

Appendix I

. 顧問有限公司

Our Ref.:

DD117 Lot 1483 & VL

Your Ref.:

TPB/A/YL-TT/635

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

By Email

10 May 2024

Dear Sir,

1st Further Information

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown)
with Ancillary Facilities for a Period of 3 Years in "Open Storage" and "Recreation" Zones,
Various Lots in D.D. 117 and Adjoining Government Land, Tai Tong, Yuen Long, New Territories

(S.16 Planning Application No. A/YL-TT/635)

We are writing to submit Further Information to address departmental comments of the subject application (Appendix I).

Should you require more information regarding the application, please contact our Ms. Ron LEUNG at convenience.

Thank you for your kind attention.

Yours faithfully,

For and on behalf of R-riches Property Consultants Limited

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Louis TSE Town Planner

cc DPO/TMYLW, PlanD

(Attn.: Ms. Eva TAM

(Attn.: Mr. Bosco YUNG

email: ekytam@pland.gov.hk

email: btkyung@pland.gov.hk

)

Responses-to-Comments

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown)
with Ancillary Facilities for a Period of 3 Years in "Open Storage" and "Recreation" Zones,
Various Lots in D.D. 117 and Adjoining Government Land, Tai Tong, Yuen Long, New Territories

(S.16 Planning Application No. A/YL-TT/635)

(i) A RtoC Table:

Departmental Comments				Applicant's Responses
	Comments of Dis (Contact Person:			ands Department (DLO/YL, LandsD)
(a)				Noted. The applicant will submit Short Term Waiver (STW) and Short Term Tenancy (STT) applications to rectify the applied use erected on the concerned lots and Government Land after planning approval has been obtained from the Board. The unauthorised structures erected on the concerned lots and GL will be demolished by the applicant after planning approval has been obtained from the Board to facilitate the proposed scheme.
(b)	Within the application site, the following private lots and portion of GL are currently covered by Short Term Waivers (STWs) and Short Term Tenancy (STT), details of which are listed below: Lot No. GL in STW / STT Permitted D.D.117 No. Use			Noted.
	1483, 1484 S.A, 1484 S.D and 1484 S.E 1484 S.B and 1484 S.G 1484 S.C and 1484 S.F GL in D.D.117	5474 5475 5476 STTYL0186	Temporary Wholesale Trade with Ancillary Office	

(c) I must point out that the following irregularities covered by the subject planning application have been detected by this office:

<u>Unauthorised structure(s) within the said private lot(s) covered by the planning application</u>

Noted. The applicant will apply for relevant approval to rectify the applied use accordingly.

LandsD has reservation on the planning application since there are unauthorised structure(s) and/or uses on Lot 1477 S.A ss.1 and 1485 both in D.D. 117 which is already subject to lease enforcement actions according to case priority. The lot owner(s) should rectify/apply for regularization on the lease breaches as demanded by LandsD.

<u>Unlawful occupation of Government land</u> <u>adjoining the said private lot(s) with</u> <u>unauthorised structure(s) covered by the</u> <u>planning application</u>

The Government land within the application site (about 1,794m² as mentioned in the application form) has been fenced off and unlawfully occupied with unauthorised structure(s) without any permission. Any occupation of GL without Government's prior approval is an offence under Cap.28. This office reserves the rights to take necessary land control action against the unlawful occupation of Government land without further notice.

2. Comments of Chief Engineer/Mainland North, Drainage Services Department (CE/MN, DSD) (Contact Person: Mr. TSE; Tel: 2300 1627)

(a) Drainage Impact Assessment is required for this application.

The applicant has submitted a drainage impact assessment to mitigate the potential drainage impact caused by the proposed development, in order to support the application (Annex I).

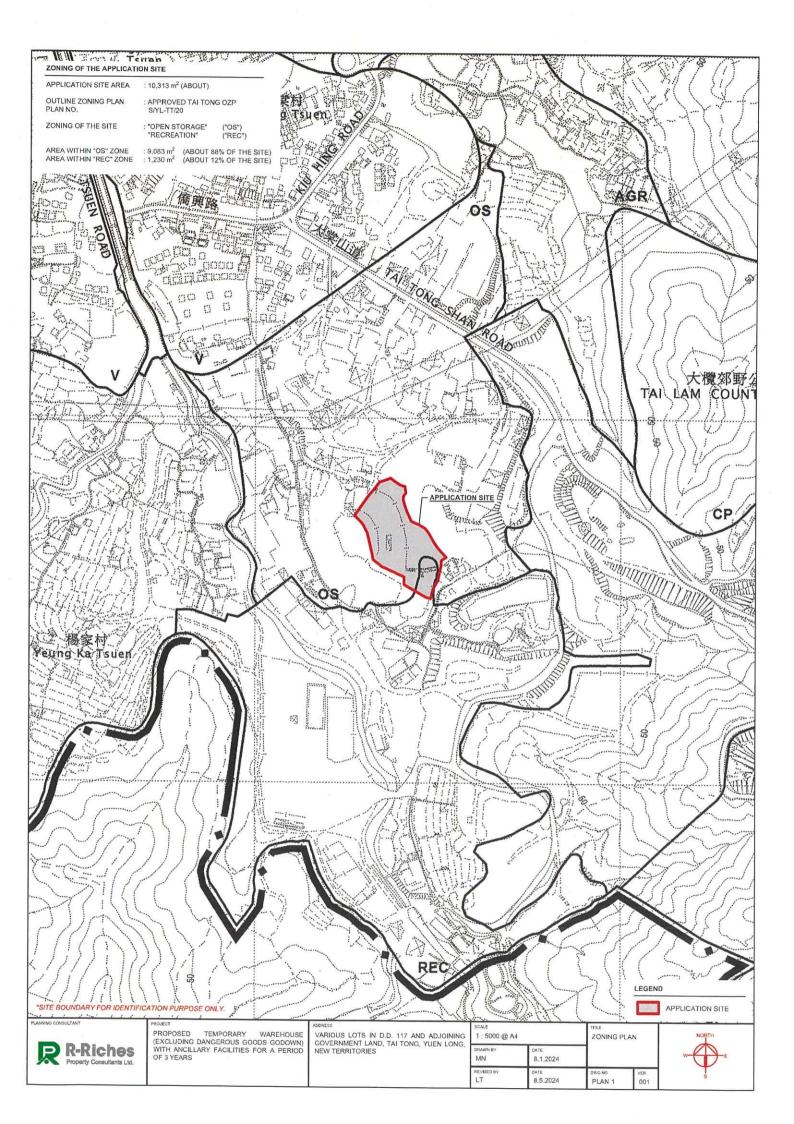
- 3. Comments of District Planning Officer, Tuen Mun and Yuen Long West, Planning Department (DPO/TMYLW, PlanD)
- (a) Please clarify the portion of "OS" zone and "REC" zone.

Majority of the Site (i.e. 9,083m², about 88% of the Site) falls within an area zoned as



S.16 Planning Application No. A/YL-TT/635

	"Open Storage" zone and the remaining
	portion of the Site (i.e. 1,230m², about 12%
	of the Site) falls within "Recreation" zone
	(Plan 1).
=	



Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years

At Various Lots in D.D. 117 and Adjoining Government Land, Tai Tong, Yuen Long, New Territories

Drainage Assessment Report

May 2024

Drainage Consultant: C & H Consulting Co. Ltd

DRAINAGE IMPACT ASSESSMENT

CONTENT

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Appendix A: Location Plan

Appendix B: Outside Catchment Area Plan

Appendix C: Drainage Layout Plan

Appendix D: Overall Catchment Area for the existing 1.8m(W)x1.5m(D) open channel

Appendix E: Calculation

Appendix F: Site Photo

Appendix G: Standard Drawing

1. Introduction

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years at various Lots in D.D. 117 and Adjoining Government Land, Tai Tong, Yuen Long, New Territories (A/YL-TT/635), is applied for planning permission. This report is a Drainage Assessment Report to support the submission.

