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From [REDACTED]
Sent: 2026-01-07 星期三 10:35:55
To: [REDACTED]
Subject: A/YL-PH/1070 排水建議
Attachment: A_YL-PH_1070 排水建議.pdf

現就相關規劃申請提交排水建議，請查閱附件，謝謝。

如有需要請致電 [REDACTED]。

獲授權代理人 郭凱琳

2026 年 1 月 7 日

聯絡地址：[REDACTED]

電話：[REDACTED]

申請地段：新界元朗八鄉橫台山丈量約份第111約地段編號第2808(部份)、
2809(部份)、2810(部份)、2811餘段(部份)、2814(部份)、2815(部
份)、2816(部份)的擁有人

申請編號：TPB/A/YL-PH/1070

再次提議渠務報告 (RE-Proposed)

1. 回覆 2025 年 10 月 14 日收到的渠務署意見（簡介）
2.
 - a. 申請人提議的渠管道建造是由申請人自費的。
 - b. 申請人提議的渠管道日後維修保養是申請人的責任。
 - c. 申請人提議的渠管道，也明白地權是政府/私人的。
 - d. 申請人承諾會得到政府部門同意/私人地段同意才會建設渠道工程。
 - e. 申請人聘任 PERRY LEE BUILDING CONSULTANCY COMPANY 公司
作此次渠務顧問

申請人聯絡方式

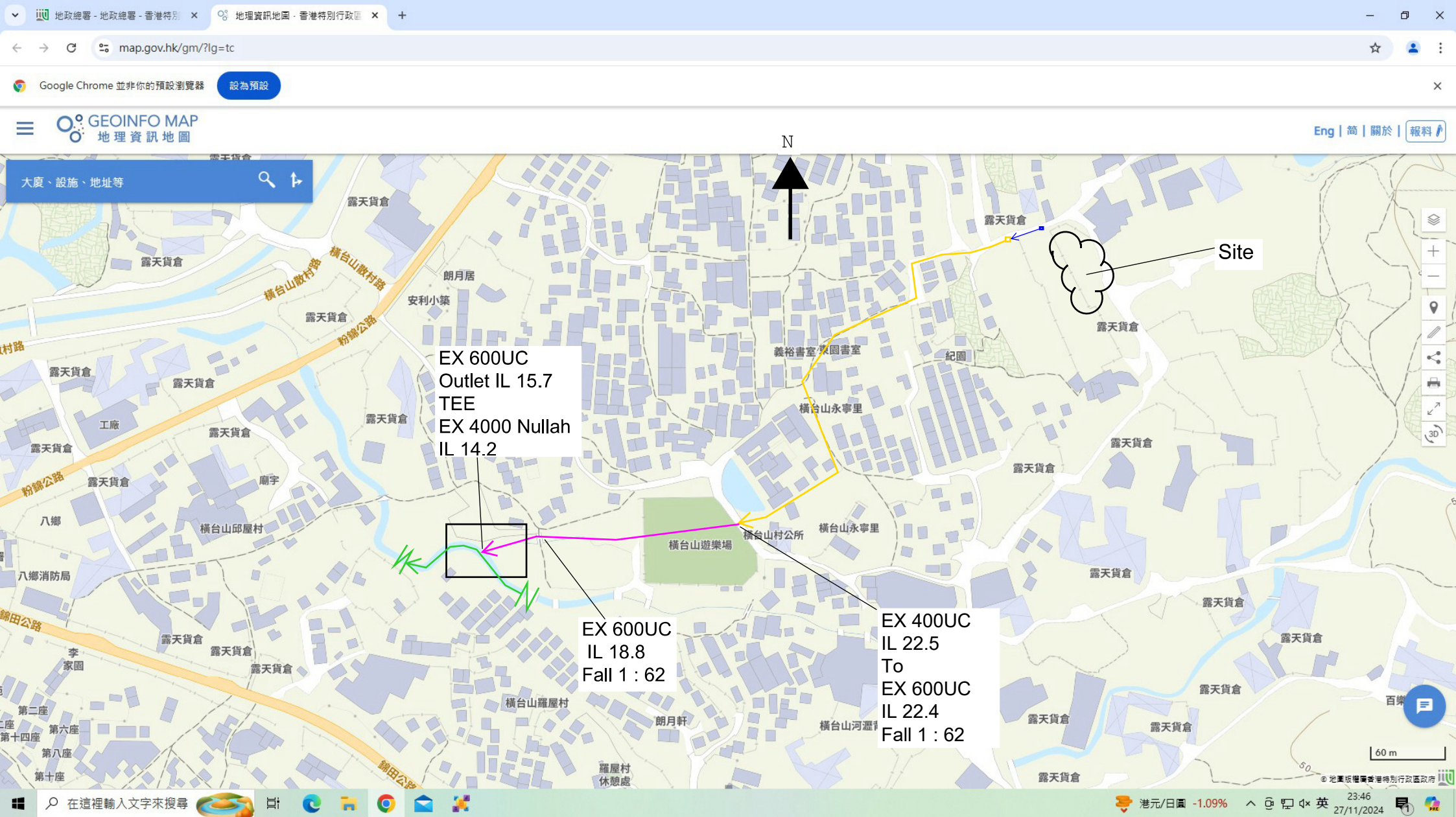
電話：[REDACTED]

渠務顧問聯絡方式

電話：[REDACTED]

