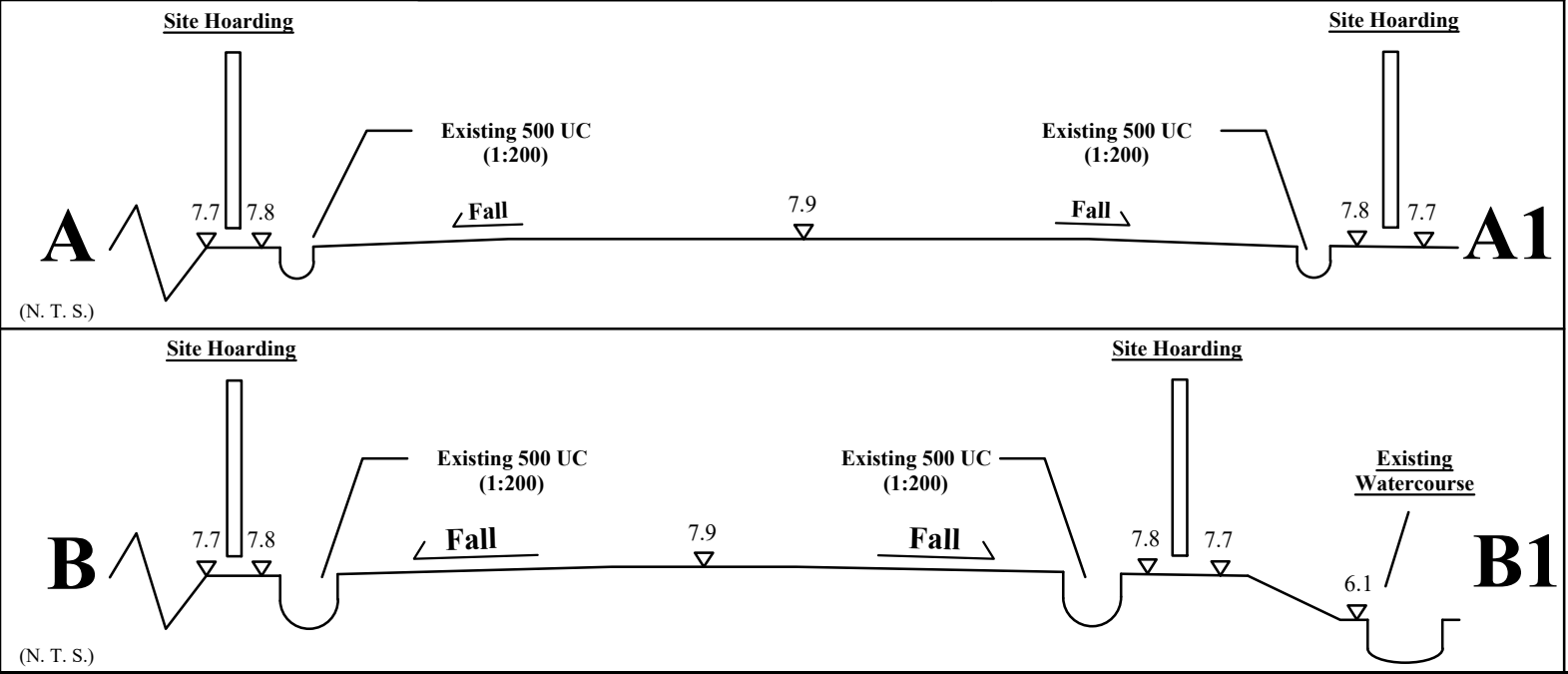
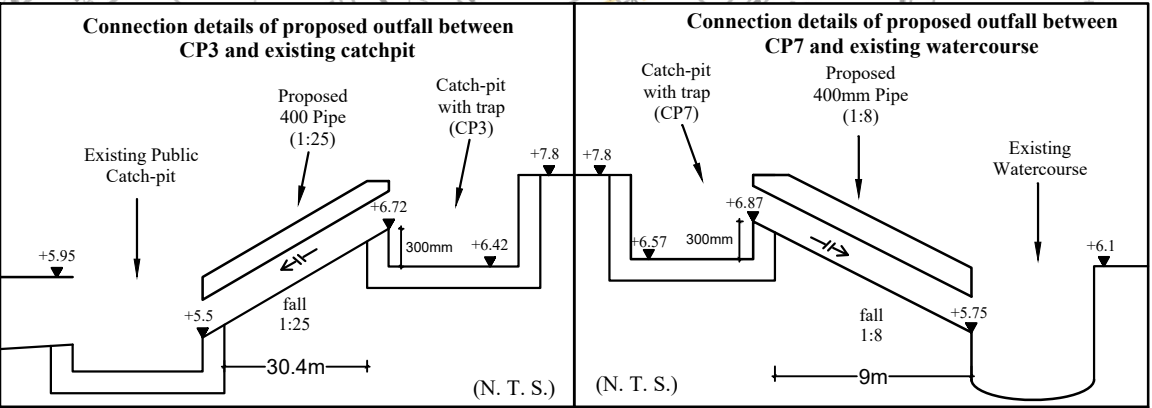
1 For Connection between CP3 to Existing Public Catchpit Area, A = 0 m² Average slope, H = 0.1 m per 100m Distance on the line of natural flow, L = 0 m Time of concentration, t₀ = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (0) / (0.1^{0.2}0^{0.1}) = 0.0 min			Ref.																								
2 For Pipe after CP3 Size(Diameter) w = 400 mm Length of Pipe = 30.4 m Design the pipe to 9/10 full bore capacity, then Area of ventilated portion = 0.1 of pipe area $\frac{1}{2} r^2 \theta - \frac{1}{2} r^2 \sin(\theta)$ = 0.1 πr^2 $\theta - \sin(\theta)$ = 0.2 π θ = 1.63 rad = 93.4^o (By trial and error) Area A = 0.9 πr^2 = 0.9 x 3.14 x 400² = 0.452 m² Wetted Perimeter P = 2 $\pi r - r \theta$ = 1861 mm Hydraulic radius R = $\frac{A}{P}$ = 242.9 mm			SDM 7.5.2 (d)																								
3 Use Manning Equation for estimating velocity of stormwater Fall S = 1: 25 Take n = 0.016 for concrete lined channels:- Allowable velocity, v = R^{1/6} x (RS_f)^{1/2} / n = (242.9)^{1/6} * (242.9/25)^{1/2} / 0.016 = 4.67 m/s Time of flow, t_f = 0.11 min			SDM 8.2.1																								
4 Use "Rational Method" for calculation of design flow Design intensity, i = a / (t₀ + t_f + b)^c = 505.5 / (0.0+0.11+3.29)^{0.355} for return period T = 50 years = 327 <table> <tr> <th>Type of surface</th><th>Runoff Coefficient C</th><th>Catchment Area A (m²)</th><th>C x A</th></tr> <tr> <td>Flat Grassland (heavy soil)</td><td>0.25</td><td>0.0</td><td>0.0</td></tr> <tr> <td>Concrete Paving</td><td>0.95</td><td>0.0</td><td>0.0</td></tr> <tr> <td>Macadam Roadways</td><td>0.425</td><td>0.0</td><td>0.0</td></tr> <tr> <td>Wooded