2. Site Description

The site is located on the left in western side of Tai Tong Shan Road. The site has a higher level on the northern side and lower level on the southern side. The site has partly developed, and the open storage has been constructed at the site. The topography level of the site is lower than the eastern side of site and higher than the western side of the site. Site Area is about 10,313 sq. m (Includes Government Land of about 1,794 sq. m) (Appendix A shows the Location Plan) The ground profile in the further west is sloping downward towards the west direction.

There are some existing drainage facilities that existing Stream (5m width x 5 m depth) along northern side of the site connected to existing open channel Wong Tong Stream with critical size 13m width x 6m depth along western side of the site. Existing Stream is natural-stream channels (conservatively take n=0.04). and the open channel is made of concrete (conservatively take n=0.018). The final discharge is managed by DSD.

3. Drainage Assessment

Peripheral channel is designed to collect the runoff generated from and passed through the site (Appendix B shows the Outside Catchment Area Plan). The final discharge point is the existing 13m width x 6m depth open channel in the western side of the site. The runoff intensity is 180mm/hr. The runoff coefficient

of the site to be 0.95, while that of the part of outside catchment area is 0.95 and part of area is 0.40. (Appendix C shows the Drainage Layout Plan of the site).

The overall catchment area for the existing $1m(W) \times 1m$ (H), $5m(W) \times 5m(H)$ and $13m(W) \times 6m(H)$ open channels is presented in Appendix D. The total area including the site is 614641.84q.m The runoff intensity is 180mm/hr. It is conservatively assumed that site area to be hard paved (C=0.95) and adjacent area to be grass land, steep slope and heavy soil (C=0.4).

For the site itself, the runoff including the site and the outside catchment area is collected by existing 1m (W) x 1m (H) channel and finally discharge to the existing 13m(W)x6m(H) open channel Wong Tong Stream via the existing 1m dia. Underground pipe, 900mm width stepped channel and 5m (W) x 5m (H) channel. For checking the existing 13m(W)x6m(H) open channel, since the site is currently developed and become hard-paved, in drainage point of view, the runoff coefficient is 0.95. It is found that the 13m(W)x6m(H) open channel is adequate to cater the extra runoff due the proposed development. Detailed calculation is presented in Appendix E. Also, all proposed drainage facility and existing drainage system has been checked

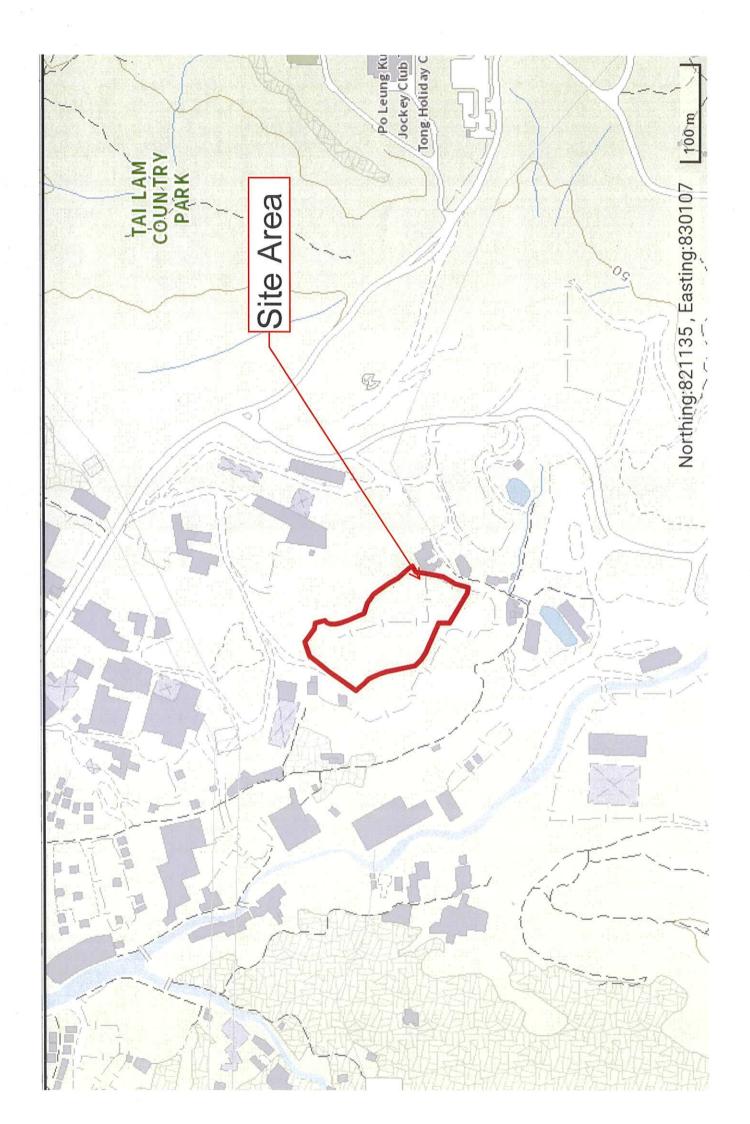
It is found that the existing open channel is capable to cater the runoff without flooding risk.

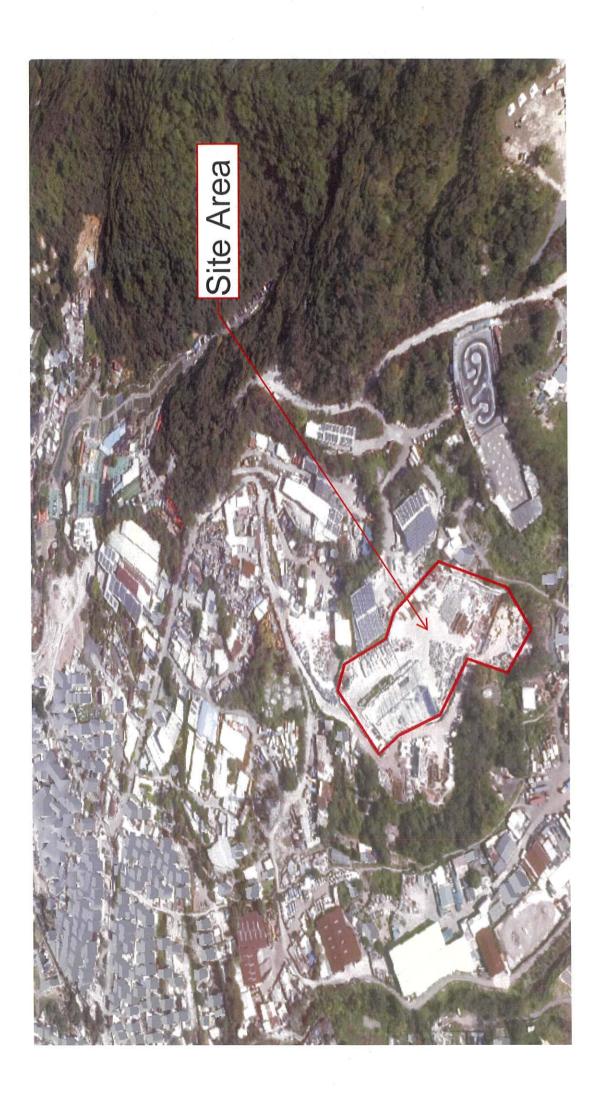
4. Conclusion

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years at various Lots in D.D. 117 and Adjoining Government Land, Tai Tong, Yuen Long, New Territories (A/YL-TT/635), is applied for planning permission. The runoff generated from the site is collected and discharged to the existing open channel in the south that finally discharges to Existing open channel Wong Tong Stream (SCP1011280) maintained by DSD. The overall catchment of the existing open channel and the corresponding runoff is

