
寄件者: Tang Lok San <[REDACTED]>
寄件日期: 2026年02月16日星期一 11:24
收件者: tpbpd/PLAND
副本: David Chi Chiu CHENG/PLAND; Ivan Sze Yuet FUNG/PLAND
主旨: Re: S. 16 Planning Application No. A/YL-KTN/1203 - Departmental Comments
附件: 20260216-2 ktn1203.pdf
類別: Internet Email

To whom may concern,

Please see the attachment for the further information on the updated application form, signed Authorized letter, proposed drainage proposal and departmental comment from TD, LandsD, TPB and EPD.

The original copy of the authorized letter and P.9 of the S16 Application form will be mailed to your Department.

Please contact Mr. Tang via email [REDACTED] if you have any question regarding to the captioned application.

Yours faithfully,
Mr. Tang

For Official Use Only 請勿填寫此欄	Application No. 申請編號	
	Date Received 收到日期	

- The completed form and supporting documents (if any) should be sent to the Secretary, Town Planning Board (the Board), 15/F, North Point Government Offices, 333 Java Road, North Point, Hong Kong.
申請人須把填妥的申請表格及其他支持申請的文件 (倘有), 送交香港北角渣華道 333 號北角政府合署 15 樓城市規劃委員會(下稱「委員會」)秘書收。
- Please read the "Guidance Notes" carefully before you fill in this form. The document can be downloaded from the Board's website at <http://www.tpb.gov.hk/>. It can also be obtained from the Secretariat of the Board at 15/F, North Point Government Offices, 333 Java Road, North Point, Hong Kong (Tel: 2231 4810 or 2231 4835), and the Planning Enquiry Counters of the Planning Department (Hotline: 2231 5000) (17/F, North Point Government Offices, 333 Java Road, North Point, Hong Kong and 14/F, Sha Tin Government Offices, 1 Sheung Wo Che Road, Sha Tin, New Territories).
請先細閱《申請須知》的資料單張, 然後填寫此表格。該份文件可從委員會的網頁下載 (網址: <http://www.tpb.gov.hk/>), 亦可向委員會秘書處 (香港北角渣華道 333 號北角政府合署 15 樓 - 電話: 2231 4810 或 2231 4835) 及規劃署的規劃資料查詢處 (熱線: 2231 5000) (香港北角渣華道 333 號北角政府合署 17 樓及新界沙田上禾輦路 1 號沙田政府合署 14 樓) 索取。
- This form can be downloaded from the Board's website, and obtained from the Secretariat of the Board and the Planning Enquiry Counters of the Planning Department. The form should be typed or completed in block letters. The processing of the application may be refused if the required information or the required copies are incomplete.
此表格可從委員會的網頁下載, 亦可向委員會秘書處及規劃署的規劃資料查詢處索取。申請人須以打印方式或以正楷填寫表格。如果申請人所提交的資料或文件副本不齊全, 委員會可拒絕處理有關申請。

1. Name of Applicant 申請人姓名/名稱
(<input checked="" type="checkbox"/> Mr. 先生 / <input type="checkbox"/> Mrs. 夫人 / <input type="checkbox"/> Miss 小姐 / <input type="checkbox"/> Ms. 女士 / <input type="checkbox"/> Company 公司 / <input type="checkbox"/> Organisation 機構)
Tang Lok San 鄧樂桑

2. Name of Authorised Agent (if applicable) 獲授權代理人姓名/名稱 (如適用)
(<input checked="" type="checkbox"/> Mr. 先生 / <input type="checkbox"/> Mrs. 夫人 / <input type="checkbox"/> Miss 小姐 / <input type="checkbox"/> Ms. 女士 / <input type="checkbox"/> Company 公司 / <input type="checkbox"/> Organisation 機構)
Tang Wing Yat Tommy 鄧榮日

3. Application Site 申請地點	
(a) Full address / location / demarcation district and lot number (if applicable) 詳細地址/地點/丈量約份及地段號碼 (如適用)	Lots 1363 RP (Part) and 1371 in D.D. 109, Kam Tin, Yuen Long
(b) Site area and/or gross floor area involved 涉及的地盤面積及/或總樓面面積	<input checked="" type="checkbox"/> Site area 地盤面積 2,111.5 sq.m 平方米 <input checked="" type="checkbox"/> About 約 <input checked="" type="checkbox"/> Gross floor area 總樓面面積 675 sq.m 平方米 <input checked="" type="checkbox"/> About 約
(c) Area of Government land included (if any) 所包括的政府土地面積 (倘有) NA 不適用 sq.m 平方米 <input type="checkbox"/> About 約

8. Declaration 聲明

I hereby declare that the particulars given in this application are correct and true to the best of my knowledge and belief.
本人謹此聲明，本人就這宗申請提交的資料，據本人所知及所信，均屬真實無誤。

I hereby grant a permission to the Board to copy all the materials submitted in this application and/or to upload such materials to the Board's website for browsing and downloading by the public free-of-charge at the Board's discretion.
本人現准許委員會酌情將本人就此申請所提交的所有資料複製及/或上載至委員會網站，供公眾免費瀏覽或下載。

Signature
簽署

Applicant 申請人 / Authorised Agent 獲授權代理人

.....
Tang Wing Yat Tommy
.....

NA 不適用

Name in Block Letters
姓名 (請以正楷填寫)

Position (if applicable)
職位 (如適用)

Professional Qualification(s) Member 會員 / Fellow of 資深會員

專業資格

HKIP 香港規劃師學會 / HKIA 香港建築師學會 /

HKIS 香港測量師學會 / HKIE 香港工程師學會 /

HKILA 香港園境師學會 / HKIUD 香港城市設計學會

RPP 註冊專業規劃師

Others 其他

on behalf of
代表

Company 公司 / Organisation Name and Chop (if applicable) 機構名稱及蓋章 (如適用)

Date 日期

09/02/2026

..... (DD/MM/YYYY 日/月/年)

Remark 備註

The materials submitted in this application and the Board's decision on the application would be disclosed to the public. Such materials would also be uploaded to the Board's website for browsing and free downloading by the public where the Board considers appropriate.

委員會會向公眾披露申請人所遞交的申請資料和委員會對申請所作的決定。在委員會認為合適的情況下，有關申請資料亦會上載至委員會網頁供公眾免費瀏覽及下載。

Warning 警告

Any person who knowingly or wilfully makes any statement or furnish any information in connection with this application, which is false in any material particular, shall be liable to an offence under the Crimes Ordinance.

任何人在明知或故意的情況下，就這宗申請提出在任何要項上是虛假的陳述或資料，即屬違反《刑事罪行條例》。

Statement on Personal Data 個人資料的聲明

1. The personal data submitted to the Board in this application will be used by the Secretary of the Board and Government departments for the following purposes:

委員會就這宗申請所收到的個人資料會交給委員會秘書及政府部門，以根據《城市規劃條例》及相關的城市規劃委員會規劃指引的規定作以下用途：

- (a) the processing of this application which includes making available the name of the applicant for public inspection when making available this application for public inspection; and
處理這宗申請，包括公布這宗申請供公眾查閱，同時公布申請人的姓名供公眾查閱；以及
- (b) facilitating communication between the applicant and the Secretary of the Board/Government departments.
方便申請人與委員會秘書及政府部門之間進行聯絡。

2. The personal data provided by the applicant in this application may also be disclosed to other persons for the purposes mentioned in paragraph 1 above.

申請人就這宗申請提供的個人資料，或亦會向其他人士披露，以作上述第 1 段提及的用途。

3. An applicant has a right of access and correction with respect to his/her personal data as provided under the Personal Data (Privacy) Ordinance (Cap. 486). Request for personal data access and correction should be addressed to the Secretary of the Board at 15/F, North Point Government Offices, 333 Java Road, North Point, Hong Kong.

根據《個人資料(私隱)條例》(第 486 章)的規定，申請人有權查閱及更正其個人資料。如欲查閱及更正個人資料，應向委員會秘書提出有關要求，其地址為香港北角渣華道 333 號北角政府合署 15 樓。

環保署及城市規劃委員會：

有關環保署對 A/YL-KTN/1203 的查詢

現場會存放金屬、膠喉、汽車零件及建築材料及小型機械，例如排水管、水喉、電箱及發電機等。

現場不會儲放水泥、泥土、粉煤灰、骨材、淤泥、細石、沙、碎片、鋸屑或木屑或其他多塵的材料，以免影響周遭環境。

希望此附加文件能釋除 貴署的隱憂，並支持本申請。

地政總署及城市規劃委員會：

有關地政總署對 A/YL-KTN/1203 的查詢

收悉 貴署對 A/YL-KTN/1203 申請的查詢，現以書面回覆。

知悉 貴署對丈量約份第 109 約地段第 1371 號的現場情況的密切關注。當申請獲批會向 貴署短期豁免書，並會遵從 貴署所批出短期豁免書內例明的條款。我們已知觸犯上述條例的嚴重性，當申請獲批後並會盡快糾正及申請短期豁免書。

希望此附加文件能釋除 貴署的隱憂，並支持本申請。

城市規劃委員會：

有關城市規劃委員會對 A/YL-KTN/1203 的查詢

收悉 貴委員會對 A/YL-KTN/1203 申請的查詢，現書面回覆。

本規劃申請會途經規劃申請編號：A/YL-KTN/1091 及 A/YL-KTN/1157 的範圍，道路詳情請參考 Appendix 7。申請人已獲得相關規劃申請的申請人及土地擁有人的同意，使用相關範圍作道路使用，亦同意用作緊急車輛通道。

本申請與 A/YL-KTN/1091 及 A/YL-KTN/1157 雖然為同一個申請人或申請代理人，但不同的規劃申請涉及多個土地擁有人及持分者，相關土地亦會租予不同的使用人，因此分為 3 個不同規劃申請，望 貴委員會諒解。

發展參數方面，由於本規劃申請途經 A/YL-KTN/1091 及 A/YL-KTN/1157 的範圍，已獲批的規劃申請 A/YL-KTN/1091 的發展參數沒有改變，只修改了佈局，以方便進出本申請範圍。規劃申請 A/YL-KTN/1157 的發展參數則沒有改變，會根據原有的佈局使用。詳情請參考 Appendix 7。

希望此附加文件能釋除 貴委員會的查詢，並支持本申請。

運輸署及城市規劃委員會：

有關對運輸署 A/YL-KTN/1203 的補充資料

預計本申請地點的車流為以下：

時段	私家車		輕型貨車		中型貨車		重型貨車		進出 總和
	進	出	進	出	進	出	進	出	
早上時段 (7:00-11:59)	1	0	4	0	0	0	0	0	5
下午時段 (12:00- 23:59)	0	1	0	4	0	0	0	0	5
凌晨時段 (0:00-06:59)	0	0	0	0	0	0	0	0	0

由於方便上落物料和方便員工駕車到本申請地點，現申請 4 個客貨車上落貨位置及 1 個私家車停車位。本申請地點不會對公眾開放。因此，4 個客貨車上落貨位置及 1 個私家車停車位已足夠此申請運作。

申請地點有道路連接，前往本申請地點途經江埔路，再轉到郊區小徑到達申請地點。江埔路沿途為一條雙線雙程的道路，約有 6 米闊。私家及客貨車有足夠的位置通過及進行調遣的動作。申請地點的出入口約 7 米闊。本規劃申請會途經規劃申請編號：A/YL-KTN/1091 及 A/YL-KTN/1157 的範圍，道路詳情請參考 Appendix 7。申請人已獲得相關規劃申請的申請人及土地擁有人的同意，使用相關範圍作道路使用，亦同意用作緊急車輛通道。本申請的出入口請參考文件末端。

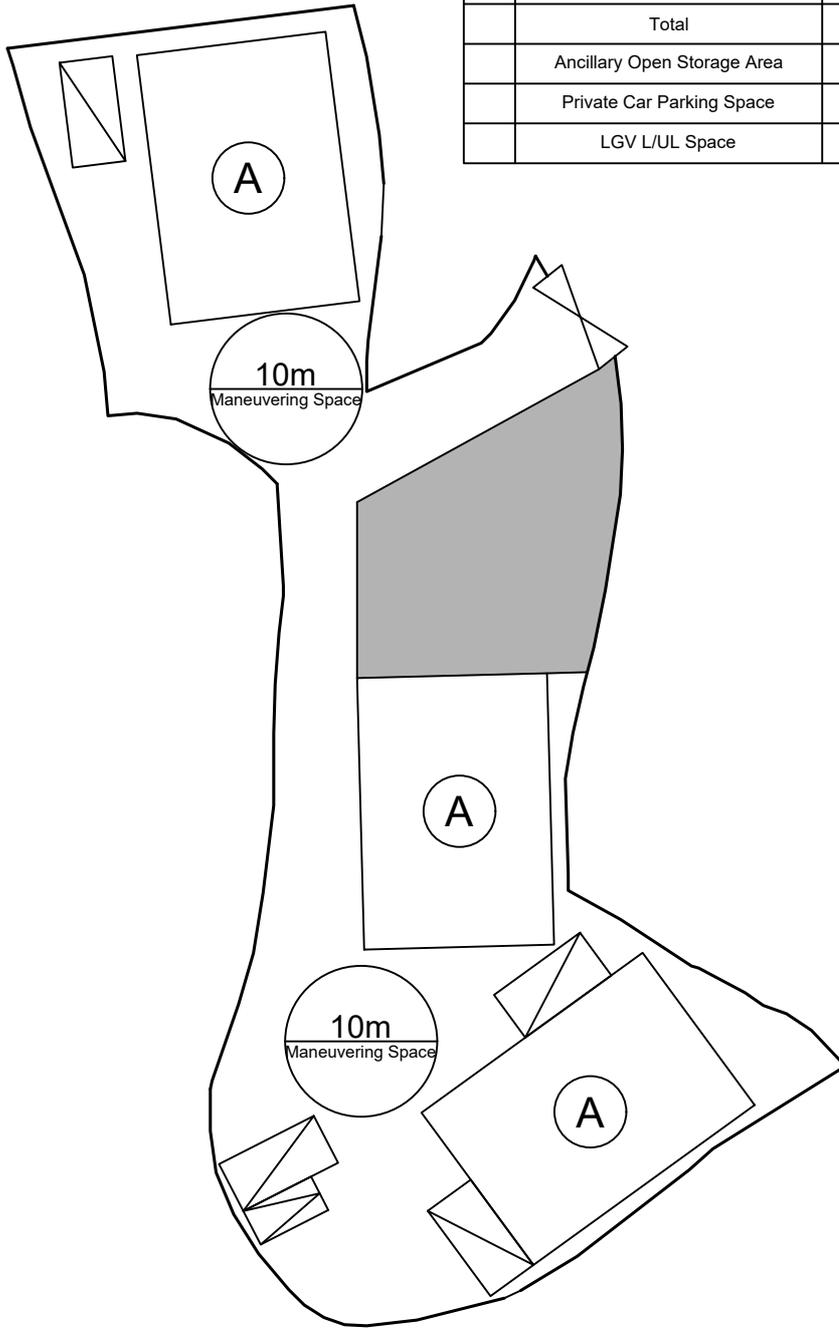
在申請地點內有一個直徑約 10 米的圓形空間，足夠讓車輛進行調遣的動作，進入本申請地點的車輛不會在公用道路上讓車輛等候進入本申請地點，停泊在公用道路及以倒後形式進出本申請地點。參考文件末端的 Appendix 2。

