

致: 城規會

Your Ref: A/YL-TT/704

DD116 LOT 3578RP

提議 3 年臨時渠務報告(Proposed)

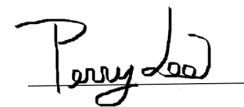
事項: 批准附設條件(a)

1. 簡介內示
2.
 - a. 業權人提議的渠管道建造是由我司自費的.
 - b. 業權人提議的渠管道日後維修保養是我司的責任.
 - c. 業權人提議的渠管道, 也明白地權是政府/私人的.
 - d. 業權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. 業權人聘任了 PERRY LEE BUILDING CONSULTANCY COMPANY 作此次渠務顧問

李生電話: 9453 9388

Email : perry4320my@yahoo.com.hk

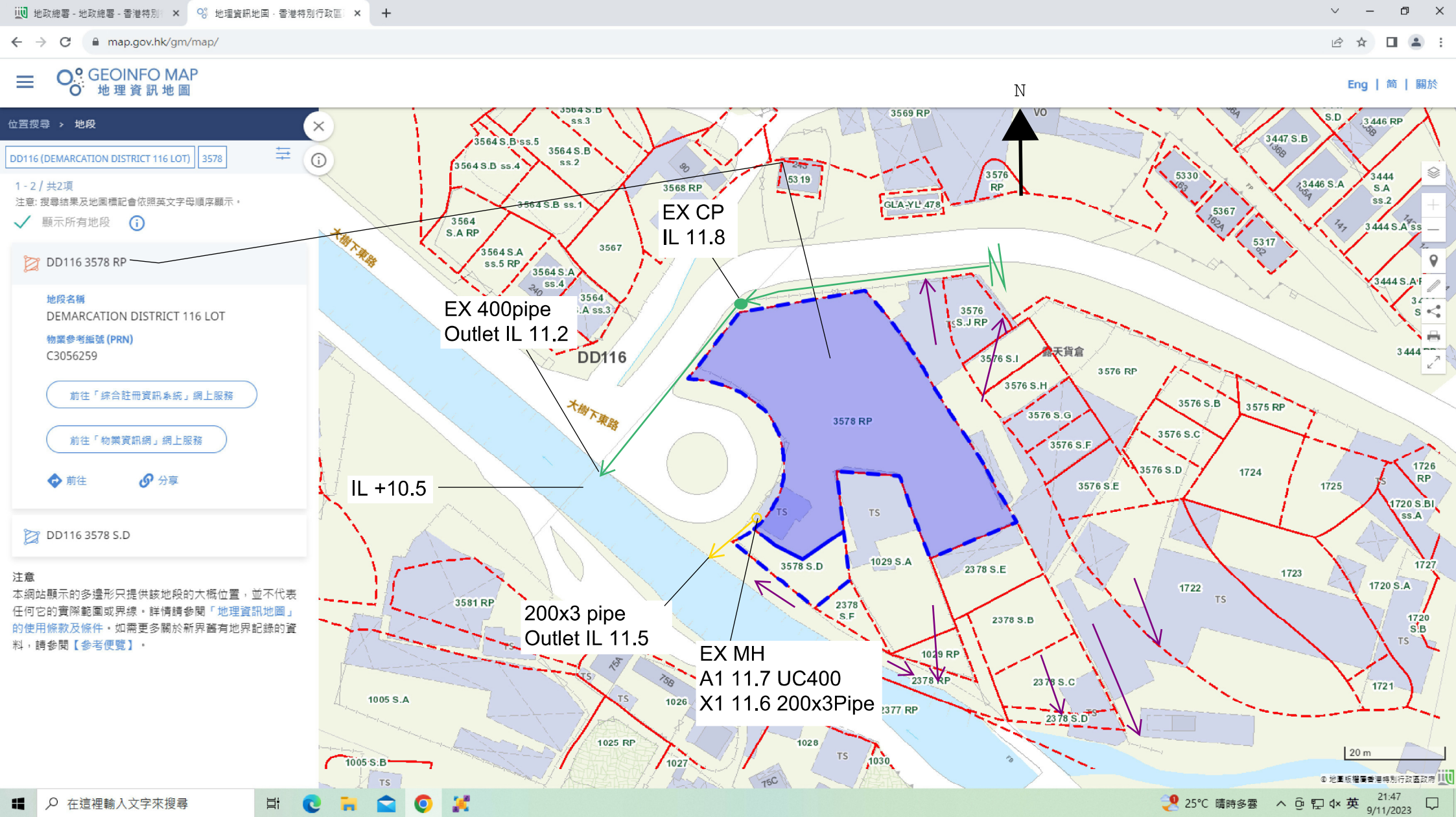
此次渠務聯絡地址: 元朗八鄉牛徑村 52 號



2025 年 03 月 20 日

簡介

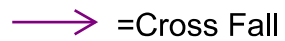
b1-2	Site Location & EX Drainage
b2-2	EX Nullah Location Plan
b3-2	Proposed Drainage Plan
b4-2	MH Schedule
b5-2	Catchment Area
b6-2	計算
b7-2 to b9-2	渠井 Drawing
c1-2	Photo
c2-2	Photo Location
d1-2	Cut Secation
d2-2	Cut Secation Location



= EX CP (Stormwater)



= EX MH (Stormwater)