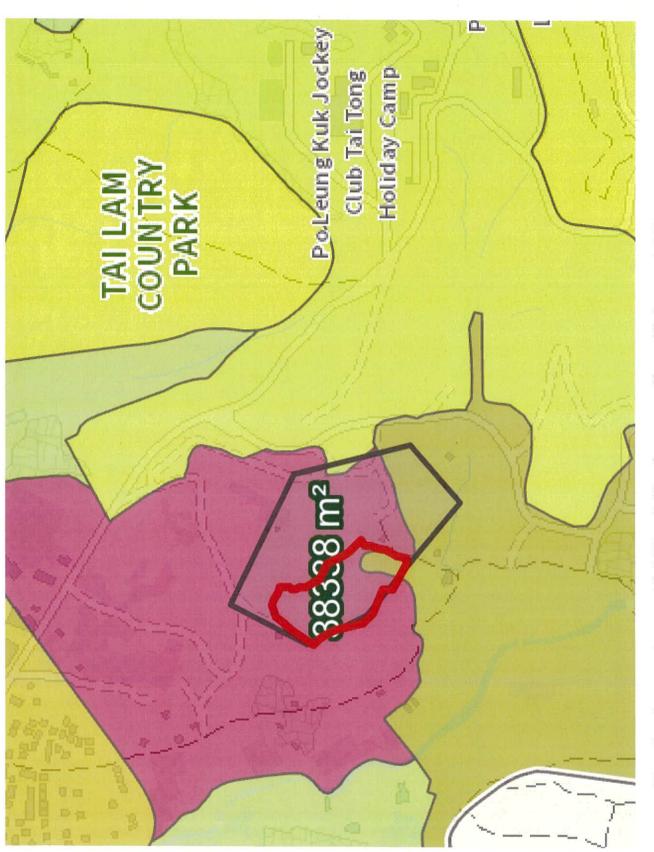
investigated and found that it is capable of catering to the extra runoff from the proposed development. (Appendix E shows the detailed calculation) There is no flooding risk for the proposed development.

Appendix A: Site Location Plan



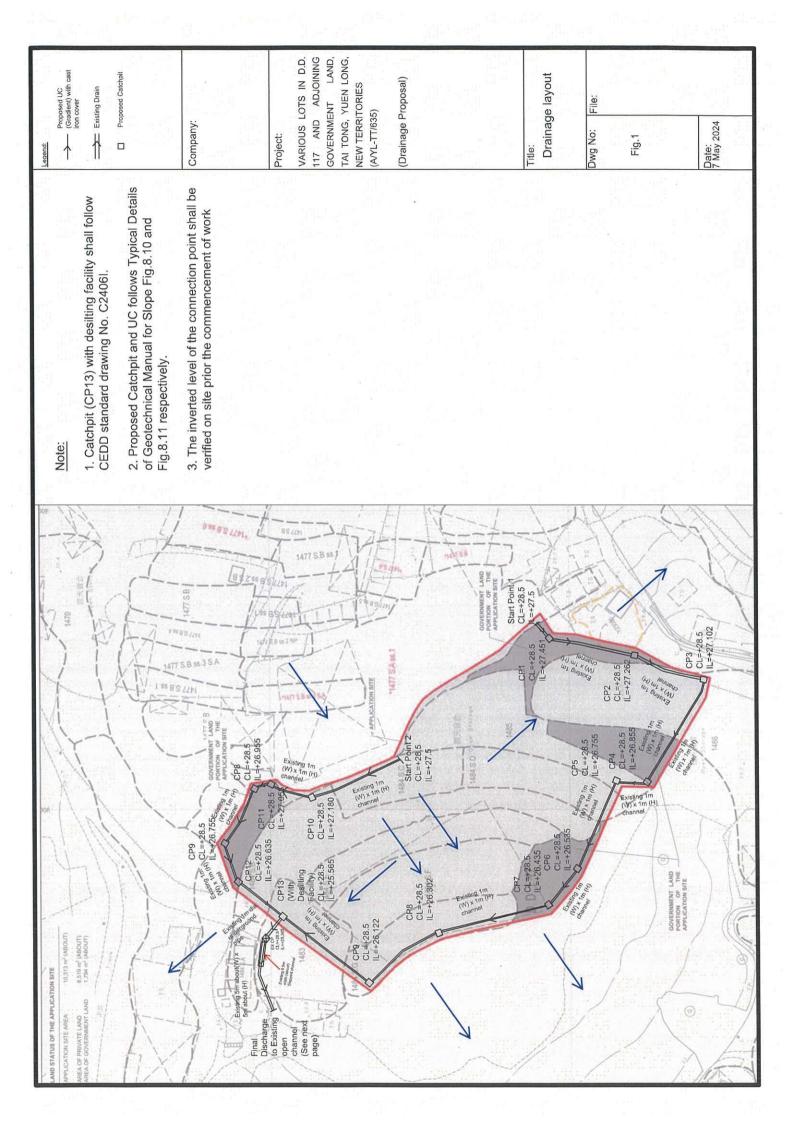


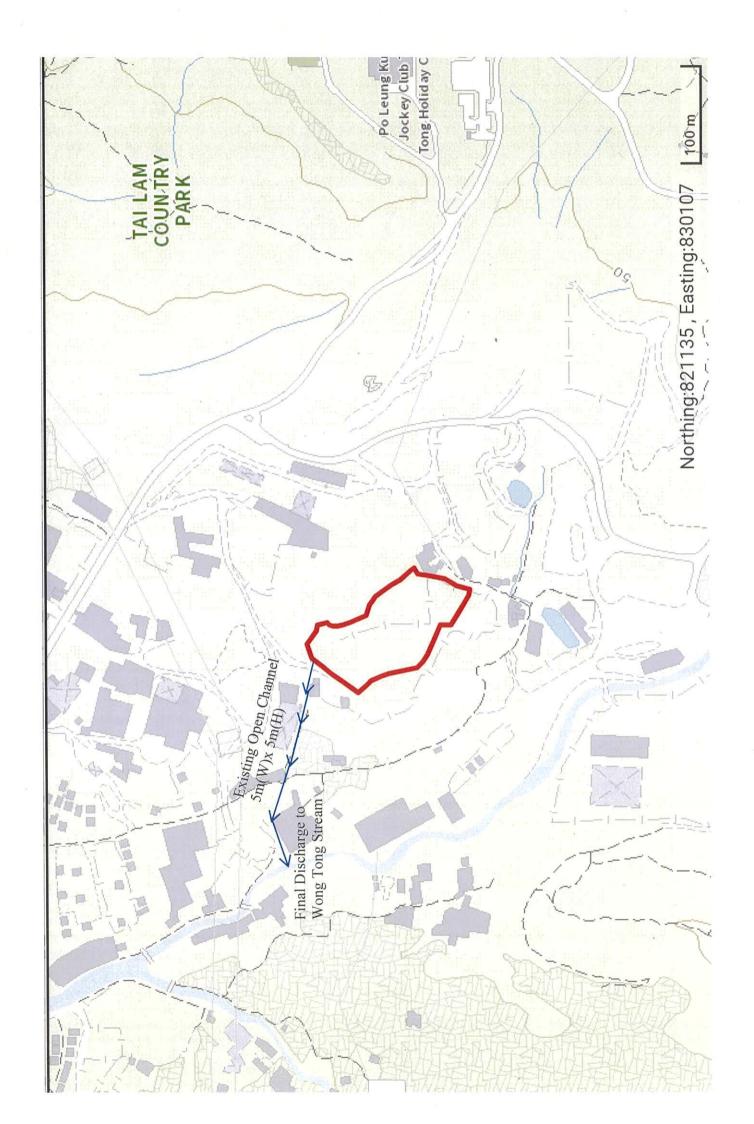
Appendix B: Outside Catchment Plan



Site Catchment Area = 10,313 m2 (Surface runoff coefficient = 0.95) Outside Catchment Area = 28,025 m2 (Surface runoff coefficient = 0.4)