此申請不允許超過 5.5 噸的貨車進入申請地點。本人明白及了解連接申請地點的道路不是由 貴署管理。



Proposed Structures Details

	<u>Structures</u>	<u>Gross Floor Area (GFA)</u>	<u>Height (Not Exceeding)</u>	<u>Unit(s)</u>
A	Warehouse (excluding D.G.G) with Ancillary Office	About 18m x 12.5m = 225 m ²	8m	3
	Total	<u>About 675 m²</u>		
	Ancillary Open Storage Area	About 270 m ²		
	Private Car Parking Space	5m x 2.5m		1
	LGV L/UL Space	7m x 3.5m		4



Legend:

- Ingress/egress (Width: About 7m)
- Proposed Structures Warehouse with ancillary office
- Ancillary Open Storage Space
- Private Car Parking Space
- LGV L/UL Space

Total Area: 2,111.5 m² (About)
 Covered Area: 675 m² (About)
 Uncovered Area: 1,436.5 m² (About)
 Non-Domestic GFA: 675 m² (About)
 Nos. of Proposed Structures: 3

Appendix 2

Location: DD 109 Lot 1363 RP (Part)
DD 109 Lot 1371

OZP: S/YL-KTN/11
District: Kam Tin North
Zoning: Agriculture

Date: 13 February 2026

Proposed Layout Plan

擬議佈局平面圖

Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Facilities and Associated Filling of Land for a Period of 3 Years

SCALE

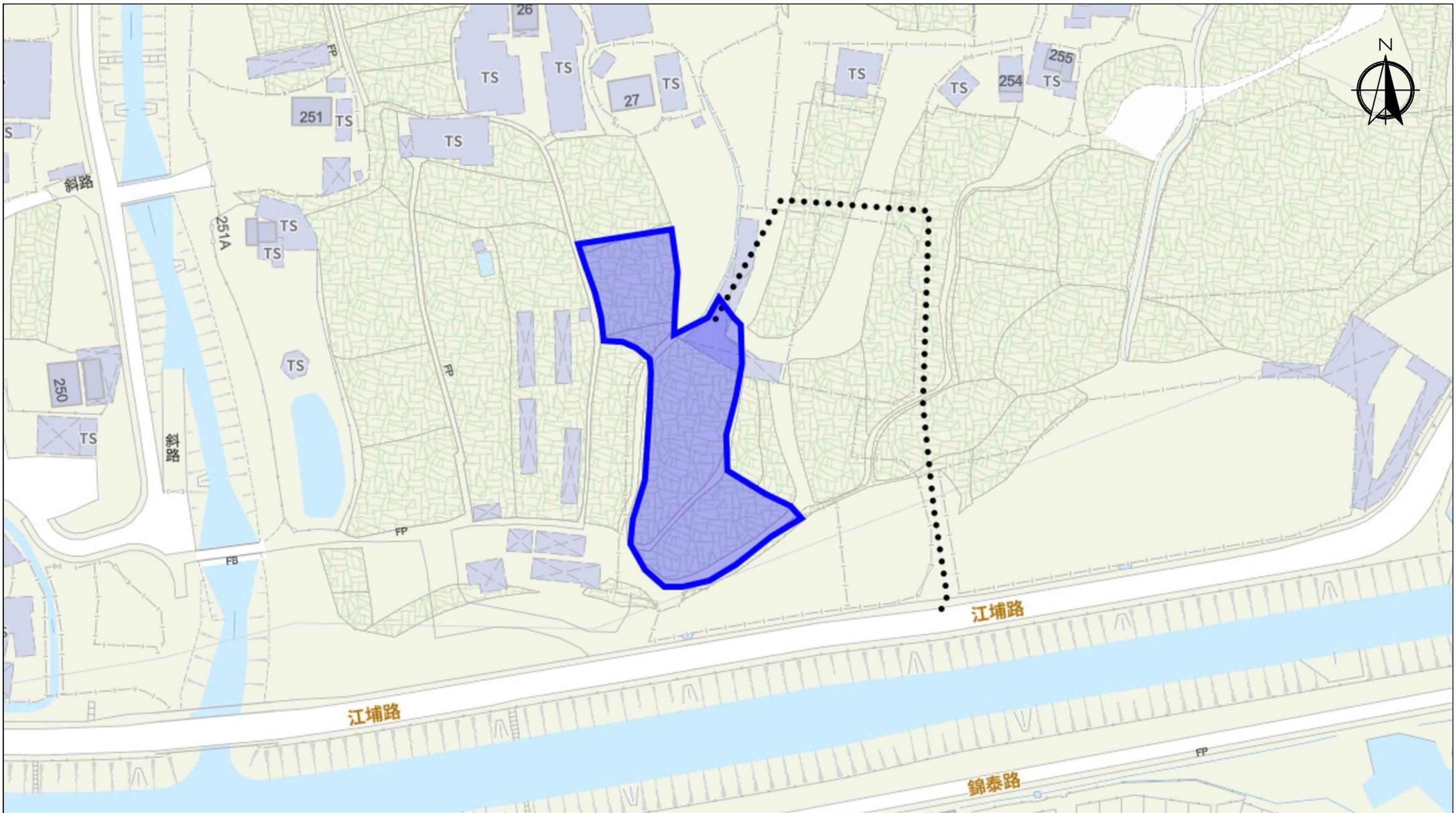
1:500

@A4

For Identification Only

Drawing No.:

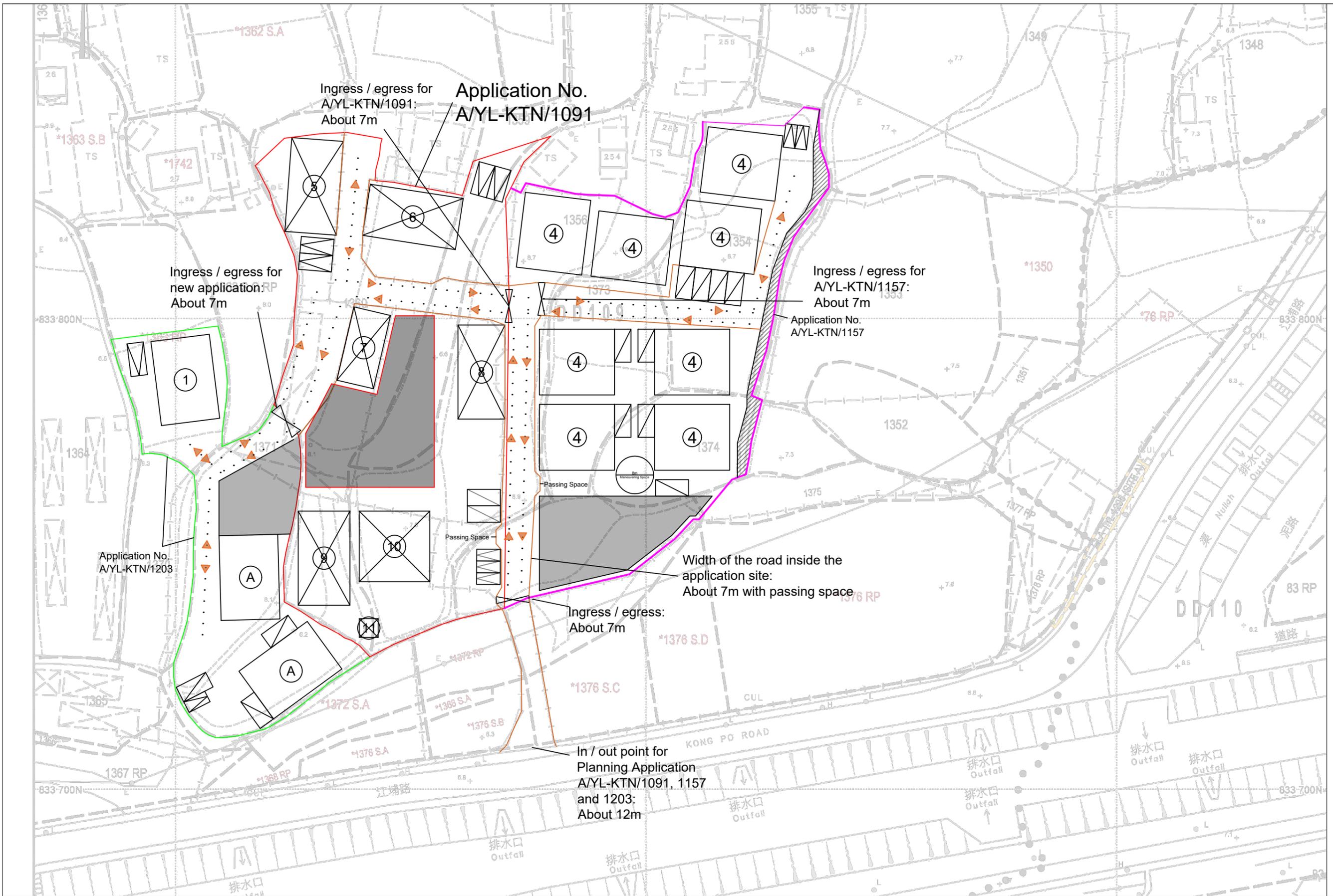
2-1



Scale: Undefined @A4

Captured from map.gov.hk on 23rd December 2025

<p>Appendix 3 Existing Vehicular Access</p>	<p>Location: D.D. 109 Lot 1363 RP (Part), D.D. 109 Lot 1371 OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture</p>	<p>Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Facilities and Associated Filling of Land for a Period of 3 Years</p>	<p>Width of Kong Po Road: 6m (About)</p> <p>Map Legend: ●●●● Road Path — Site Boundary</p>	<p>Drawing No.: 3-1 For Identification Only Date: 23/12/2025</p>
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Appendix 7	Location: DD 109 varies Lots App. No.: A/YL-KTN/1091, 1157 and 1203 OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture	Project: Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Facilities and Associated Filling of Land for a Period of 3 Years	Existing Vehicular Access through other Planning Application	Scale: 1:750 @A3	Drawing No.
					7
					For Identification Only
					Date: 11 February 2026

授權書

本人 鄧樂桑，現授權下開「獲授權人」代表本人進行規劃申請的事務，申請位置為 DD109 LOT 1363 RP (部分)及 1371 號地段，申請用途為 臨時貨倉(危險品倉庫除外)連附屬設施及相關填土工程，為期 3 年，包括申請時所需要的文件及資訊。下開獲授權人接受委任並簽署作實。

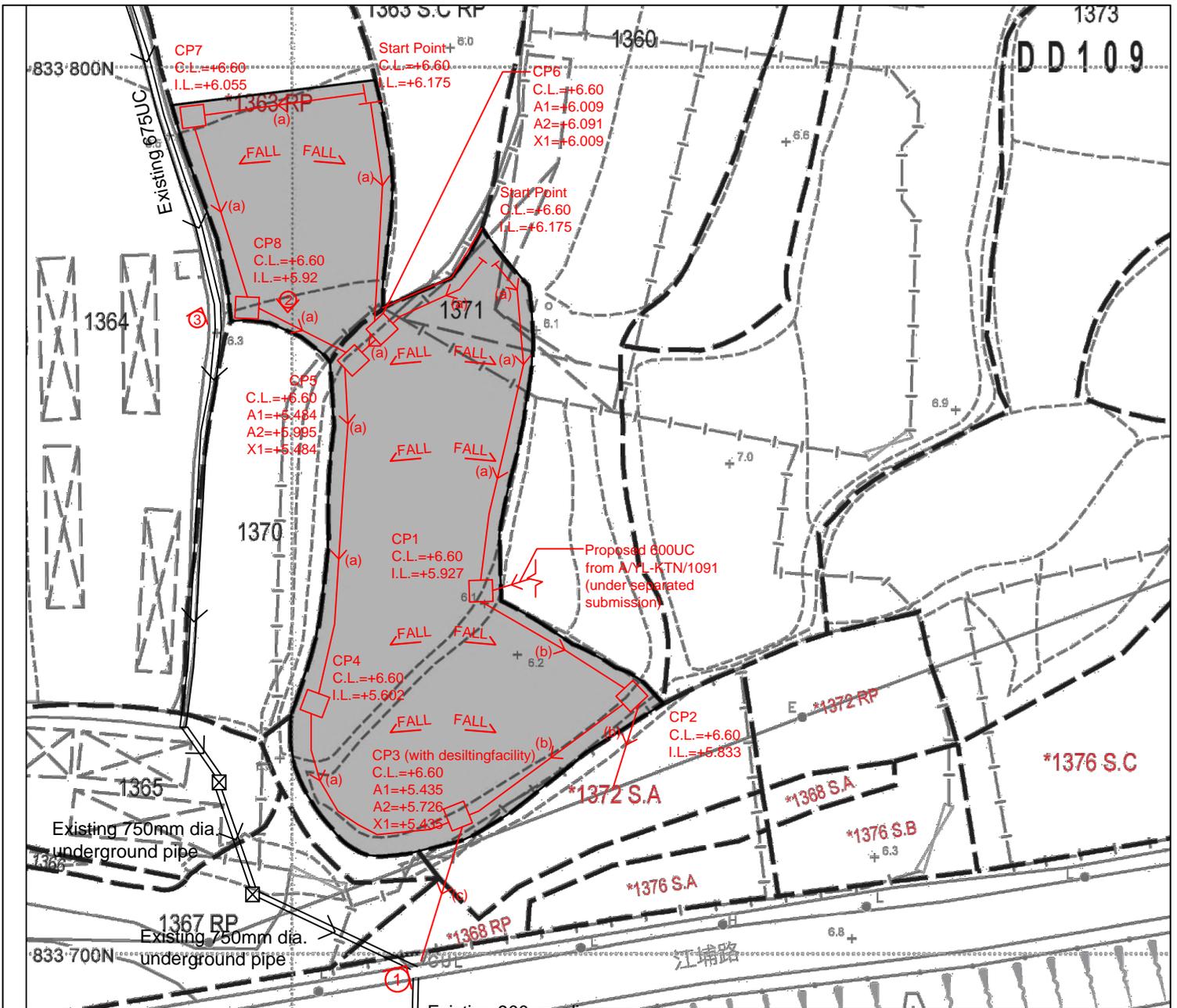
授權人姓名及香港身分證號碼：鄧樂桑 HKID: [REDACTED]

獲授權人姓名及香港身分證號碼：鄧榮日 HKID: [REDACTED]



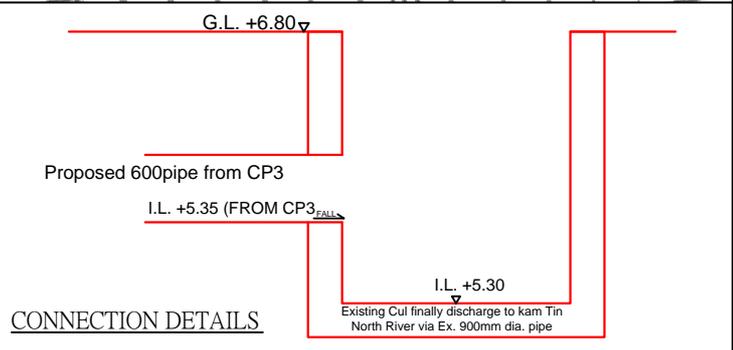
授權人簽署

日期: 2026 年 2 月 9 日



- Note:**
- Catchpits (CP3) with desilting facility shall follow CEDD standard drawing No. C2406I.
 - Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.
 - Open-bottom type fence wall to be erected.
 - There is no site formation works. Filling works to be carried out to leveling the site.

