

Your Ref.: A/YL-KTS/1084

Our Ref.: P25012/TL25453

24 December 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)

**Proposed Temporary Warehouse (excluding Dangerous Goods Godown)
With Ancillary Office and Associated Filling of Land for a Period of 3 Years in
“Agriculture” Zone, Lots 1012 S.B, 1012 S.C, 1013, 1014 RP, 1015 S.A, 1015 S.B,
1015 RP, 1016 (Part), 1018, 1034 (Part) and 1035 in D.D.113,**

Kam Tin, Yuen Long, New Territories

(Application No. A/YL-KTS/1084)

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.: Mr. Thomas LAU)

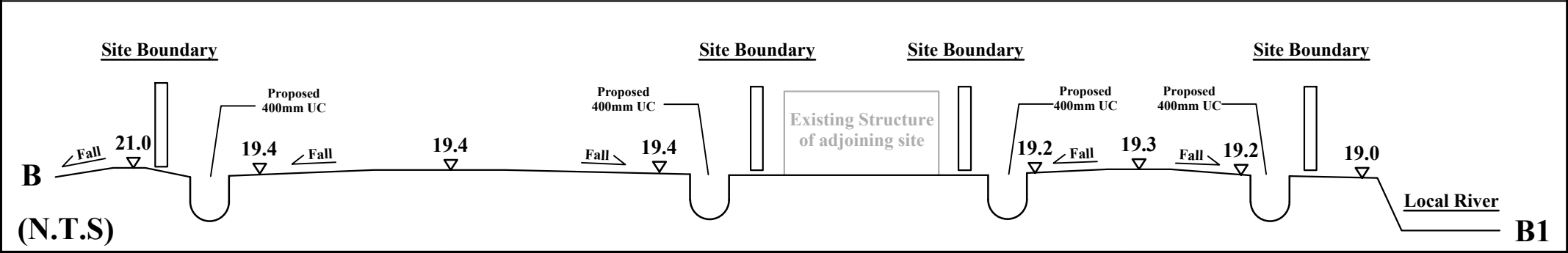
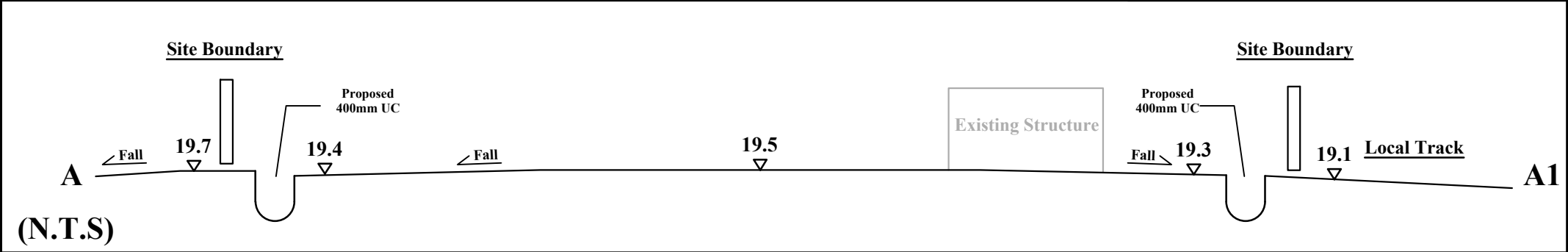
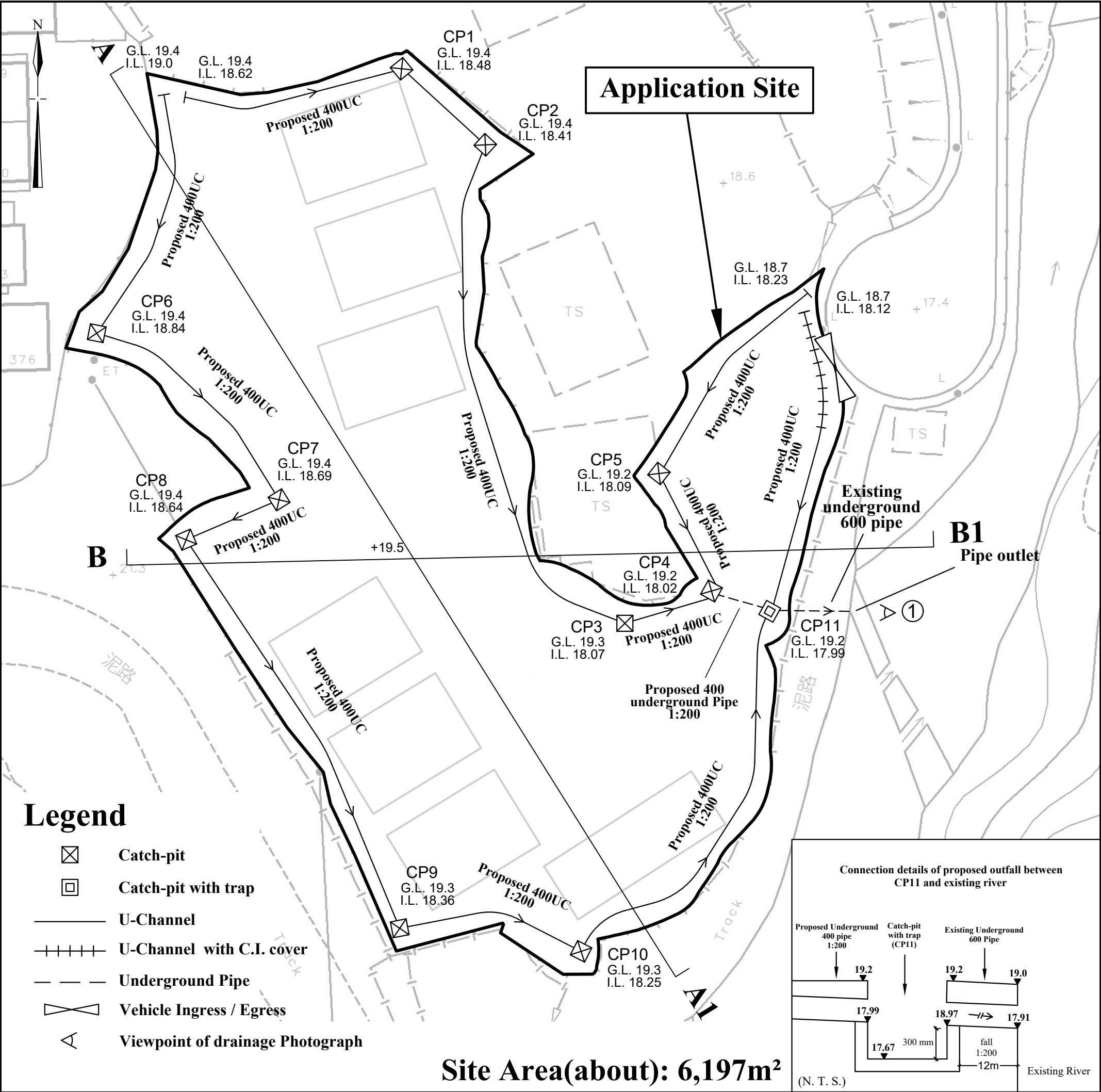
Further Information for Planning Application No. A/YL-KTS/1084**Response-to-Comments****Comments from the Drainage Services Department**