= Cross Fall

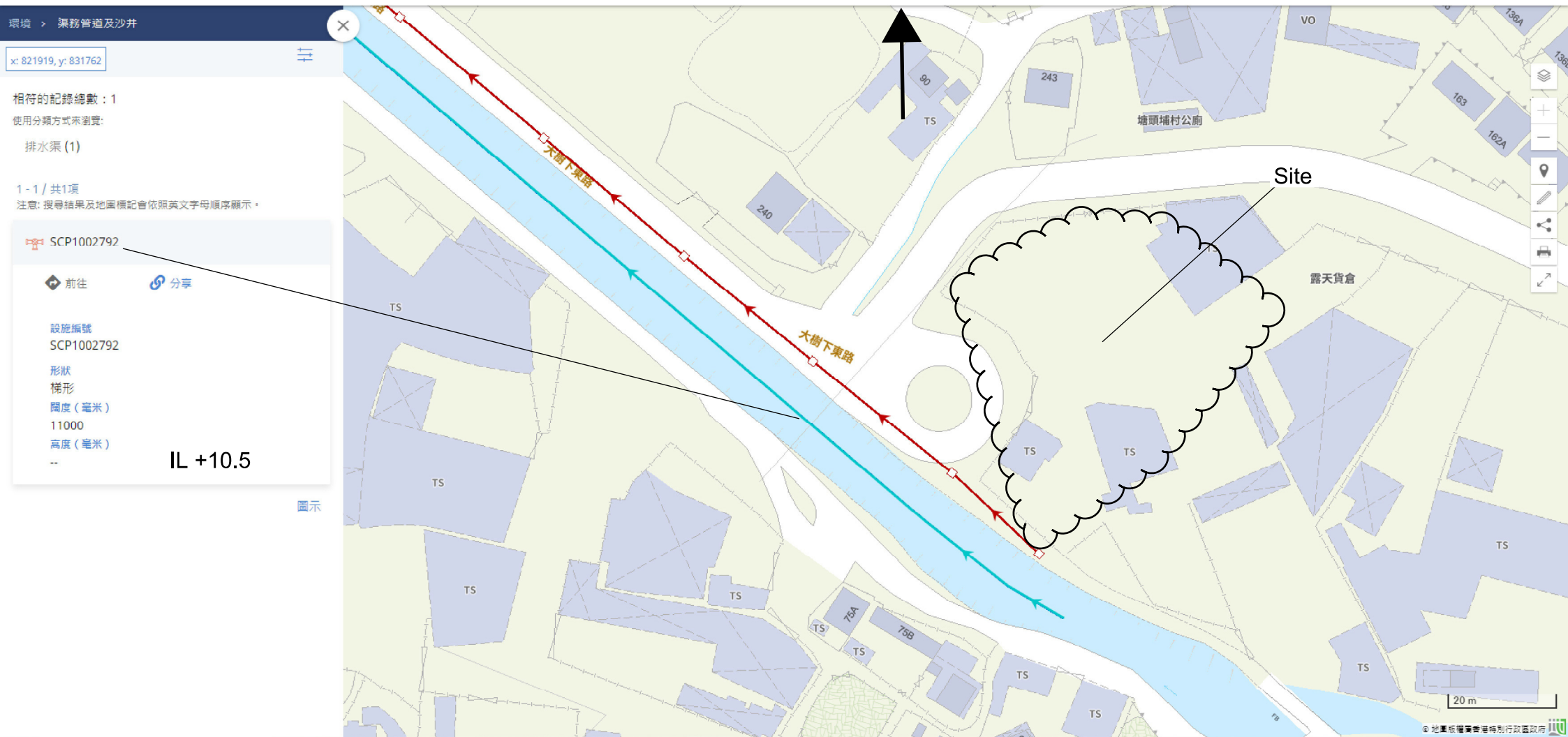


= EX 400mm Concrete Pipe (Stormwater)

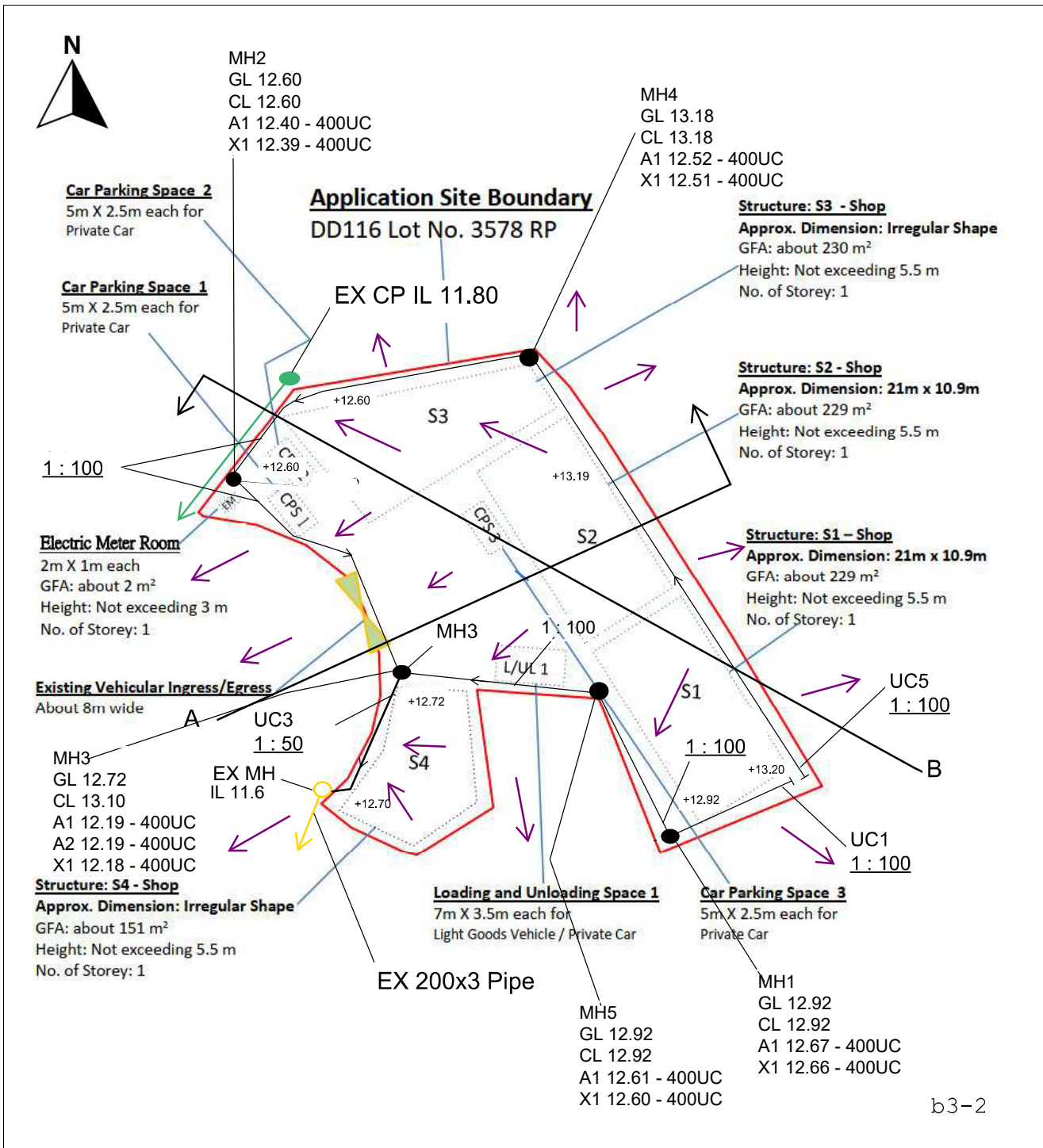


= EX 200x3 Pipe (Stormwater)

Site Location & EX Drainage
b1-2



EX Nullah Location Plan b2-2



b3-2

Project :

Proposed Temporary Structures for Shop and Services Use for a Period of 3 Years at Remaining Portion of Lot No. 3578, in D.D. 116, Tong Tau Po, Yuen Long, New Territories.