2026 年 1 月 7 日

簡介	
Comment	回答
1. I have the following comments on the drainage plan: -	
(a) According to the Stormwater Drainage Manual, the impact of a 50-year event should be assessed to check whether a higher standard than 10 years can be justified.	在b3-1 中示
(b) Peripheral surface channels shall be provided along the site boundary to collect the surface runoff accrued on the application site and to intercept the overland flow from the adjacent lands.	使用人申請的位置, UC以做到邊界的
(c) The catchment area of the of the proposed drainage system should be included in the submission. The ground level at the south side of the application site are slightly higher. The applicant should take into account the surface drain discharged from the site and the adjacent lands to install the drainage system.	知到, 南面已有一個城規申請編號 A/YL-PH/1087 在 南面土地以入Proposed Drainage.
(d) The size and gradient of the proposed/existing drainage facilities to be discharge from the site and/or the overland flow intercepted from the adjacent lands should be indicated in the drainage plan. The applicant should check and ensure the hydraulic capacity of the existing drainage facilities would not be adversely affected by the captioned development.	在b2-1 & b3-1中示, 不會影響周邊地方.
(e) Reference should be made to DSD Technical Note No.1 for the sizes of the proposed u-channels.	在b4-1中示
(f) 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.	知道和明白
(g) Cross sections showing the existing and proposed ground levels of the captioned site with respect to the adjacent areas should be given.	在d1-1中示
(h) Standard details should be provided to indicate the sectional details of the proposed u-channel and the catchpit/sand trap.	在b4-1, b5-1, b6-1 b7-1 中示
(i) The development should neither obstruct overland flow nor adversely affect existing natural streams, village drains, ditches and the adjacent areas, etc.	知道和明白
(j) The existing drainage channel of the proposed discharge point is not maintained by this Department. 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.	知道和明白
(k) Connection details at discharge point (including cross section) with C.L.. L.L and catchpit/channel bottom level should be shown in the drawing.	在b6-1 & b7-1 中示
(l) Colour photos to indicate the current conditions of the existing drainage facilities should be included in the submission. The photos taken locations and angles should be shown on the layout plan.	在c1-1 & c2-1 中示
2. Please note that the above comments are provided from drainage point of view. Since the site formation levels and any associated works proposed by the applicant may affect adjacent land and cause other impacts and/or other issues to public, please consider to require the applicant to submit technical assessment(s) in other aspect(s) and seek comment from relevant departments as necessary.	知道和明白



→ = EX 400UC & Fall

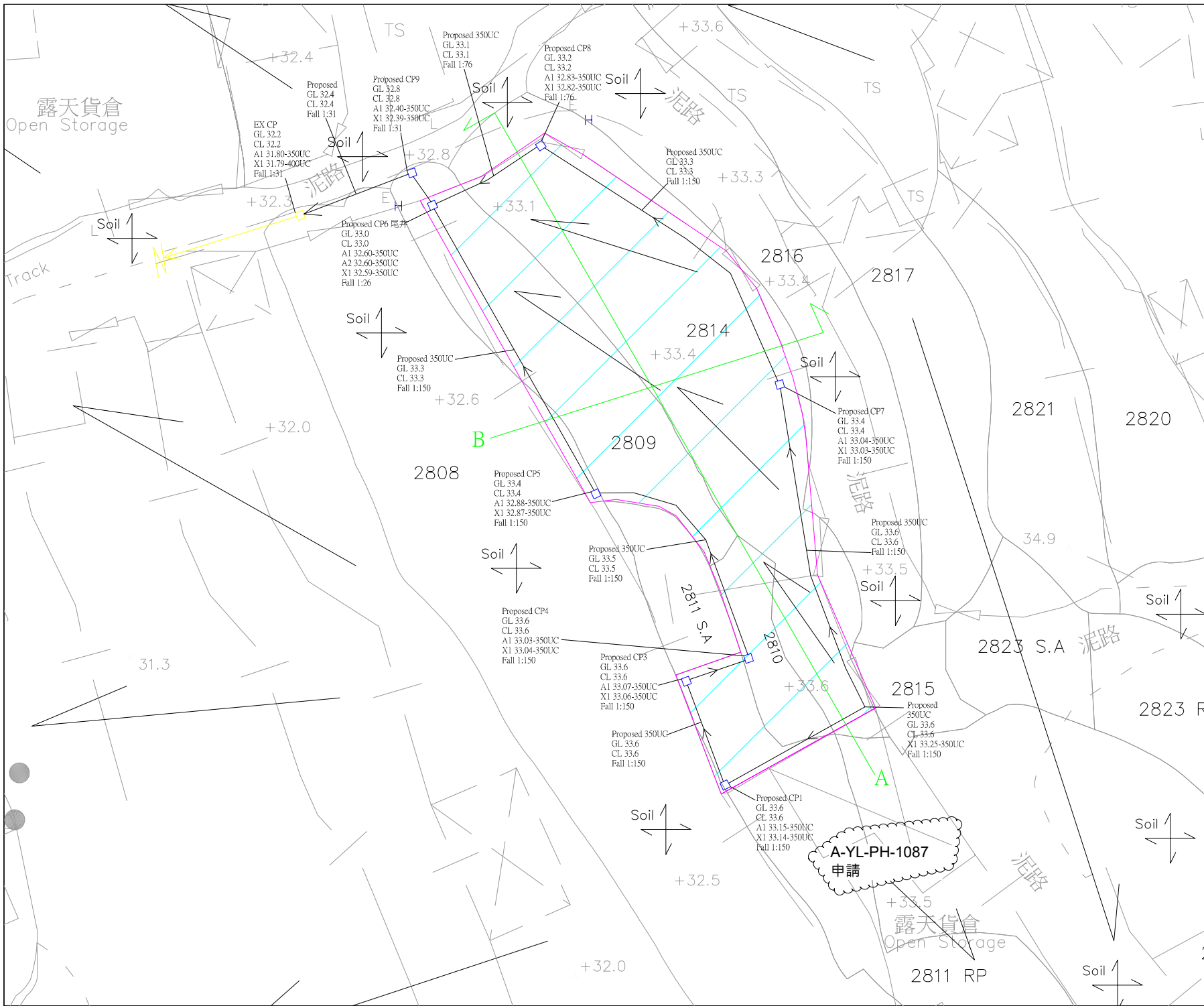
→ = EX 4000 Nullah & Fall

→ = Proposed 350UC & Fall

→ = EX 600UC / 600UCC & Fall

EX Drainage Location

b1-1



LEGEND :	
EX 400UC :	
EX CP :	
Cross Fall :	
Fall :	
Fall :	
Fall :	
Section Line :	
Site Boundary 申請範圍	
EX Ground Level+33.6 ~ +33.1 :	
EX Concrete Catchment Area 1302sqm :	
Proposed 350UC	
Proposed CP6 尾井 :	
Proposed CP1~CP5, CP7~CP9 :	
Proposed drainage plan	
LOCATION :	
A/YL-PH/1070	
Scale :	N.T.S.
Date :	2025-10-15
Drawing number :	b2-1
Drawing :	A4