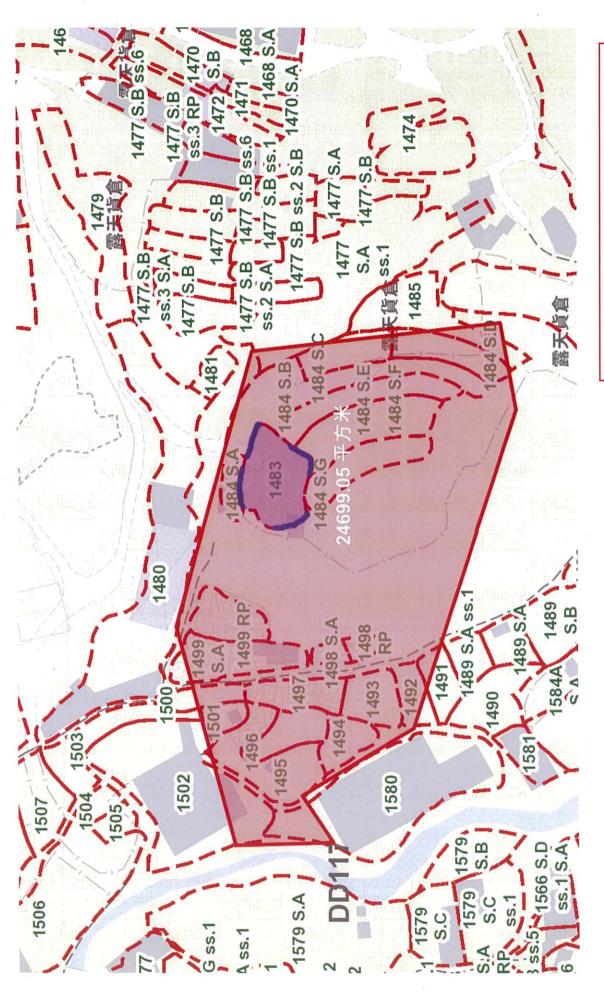
Appendix C: Drainage layout plan





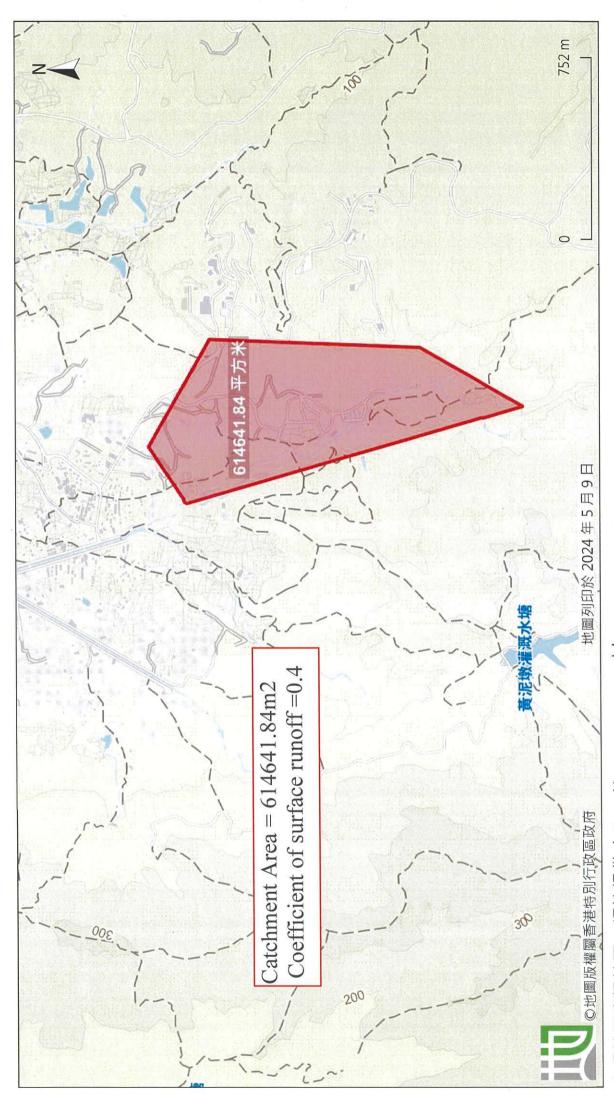
Appendix D: Overall Catchment Area for Existing Channel

Appendix D1: Overall Catchment Area for Existing 5m (W) x 5m (H) Channel



Catchment Area = 24699.05m2Coefficient of surface runoff = 0.25

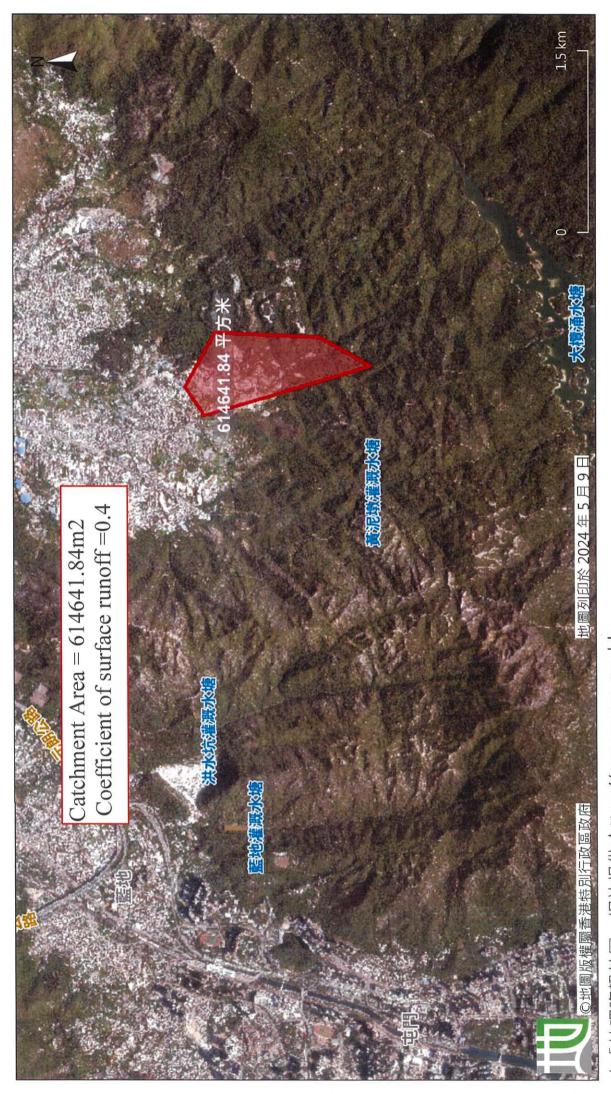
Appendix D2: Overall Catchment Area for Existing 13m (W) x 6m (H) Channel 前往地圖: https://www.map.gov.hk/gm/geo:22.4081,114.0166?z=18056



由「地理資訊地圖」網站提供: https://www.map.gov.hk

注意:使用此地圖受「地理資訊地圖」的使用條款及條件以及知識產權告示約束。

前往地圖: https://www.map.gov.hk/gm/geo:22.4046,114.0032?z=36112



由「地理資訊地圖」網站提供: https://www.map.gov.hk

注意:使用此地圖受「地理資訊地圖」的使用條款及條件以及知識產權告示約束。

Appendix E: Calculation

Appendix E1: Calculation of 1m x 1m channel and 1000mm dia. pipe and 900mm width stepped channel

Company:

Project:

Date:

9/5/2024

E E E 10313 28025 38338

> Outside Catchment Area = Total Catchmnet Area=

Site Area =

(C=0.95, hard-paved) (C=0.4, Grassland, heavy soil, Steep Slope)

 $t_o = \frac{0.1446 \text{M}}{H^{0.2} A^{0.1}}$

time of concentration of a natural catchment (min.)