Drawing Title:

Proposed Drainage (Temporary)
(Stormwater) 三年臨時雨水渠

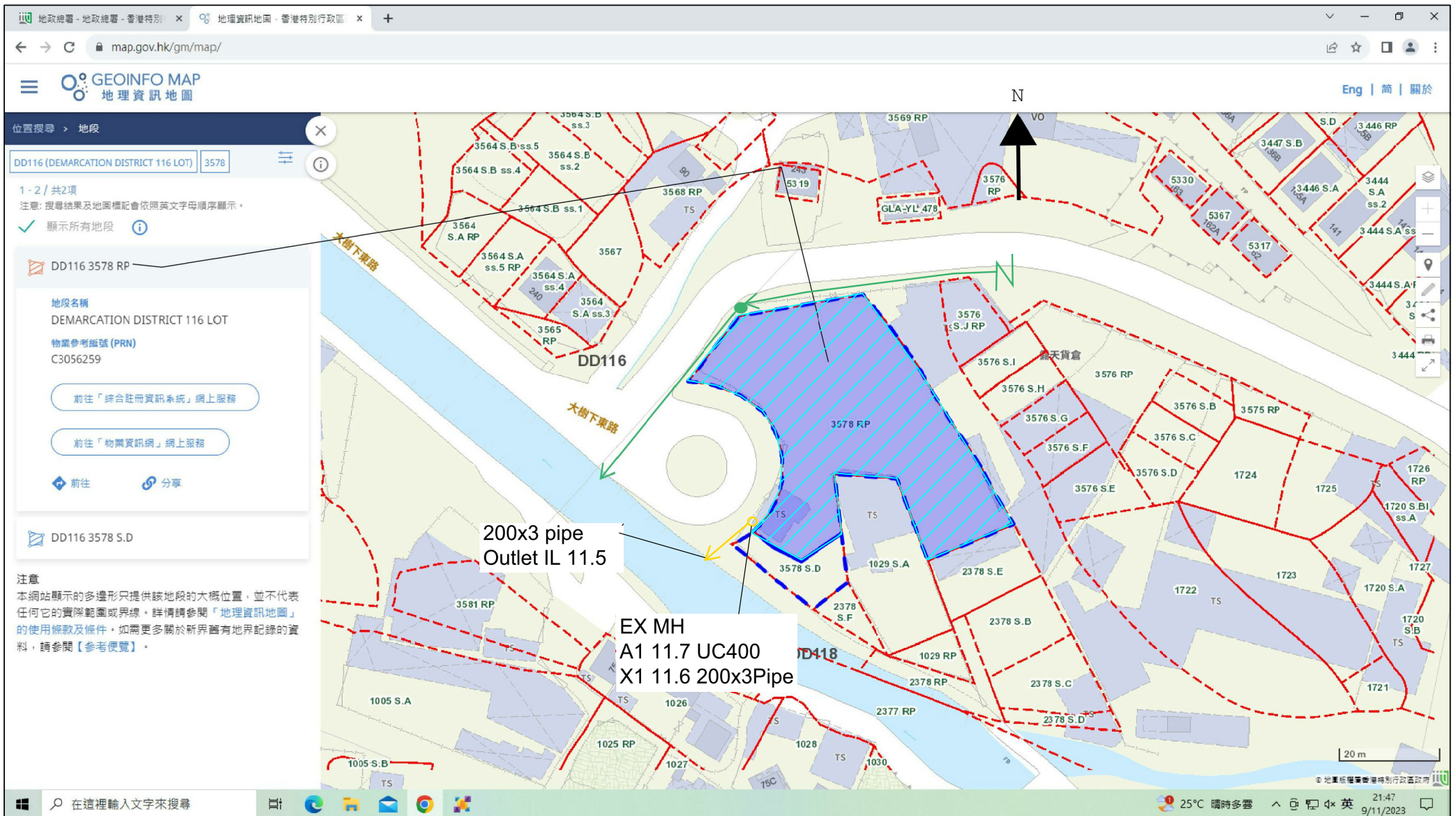
LEGEND :

- EX MH
- Proposed MH Cross Fall
- Proposed 400UC
- EX 400 Concrete
- Proposed 400UC
-
- Site Boundary

DD116 LOT 3578RP Temporary Storm Drainage Schedule

TYPE / DRAWING	MH no	GL	CL	A I.L	X I.L	TO MH / Existing	% Fall
DS_1078A	MH1	12.92	12.92	A1 12.67 - 400UC	X1 12.66 - 400UC	MH5	1 : 100
DS_1078A	MH2	12.60	12.60	A1 12.40 - 400UC	X1 12.39 - 400UC	MH3	1 : 100
C2406/1 尾井	MH3	12.72	13.10	A1 12.19 - 400UC A2 12.19 - 400UC	X1 12.18 - 450UC	EX MH IL 11.6	1 : 100
DS_1078A	MH4	13.18	13.18	A1 12.52 - 400UC	X1 12.51 - 400UC	MH2	1 : 100
DS_1078A	MH5	12.92	12.92	A1 12.61 - 400UC	X1 12.60 - 400UC	MH3	1 : 100
400UC	UC1	13.20	13.20		X1 12.90 - 400UC	MH1	1 : 100
400UC	UC3	12.60	12.60		X1 12.18 - 450UC	EX MH 11.6	1 : 50
400UC	UC5	13.20	13.20		X1 12.90 - 400UC	MH2	1 : 100
EX MH A1 11.6		12.4	12.40		X1 11.6 - 200x3 Pile	SCP1002792	1 : 29

b4-2



● = EX CP (Stormwater)

→ = EX 400mm Concrete Pipe (Stormwater)

▨ = Catchment area 1765.7sqM

○ = EX MH (Stormwater)

→ = EX 200x3 Pipe (Stormwater)