Rational method

$$Q = C i A$$

i = rainfall intensity

$$t_0 = \frac{0.14465L}{H^{0.2} A^{0.1}}$$

YL-PH / 1070
Proposed 350UC

L =	0.14465
H =	136.93
A =	0.2
	1302

Concrete	0.14465	
L =	136.93	m
H =	0.2	m
A =	1302	m ²
t ₀ =	13.34	min

100 Year Rainwater Intensity	intensity	185	m/hr			16%
		0.185	/	3600	*	1.16
	intensity =	5.96111E-05	m/s			

$$Q_p = C \times i \times A$$

C =	0.9	
i =	5.96E-05	m/s
A =	1302	m ²

$$Q_p = 0.069852 \text{ m}^3/\text{s}$$

YL-PH / 1070

Q(m discharge of open channel) 0.166366 m³/s



Area	=	0.35 * 0.4	0.14
P	=	0.4 * 2 + 0.35	1.15
R _n	=		0.121739
n	=		0.016 Concrete
S ₀ = H/L	0.006	1	0.006



YL-PH / 1070

$$Q(\text{m}^3/\text{s}) = 0.166366 \text{ m}^3/\text{s}$$

* Steady Uniform flow

* Momentum equation becomes the Manning Equation

YL-PH / 1070

$$Q(\text{m}^3/\text{s}) = 0.166366 \text{ m}^3/\text{s}$$

100 Year Rainwater Intensity 225mm channel

$$\text{Concrete } Q(\text{m}^3/\text{s}) = 0.069852 \text{ m}^3/\text{s}$$

YL-PH / 1070

$$\% = 0.166366$$

$$\% = 0.069852$$

$$Q(\text{m}^3/\text{s}) = 42.0 \% \text{ OK}$$

$$Q(\text{m}^3/\text{s}) = \frac{A}{n} R_h^{2/3} S_0^{1/2}$$

- * where R_h = hydraulic radius = A/P ,
P = wetted perimeter, S_0 = bottom slope, n = Mannings roughness coefficient.

Drainage Impact assessment report of 350 mm channel is Acceptable

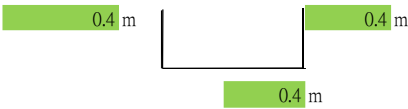
b3-1

EX 400UC

Q(m discharge of open channel) 0.466562 m³/s



Area	=	0.4 * 0.4	0.16	
P	=	0.4+0.4+0.4	1.2	
R _h	=		0.133	
n	=		0.016	Concrete
S ₀ = H/L		0.032	1	0.032



EX 400UC
Q(m³/s) = 0.466562 m³/s

* Steady Uniform flow
* Momentum equation becomes the Manning Equation

EX 400UC
Q(m³/s) = 0.466562 m³/s

100 Year Rainwater Intensity
Q(m³/s) = 0.069852 m³/s

$$Q(m^3/s) = \frac{A}{n} R_h^{2/3} S_0^{1/2}$$

- where R_h =hydraulic radius = A/P ,
 P =wetted perimeter, S_0 =bottom slope, n =Mannings roughness coefficient.

YL-PH / 1070 to (Existing 400mm U-channel)

% =	0.466562
% =	0.069852
Q(m³/s) =	15.0 % OK

Drainage Impact assessment report of 400 mm channel is Acceptable

EX 600UC

Q(m discharge of open channel) 1.990056 m³/s

$$H = 0.016$$

$$L = 1 \text{ m}$$

Area	=	1.1 * 0.6	0.66
P	=	1.1*2+0.6	2.8
R _h	=		0.235714
n	=		0.016 Concrete
S ₀ = H/L		0.016	1 0.016



EX 600UC

Q(m³/s) = 1.990056 m³/s

* Steady Uniform flow

* Momentum equation becomes the Manning Equation

EX 600UC

Q(m³/s) = 1.990056 m³/s

100 Year Rainwater Intensity

Concrete Q(m³/s) = 0.069852 m³/s

YL-PH / 1070 to EX (600mm UC)

% = 1.990056

% = 0.069852

Q(m³/s) = 3.5 % OK

$$Q(\text{m}^3/\text{s}) = \frac{A}{n} R_b^{2/3} S_0^{1/2}$$

- where R_b=hydraulic radius = A/P, P=wetted perimeter, S₀=bottom slope, n=Mannings roughness coefficient.