LEGEND	
	Proposed CatchPit
	Proposed 375UC (1:150) with Cast Iron Cover
	Proposed 600UC (1:200) with Cast Iron Cover
	Proposed 600mm dia. concrete pipe (1:100)
	Existing 675UC/900mm dia. pipe (1:200)
	Photo Viewport



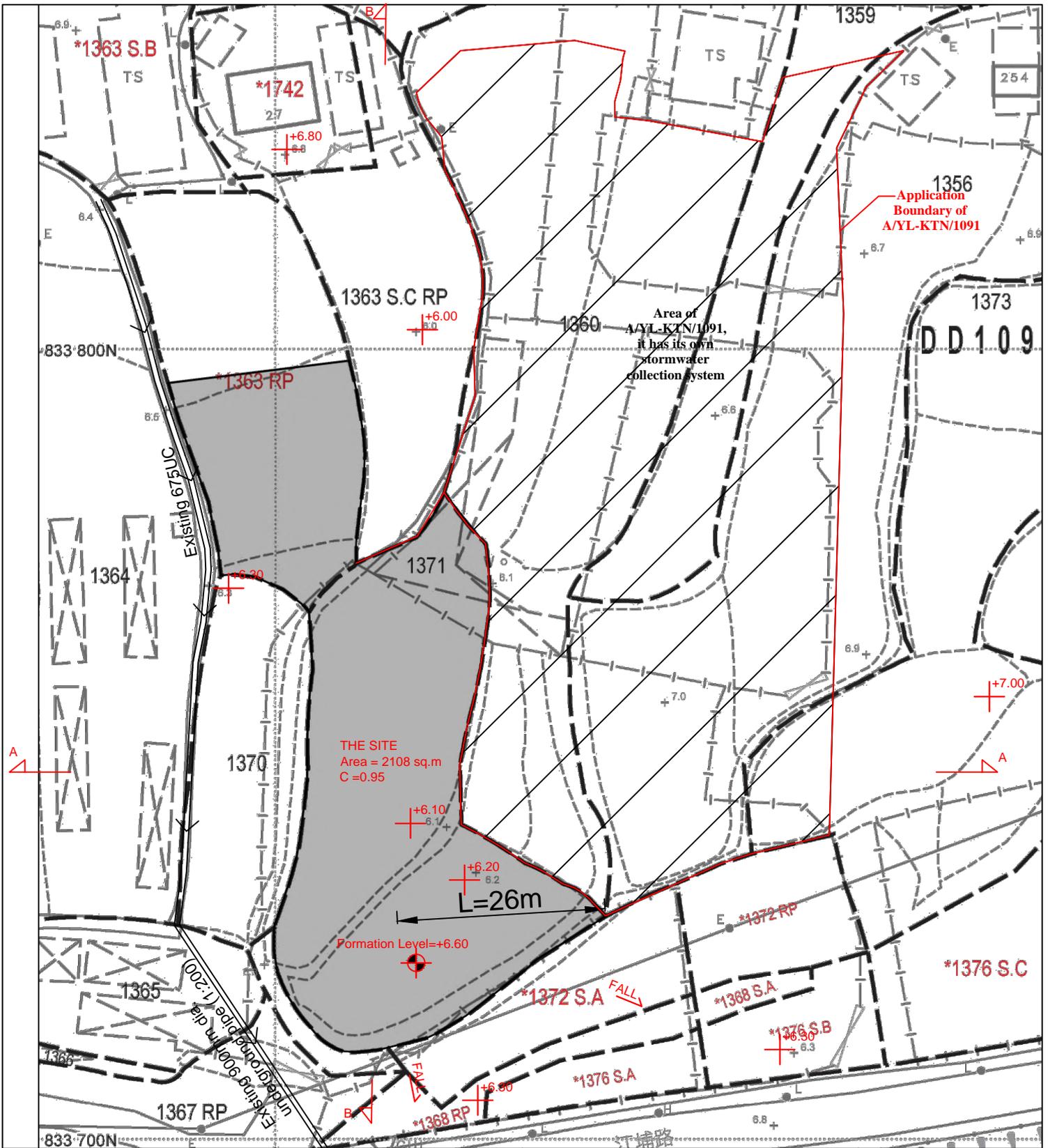
Project:
Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Facilities and Associated Filling of Land for a Period of 3 Years at Lot 1363 RP (Part) and 1371 in D.D. 109, Kam Tin North, Yuen Long

Title:
 Drainage Proposal - LAYOUT D01

Drawn by: DM **Date:** 13-2-2026

(Application No.:)

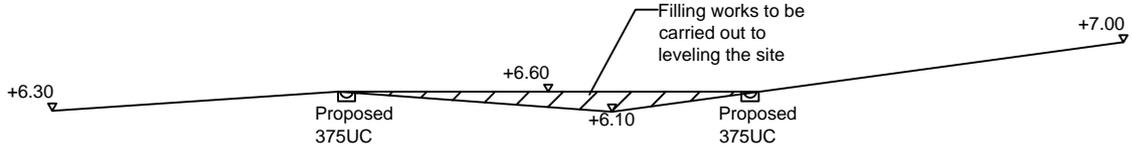
正宏工程顧問公司
 CHING WAN ENGINEERING CONSULTANT COMPANY



Project: Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Office for a Period of 3 Years and Filling of Land at Lot 1371 in D.D. 109, Kam Tin North, Yuen Long	Title: Catchment Area Plan 1		DO2
	Drawn by: DM	Date: 13-10-2025	
正宏工程顧問公司 CHING WAN ENGINEERING CONSULTANT COMPANY			

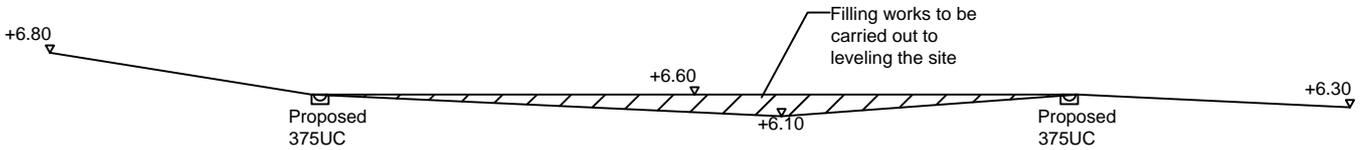
(Application No.:A/YL-KTN/976)

THE SITE



SECTION A-A

THE SITE



SECTION B-B

Project:

Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Office for a Period of 3 Years and Filling of Land at Lot 1371 in D.D. 109, Kam Tin North, Yuen Long

(Application No.:A/YL-KTN/976)

Title:

SECTIONS

D03

Drawn by:

DM

Date:

13-10-2025

正宏工程顧問公司

CHING WAN ENGINEERING CONSULTANT COMPANY

Photo 1 Showing Ex. Cul to be Connected



Existing Streamcourse has been modified to overdecked channel



前往地圖: <https://www.map.gov.hk/gm/geo:22.4435,114.0724?z=2257>

Catchment Area for Existing 900mm dia. underground pipe



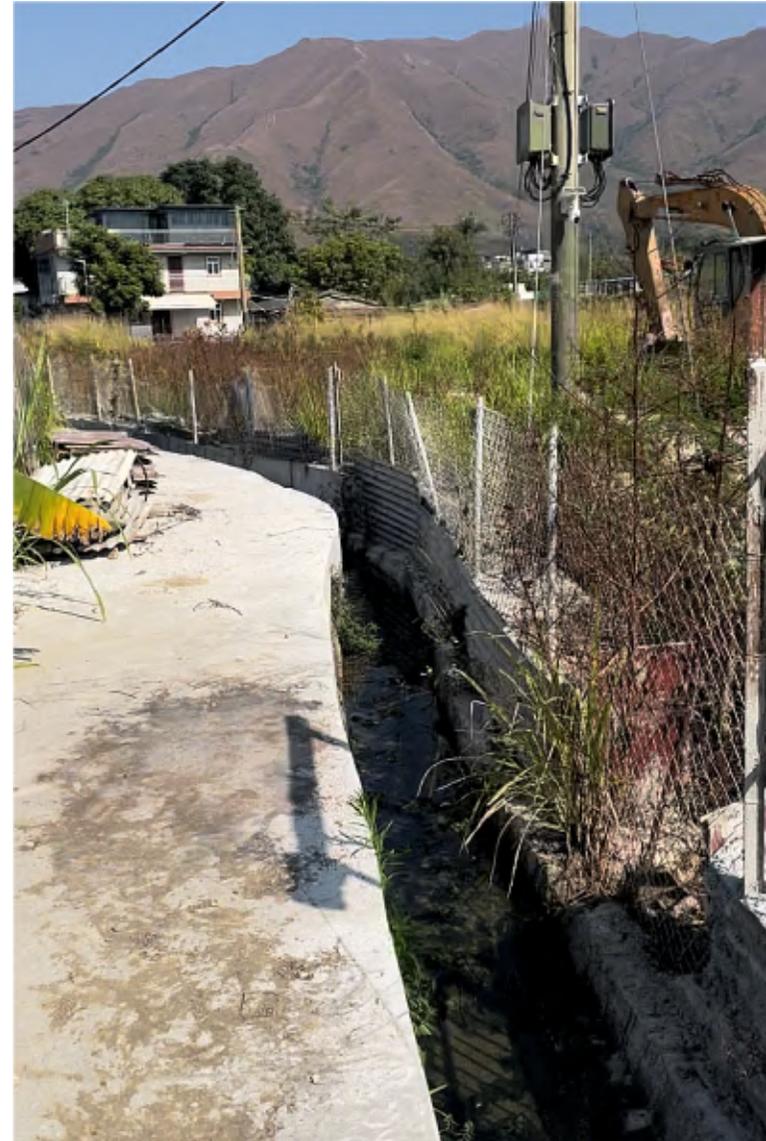
由「地理資訊地圖」網站提供: <https://www.map.gov.hk>

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。

Photo 2



Photo 3



Outside Catchment Area 1, Area = 2108 m² (C= 0.95) 0.002108

Calculation of Design Runoff of the Proposed Development.

For the design of drains inside the site, other than from CP1 to CP2 to CP3

$$\Sigma Q = \Sigma 0.278 C i A$$

$$\begin{aligned} A &= 2108 \text{ m}^2 \\ &= 0.002108 \text{ km}^2 \end{aligned}$$

$$\begin{aligned} t &= 0.14465 L / H^{0.2} A^{0.1} \\ &= 0.14465 * 26 / 1^{0.2} * 2108^{0.1} \\ &= 1.749 \text{ min} \end{aligned}$$

$$\begin{aligned} i &= 1.111 * a / (t+b)^c && (50 \text{ yrs return period, Table 3a, Corrigendum 2024,} \\ &= 1.111 * 505.5 / (1.749 + 3.29)^{0.355} && \text{SDM) and (11.1\% increase due to climate change)} \\ &= 316.3 \text{ mm/hr} \end{aligned}$$

Therefore,
$$\begin{aligned} Q &= 0.278 * 0.95 * 316.3 * 0.0015575 \\ &= 0.1761 \text{ m}^3/\text{sec} \\ &= \underline{10565} \text{ lit/min} \end{aligned}$$

Provide 375UC (1:150) is OK

For the design of drains inside the site from CP1 to CP2 to CP3

$$\begin{aligned} Q &= \underline{10565} + \underline{24987} \text{ (24987 is the design runoff from A/YL-KTN/1091)} \\ &= \underline{35552} \text{ lit/min} \end{aligned}$$

Provide 600UC (1:200) is OK

For checking Existing 900mm dia. pipe

$$\Sigma Q = \Sigma 0.278 C i A$$

$$\begin{aligned} A &= 18183 \text{ m}^2 \\ &= 0.018183 \text{ km}^2 \end{aligned}$$

$$\begin{aligned} t &= 0.14465 L / H^{0.2} A^{0.1} \\ &= 0.14465 * 133 / 1^{0.2} * 18183^{0.1} \\ &= 7.214 \text{ min} \end{aligned}$$

$$\begin{aligned} i &= 1.111 * a / (t+b)^c && (50 \text{ yrs return period, Table 3a, Corrigendum 2024,} \\ &= 1.111 * 505.5 / (7.214 + 3.29)^{0.355} && \text{SDM) and (11.1\% increase due to climate change)} \\ &= 243.7 \text{ mm/hr} \end{aligned}$$

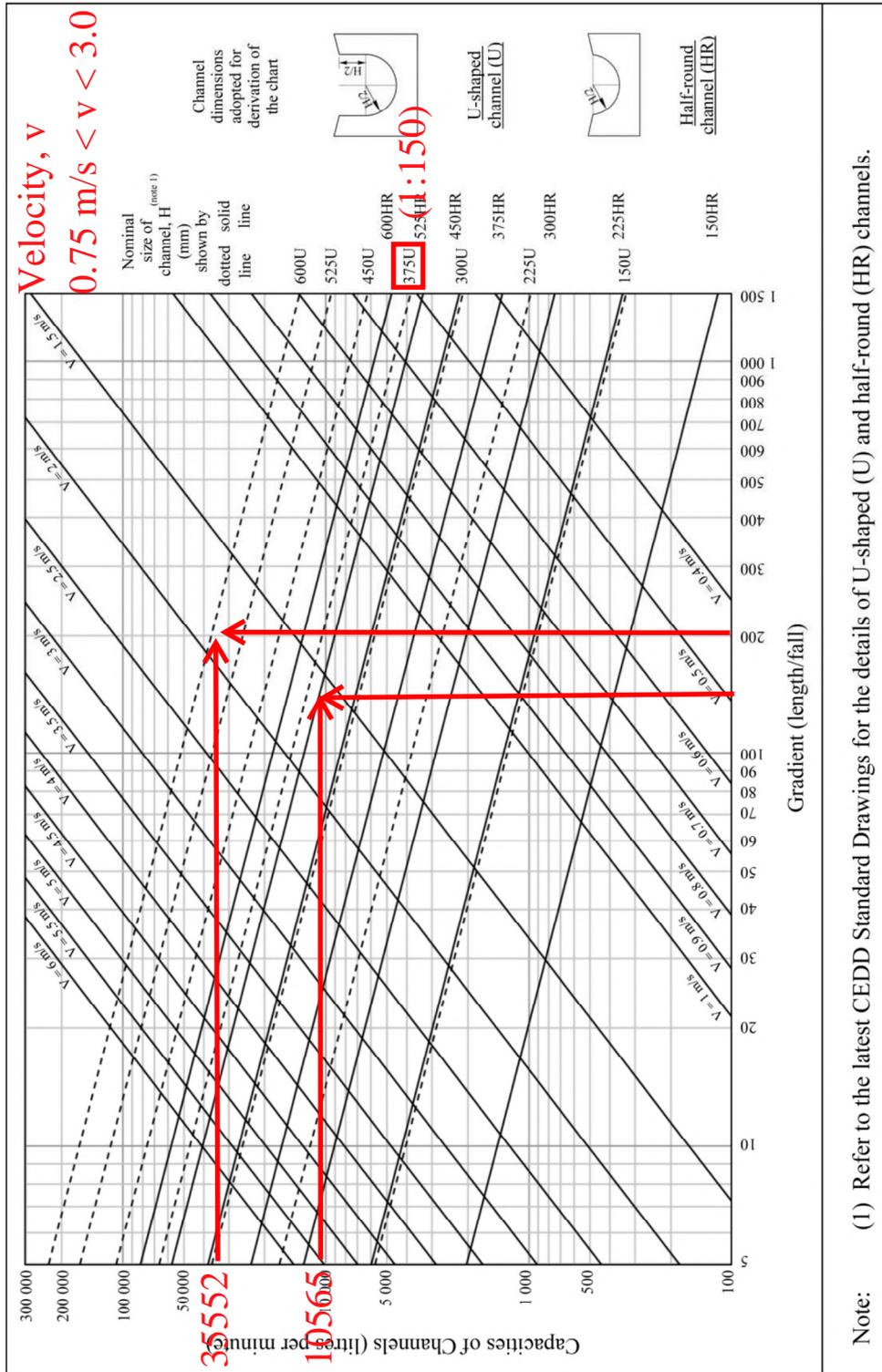
Therefore,
$$\begin{aligned} Q &= 0.278 * 0.95 * 243.7 * 0.018183 \\ &= 1.1703 \text{ m}^3/\text{sec} \\ &= \underline{70215} \text{ lit/min} \end{aligned}$$