Catchment area Plan
b5-2

Rational method

$Q = C i A$

i = rainfall intensity

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

DD116 LOT 3578RP
Proposed 400UC

L =	0.14465
H =	109.1
A =	0.3
	1765.7

Concrete	0.14465	
L =	109.1	m
H =	0.3	m
A =	1765.7	m ²

$t_0 = 9.51 \text{ min}$

10 Year Rainwater Intensity	intensity	170	m/hr			
		0.17	/	3600	*	1.16
	intensity =	5.47778E-05 m/s				

$Q_p = C x i x A$

C =	0.95	
i =	5.48E-05	m/s
A =	1765.7	m ²

$Q_p = 0.091885 \text{ m}^3/\text{s}$

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Q(m discharge of open channel) $0.182337 \text{ m}^3/\text{s}$



Area	=	0.4 * 0.3	0.12
P	=	0.3 + 0.4	1
R _n	=		0.12
n	=		0.016 Concrete
S ₀ = H/L	0.01	1	0.01



DD116 LOT 3578RP

$Q(\text{m}^3/\text{s}) = 0.182337 \text{ m}^3/\text{s}$

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$Q(\text{m}^3/\text{s}) = 0.182337 \text{ m}^3/\text{s}$

10 Year Rainwater Intensity 225mm channel

$Q(\text{m}^3/\text{s}) = 0.091885 \text{ m}^3/\text{s}$

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% = 0.182337

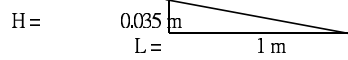
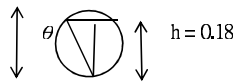
% = 0.091885

$Q(\text{m}^3/\text{s}) = 50.4 \%$ OK

b6-2

EX 200mm x3 Concrete PiPe D.D.116

D = 0.2



S = 0.035

$$\cos \theta = \frac{h - (0.18 * D)}{0.2 * D} = 0.8 = 60^\circ$$

S = H/L					=	0.035	m
P = 2/3 * 3.141592654 * D					=	0.41908846	m
A = 2/3 * (3.141592654/4 * D^2) + (D^2/4 * sin theta * cos theta)					=	0.025161778	m ²
R _n = A / P					=	0.0600393	m
n = 0.014					=	0.014	
Q = 1/n * A * R _n ^{-2/3} * S ^{1/2}					=	0.051555032	m ³ /S

DD116 LOT 3578RP to (EX 200x3 pipe)

% = 0.154665

% = 0.091885

Q(m³/s) = 59 % OK

Drainage Impact assessment report of 200mm pipe is Acceptable

DD116 LOT 3578RP

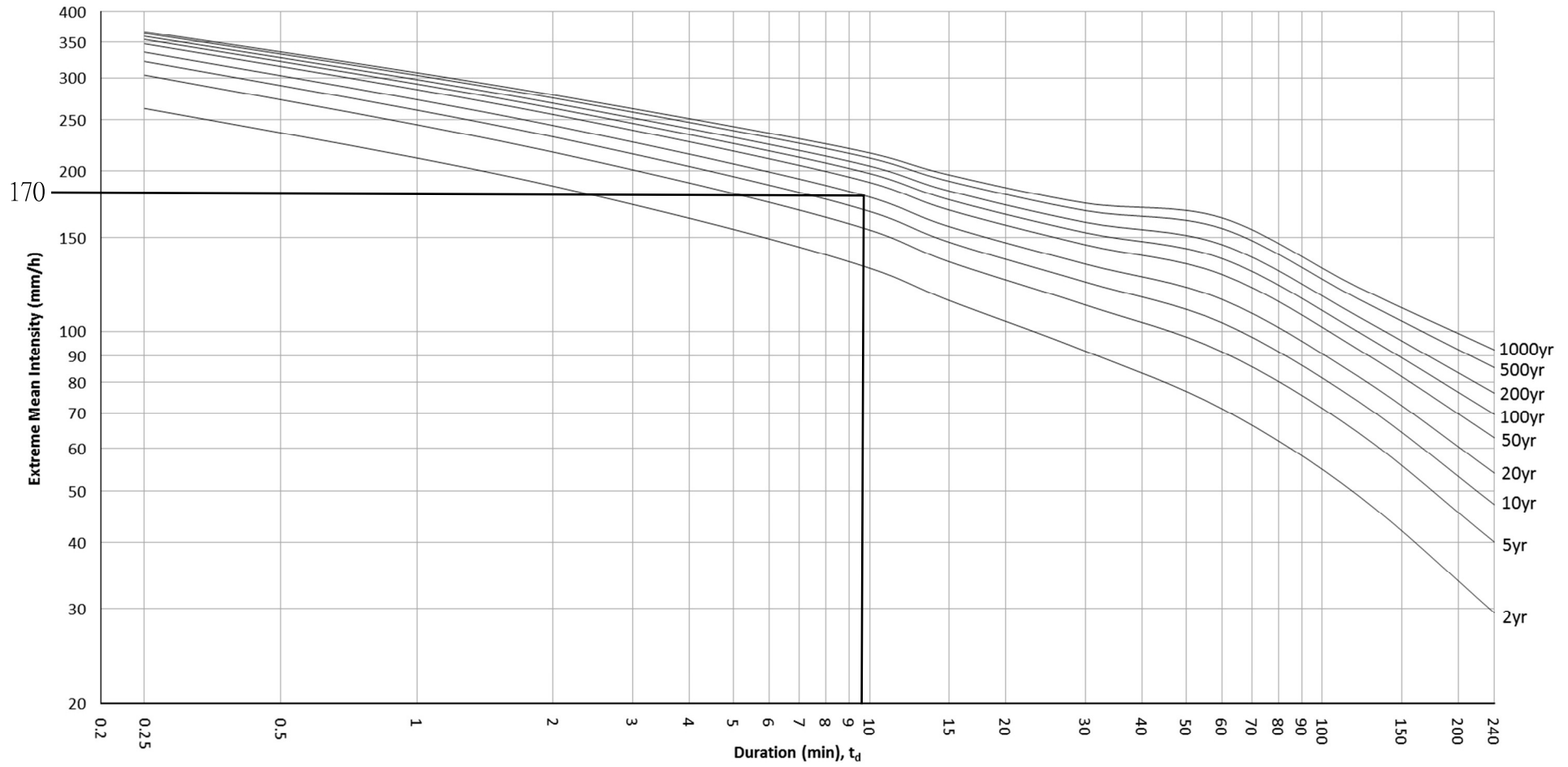
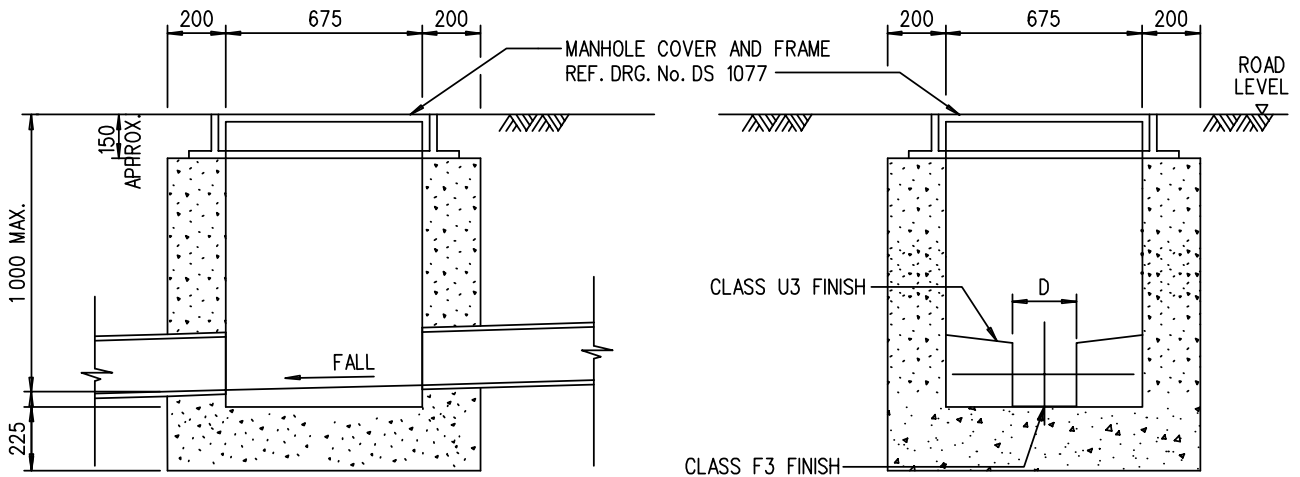