Drainage Impact assessment report of 600mm U-channel is Acceptable

b3-1

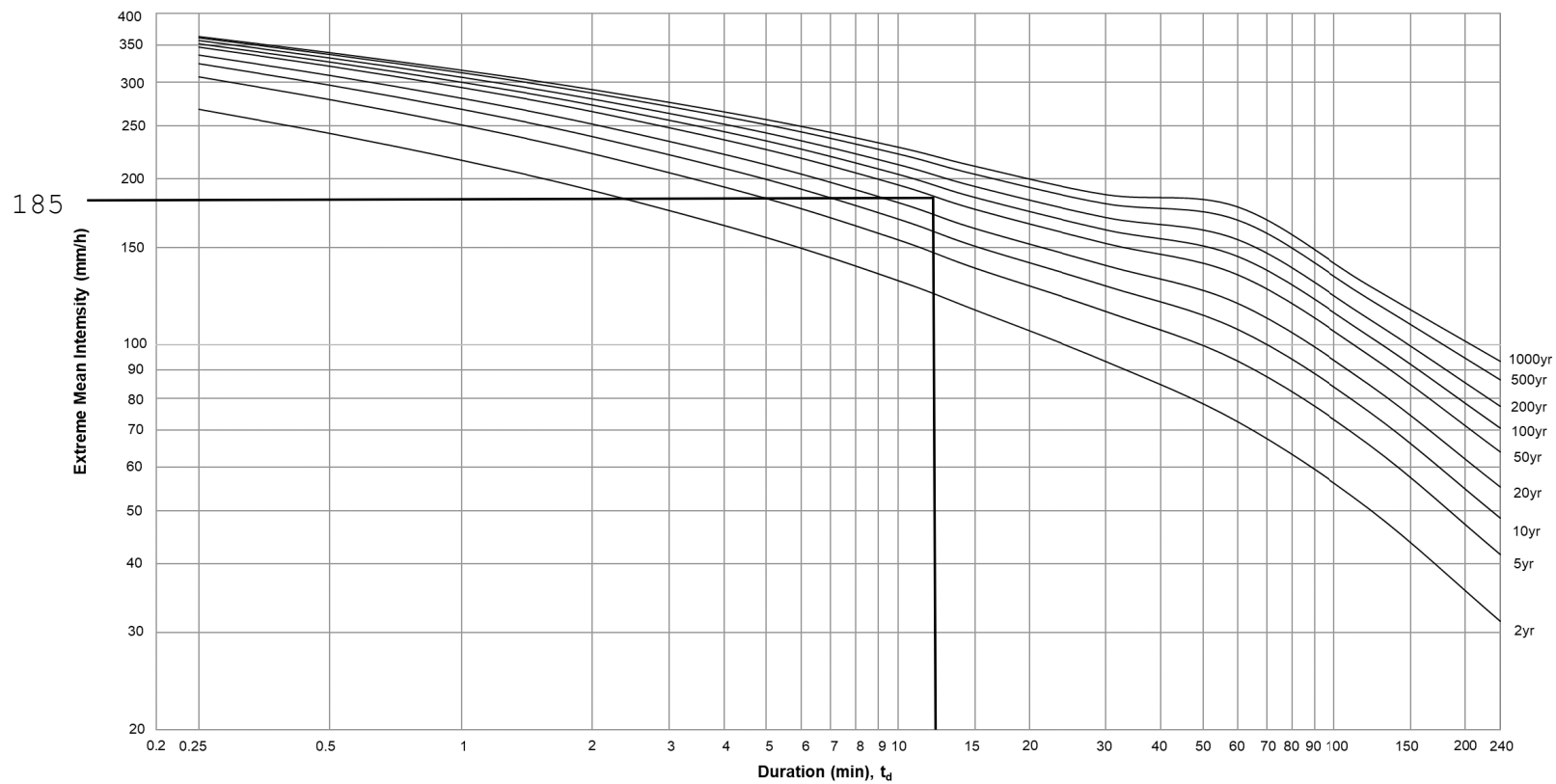
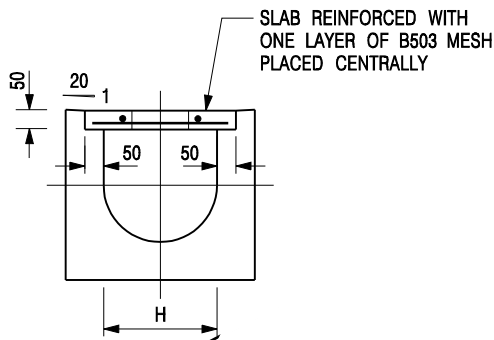
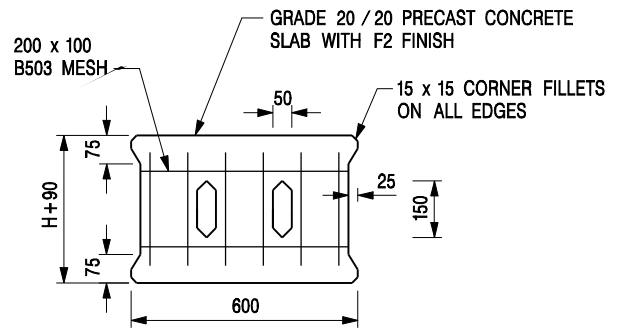


Figure 4a – Intensity-Duration-Frequency Curves of HKO Headquarters
(for durations not exceeding 4 hours)

b1-3



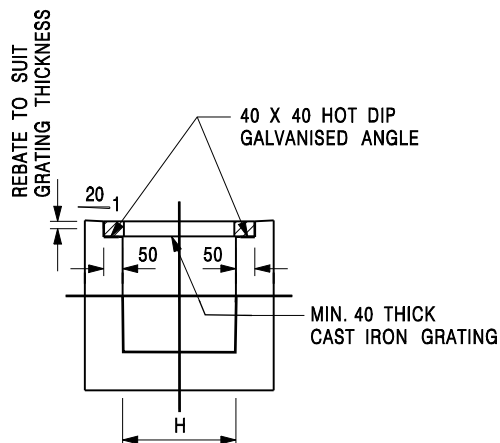
TYPICAL SECTION



PLAN OF SLAB

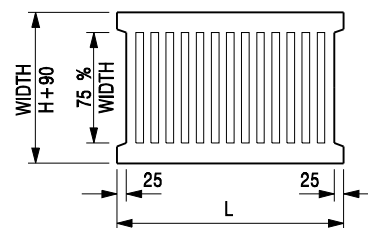
U-CHANNELS WITH PRECAST CONCRETE SLABS

(UP TO H OF 525)



TYPICAL SECTION

(DIMENSIONS ARE FOR GUIDANCE ONLY, CONTRACTOR MAY SUBMIT EQUIVALENT TYPE)



L = 600mm FOR H ≤ 375mm
L = 400mm FOR H > 375mm

CAST IRON GRATING

U-CHANNEL WITH CAST IRON GRATING

(UP TO H OF 525)

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- H=NOMINAL CHANNEL SIZE.
- ALL CAST IRON FOR GRATINGS SHALL BE GRADE EN-GJL-150 COMPLYING WITH BS EN 1561.
- FOR COVERED CHANNELS TO BE HANDED OVER TO HIGHWAYS DEPARTMENT FOR MAINTENANCE, THE GRATING DETAILS SHALL FOLLOW THOSE AS SHOWN ON HyD STD. DRG. NO. H3156.

b4-1

E	NOTES 3 & 4 AMENDED.	Original Signed	12.2014
D	NOTE 4 ADDED.	Original Signed	06.2008
C	MINOR AMENDMENT. NOTE 3 ADDED.	Original Signed	12.2005
B	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
A	CAST IRON GRATING AMENDED.	Original Signed	12.2002
REF.	REVISION	SIGNATURE	DATE

COVER SLAB AND CAST IRON
GRATING FOR CHANNELS



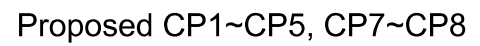
**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE 1 : 20

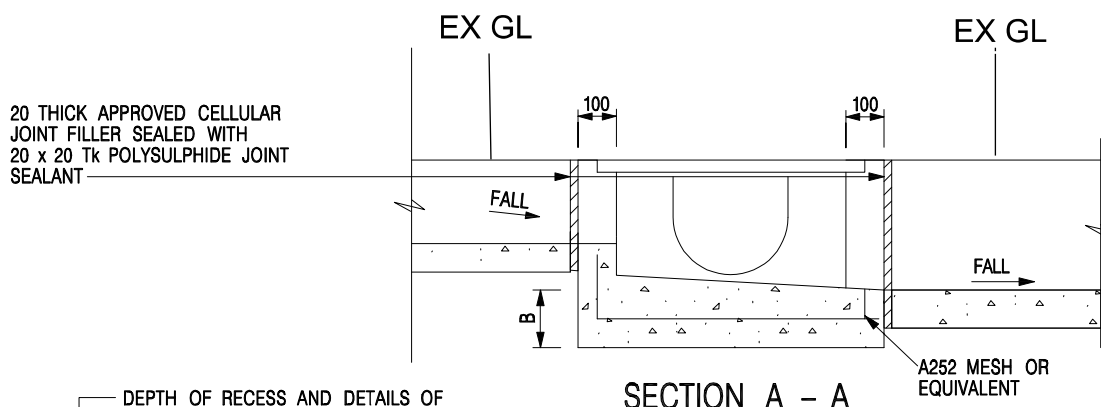
DATE JAN 1991

DRAWING NO.