Contact person: Mr. Kenneth CHAN (Tel.: 2300 1257)

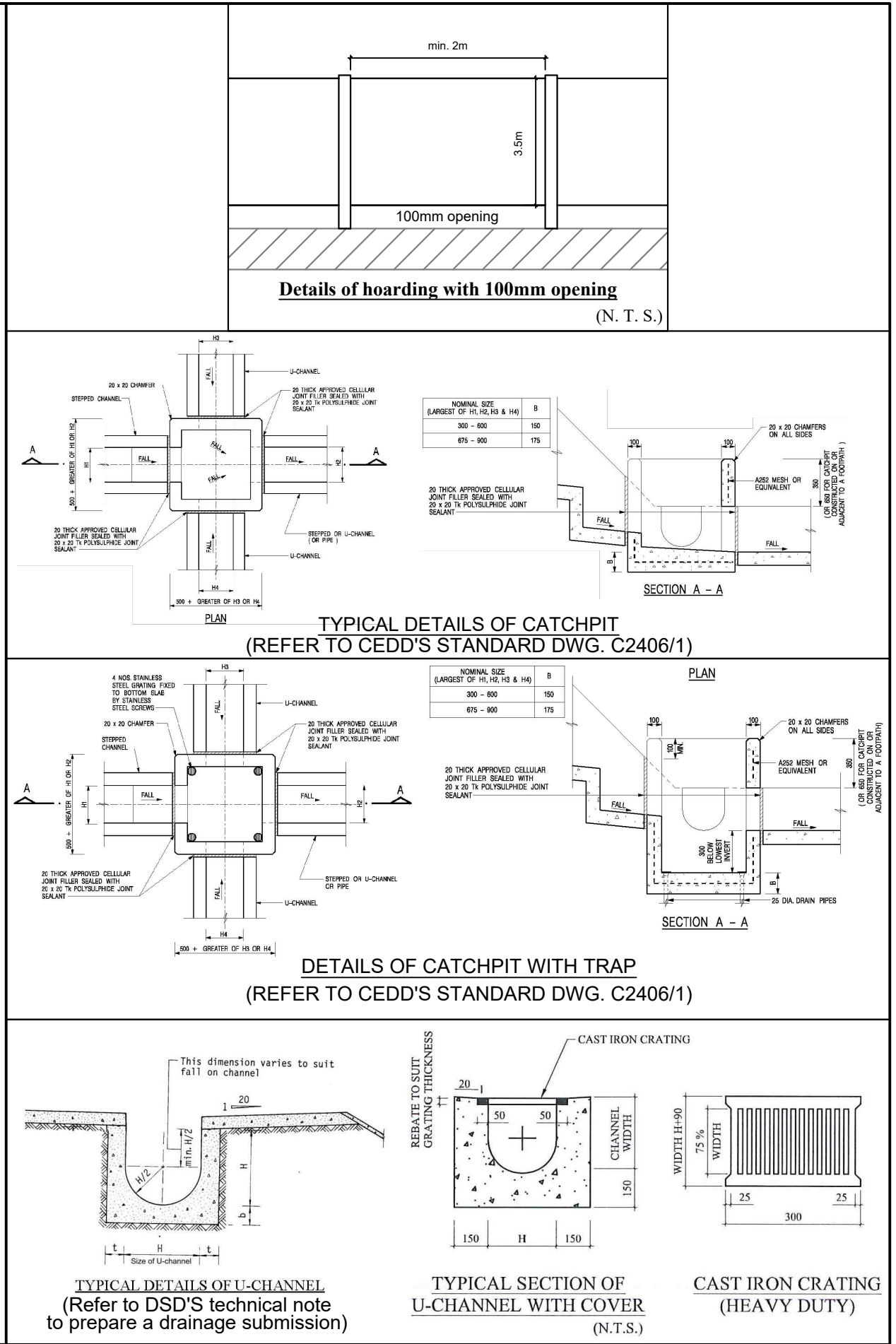
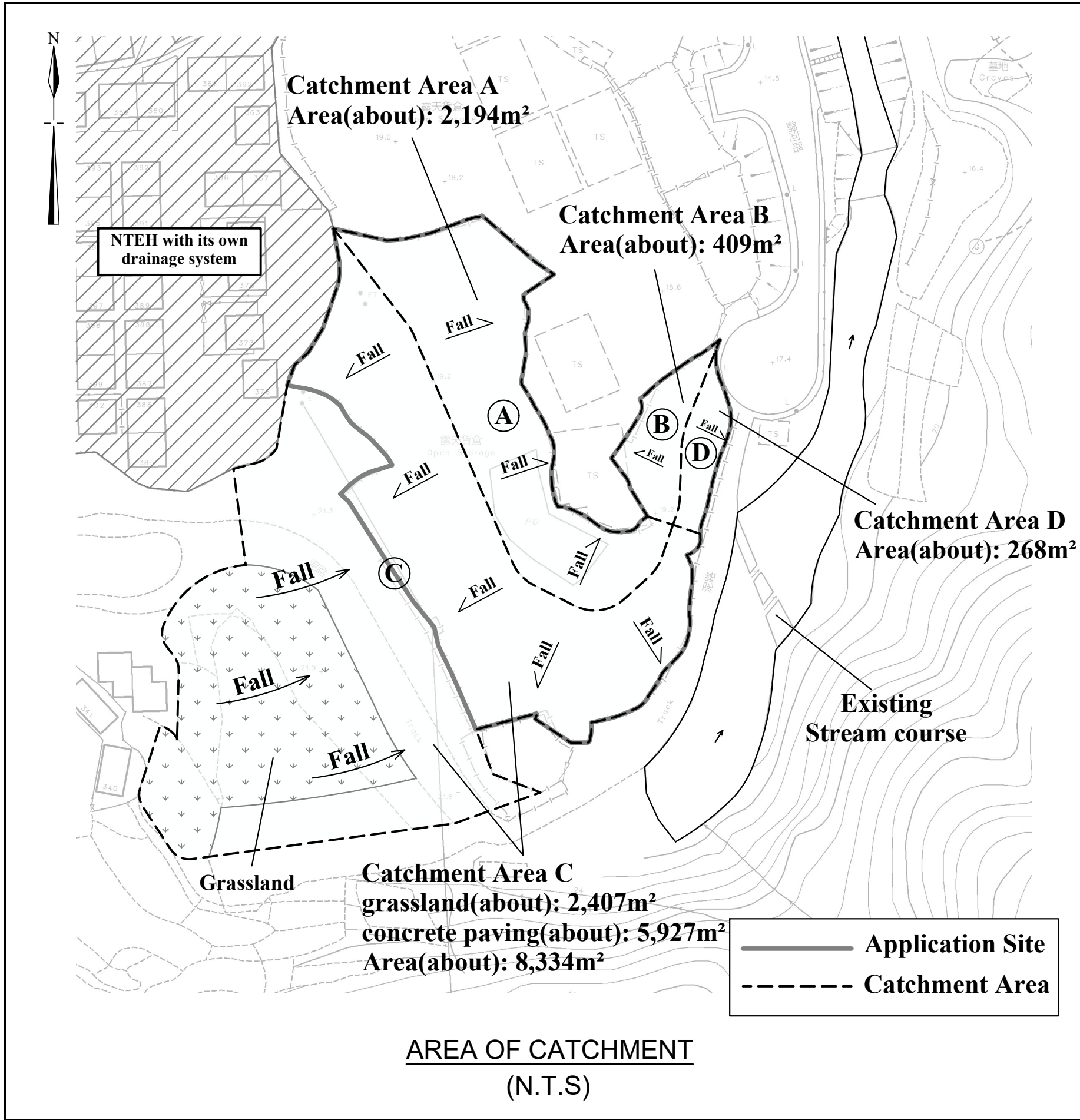
I.	Comments	Responses
1.	Please review the catchment area and include the catchment area in the south-western side of the application site for the design calculation.	We have reviewed the catchment area. Please refer to Plan 6.2a and hydraulic calculations.
2.	Please provide drainage channel near the entrance to avoid surface runoff discharge outside the side boundary. The G.L. of the roundabout outside the application site is +17.4mPD. However, the G.L. of the entrance shown in Plan 6.1 is about +19.2mPD. Please check and clarify.	We have revised the G.L. of the entrance shown in Plan 6.1 and provided drainage channel near the entrance. Please refer to Plan 6.1a.
3.	Land filling works will be carried out under this application. Please ensure that the overland flow from the adjacent lands should not be affected.	Noted.
4.	Colour photos to indicate the current conditions of the existing drainage facilities (in particular the existing 600mm pipe outlet) should be included in the submission. The photos taken locations and angles should be shown on the layout plan.	Please refer to Viewpoint Photo 1.
5.	Where walls or hoarding are erected or laid along the site boundary, adequate opening should be provided to intercept the existing overland flow passing through the site.	Hoardings with 100mm opening will be provided to intercept the existing overland flow passing through the site.
6.	The natural stream of the proposed discharge point is not maintained by this Department, consent from the concerned departments/maintenance parties/owners should be obtained for the proposed connections to their drainage systems.	Noted.
7.	The applicant shall resolve any conflict/disagreement with relevant lot owner(s) and seek LandsD's permission for laying new drains/channels and/or modifying/upgrading existing ones in other private lots or on Government land outside the application site.	Noted.