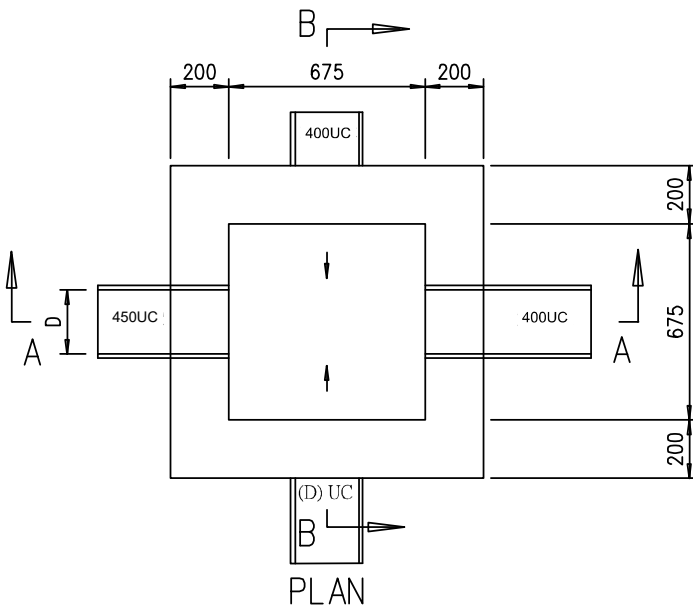
Figure 4a – Intensity-Duration-Frequency Curves of HKO Headquarters
(for durations not exceeding 4 hours)

Proposed MH1~MH2



SECTION A-A

SECTION B-B



PLAN

NOTES:

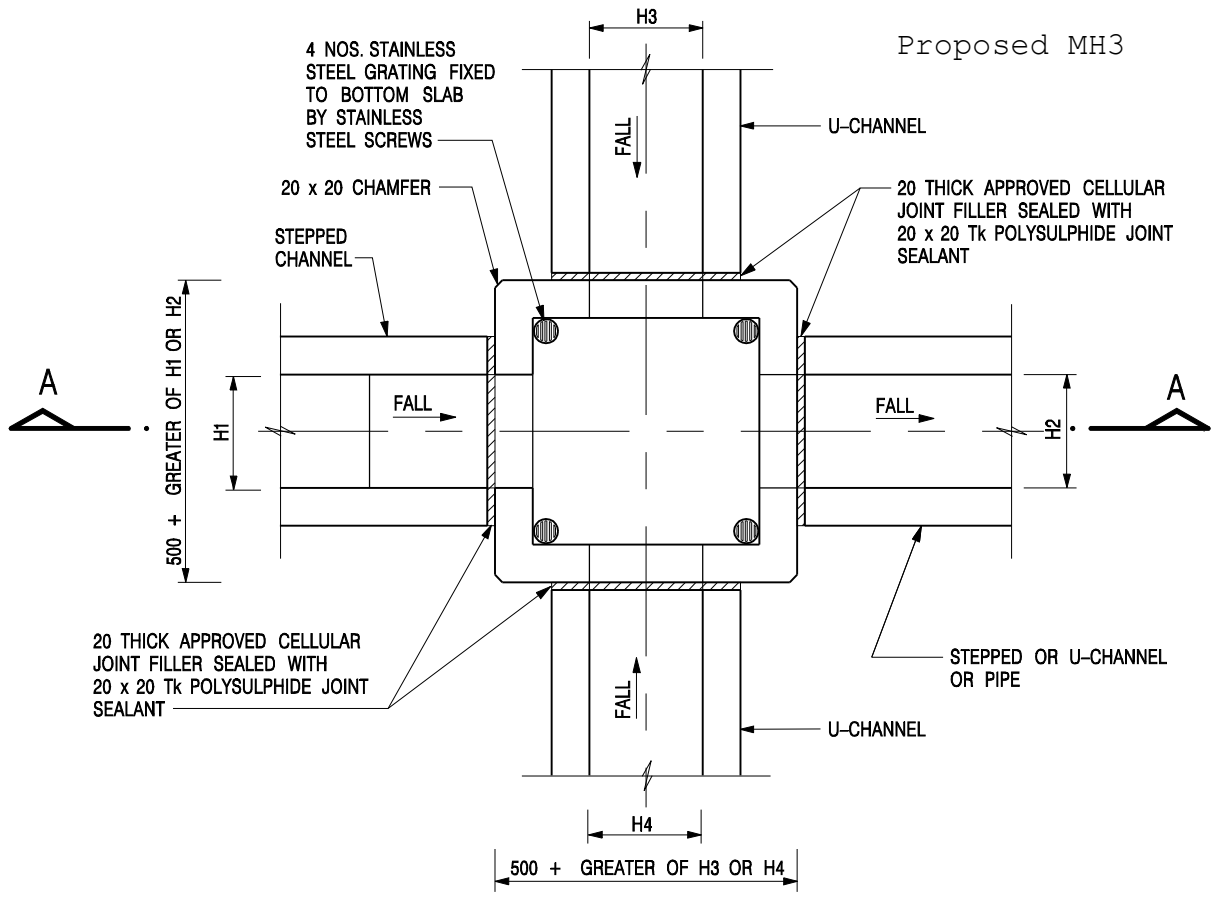
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. DIAMETER : 200 TO 450mm
3. NORMAL RANGE : MAX. 1000 mm (MEASURED FROM ROAD LEVEL TO LOWEST INVERT)
4. USED IN : STORMWATER DRAIN AND SEWER
5. JUNCTION : POSITION OF JUNCTION TO BE DETERMINED IN INDIVIDUAL CASE.
6. TOP TREATMENT : SEE DRG. No. DS 1032
7. FOUNDATION : FOUNDATION OF MANHOLE VARIES WITH SITE CONDITION. THEREFORE, IT SHOULD BE DETERMINED ON SITE BY THE ENGINEER.
8. CONCRETE : GRADE 30/20
9. COVER AND FRAME NOT SHOWN ON PLAN FOR CLARITY