C2412E



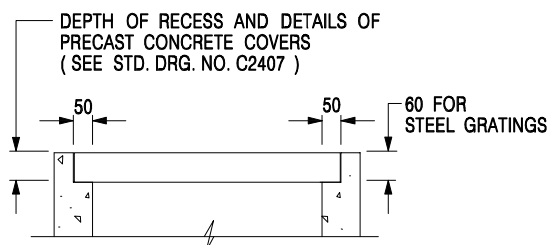
NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
225 – 600	150
675 – 900	175



SECTION A - A

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 5 FOR OTHER NOTES.



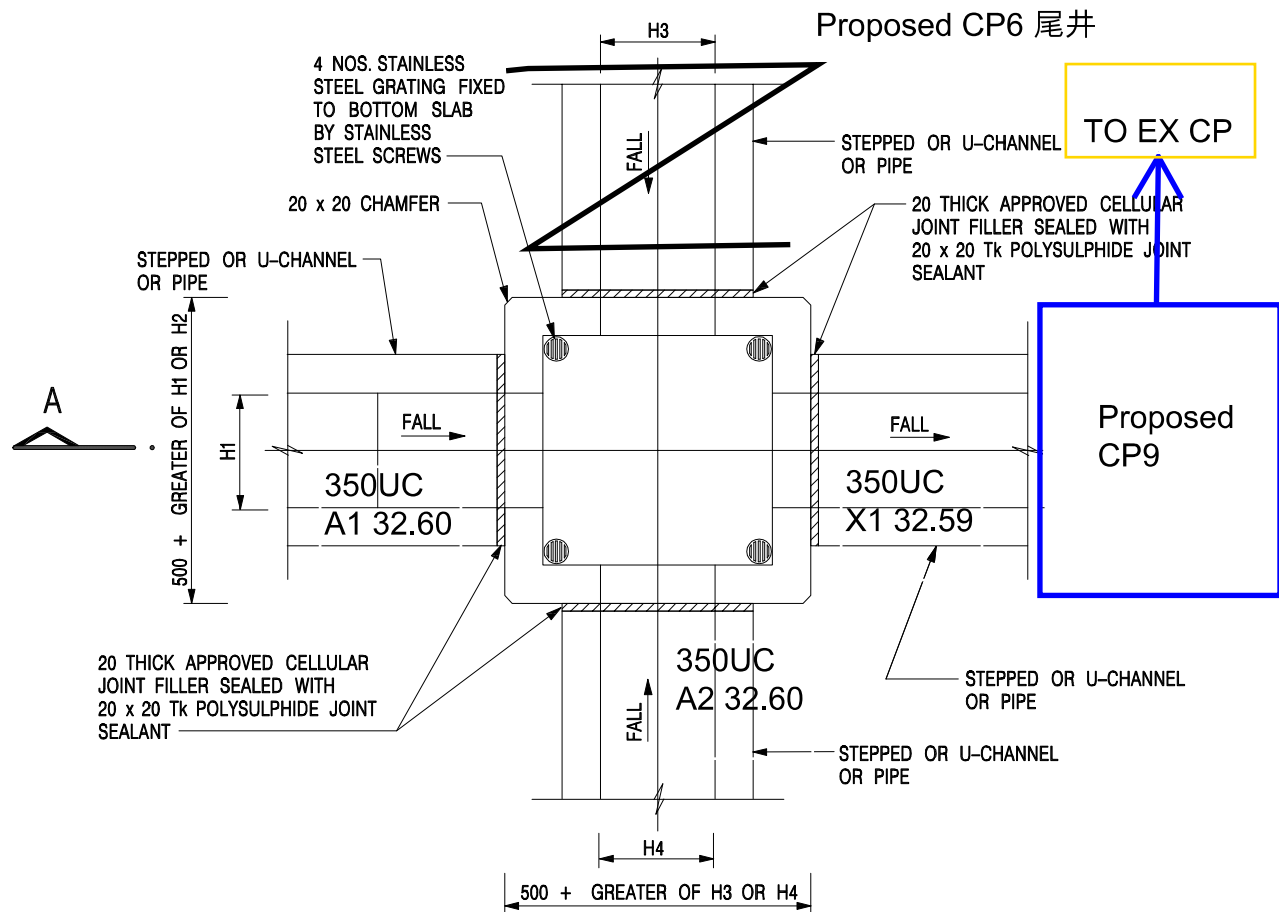
ALTERNATIVE TOP SECTION FOR PRECAST CONCRETE COVERS / GRATINGS

b5-1

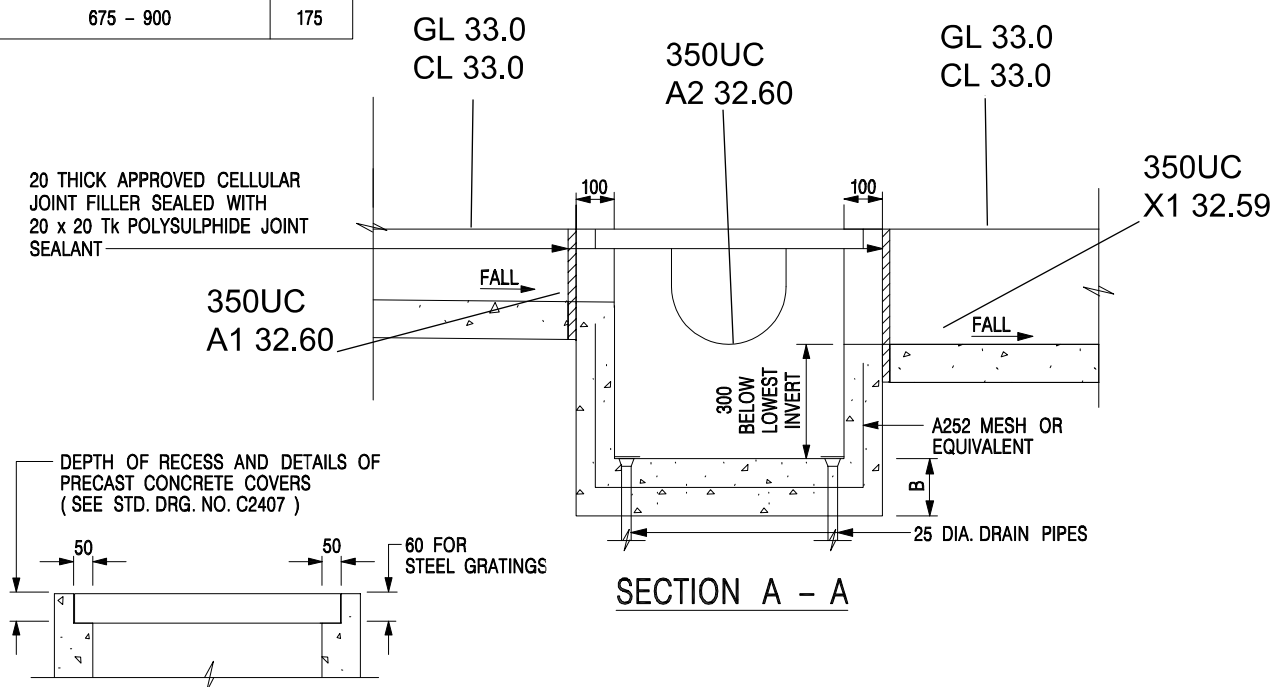
-		Original Signed	
REF.	REVISION	SIGNATURE	