Existing 900mm dia. concrete pipe (1:100) is OK

GEO Technical Guidance Note No. 43 (TGN 43)
Guidelines on Hydraulic Design of U-shaped and Half-round Channels on Slopes

Issue No.: 1 Revision: - Date: 05.06.2014 Page: 3 of 3

Figure 1 - Chart for the rapid design of U-shaped and half-round channels up to 600 mm



Check Proposed 600mm dia. Pipes by Colebrook-White Equation

$$V = -\sqrt{(8gDs)} \log\left(\frac{ks}{3.7D} + \frac{2.51v}{D\sqrt{(2gDs)}}\right)$$

where :

V	=		mean velocity (m/s)	
g	=	9.81	m/s ² gravitational acceleration (m/s ²)	
D	=	0.6	m internal pipe diameter (m)	
ks	=	0.00015	m hydraulic pipeline roughness (m)	(Table14, from DSD SDM 2018, concrete pipe)
v	=	1.14E-06	m ² /s kinematic viscosity of fluid (m ² /s)	
s	=	0.01	hydraulic gradient	

Therefore, design V of pipe capacity = 2.8059 m/s

Q= 0.8VA		(0.8 factor for sedimentation)
= 0.635	m ³ /s	
= 38081	lit/min	
> 35552	lit/min	Ok

Check Existing 900mm dia. Pipes by Colebrook-White Equation

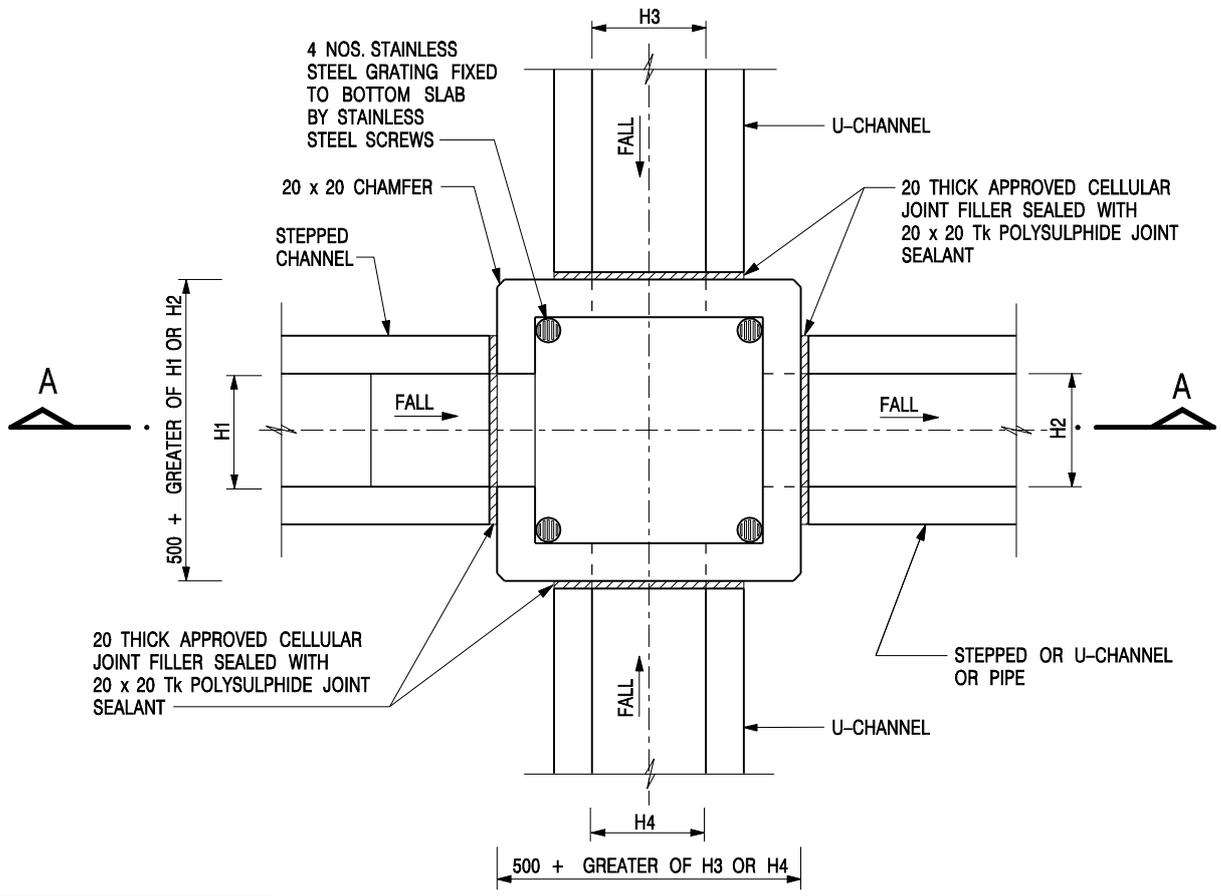
$$V = -\sqrt{(8gDs)} \log\left(\frac{ks}{3.7D} + \frac{2.51v}{D\sqrt{(2gDs)}}\right)$$

where :

V	=		mean velocity (m/s)	
g	=	9.81	m/s ² gravitational acceleration (m/s ²)	
D	=	0.9	m internal pipe diameter (m)	
ks	=	0.00015	m hydraulic pipeline roughness (m)	(Table14, from DSD SDM 2018, concrete pipe)
v	=	1.14E-06	m ² /s kinematic viscosity of fluid (m ² /s)	
s	=	0.005	hydraulic gradient	

Therefore, design V of pipe capacity = 2.5279 m/s

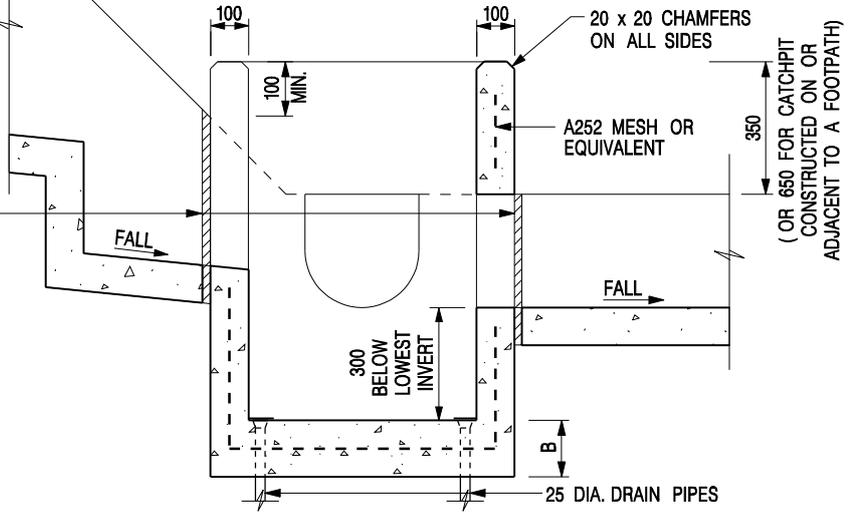
Q= 0.8VA		(0.8 factor for sedimentation)
= 1.287	m ³ /s	
= 77193	lit/min	
> 70215	lit/min	Ok



PLAN

NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 - 600	150
675 - 900	175

20 THICK APPROVED CELLULAR JOINT FILLER SEALED WITH 20 x 20 TK POLYSULPHIDE JOINT SEALANT



SECTION A - A

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 2 FOR OTHER NOTES.

-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE

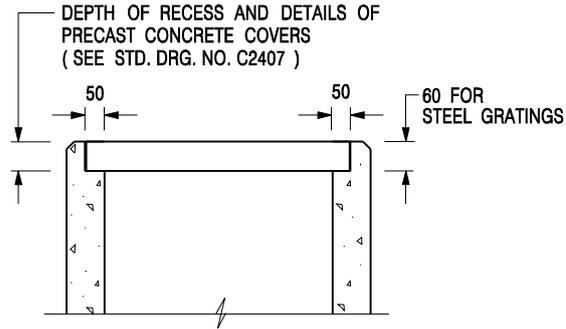
CATCHPIT WITH TRAP
(SHEET 1 OF 2)



CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20
DATE JAN 1991

DRAWING NO.
C2406 /1



**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.
6. 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.
11. FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'F' ON STD. DRG. NO. C2405.
12. 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

**CATCHPIT WITH TRAP
(SHEET 2 OF 2)**

 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	
SCALE 1 : 20	DRAWING NO.
DATE JAN 1991	C2406 /2