Viewpoint Photo 1





1:500 (A3)	Drainage Proposal Lots 1012 S.B, 1012 S.C, 1013, 1014RP, 1015 S.A, 1015 S.B, 1015 RP, 1016(part), 1018, 1034(part) and 1035 in D.D. 113 Yuen Long, N.T.	Goldrich Planners & Surveyors Ltd.
December 2025		Plan 6.1a (P 25012)



N.T.S	Drainage Proposal Lots 1012 S.B, 1012 S.C, 1013, 1014RP, 1015 S.A, 1015 S.B, 1015 RP, 1016(part), 1018, 1034(part) and 1035 in D.D. 113 Yuen Long, N.T.	Goldrich Planners & Surveyors Ltd.
December 2025		
		Plan 6.2a (P 25012)

1 For Catchment Area A		Ref.									
Area, A	= 2194 m ²										
Average slope, H	= 0.1 m per 100m										
Distance on the line of natural flow, L	= 22 m										
Time of concentration, t ₀	= 0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (22) / (0.1 ^{0.2} 2194 ^{0.1}) = 2.3 min	SDM 7.5.2 (d)									
2 For Proposed UC in Catchment Area A											
	<table><tr><td></td><td>From</td><td>To</td></tr><tr><td>Ground level (mPD)</td><td>19.40</td><td>19.20</td></tr><tr><td>Invert level (mPD)</td><td>18.62</td><td>18.02</td></tr></table>		From	To	Ground level (mPD)	19.40	19.20	Invert level (mPD)	18.62	18.02	
	From	To									
Ground level (mPD)	19.40	19.20									
Invert level (mPD)	18.62	18.02									
Width of u-channel, w	= 400 mm										
Length of u-channel, L _c	= 119.4 m										
Depth of vertical part of u-channel, d	= 980 mm										
Gradient of u-channel, S _f	= (18.62-18.02)/119.4 = 0.005										
Cross-Section Area, a	= 0.5 π r ² + w d = 0.5 x 3.14 x 200 ² + 400 x 980 = 0.455 m ²										
Wetted Perimeter, p	= π r + 2 d = 3.14 x 200 + 2 x 980 = 2.588 m										
Hydraulic radius, R	= a / p = 0.176 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 = (0.176) ^{1/6} x (0.176 x 0.005) ^{1/2} / 0.016 = 1.39 m/s	SDM Table 12									
Time of flow, t _f	= 1.4 min										
4 Use "Rational Method" for calculation of design flow											
Design intensity, i	= a / (t ₀ + t _f + b) ^c = 505.5 / (2.3+1.4+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	2194.0									
		C x A									
		2084.3									
		SUM = 2084.3									
Upstream flow, Q _u	= 0 m ³ /s										
Design flow, Q _d	= 1.16 x 0.278i Σ C _f A _i + Q _u where A _i is in km ² = 1.16 x 0.278 x 253 x 2084.3 / 1000000 + 0 = 0.170 m ³ /s	SDM 7.5.2 (a) Corrigendum 1/2022									
Allowable flow, Q _a	= a x v = 0.455 x 1.39 = 0.632 m ³ /s > Q _d (O.K.)										
Reference was made to Stormwater Drainage Manual (SDM) by DSD											