SCALE 1 : 20		DRAWING NO. C2405 /1	

STANDARD CATCHPIT DETAILS

(SHEET 1)



NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
225 - 600	150
675 - 900	175



NOTES:

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

b6-1

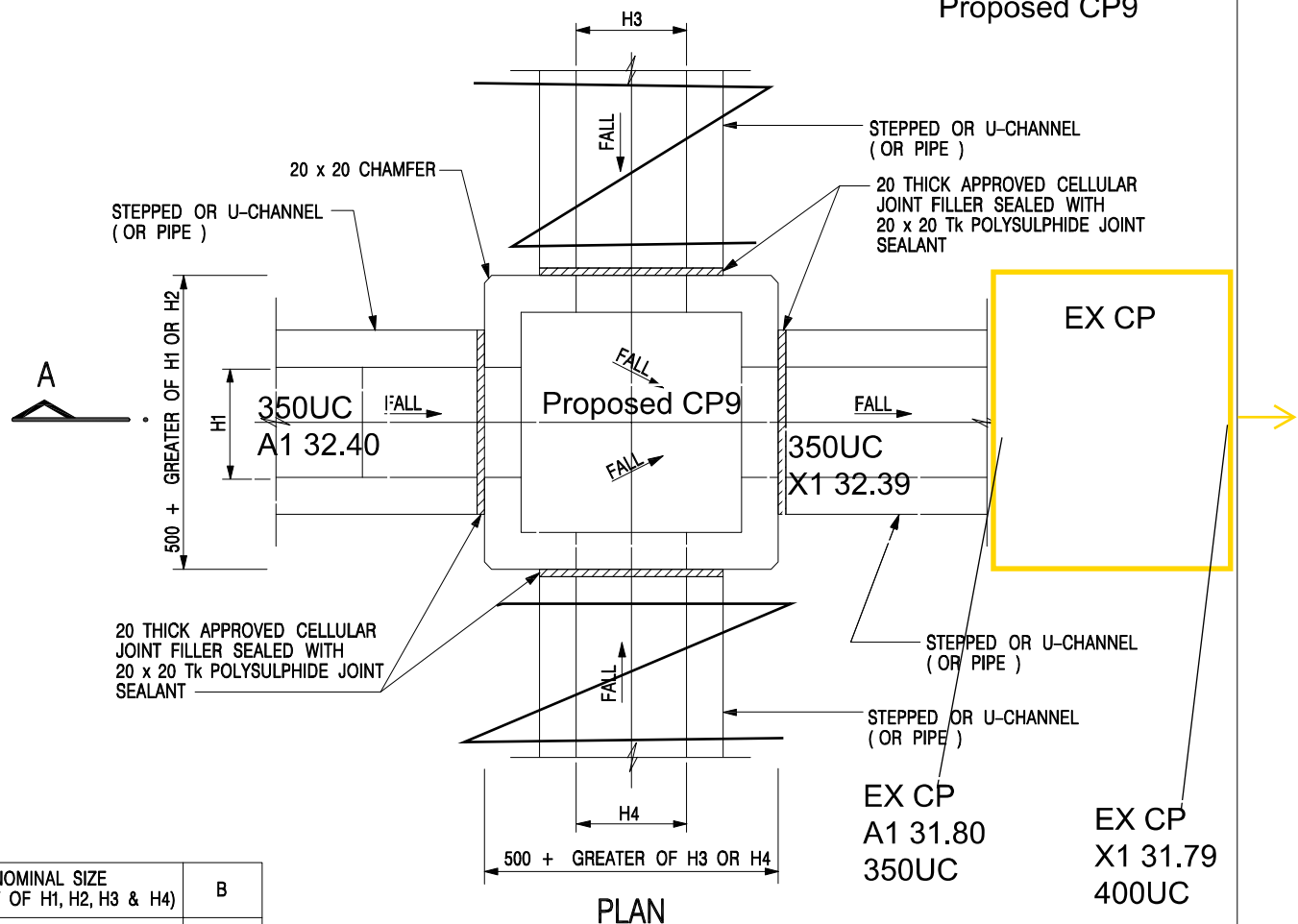
REF.	REVISION	Original Signed	SIGNATURE	DATE
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CATCHPIT WITH TRAP
(SHEET 1)