B

where

catchment area (m2)

average slope (m per 100 m), measured along the line of natural flow, from the summit of the catchment to the point under consideration distance (on plan) measured on the line of natural flow between the summit and the point under consideration (m) 11

t= 0.14475*100/1.5^0.2/38338^0.1

= 4.646

 $i = \frac{a}{(t_d + b)^c}$ a

 t_d = duration in minutes ($t_d \le 240$), and a, b, c = storm constants given in Tables 3a, 3b, 3c and 3d. = extreme mean intensity in mm/hr, where

Assume 10 yrs return period

a = 1157.7 b = 19.04 c = 0.597

i = 174.996504 mm/hr

Therefore,

i = 180take

mm/hr

Company: Project:

Date:

9/5/2024

Calculation for channels:

Catchment Area of site

н н Site Area

mm/hr x 0.010313 km^2 180 0.95 10313 m^2 0.010313 km^2 Peak runoff in m^3/s

m^3/s liter/min 28025 m² 0.028025 km² 0.278 0.490259 29416 HE HE H 11 - 11

Outside Area

mm/hr x 0.028025 km^2 180 0.4 0.278 x 0.560948 m^3/s 33657 liter/min н н н Peak runoff in m^3/s

liter/min 63072.46764 П 1.051208 m^3/s 11 Total Peak Runoff for Site By Maming's equation (InxIn (Nepth) channel is adopted)

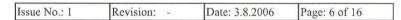
$$Q = \frac{1}{4} \frac{A^{\frac{3}{2}}}{p^{\frac{3}{2}}} S_0 \pm \frac{1}{4}$$
 When $n = 0.015$
 $= \frac{1}{4} \frac{(1)^{\frac{3}{2}}}{(1)^{\frac{3}{2}}} (0.0015)^{\frac{1}{2}}$ $A = [x | = 1m^2]$
 $= \frac{1.24}{1.24} \frac{m^3}{h^4}$

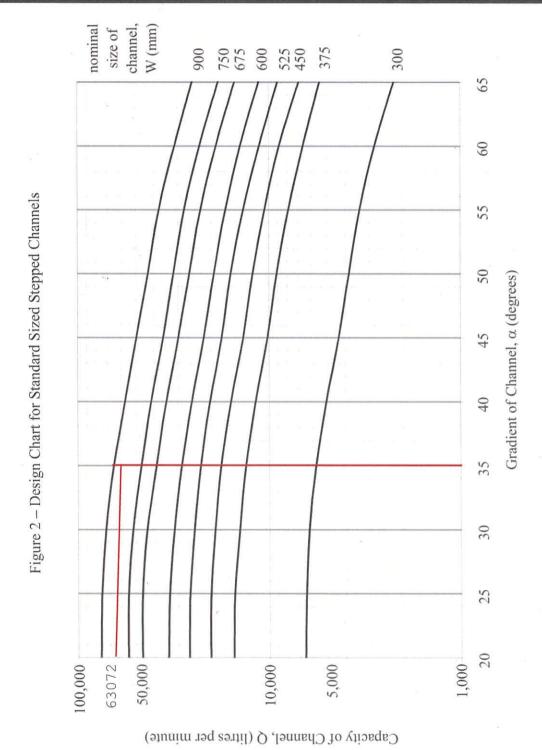
Existing 1m (W) x 1m (H) open channel (1:150) in the site can cater the surface runoff from > 1.05 m3/hr

proposed development

Geotechnical Engineering Office, Civil Engineering and Development Department The Government of the Hong Kong Special Administrative Region

GEO Technical Guidance Note No. 27 (TGN 27) Hydraulic Design of Stepped Channels on Slopes





Existing stepped channel (35 degrees) in the site can cater the surface runoff from proposed development

Check 1000mm dia. Pipe by Colebrook-White Equation

 $1^{^{1}}$ 2 * pi/4 ==>0.K.

Existing 1000mm dia. pipe can cater the surface runoff from proposed development

Appendix E2: Calculation of 5m(W) x 5m (H) Existing channel

Company: Project:

9/5/2024 Date: (C=0.95, hard-paved) (C=0.25, Grassland) 品品品 10313 24699 35012 Site Area = Outside Catchment Area = Total Catchmnet Area=

 $t_o = \frac{0.1446 \Re}{H^{0.2} A^{0.1}}$

time of concentration of a natural catchment (min.) where

catchment area (m2)

average slope (m per 100 m), measured along the line of natural flow, from the summit of the catchment to the point under consideration

distance (on plan) measured on the line of natural flow between the summit and the point under consideration (E) 11

min t= = 4.854 $i = \frac{1}{(t_d + b)^c}$

 $t_d = duration$ in minutes ($t_d \le 240$), and a, b, c = storm constants given in Tables 3a, 3b, 3c and 3d. = extreme mean intensity in mm/hr,

where

Assume 10 yrs return period

a = 1157.7 b = 19.04 c = 0.597

i = 174.081904 mm/hr

mm/hr Therefore,

i = 180take

Company: Project:

Date:

9/5/2024

Calculation for channels:

Catchment Area of site

10313 m^{^2} 0.010313 km^{^2} H = HSite Area

mm/hr x 0.010313 km^2 180 0.95 H H H Peak runoff in m^3/s

x m^3/s liter/min 0.278 0.490259 29416

24699 m² 0.024699 km²

11

Outside Area

0.278 x 0.308984 m^3/s 18539 liter/min HE HE H

Peak runoff in m^3/s

mm/hr x 0.024699 km^2

180

0.25

П

liter/min

47954.63304

0.799244 m^3/s

П

Total Peak Runoff for Site

By Maming's equation (5m×5m (Nepth) channel is adopted

$$Q = \frac{1}{h} \frac{4^{\frac{3}{2}}}{p^{\frac{3}{2}}} \leq S_0$$
 [when $n = 0.04$
 $S_0 = 0.001$
 $S_0 = 0.001$

Existing 5m (W) x 5m (H) open channel (1:150) in the site can cater the surface runoff from proposed development

 $> 0.799 \,\mathrm{m3/hr}$

Appendix E3: Calculation of 13m(W) x 6m (H) Existing channel

Company: Project:

Date:

9/5/2024

Site Area = Outside Catchment Area =

(C=0.95, hard-paved)

(C=0.25, Grassland)

Total Catchmnet Area=

time of concentration of a natural catchment (min.) Į) where

 $t_o = \frac{0.1446 \Re}{H^{0.2} A^{0.1}}$

catchment area (m2) A average slope (m per 100 m), measured along the line of natural flow, from the summit of the catchment to the point under consideration Ξ

distance (on plan) measured on the line of natural flow between the summit and the point under consideration (m) 11

t= 0.14475*100/1.5^0.2/624955^0.1 = 3.514 min

 $i = \frac{a}{(t_d + b)^c}$

= extreme mean intensity in mm/hr,

where

 $t_d=duration$ in minutes ($t_d \le 240$), and a, b, c = storm constants given in Tables 3a, 3b, 3c and 3d.