b7-2

	NEW ISSUE	ORIGINAL SIGNED	15.8.2007
REV.	DESCRIPTION	SIGNATURE	DATE
REFERENCE	DRAWING No.		
SCALE	DS 1078A		
	1 : 25		

STANDARD MANHOLE
TYPE C1

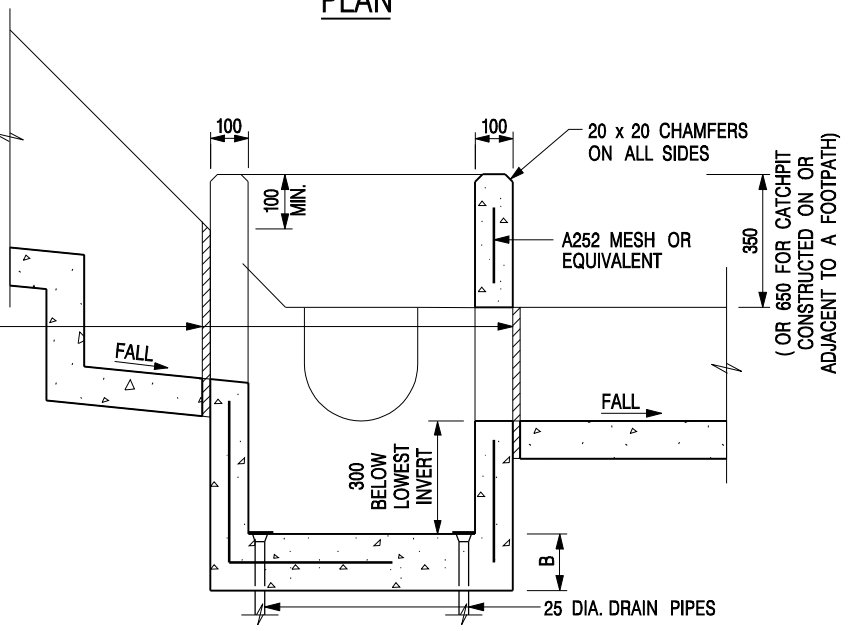
Proposed MH3



PLAN

NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
150 - 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.

b8-2

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

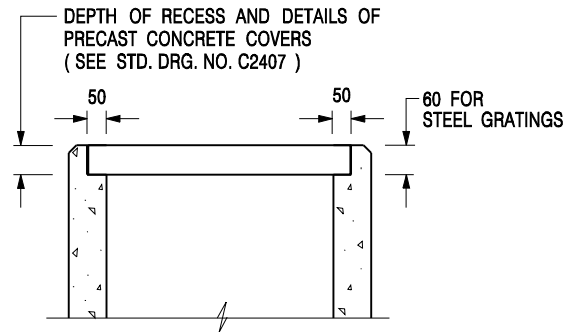
CATCHPIT WITH TRAP
(SHEET 1 OF 2)



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 /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.

b8-2

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

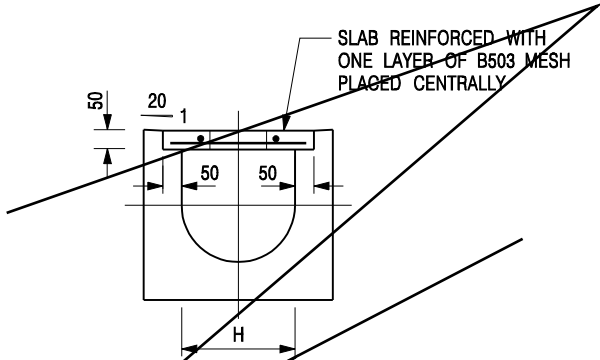
**CATCHPIT WITH TRAP
(SHEET 2 OF 2)**



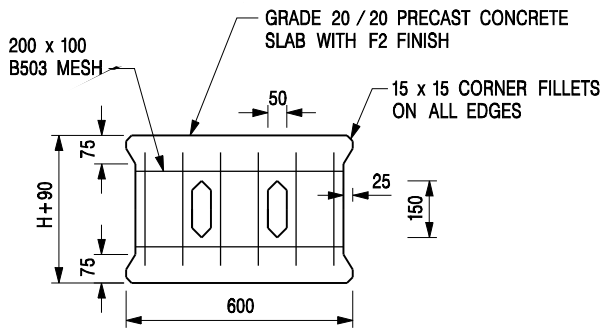
**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE 1 : 20**DRAWING NO.****DATE** JAN 1991**C2406 /2A**

Proposed 400UC / 450UC



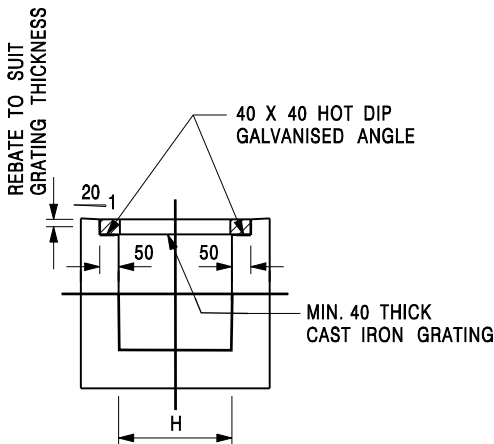
TYPICAL SECTION



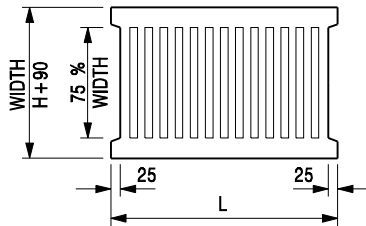
PLAN OF SLAB

U-CHANNELS WITH PRECAST CONCRETE SLABS

(UP TO H OF 525)



TYPICAL SECTION



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

CAST IRON GRATING

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

U-CHANNEL WITH CAST IRON GRATING

(UP TO H OF 525)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. H=NOMINAL CHANNEL SIZE.
3. ALL CAST IRON FOR GRATINGS SHALL BE GRADE EN-GJL-150 COMPLYING WITH BS EN 1561.
4. 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.

b9-2

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

DRAWING NO.