Areas</td><td>0.105</td><td>0.0</td><td>0.0</td></tr> <tr> <td colspan="3">SUM =</td><td>0.0</td></tr> </table> Upstream flow, Q_u = 0.291 m³/s Design flow, Q_d = 0.278i $\sum C_i A_i$ + Q_u where A_i is in km² = 1.16 x 0.278 x 327 x 0 / 1000000 + 0.291 = 0.291 m³/s Allowable flow, Q_a = a x v = 0.3974 x 1.35 = 2.109 m³/s > Q_d (O.K.)			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	Macadam Roadways	0.425	0.0	0.0	Wooded Areas	0.105	0.0	0.0	SUM =			0.0	SDM Table 13 SDM Table 12
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																								
Macadam Roadways	0.425	0.0	0.0																								
Wooded Areas	0.105	0.0	0.0																								
SUM =			0.0																								
Reference was made to Stormwater Drainage Manual (SDM) by DSD			SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a																								
			SDM 7.5.2 (b)																								
			SDM 7.5.2 (a) Corrigendum 1/2022																								
Scale: NA	Hydraulic Calculation Lots 670 (Part), 671 (Part), 673 (Part), 674, 675, 676, 677 (Part), 679 (Part) and 680 (Part) in D.D. 106 and Adjoining Government Land, Yuen Long, New Territories	Goldrich Planners & Surveyors Ltd.																									
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Legend:

-  Vehicular Ingress/ Egress
-  Catch-pit
-  Catch-pit with trap
-  U-Channel
-  U-Channel with C.I. cover
-  Pipe

Site Area: 6,147m²



1:750 (A3)

October 2025

Drainage Proposal

Lots 670(part), 671(part), 673(part), 674, 675, 676, 677(part), 679(part) and 680(part)
in DD.106 and adjoining Government Land

Goldrich Planners & Surveyors Ltd.

Plan 5.1
(P 22068A)