Assume 10 yrs return period

take

a = 1157.7 b = 19.04c = 0.597 i = 180.185685 mm/hr

Therefore,

mm/hr i = 190

Company: Project:

Date:

9/5/2024

Calculation for channels:

Catchment Area of site

	mm/hr x 0.010313 km^2		mm/hr x 0.624955 km^2
	190		190
	×		×
	0.95		0.4
m^2 km^2	0.278 x 0.517496 m ^A 3/s 31050 liter/min	m^2 km^2	x m^3/s liter/min
10313	0.278 0.517496 31050	624955 0.624955	0.278 13.20405 792243
и II	птп	ш ш	н н н
Site Area	Peak runoff in m^3/s	Outside Area	Peak runoff in m^3/s

liter/min

823292.716

11

13.72155 m^{^3}/s

П

Total Peak Runoff for Site

By Manning's equation (13m×6m lepth) channel is adopted)

$$Q = \frac{1}{4} + \frac{4^{\frac{3}{2}}}{8} + \frac{4}{50} = \frac{10.018}{10.018}$$

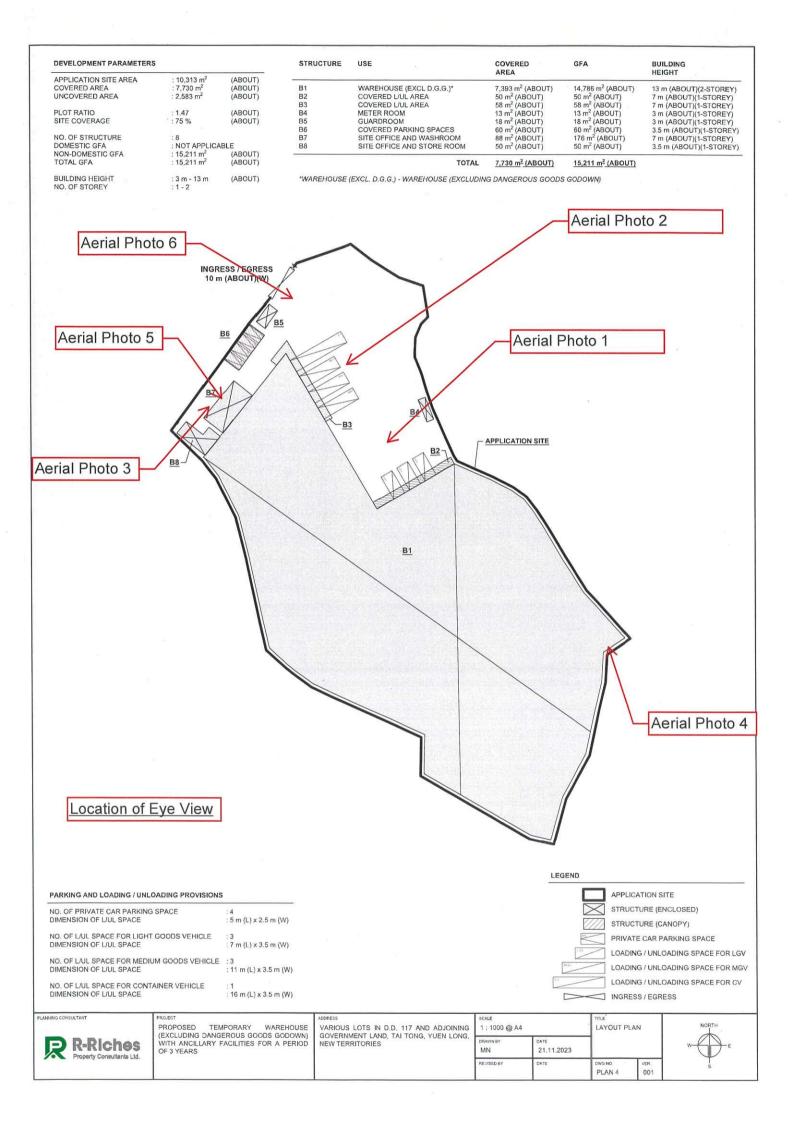
$$= \frac{1}{10.018} + \frac{1}{10.018} + \frac{1}{10.018} = \frac{1}{10.018} = \frac{1}{10.018} = \frac{1}{10.018} = \frac{1}{10.018} = \frac{1}{10.018} = \frac{1}{10.0018} = \frac{1}{10.0$$

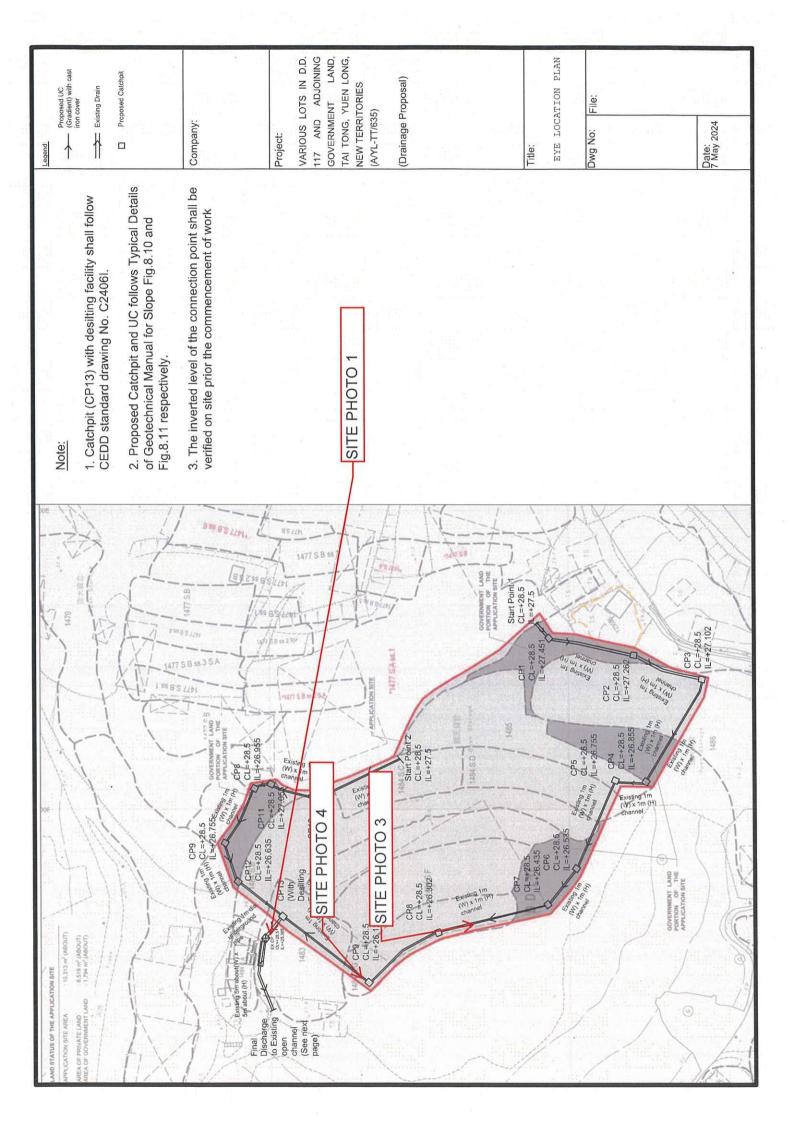
Existing 13m (W) x 6m (H) open channel (1:150) in the site can cater the surface runoff from proposed development