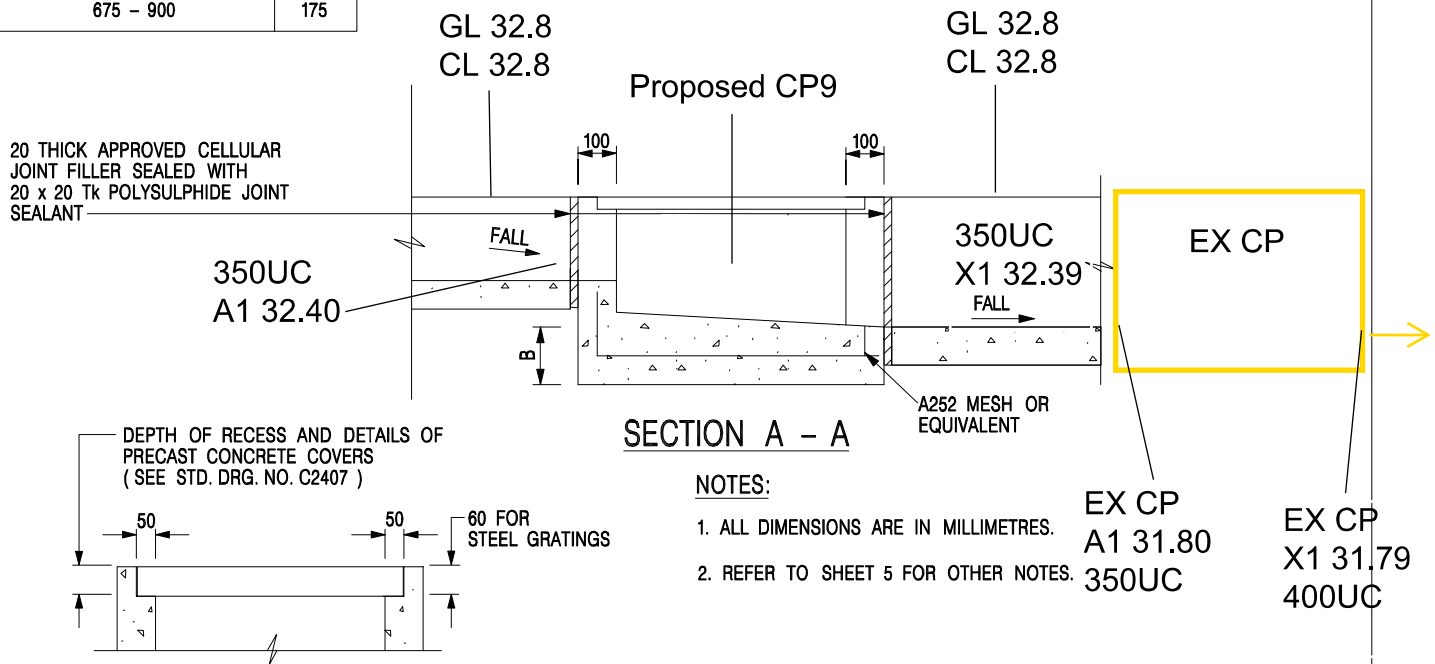
SCALE 1 : 20
DATE

DRAWING NO.
C2406 /1

Proposed CP9



NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
225 - 600	150
675 - 900	175



ALTERNATIVE TOP SECTION FOR
PRECAST CONCRETE COVERS / GRATINGS

b7-1

REF.	REVISION	Original Signed	SIGNATURE
SCALE 1 : 20			
DRAWING NO. C2405 /1			

STANDARD CATCHPIT DETAILS
(SHEET 1)