1 For Catchment Area B	Ref.																
<div>Area, A = 409 m²</div> <div>Average slope, H = 0.1 m per 100m</div> <div>Distance on the line of natural flow, L = 12 m</div> <div>Time of concentration, t₀ = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (12) / (0.1^{0.2}409^{0.1}) = 1.5 min</div>	SDM 7.5.2 (d)																
2 For Proposed UC in Catchment Area B																	
<table><tr><td></td><td>From</td><td>To</td></tr><tr><td>Ground level (mPD)</td><td>18.70</td><td>19.20</td></tr><tr><td>Invert level (mPD)</td><td>18.23</td><td>18.02</td></tr></table> <div>Width of u-channel, w = 400 mm</div> <div>Length of u-channel, L_c = 42.5 m</div> <div>Depth of vertical part of u-channel, d = 980 mm</div> <div>Gradient of u-channel, S_f = (18.23-18.02)/42.5 = 0.005</div> <div>Cross-Section Area, a = 0.5 π r² + w d = 0.5 x 3.14 x 200² + 400 x 980 = 0.455 m²</div> <div>Wetted Perimeter, p = π r + 2 d = 3.14 x 200 + 2 x 980 = 2.588 m</div> <div>Hydraulic radius, R = a / p = 0.176 m</div>		From	To	Ground level (mPD)	18.70	19.20	Invert level (mPD)	18.23	18.02	SDM 8.2.1							
	From	To															
Ground level (mPD)	18.70	19.20															
Invert level (mPD)	18.23	18.02															
3 Use Manning Equation for estimating velocity of stormwater																	
<div>Take n = 0.016 for concrete lined channels:-</div> <div>Allowable velocity, v = R^{1/6} x (RS_f)^{1/2} / n = (0.176)^{1/6} x (0.176 x 0.005)^{1/2} / 0.016 = 1.38 m/s</div> <div>Time of flow, t_f = 0.5 min</div>	SDM Table 13 SDM Table 12																
4 Use "Rational Method" for calculation of design flow																	
<div>Design intensity, i = a / (t₀ + t_f + b)^c = 505.5 / (1.5+0.5+3.29)^{0.355} for return period T = 50 years = 279</div> <table><tr><td>Type of surface</td><td>Runoff Coefficient C</td><td>Catchment Area A (m²)</td><td>C x A</td></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>409.0</td><td>388.6</td></tr><tr><td></td><td></td><td>SUM =</td><td>388.6</td></tr></table> <div>Upstream flow, Q_u = 0 m³/s</div> <div>Design flow, Q_d = 0.278i Σ C_rA_i + Q_u where A_i is in km² = 1.16 x 0.278 x 279 x 388.55 / 1000000 + 0 = 0.035 m³/s</div> <div>Allowable flow, Q_a = a x v = 0.455 x 1.38 = 0.627 m³/s</div> <div>> Q_d (O.K.)</div>	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	409.0	388.6			SUM =	388.6	SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a SDM 7.5.2 (b) SDM 7.5.2 (a) Corrigendum 1/2022
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	409.0	388.6														
		SUM =	388.6														
Reference was made to Stormwater Drainage Manual (SDM) by DSD																	

1 For Connection between CP4 and CP11			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 Pipe after CP4			
Size(Diameter) w	=	400 mm	
Length of Pipe	=	6 m	
Design the pipe to 9/10 full bore capacity, then			
Area of ventilated portion	=	0.1 of pipe area	SDM 8.2.1
1/2 r ² θ - 1/2 r ² sin(θ)	=	0.1 π r ²	
θ - sin(θ)	=	0.2 π	
θ	=	1.63 rad = 93.4 ^o (By trial and error)	
Area A	=	0.9 π r ²	
	=	0.9 x 3.14 x 400 ²	
	=	452160 mm ²	
	=	0.452 m ²	
Wetted Perimeter P	=	2 π r - r θ = 1861 mm	
Hydraulic radius R	=	A/P	
	=	242.9 mm	
3 Use Manning Equation for estimating velocity of stormwater			
Fall S	=	1: 200	SDM Table 13
Take n	=	0.016 for concrete lined channels:-	
Allowable velocity, v	=	R ^{1/6} x (RS) ^{1/2} / n = (0.243) ^{1/6} * (0.243/200) ^{1/2} / 0.016	
	=	1.72 m/s	
Time of flow, t _f	=	0.06 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+0.06+3.29) ^{0.355} for return period T = 50 years	Corrigendum 1/2024
	=	329	SDM Table 3a
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	SDM 7.5.2 (b)
Flat Glassland(heavy soil)	0.25	0.0	
Concrete Paving	0.95	0.0	
Macadam Roadways	0.425	0.0	
Wooded Areas	0.105	0.0	
		SUM = 0.0	
Upstream flow, Q _u	=	0.205 m ³ /s	
Design flow, Q _d	=	0.278i Σ C _i A _i + Q _u where A _i is in km ²	SDM 7.5.2 (a)
	=	1.16 x 0.278 x 329 x 0 / 1000000 + 0.205	Corrigendum 1/2022
	=	0.205 m ³ /s	
Allowable flow, Q _a	=	a x v	
	=	0.45 x 1.72	
	=	0.778 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.
December 2025	Lots 1012 S.B, 1012 S.C, 1013, 1014 RP, 1015 S.A, 1015 S.B, 1015 RP, 1016 (Part), 1018, 1034 (Part) and 1035 in D.D.113, Kam Tin, Yuen Long, New Territories		Page 3 (P25012)