DATE JAN 1991

C2412E

_ Cross Fall



= EX CP (Stormwater)

○ = EX MH (Stormwater)



=EX 400mm Concrete Pipe (Stormwater)



= EX 200x3 Pipe (Stormwater)

1



Site

2



Site
Hoarding

3



4



Site
Hoarding

5



Site
Hoarding

6



Site
Hoarding

龜背Cross Fall

7



東南面LOTs
有自己的
雨水去水系統

8



東南面LOTs
有自己的
雨水去水系統

9

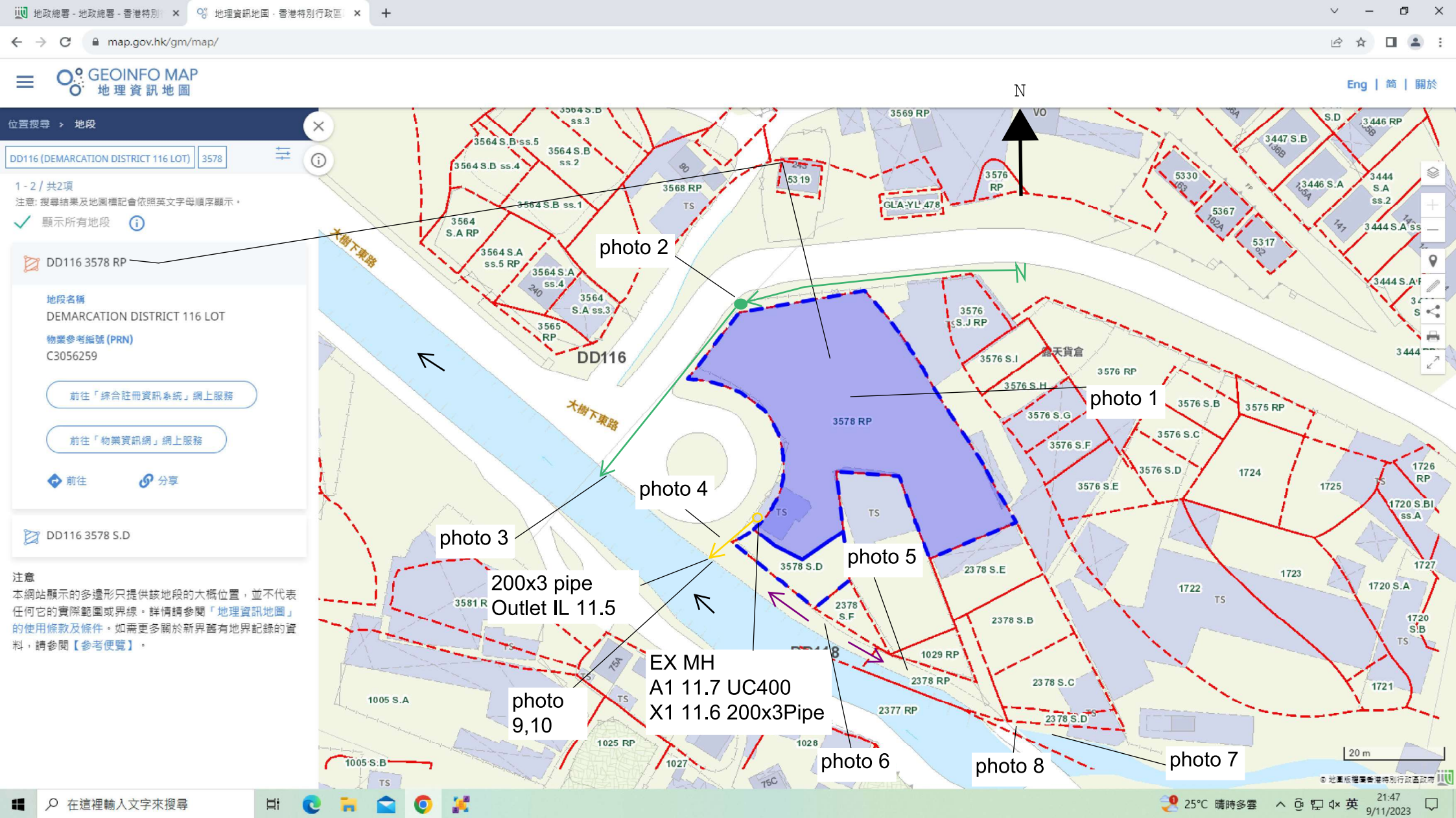


EX 200x3
Pipe

10

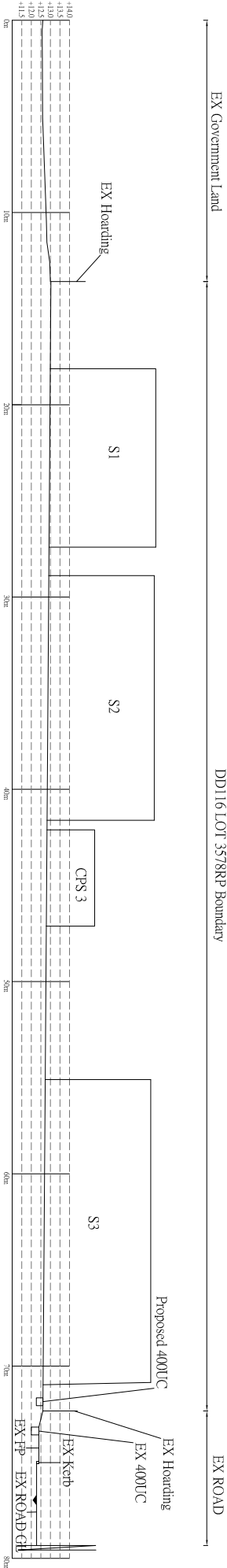
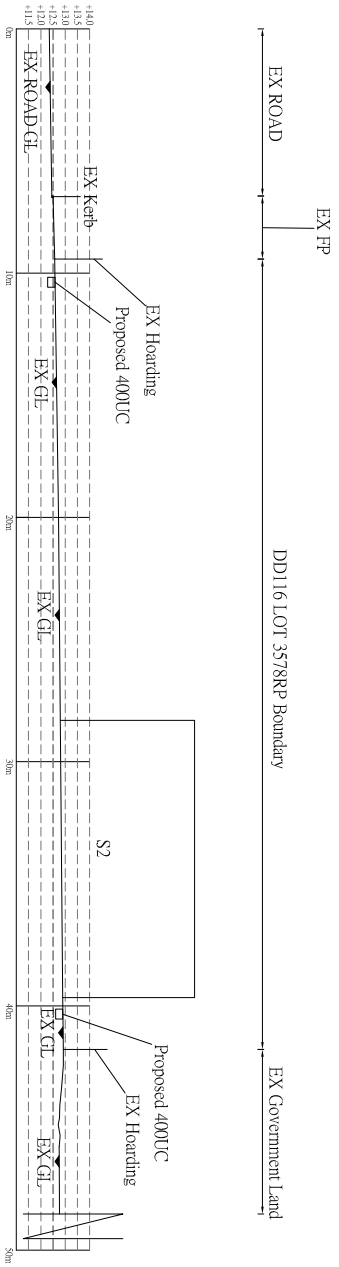


EX 200x3
Pipe



- = EX CP (Stormwater)
- = EX MH (Stormwater)