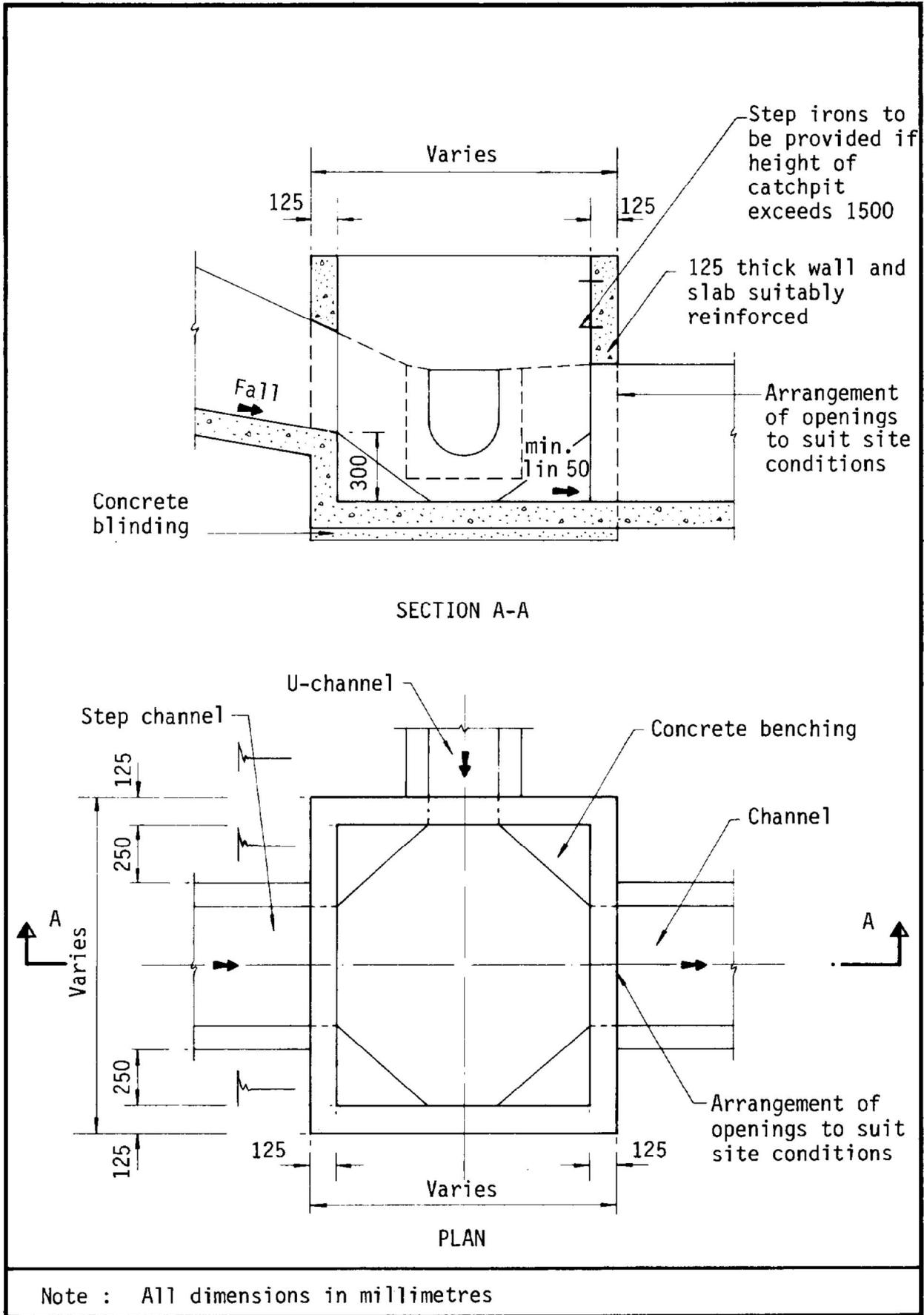


Figure 8.10 - Typical Details of Catchpits

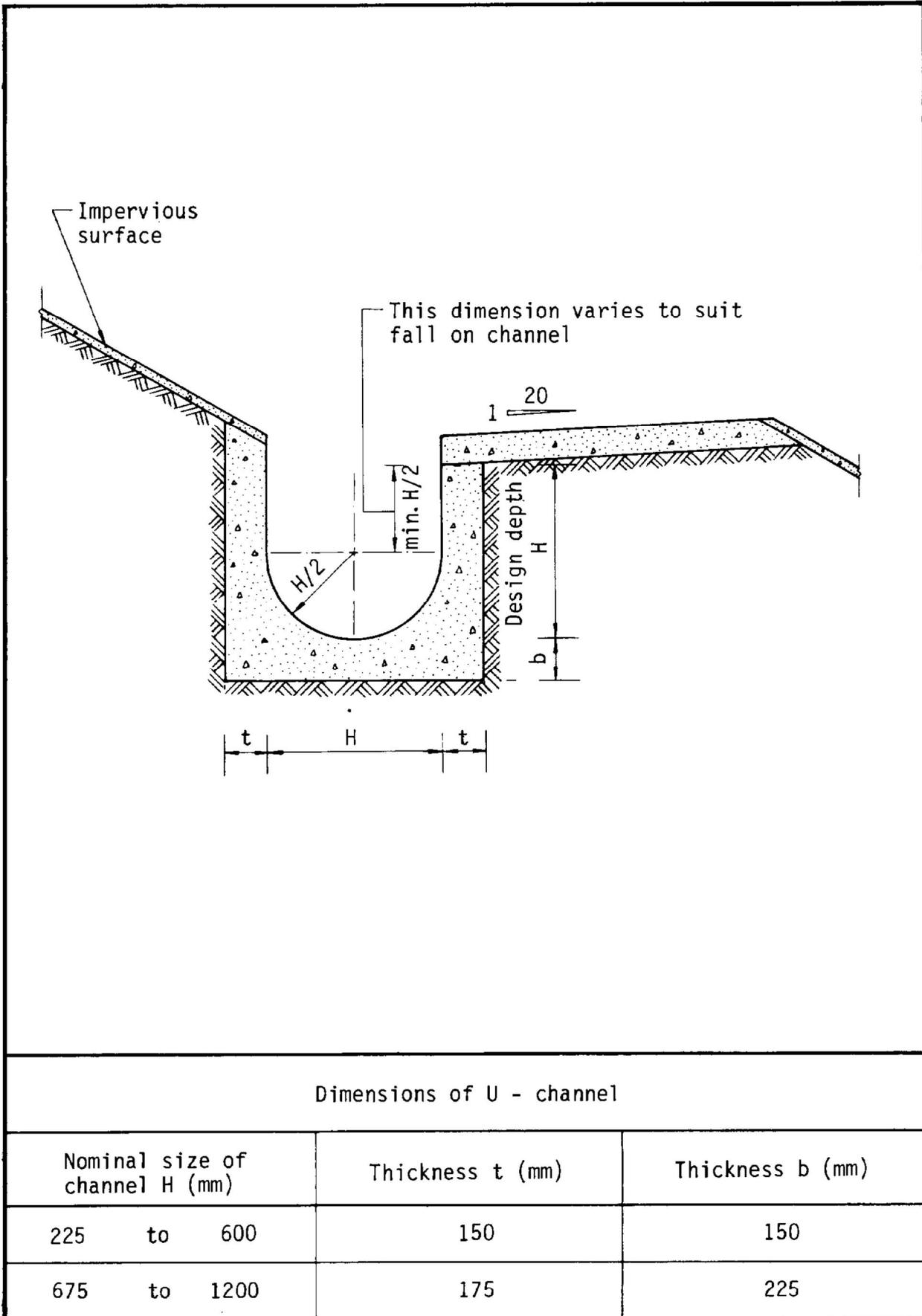
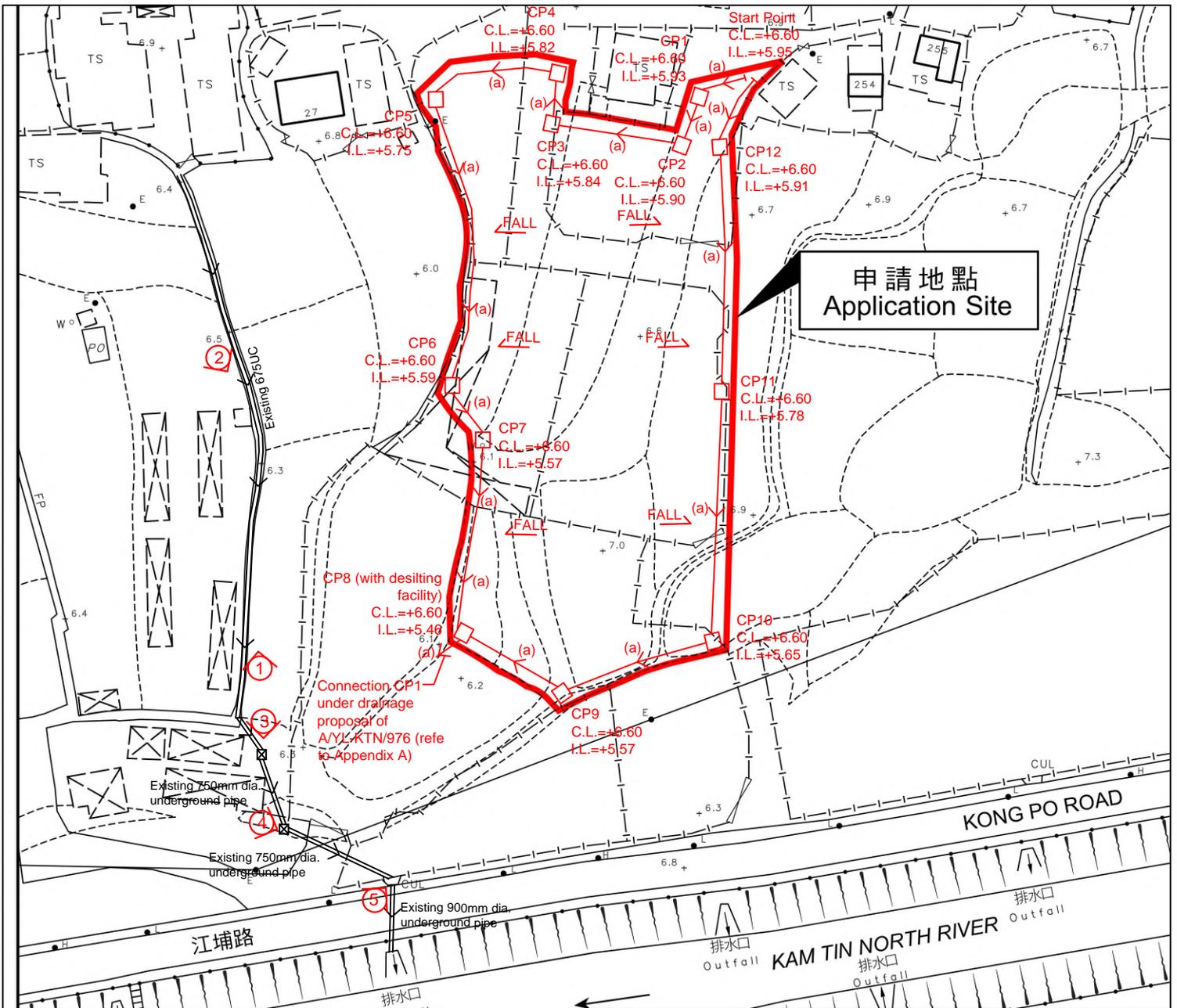


Figure 8.11 - Typical U-channel Details

Appendix A

Drainage Proposal of A/YL-KTN/1091



- Note:**
- Catchpits (CP8) with desilting facility shall follow CEDD standard drawing No. C2406I.
 - Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.
 - Open-bottom type fence wall to be erected.
 - There is no site formation works. Filling works to be carried out to leveling the site.

LEGEND	
	Proposed CatchPit
	Proposed 600UC (1:300) with Cast Iron Cover
	Existing 675UC/750mm dia. pipe/900mm dia. pipe
	Photo Viewport

Project:
Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Open Storage and Facilities and Associated Filling of Land for a Period of 3 Years at Lots 1356 (Part), 1359 (Part), 1360 (Part) and 1373 (Part) in D.D. 109, Kam Tin, Yuen Long, New Territories

(Application No.:A/YL-KTN/1091)

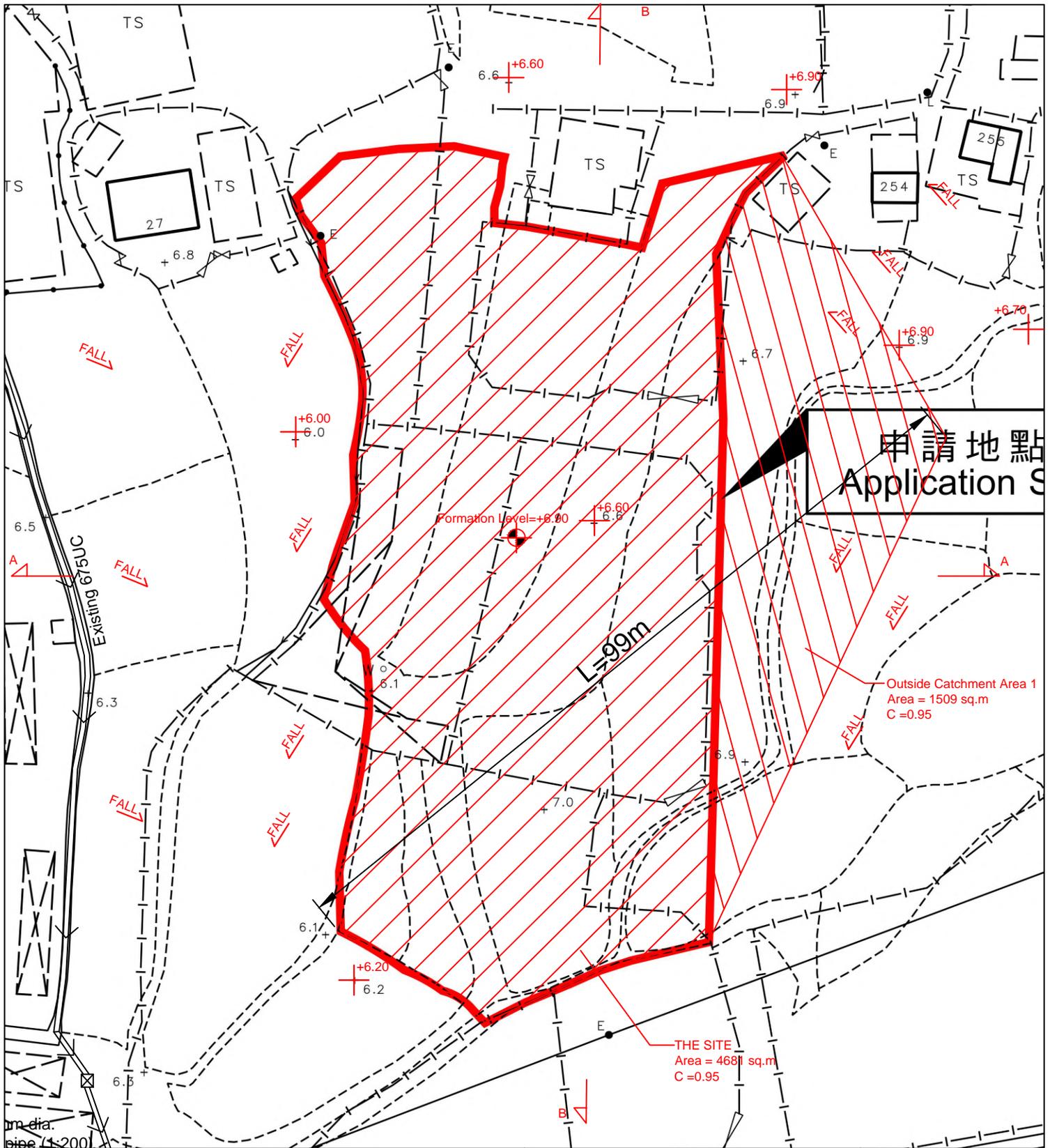
Title:
 Drainage Proposal - LAYOUT

D01

Drawn by:
 DM

Date:
 13-10-2025

正宏工程顧問公司
 CHING WAN ENGINEERING CONSULTANT COMPANY



Project:
Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Open Storage and Facilities and Associated Filling of Land for a Period of 3 Years at Lots 1356 (Part), 1359 (Part), 1360 (Part) and 1373 (Part) in D.D. 109, Kam Tin, Yuen Long, New Territories

(Application No.:A/YL-KTN/1091)

Title:

Catchment Area Plan 1

D02

Drawn by:

DM

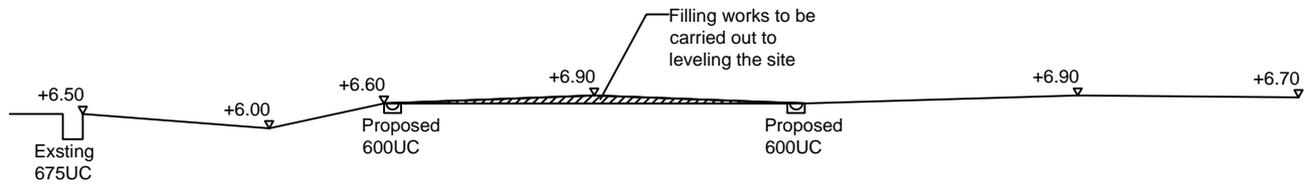
Date:

26-7-2025

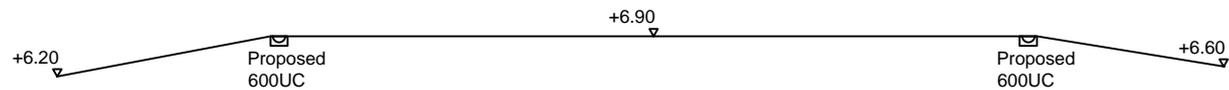
正宏工程顧問公司

CHING WAN ENGINEERING CONSULTANT COMPANY

THE SITE



THE SITE



Project:
Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Open Storage and Facilities and Associated Filling of Land for a Period of 3 Years at Lots 1356 (Part), 1359 (Part), 1360 (Part) and 1373 (Part) in D.D. 109, Kam Tin, Yuen Long, New Territories

(Application No.:A/YL-KTN/1091)

Title:
SECTIONS D03

Drawn by: **DM** Date: **26-7-2025**

正宏工程顧問公司
CHING WAN ENGINEERING CONSULTANT COMPANY

Photo 1



Photo 1a

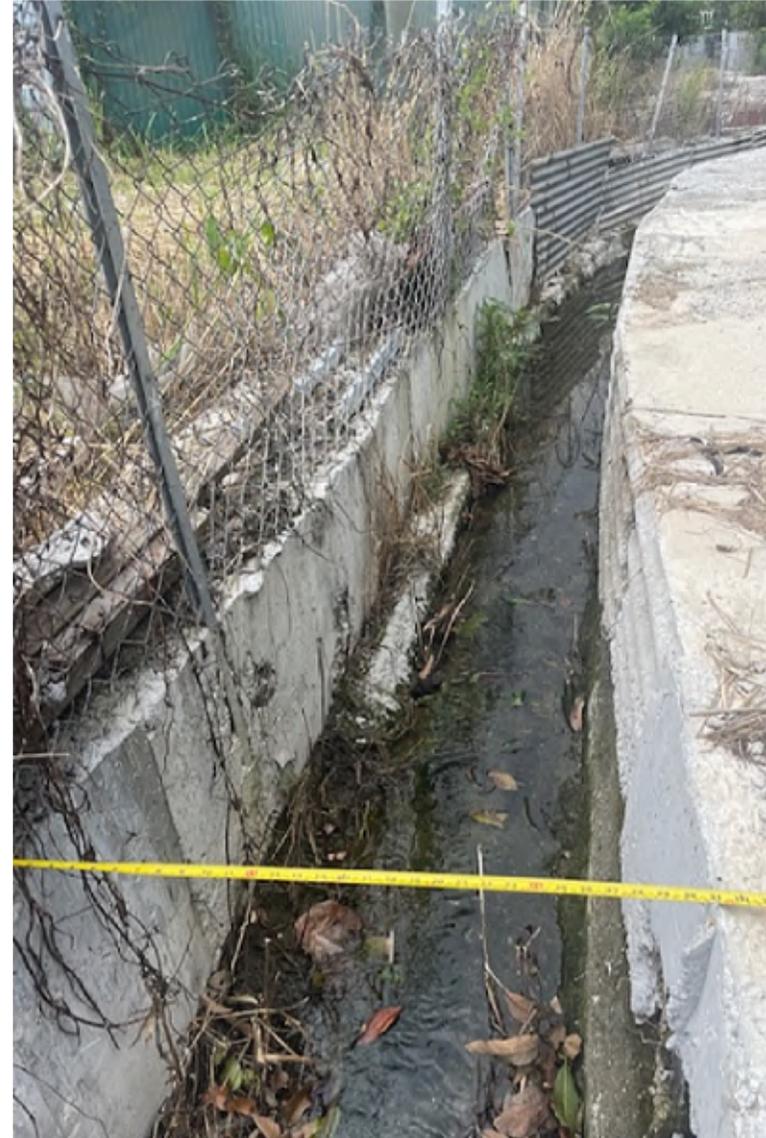


Photo 2



Photo 2a



PHoto 3



Photo 3a



Photo 4



Photo 5



Outside Catchment Area 1, Area = 1509 m² (C= 0.95)
THE SITE, Area = 4681 m² (C= 0.95)