1 For Catchment Area C			Ref.
Area, A	=	8334 m ²	
Average slope, H	=	0.1 m per 100m	
Distance on the line of natural flow, L	=	35 m	
Time of concentration, t _c	=	0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (35) / (0.1 ^{0.2} 8334 ^{0.1})	SDM 7.5.2 (d)
	=	3.3 min	
2 For Proposed UC in Catchment Area C			
	From	To	
Ground level (mPD)	19.40	19.20	
Invert level (mPD)	19.00	17.99	
Width of u-channel, w	=	400 mm	
Length of u-channel, L _c	=	203 m	
Depth of vertical part of u-channel, d	=	1010 mm	
Gradient of u-channel, S _f	=	(19-17.99)/203 = 0.005	
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 200 ² + 400 x 1010	
	=	0.467 m ²	
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 200 + 2 x 1010	
	=	2.648 m	
Hydraulic radius, R	=	a / p	SDM 8.2.1
	=	0.176 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 = (0.176) ^{1/6} x (0.176 x 0.005) ^{1/2} / 0.016	SDM Table 12
	=	1.39 m/s	
Time of flow, t _f	=	2.4 min	
4 Use "Rational Method" for calculation of design flow			
Design intensity, i	=	a / (t _c + t _f + b) ^c	SDM 4.3.2
	=	505.5 / (3.3+2.4+3.29) ^{0.355} for return period T = 50 years	Corrigendum 1/2024
	=	232	SDM Table 3a
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A
Flat Grassland (heavy soil)	0.25	2407.0	601.8
Concrete Paving	0.95	5927.0	5630.7
		SUM =	6232.4
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	SDM 7.5.2 (a)
	=	1.16 x 0.278 x 232 x 6232.4 / 1000000 + 0	Corrigendum 1/2022
	=	0.466 m ³ /s	
Allowable flow, Q _a	=	a x v	
	=	0.467 x 1.39	
	=	0.647 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.
December 2025	Lots 1012 S.B, 1012 S.C, 1013, 1014 RP, 1015 S.A, 1015 S.B, 1015 RP, 1016 (Part), 1018, 1034 (Part) and 1035 in D.D.113, Kam Tin, Yuen Long, New Territories		Page 4 (P25012)