→ = EX 400UC & Fall

→ =EX 4000 Nullah & Fall

→ =Proposed 350UC & Fall

→ =EX 600UC / 600UCC & Fall

1



2

Site



3



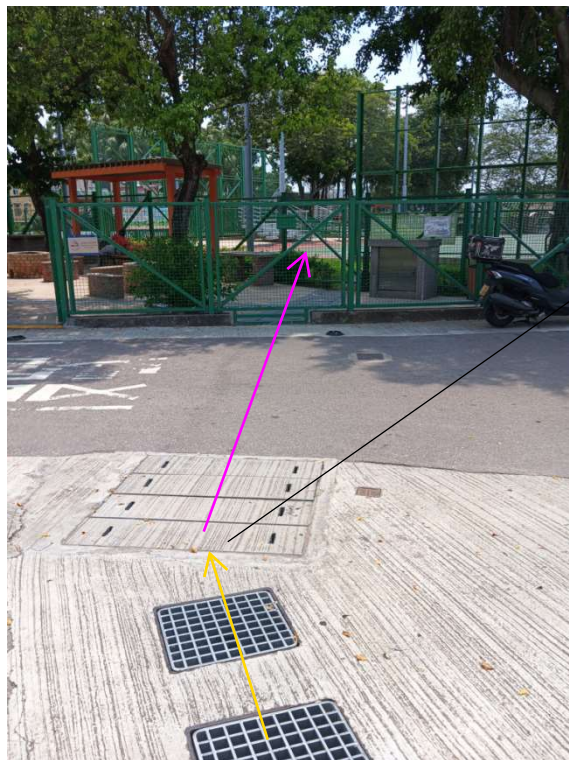
4



5

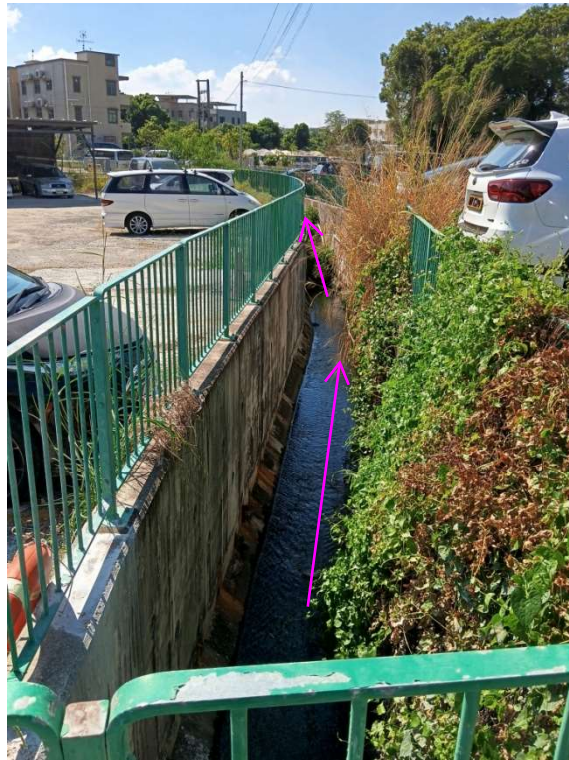


6



EX 400UC
IL 22.5
To
EX 600UC
IL 22.4

7

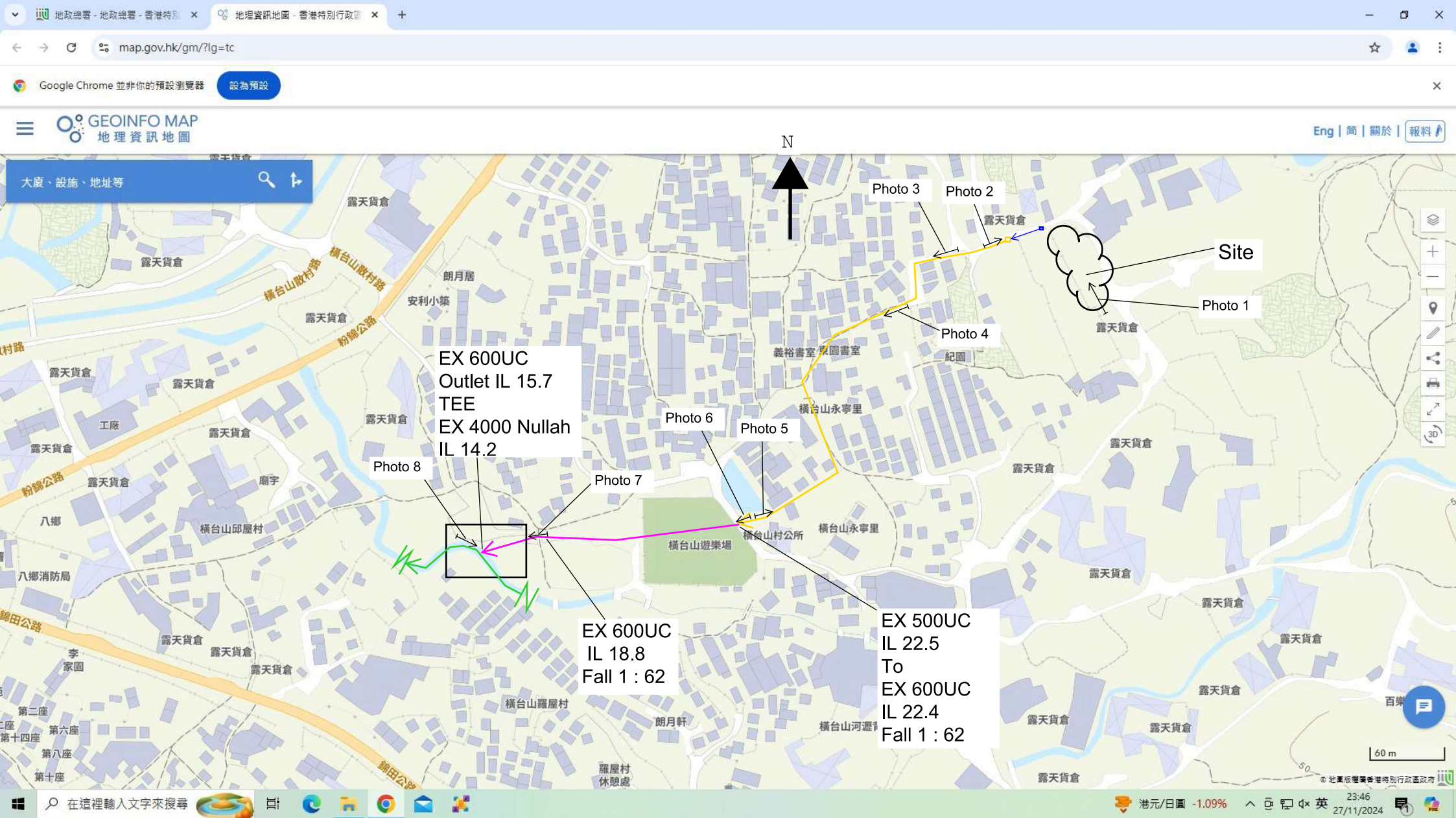


8



EX 600UC
Outlet IL 15.7
TEE
EX 4000 Nullah
IL 14.2

EX 4000 Nullah



→ = EX 400UC & Fall

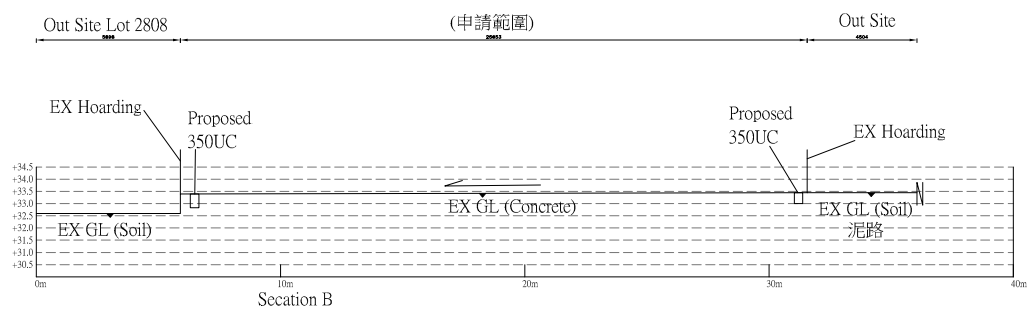
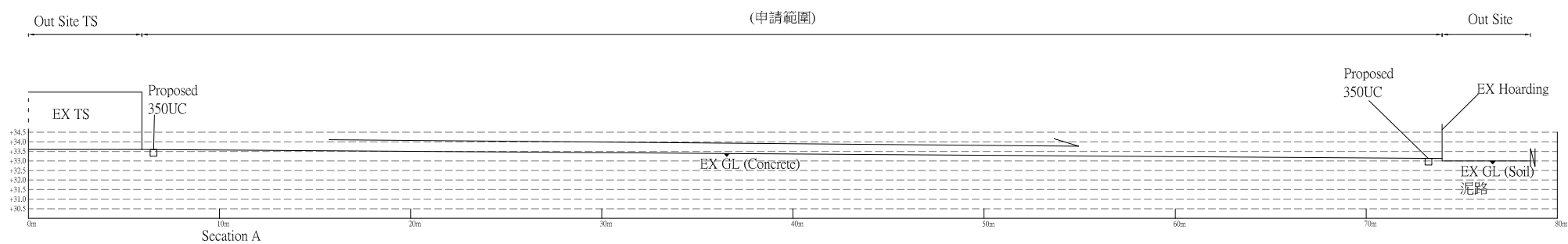
→ = EX 4000 Nullah & Fall

→ = Proposed 350UC & Fall

→ = EX 600UC / 600UCC & Fall

Photo Location Plan

c2-1



d1-1 Secation

Scale : 1:300 A4