Calculation of Design Runoff of the Proposed Development,

For the design of drains inside the site

$$\Sigma Q = \Sigma 0.278 C i A$$

$$\begin{aligned} A &= 1509+4681 \quad \text{m}^2 \\ &= 6190 \\ &= 0.00619 \quad \text{km}^2 \end{aligned}$$

$$\begin{aligned} t &= 0.14465 L/ H^{0.2} A^{0.1} \\ &= 0.14465 * 99 / 1^{0.2} * 6190^{0.1} \\ &= 5.981 \quad \text{min} \end{aligned}$$

$$\begin{aligned} i &= 1.111 * a / (t+b)^c && (50 \text{ yrs return period, Table 3a, Corrigendum 2024,} \\ &= 1.111 * 505.5 / (5.981+3.29)^{0.355} && \text{SDM) and (11.1\% increase due to climate change)} \\ &= 254.7 \quad \text{mm/hr} \end{aligned}$$

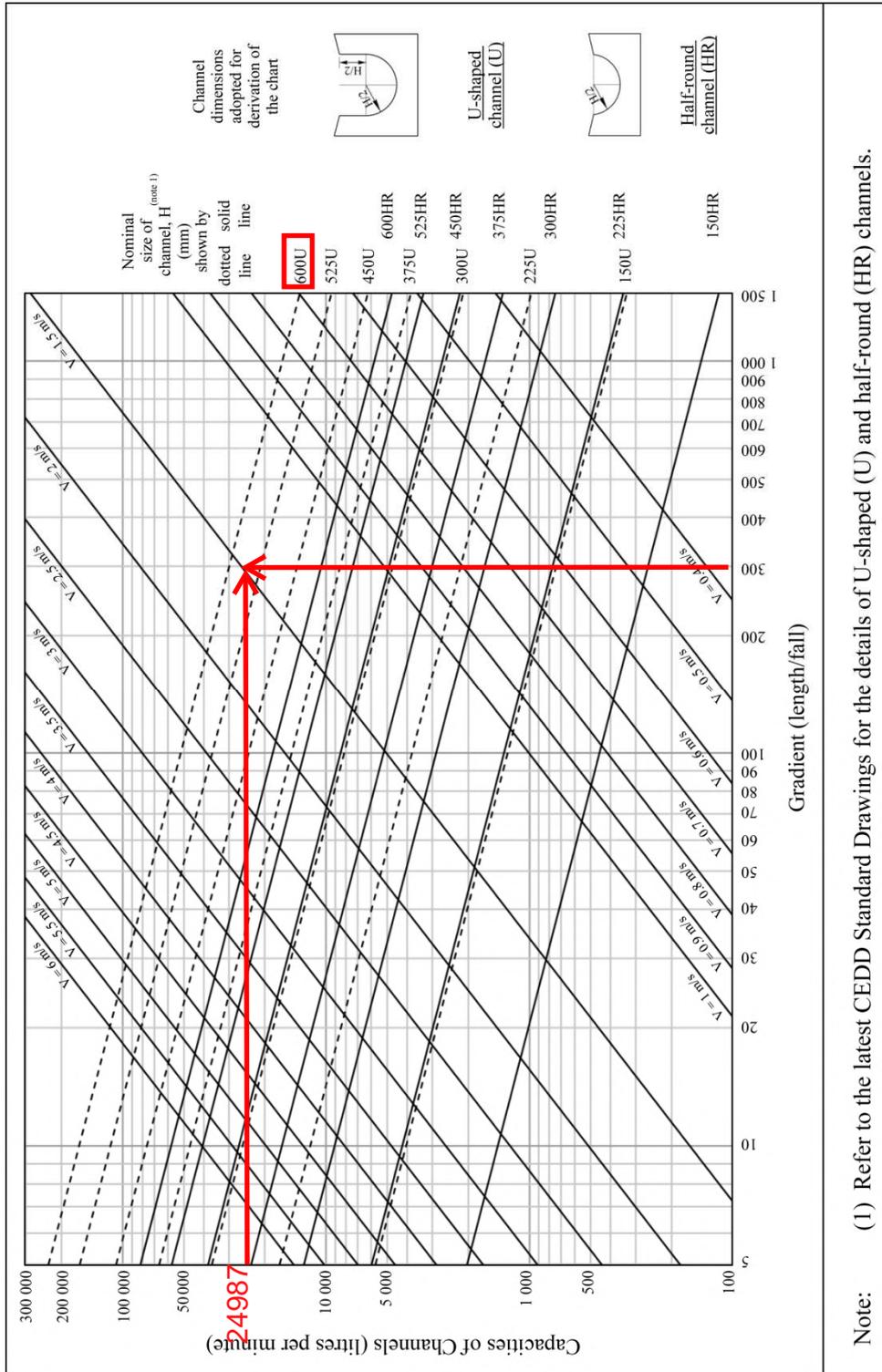
$$\begin{aligned} \text{Therefore, } Q &= 0.278 * 0.95 * 254.7 * 0.00619 \\ &= 0.4164 \quad \text{m}^3/\text{sec} \\ &= \underline{24987} \quad \text{lit/min} \end{aligned}$$

Provide 600UC (1:300) is OK

GEO Technical Guidance Note No. 43 (TGN 43)
Guidelines on Hydraulic Design of U-shaped and Half-round Channels on Slopes

Issue No.: 1 Revision: - Date: 05.06.2014 Page: 3 of 3

Figure 1 - Chart for the rapid design of U-shaped and half-round channels up to 600 mm





前往地圖: <https://www.map.gov.hk/gm/geo:22.4435,114.0724?z=2257>

Catchment Area for Existing 900mm dia. underground pipe



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。

For checking Existing 900mm dia. pipe

$$\Sigma Q = \Sigma 0.278 C i A$$

$$\begin{aligned} A &= 18183 && \text{m}^2 \\ &= 0.018183 && \text{km}^2 \end{aligned}$$

$$\begin{aligned} t &= 0.14465 L/H^{0.2} A^{0.1} \\ &= 0.14465 * 133 / 1^{0.2} * 18183^{0.1} \\ &= 7.214 && \text{min} \end{aligned}$$

$$\begin{aligned} i &= 1.111 * a / (t+b)^c && \text{(50 yrs return period, Table 3a, Corrigendum 2024, SDM) and (11.1% increase due to climate change)} \\ &= 1.111 * 505.5 / (7.214 + 3.29)^{0.355} \\ &= 243.7 && \text{mm/hr} \end{aligned}$$

Therefore,
$$\begin{aligned} Q &= 0.278 * 0.95 * 243.7 * 0.018183 \\ &= 1.1703 && \text{m}^3/\text{sec} \\ &= \underline{70215} && \text{lit/min} \end{aligned}$$

Provide 900mm dia. concrete pipe (1:100) is OK

Check Existing 900mm dia. Pipes by Colebrook-White Equation

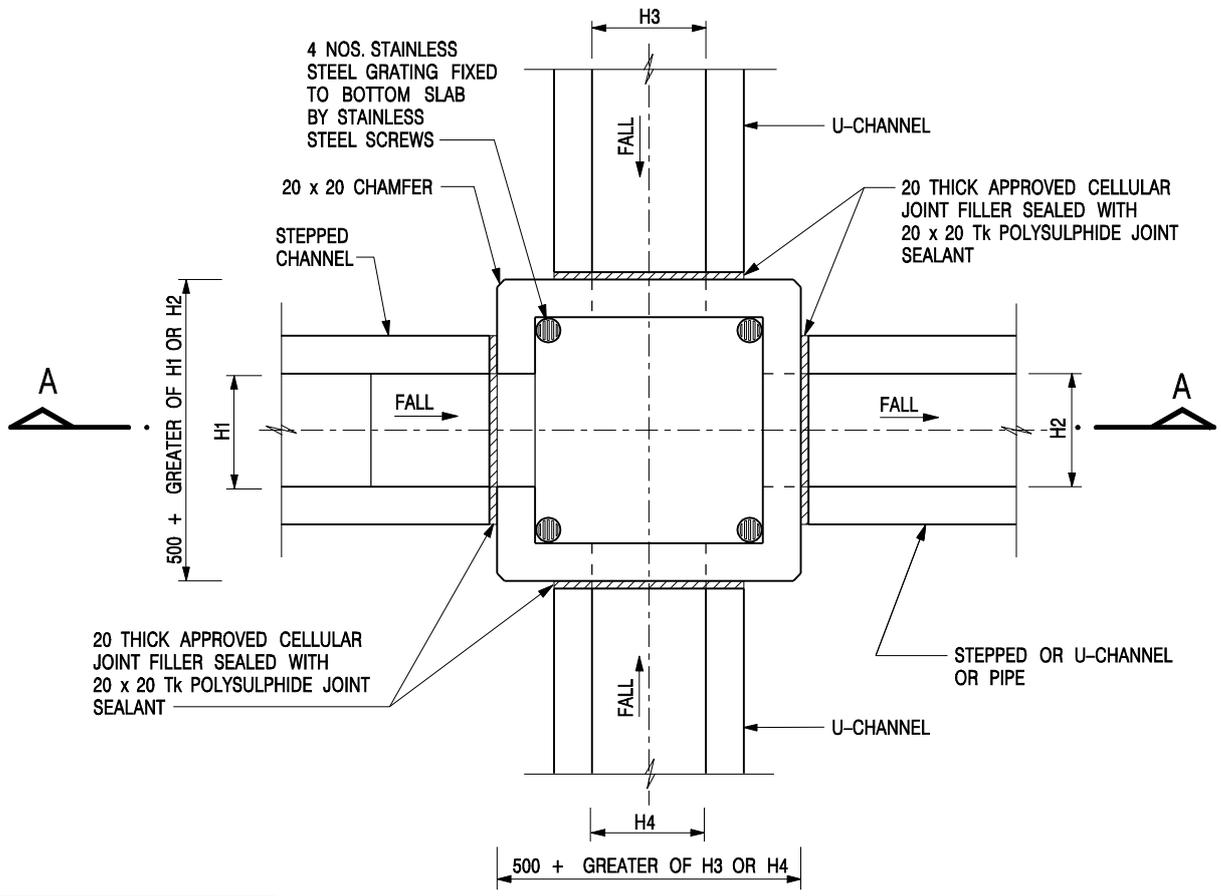
$$V = -\sqrt{(8gDs)} \log\left(\frac{ks}{3.7D} + \frac{2.51v}{D\sqrt{(2gDs)}}\right)$$

where :

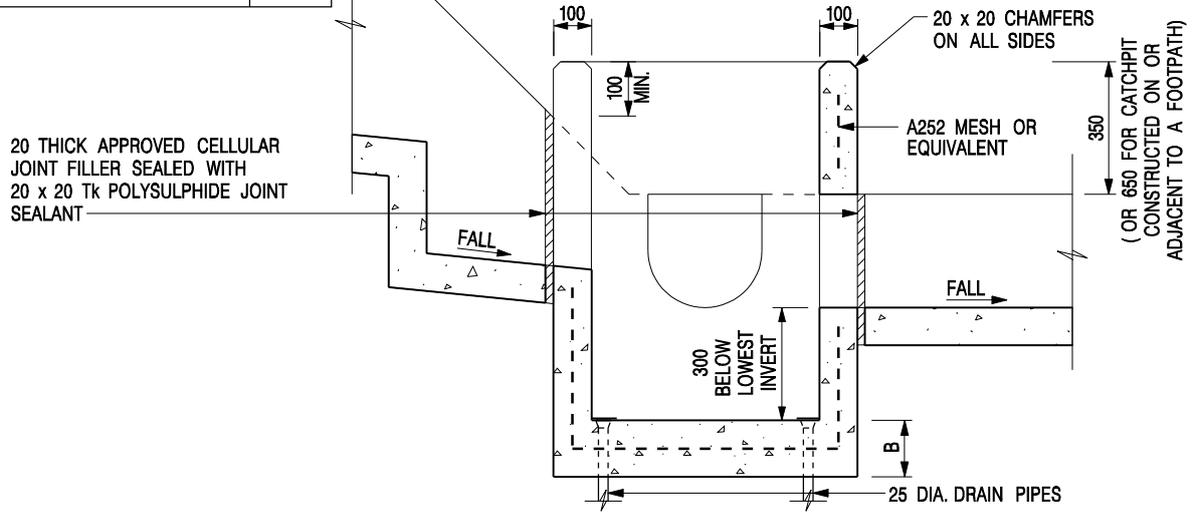
V	=		mean velocity (m/s)	
g	=	9.81	m/s ² gravitational acceleration (m/s ²)	
D	=	0.9	m internal pipe diameter (m)	
ks	=	0.00015	m hydraulic pipeline roughness (m)	(Table14, from DSD SDM 2018, concrete pipe)
v	=	1.14E-06	m ² /s kinematic viscosity of fluid (m ² /s)	
s	=	0.005	hydraulic gradient	

Therefore, design V of pipe capacity = 2.5279 m/s

Q= 0.8VA		(0.8 factor for sedimentation)
= 1.287	m ³ /s	
= 77193	lit/min	
> 70215	lit/min	Ok



NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 - 600	150
675 - 900	175



SECTION A - A

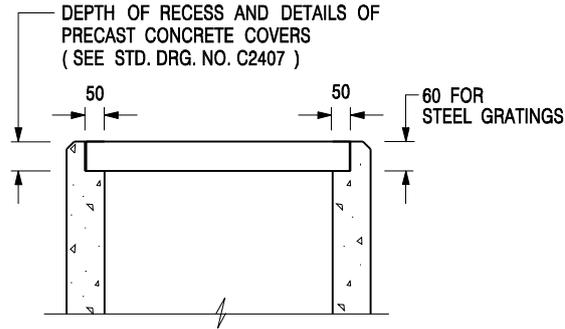
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. REFER TO SHEET 2 FOR OTHER NOTES.