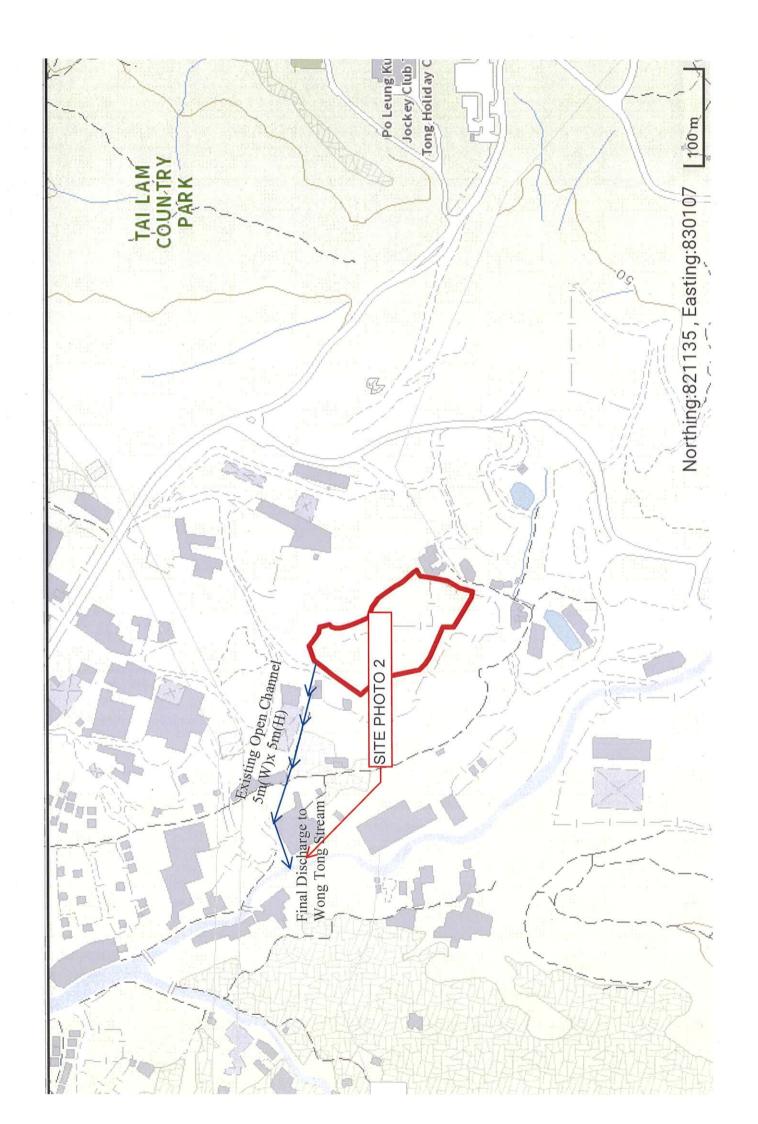
> 13.7 m3/hr

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years at various Lots in D.D. 117 and Adjoining Government Land, Tai Tong, Yuen Long, New Territories (A/YL-TT/635)

Appendix F: Site Photo









Aerial Photo: Overview of the Site



Aerial Photo 1: Shortage



Aerial Photo 2: Shortage



Aerial Photo 3: Site View



Aerial Photo 4: Site View



Aerial Photo 5: Site View



Aerial Photo 6: Site Entrance



Site Photo 1: Stepped Channel and Existing Stream (5m (W) x5m(H))



Site Photo 2: Final Discharge to Wong Tong Stream (Maintained by DSD)



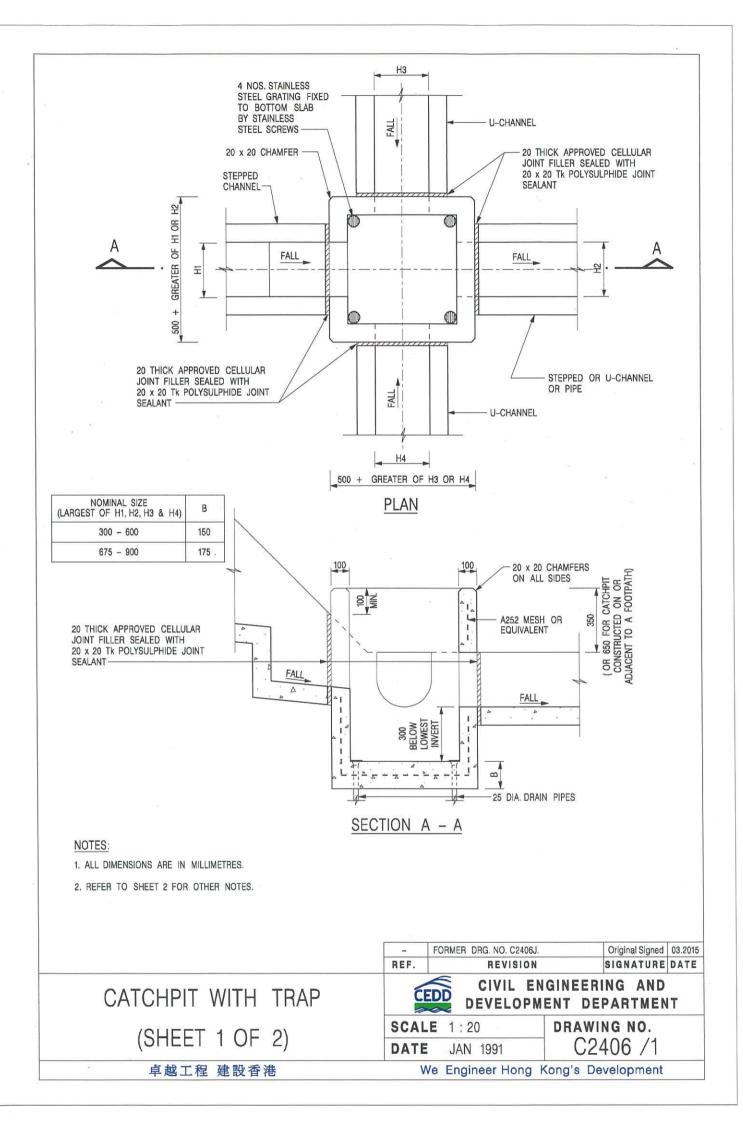
Site Photo 3: Existing 1m (W) x 1m (H) in the site

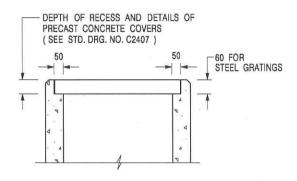


Site Photo 4: Existing 1m (W) x 1m (H) in the site

Proposed Temporary Warehouse (Excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years at various Lots in D.D. 117 and Adjoining Government Land, Tai Tong, Yuen Long, New Territories (A/YL-TT/635)

Appendix G: Standard Drawing





ALTERNATIVE TOP SECTION FOR PRECAST CONCRETE COVERS / GRATINGS

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. ALL CONCRETE SHALL BE GRADE 20 /20.
- 3. CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
- 4. FOR DETAILS OF JOINT, REFER TO STD. DRG. NO. C2413.
- 5. CONCRETE TO BE COLOURED AS SPECIFIED.
- UNLESS REQUESTED BY THE MAINTENANCE PARTY AND AS DIRECTED BY THE ENGINEER, CATCHPIT WITH TRAP IS NORMALLY NOT PREFERRED DUE TO PONDING PROBLEM.
- 7. UPON THE REQUEST FROM MAINTENANCE PARTY, DRAIN PIPES AT CATCHPIT BASE CAN BE USED BUT THIS IS FOR CATCHPITS LOCATED AT SLOPE TOE ONLY AND AS DIRECTED BY THE ENGINEER.
- 8. FOR CATCHPITS CONSTRUCTED ON OR ADJACENT TO A FOOTPATH, STEEL GRATINGS (SEE DETAIL 'A' ON STD. DRG. NO. C2405) OR CONCRETE COVERS (SEE STD. DRG. NO. C2407) SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER.
- 9. IF INSTRUCTED BY THE ENGINEER, HANDRAILING (SEE DETAIL 'G' ON STD. DRG. NO. C2405; EXCEPT, ON THE UPSLOPE SIDE) IN LIEU OF STEEL GRATINGS OR CONCRETE COVERS CAN BE ACCEPTED AS AN ALTERNATIVE SAFETY MEASURE FOR CATCHPITS NOT ON A FOOTPATH NOR ADJACENT TO IT. TOP OF THE HANDRAILING SHALL BE 1 000 mm MIN. MEASURED FROM THE ADJACENT GROUND LEVEL.
- 10. MINIMUM INTERNAL CATCHPIT WIDTH SHALL BE 1 000 mm FOR CATCHPITS WITH A HEIGHT EXCEEDING 1 000 mm MEASURED FROM THE INVERT LEVEL TO THE ADJACENT GROUND LEVEL. AND, STEP IRONS (SEE DSD STD. DRG. NO. DS1043) AT 300 c/c STAGGERED SHALL BE PROVIDED. THICKNESS OF CATCHPIT WALL FOR INSTALLATION OF STEP IRONS SHALL BE INCREASED TO 150 mm.
- FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'F' ON STD. DRG. NO. C2405.
- SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