1 For Catchment Area D			Ref.	
Area, A	=	268 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} 268 ^{0.1})		
	=	1.3 min		
2 For Proposed UC in Catchment Area D				
	From	To		
Ground level (mPD)	18.70	19.20		
Invert level (mPD)	18.12	17.99		
Width of u-channel, w	=	400 mm		
Length of u-channel, L _c	=	25.2 m		
Depth of vertical part of u-channel, d	=	1010 mm		
Gradient of u-channel, S _f	=	(18.12-17.99)/25.2 = 0.005		
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 200 ² + 400 x 1010	SDM 8.2.1	
	=	0.467 m ²		
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 200 + 2 x 1010		
	=	2.648 m		
Hydraulic radius, R	=	a / p		
	=	0.176 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 = (0.176) ^{1/6} x (0.176 x 0.005) ^{1/2} / 0.016		SDM Table 12
	=	1.41 m/s		
Time of flow, t _f	=	0.3 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 / (1.3+0.3+3.29) ^{0.355} for return period T = 50 years	Corrigendum 1/2024	
	=	288	SDM Table 3a	
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	SDM 7.5.2 (b)	
Flat Glassland(heavy soil)	0.25	0.0		
Concrete Paving	0.95	268.0		
		SUM =	254.6	
Upstream flow, Q _u	=	0 m ³ /s	SDM 7.5.2 (a) Corrigendum 1/2022	
Design flow, Q _d	=	0.278i Σ C _f A _f + Q _u where A _f is in km ²		
	=	1.16 x 0.278 x 288 x 254.6 / 1000000 + 0		
	=	0.024 m ³ /s		
Allowable flow, Q _a	=	a x v		
	=	0.467 x 1.41		
	=	0.659 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.
December 2025	Lots 1012 S.B, 1012 S.C, 1013, 1014 RP, 1015 S.A, 1015 S.B, 1015 RP, 1016 (Part), 1018, 1034 (Part) and 1035 in D.D.113, Kam Tin, Yuen Long, New Territories		Page 5 (P25012)	

1 For Connection between CP11 to existing river <div> <div>Area, A = 0 m²</div> <div>Average slope, H = 0.1 m per 100m</div> <div>Distance on the line of natural flow, L = 0 m</div> </div> <div> <div>Time of concentration, t_c = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (0) / (0.1^{0.2}0^{0.1})</div> <div>= 0.0 min</div> </div>			Ref.																								
2 For Pipe after Cp11 <div> <div>Size(Diameter) w = 600 mm</div> <div>Length of Pipe = 12 m</div> </div> <div>Design the pipe to 9/10 full bore capacity, then</div> <div>Area of ventilated portion = 0.1 of pipe area</div> <div> $\frac{1}{2} r^2 \theta - \frac{1}{2} r^2 \sin(\theta) = 0.1 \pi r^2$ $\theta - \sin(\theta) = 0.2 \pi$ $\theta = 1.63 \text{ rad} = 93.4^\circ \text{ (By trial and error)}$ </div> <div> <div>Area A = 0.9 πr^2</div> <div>= 0.9 x 3.14 x 600²</div> <div>= 1017360 mm²</div> <div>= 1.017 m²</div> </div> <div> <div>Wetted Perimeter P = 2 $\pi r - r \theta$ = 2792 mm</div> <div>Hydraulic radius R = $\frac{A}{P}$</div> <div>= 364.4 mm</div> </div>			SDM 7.5.2 (d)																								
3 Use Manning Equation for estimating velocity of stormwater <div> <div>Fall S = 1: 200</div> <div>Take n = 0.016 for concrete lined channels:-</div> </div> <div> <div>Allowable velocity, v = $R^{1/6} \times (RS)^{1/2} / n = (0.364)^{1/6} \times (0.364/200)^{1/2} / 0.016$</div> <div>= 2.25 m/s</div> </div> <div> <div>Time of flow, t_f = 0.089 min</div> </div>			SDM 8.2.1																								
4 Use "Rational Method" for calculation of design flow <div> <div>Design intensity, i = a / (t_c + t_f + b)^c</div> <div>= 505.5 / (0.0+0.09+3.29)^{0.355} for return period T = 50 years</div> <div>= 328</div> </div> <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> <div> <div>Upstream flow, Q_u = 0.695 m³/s</div> <div> <div>Design flow, Q_d = 0.278i $\Sigma C_i A_i$ + Q_u where A_i is in km²</div> <div>= 1.16 x 0.278 x 328 x 0 / 1000000 + 0.695</div> <div>= 0.695 m³/s</div> </div> <div> <div>Allowable flow, Q_a = a x v</div> <div>= 1.02 x 2.25</div> <div>= 2.294 m³/s</div> <div>> Q_d (O.K.)</div> </div> </div>			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 1012 S.B, 1012 S.C, 1013, 1014 RP, 1015 S.A, 1015 S.B, 1015 RP, 1016 (Part), 1018, 1034 (Part) and 1035 in D.D.113, Kam Tin, Yuen Long, New Territories	Goldrich Planners & Surveyors Ltd.																									
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