-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE

CATCHPIT WITH TRAP
(SHEET 1 OF 2)



SCALE 1 : 20	DRAWING NO.
DATE JAN 1991	C2406 /1



**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.
6. 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 /2) 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 'J' ON STD. DRG. NO. C2405 /5; 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.
11. FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'G' ON STD. DRG. NO. C2405 /4.
12. SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

A	MINOR AMENDMENT.	Original Signed	04.2016
-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE

**CATCHPIT WITH TRAP
(SHEET 2 OF 2)**

 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	
SCALE 1 : 20	DRAWING NO. C2406 /2A
DATE JAN 1991	

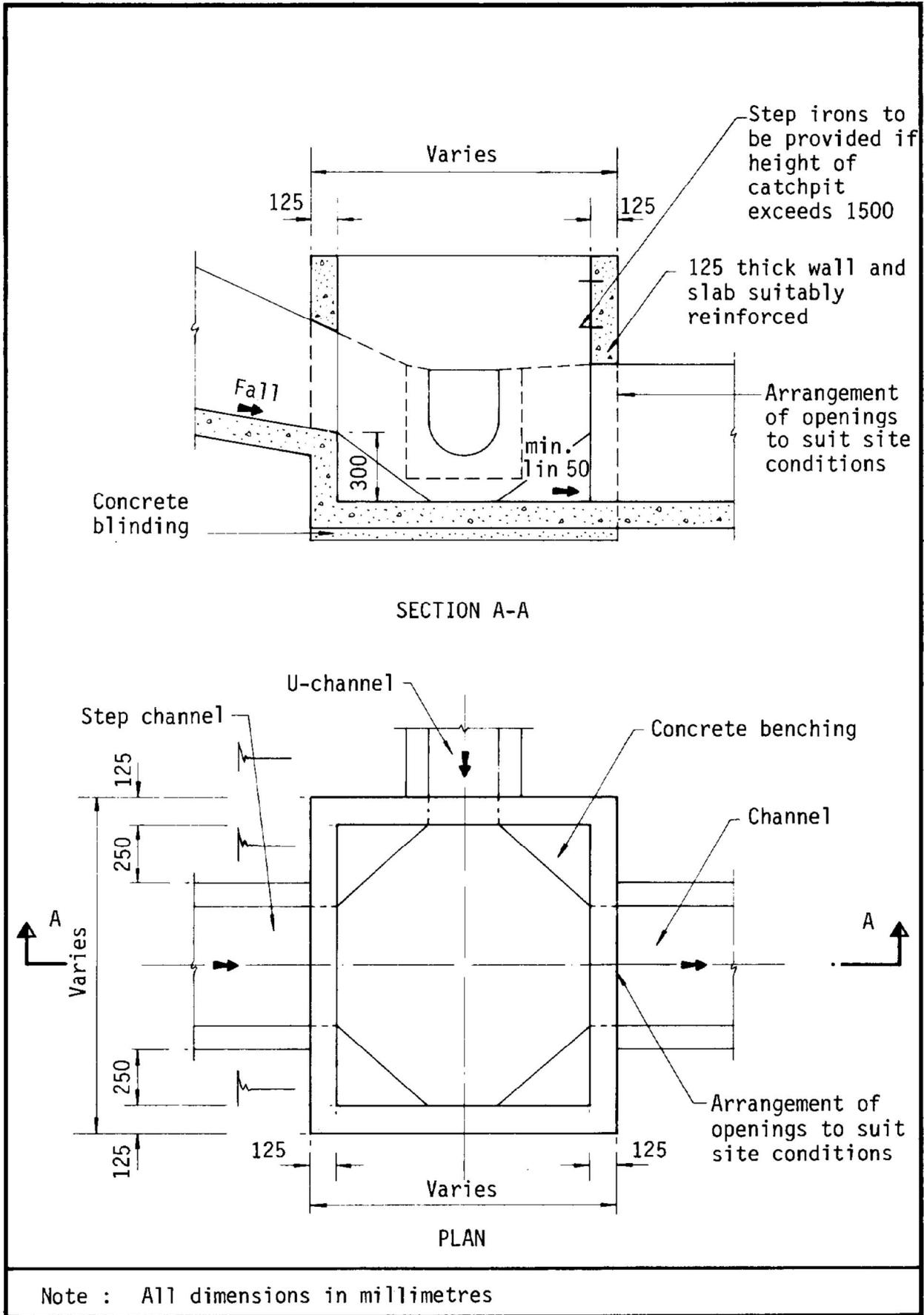
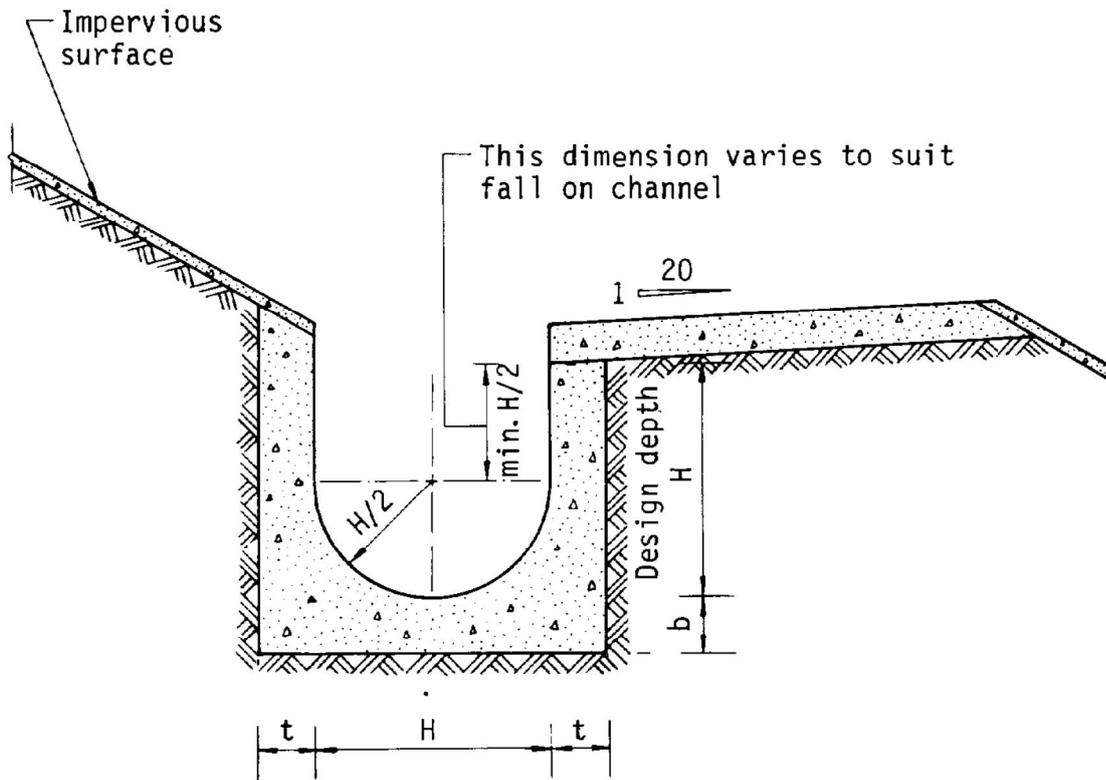


Figure 8.10 - Typical Details of Catchpits



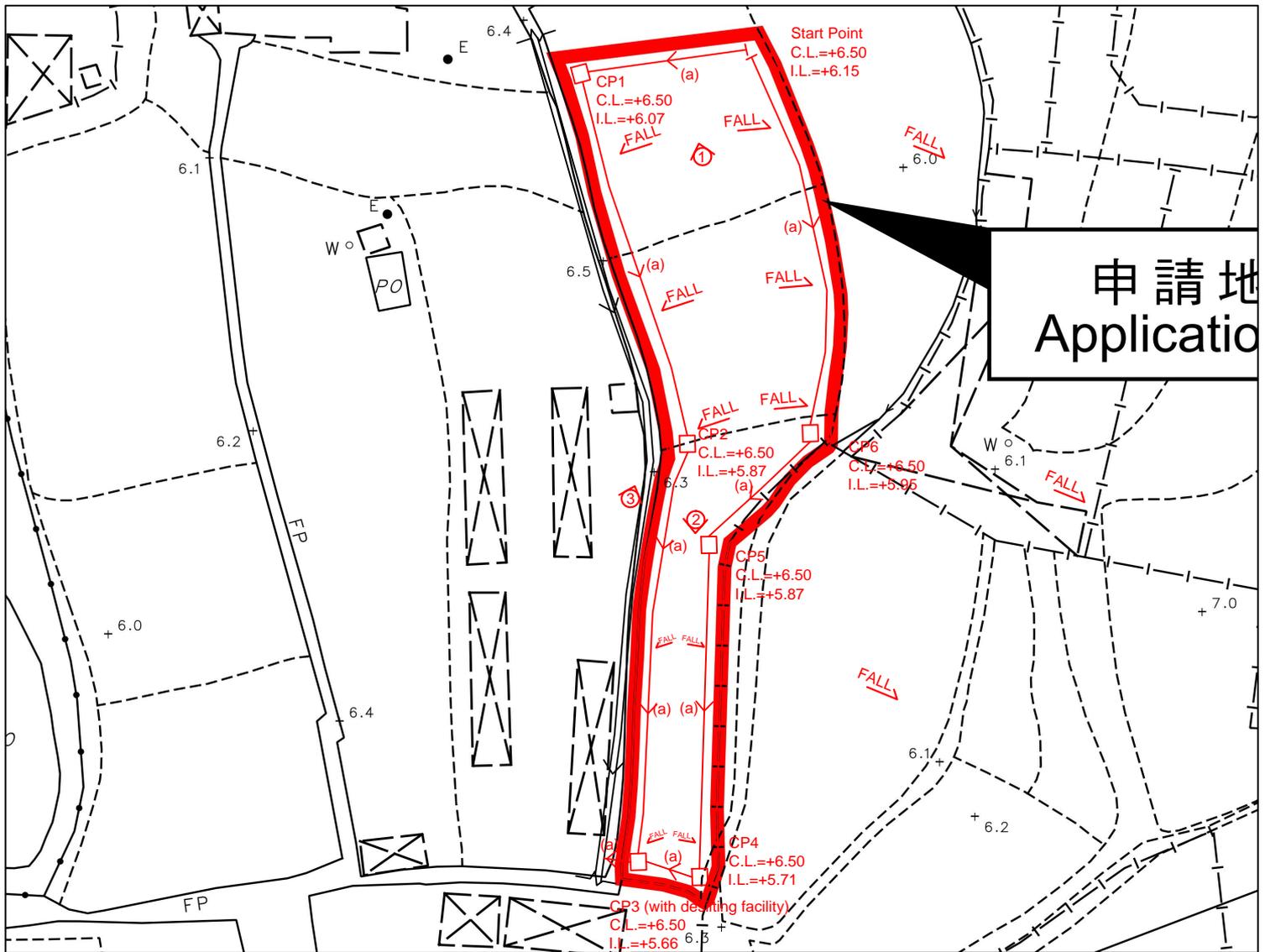
Dimensions of U - channel

Nominal size of channel H (mm)	Thickness t (mm)	Thickness b (mm)
225 to 600	150	150
675 to 1200	175	225

Figure 8.11 - Typical U-channel Details

Appendix A

Drainage Proposal of A/YL-KTN/1070

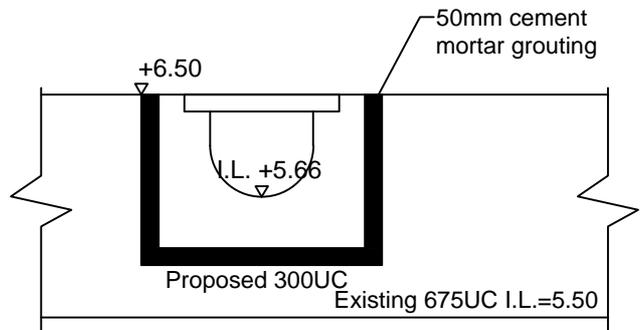


- Note:**
- Catchpits (CP3) with desilting facility shall follow CEDD standard drawing No. C2406I.
 - Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.
 - No solid wall to be erected..
 - Minor filling works to be carried out to leveling the site. Existing Formation Level is +6.40mPD. Proposed Formation Level is +6.50mPD.

- LEGEND**
- CP Proposed CatchPit
 - (a) Proposed 300UC (1:200) with Cast Iron Cover
 - ⇒ Existing 675UC
 - ↘ FALL Fall Direction
 - ① Photo Viewspot

Total Catchment Area = 1369.8 sq.m
 $Q=0.278C^0.75IA^{0.75}$
 $=0.278 \times 0.95^{0.75} \times 250^{0.75} \times \frac{1369.8}{1000000}$
 $=0.090 \text{ m}^3/\text{s}$
 $= 5426 \text{ lit}/\text{min}$

Provide 300UC (1:200) is OK



CONNECTION DETAILS

恆協工程有限公司

HANDSHIP ENGINEERING COMPANY LIMITED

Project:
 Proposed Temporary Warehouse (excluding Dangerous Goods Godown) with Ancillary Facilities for a Period of 3 Years and Associated Filling of Land at Lots 1363 RP (Part) and 1370 (Part) in D.D. 109, Kam Tin, Yuen Long, New Territories

(Application No.:A/YL-KTN/1070)

Title:
 Drainage Proposal - LAYOUT

D01

Drawn by:
 DM

Date:
 15-1-2025

Check by:
 DM

Scale:

Photo 1



Photo 2



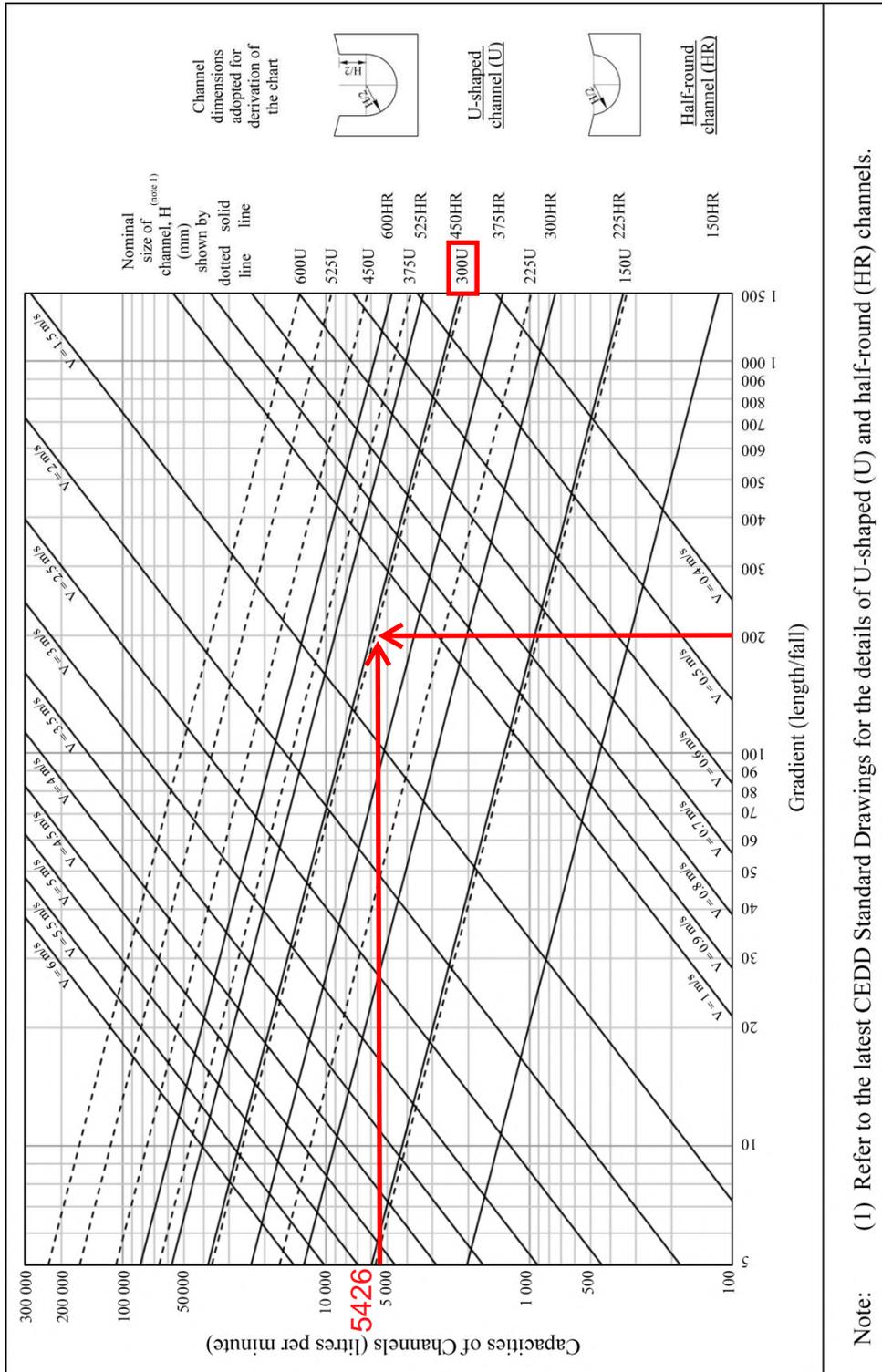
Photo 3

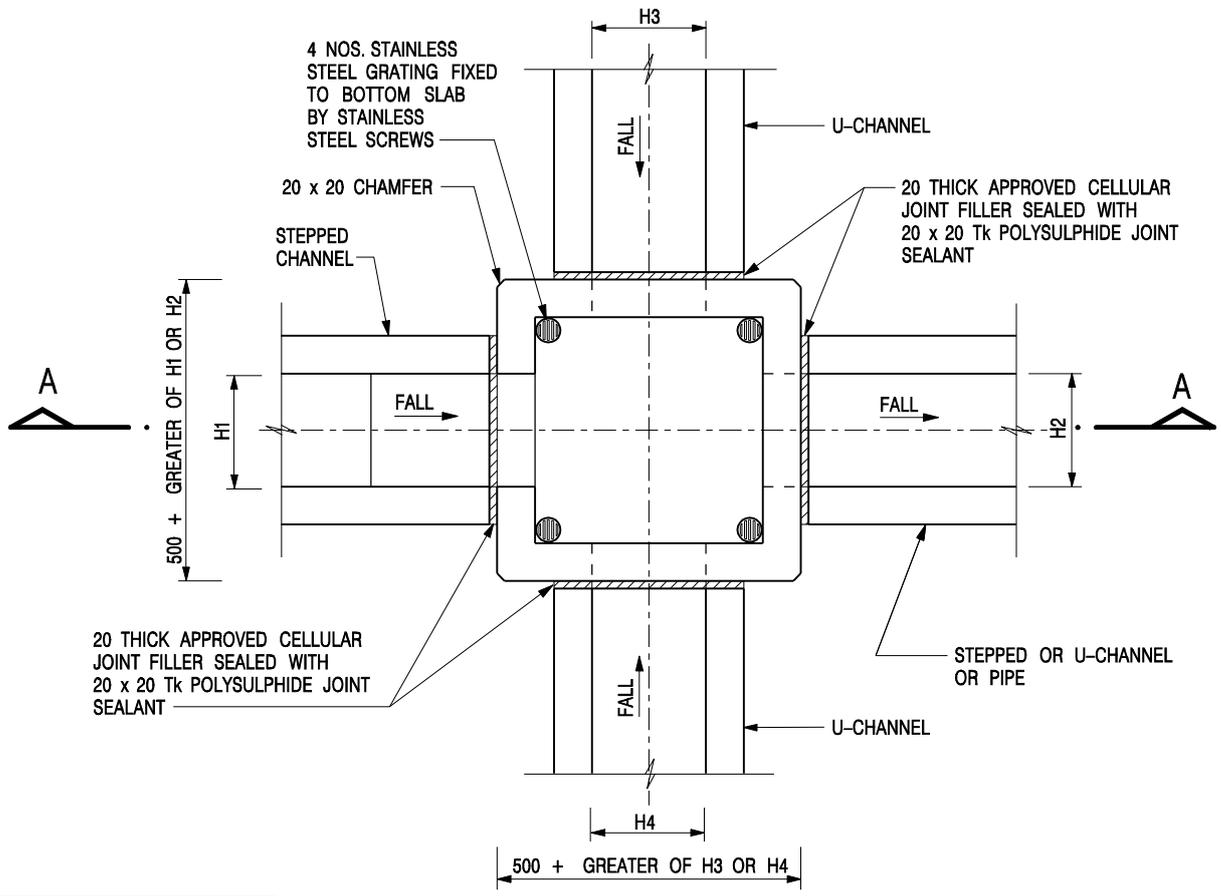


GEO Technical Guidance Note No. 43 (TGN 43)
Guidelines on Hydraulic Design of U-shaped and Half-round Channels on Slopes

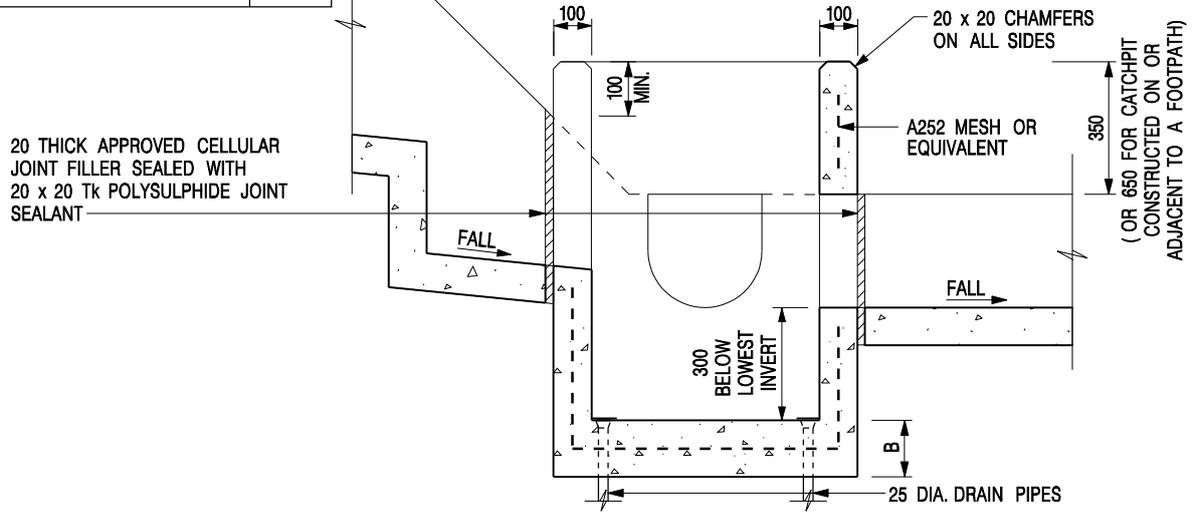
Issue No.: 1 Revision: - Date: 05.06.2014 Page: 3 of 3

Figure 1 - Chart for the rapid design of U-shaped and half-round channels up to 600 mm





NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 - 600	150
675 - 900	175



SECTION A - A

NOTES:

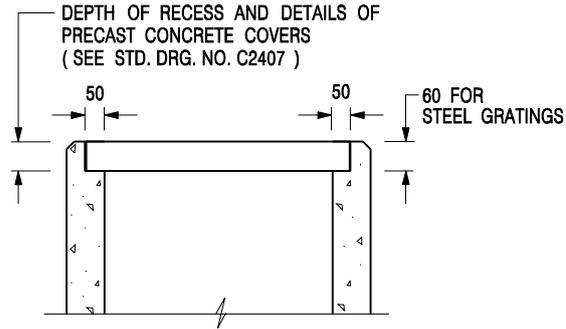
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 2 FOR OTHER NOTES.

CATCHPIT WITH TRAP
(SHEET 1 OF 2)

-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
REF.	REVISION	SIGNATURE	DATE

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20 DRAWING NO. C2406 /1
DATE JAN 1991



**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.
6. 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.
11. FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'F' ON STD. DRG. NO. C2405.
12. 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

**CATCHPIT WITH TRAP
(SHEET 2 OF 2)**

 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	
SCALE 1 : 20	DRAWING NO.
DATE JAN 1991	C2406 /2

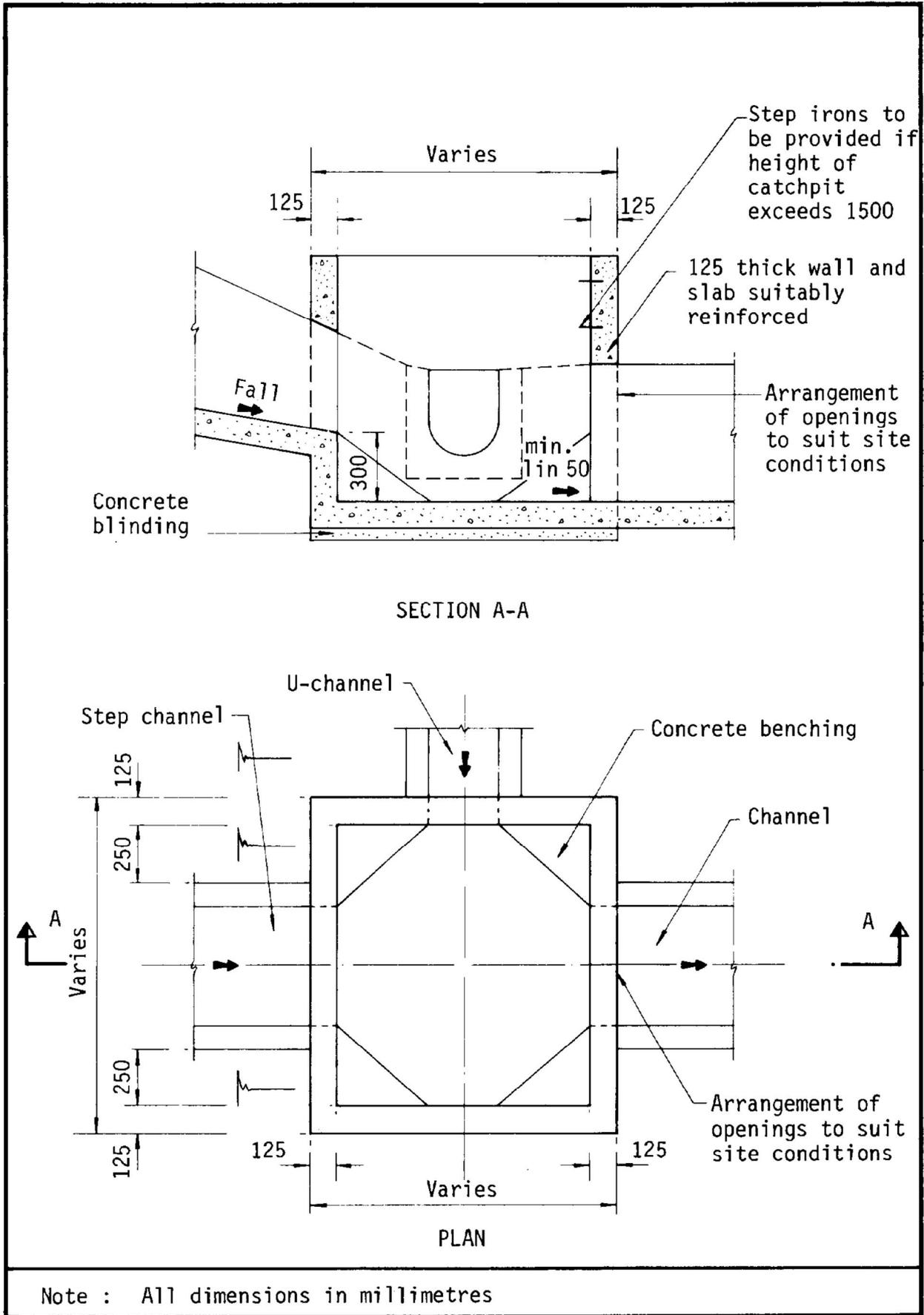
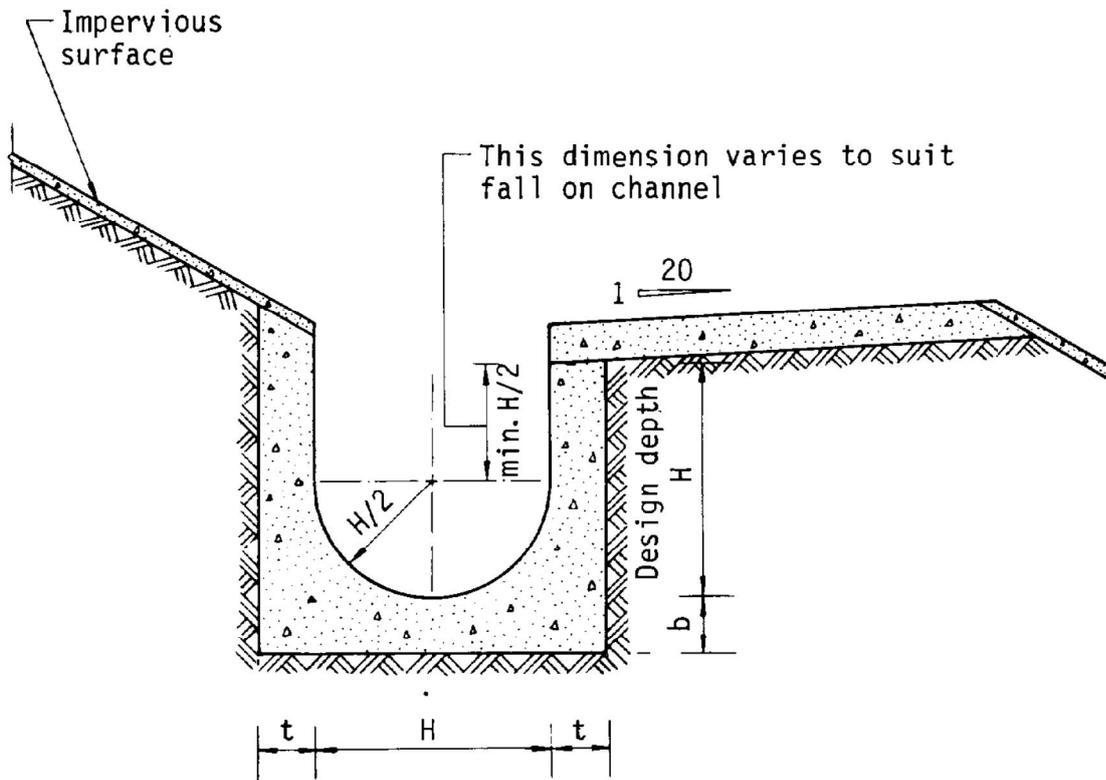


Figure 8.10 - Typical Details of Catchpits



Dimensions of U - channel

Nominal size of channel H (mm)	Thickness t (mm)	Thickness b (mm)
225 to 600	150	150
675 to 1200	175	225

Figure 8.11 - Typical U-channel Details