- FORMER DRG. NO. C2406J. Original Signed 03.2015

REF. REVISION SIGNATURE DATE

CIVIL ENGINEERING AND

DEVELOPMENT DEPARTMENT

CATCHPIT WITH TRAP (SHEET 2 OF 2)

卓越工程 建設香港

SCALE 1:20 **DATE** JAN 1991

C2406 /2

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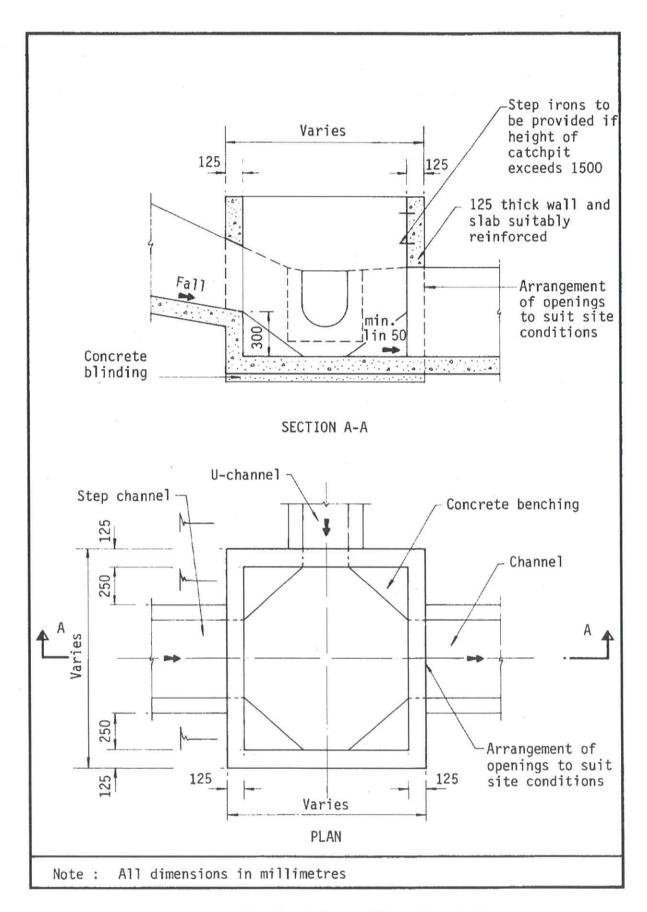


Figure 8.10 - Typical Details of Catchpits

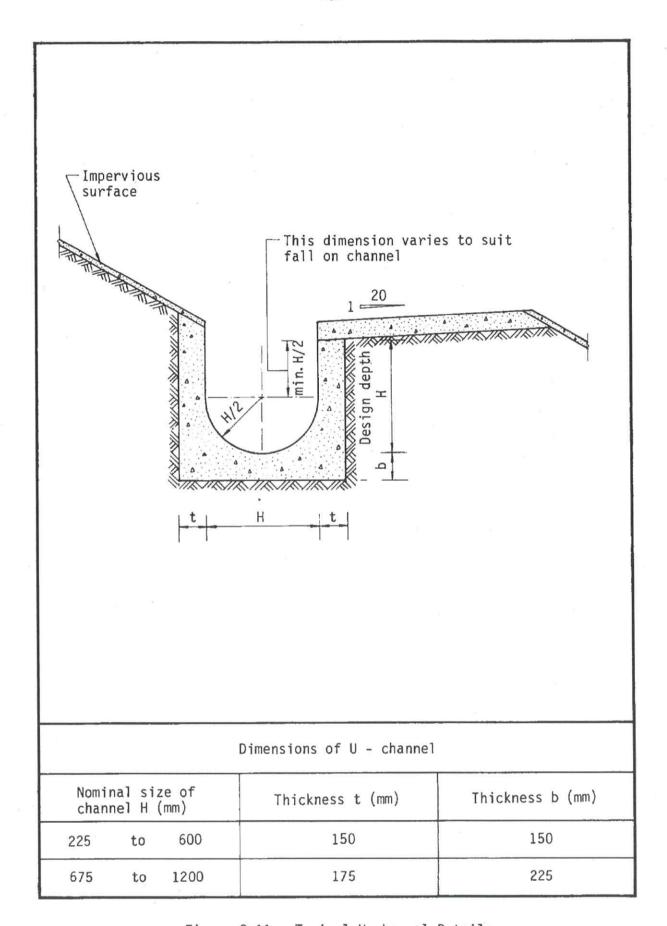
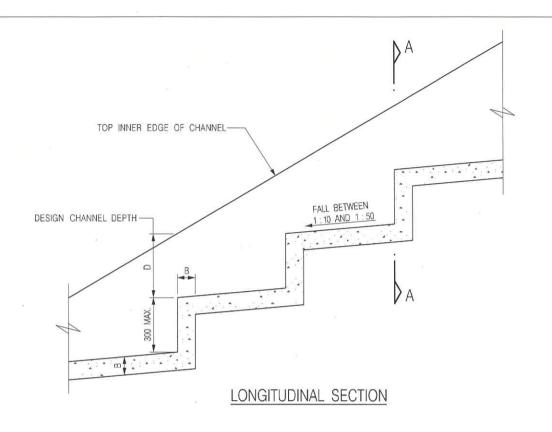
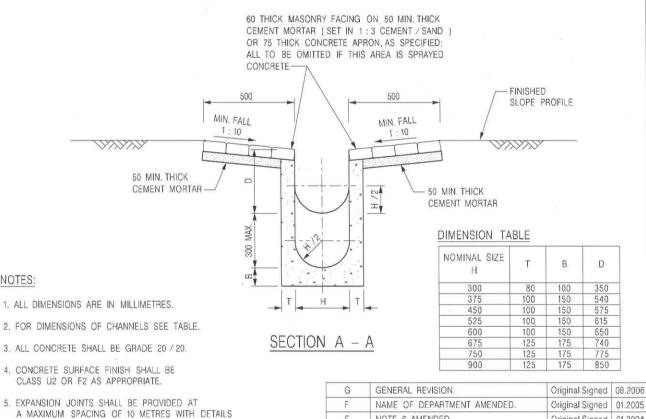


Figure 8.11 - Typical U-channel Details





DETAI	LS OF
STEPPED	CHANNEL

AS SHOWN ON STD. DRG. NO. C2413. 6. 675 - 900 CHANNELS SHALL BE REINFORCED AS SHOWN ON STD. DRG. NO. C2410.

NOTES:

REF.	REVISION	SIGNATURE	DATE
Α	MINOR AMENDMENT.	Original Signed	11.92
В	MINOR AMENDMENT.	Original Signed	3.94
С	MINOR AMENDMENT.	Original Signed	08.2001
D	GENERAL REVISION.	Original Signed	12.2002
Е	NOTE 6 AMENDED.	Original Signed	01.2004
F	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005



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DRAWING NO. **SCALE** 1:20 C2411G DATE JAN 1991

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