- = EX 400mm Concrete Pipe (Stormwater)
- = EX 200x3 Pipe (Stormwater)

Photo Location Plan
c2-2



1-2 / 共2項
注意：搜尋結果及地圖標記會依照英文字順序顯示。
顯示所有地段

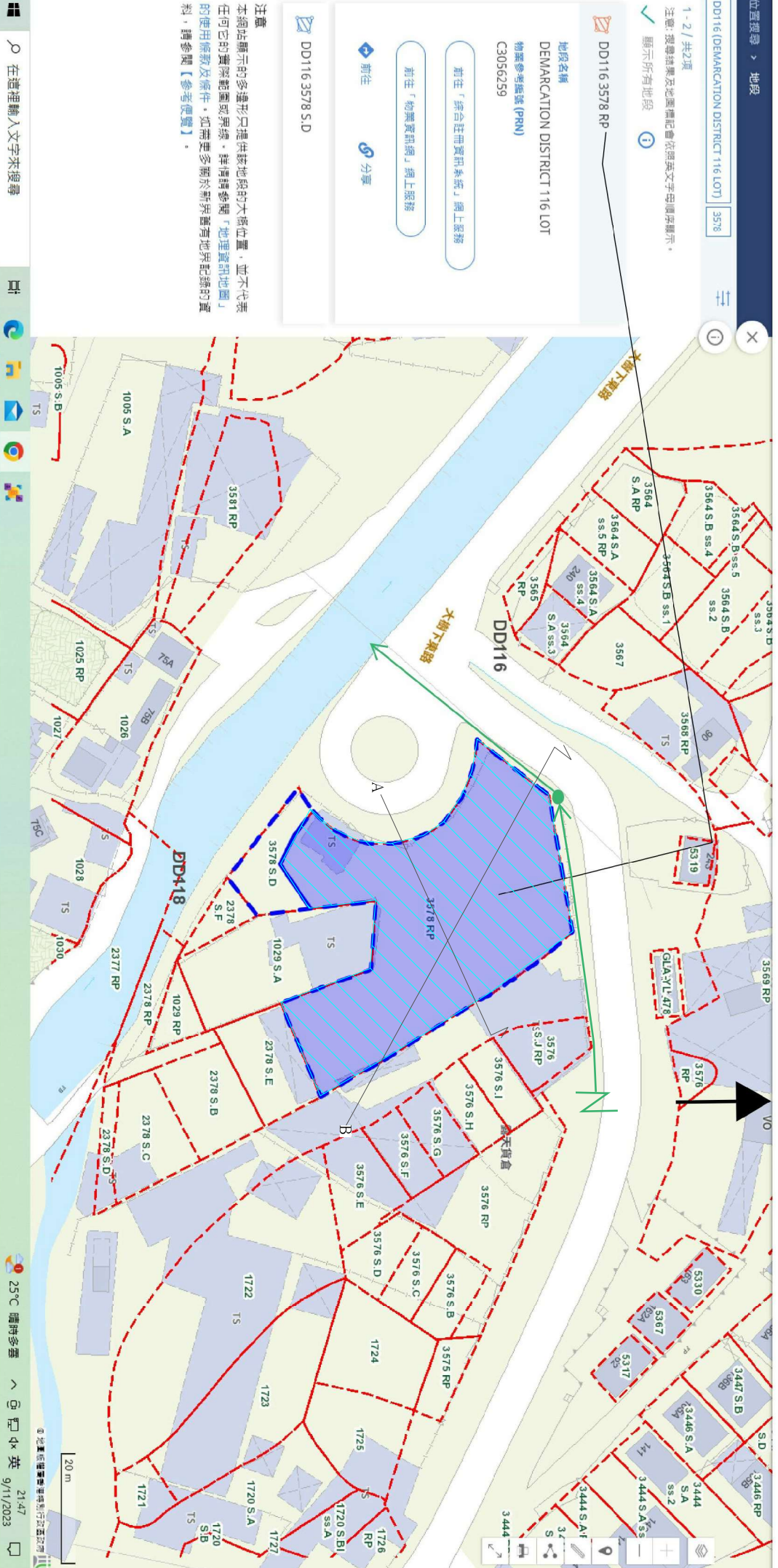
DD116 3578 RP

地段名稱
DEMARCATION DISTRICT 116 LOT
物業參考編號 (PRN)
C3056259

前往「綜合註冊資訊系統」網上服務
前往「物業資訊網」網上服務

前往
分享

注意
本網站顯示的多邊形只提供該地段的大概位置，並不代表任何它的實際範圍或界線。詳情請參閱「地理資訊地圖」的使用條款及條件，如需更多關於新界原有地界記錄的資料，請參閱【參考便覽】。



= EX CP (Stormwater)



= EX 400mm Concrete Pipe (Stormwater)



= EX MH (Stormwater)



= EX 200x3 Pipe (Stormwater)

Section Plan
d2-2