

規 劃 署

粉嶺、上水及元朗東規劃處
新界荃灣青山公路 388 號
中染大廈 22 樓 2202 室



Planning Department

Fanling, Sheung Shui & Yuen Long East
District Planning Office
Unit 2202, 22/F, CDW Building,
388 Castle Peak Road, Tsuen Wan, N.T.

來函檔號 Your Reference
本署檔號 Our Reference () in TPB/A/NE-KTS/498
電話號碼 Tel. No. : 3168 4072
傳真機號碼 Fax No. : 3168 4074

By Post and Fax

8 March 2023

Dear Sir/Madam,

Planning Application No. A/NE-KTS/498

**Proposed Temporary Place of Recreation, Sports or Culture
(Horticultural Learning Centre) for a Period of 3 Years and
Filling of Land within "Agriculture" Zone, Lot 1372 RP (Part) in D.D. 100,
Tsiu Keng, Kwu Tung South, New Territories**

Compliance with Approval Condition (d) – the submission of a drainage proposal

I refer to your email of 23.12.2022 submitting a set of documents for compliance with the captioned approval condition. Relevant department has been consulted on your submission. Your submission is considered:

- ☒ Acceptable. The captioned condition has been complied with. Please find the detailed comments in Appendix.
- ☐ Acceptable. Since the captioned condition require both the submission and implementation of the proposal, it has not been fully complied with.
- ☐ Not acceptable. The captioned condition has not been complied with.

Should you have any queries on the departmental comments, please contact Mr. Keith LIU (Tel: 2300 1595) of Drainage Services Department direct.

Yours faithfully,

(Anthony LUK)
District Planning Officer/
Fanling, Sheung Shui & Yuen Long East
Planning Department

- 2 -

C.C.

CE/MN, DSD

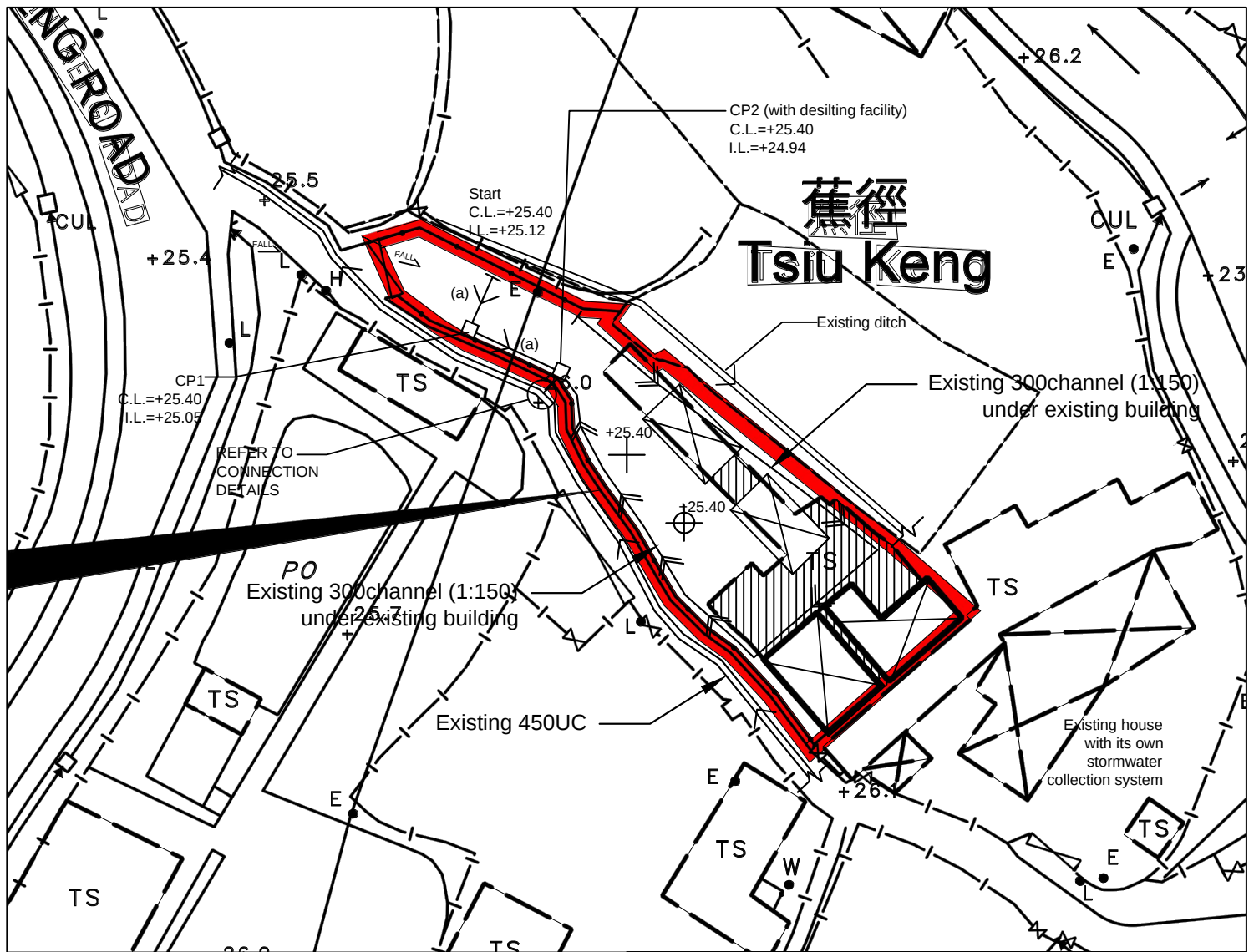
(Attn.: Mr. Keith LIU)

Fax: 2770 4761

AL/FS/wm

Appendix**Comments of the Chief Engineer/Mainland North, Drainage Services Department:**

The applicant should provide a set of photos of the existing U-channels at the perimeter of the site for our record.



SITE AREA = 631 SQ.M

Q = 0.278 CIA
 = 0.278*0.95*250*631/1000000
 = 0.0417 M3/S
 = 2500 lit/min

PROVIDE 225UC (1:100) IS OK (FIG. 8.7)
 and
 EXISTING 300CHANNEL (1:150) UNDER
 EXISTING BUILDING IS OK (FIG.8.7)

Note:

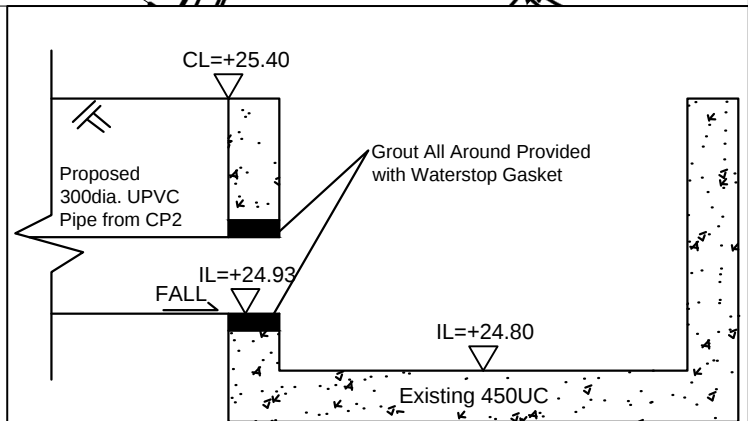
1. Catchpits (CP2) with desilting facility shall follow CEDD standard drawing No. C2406I.

2. Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.

3. The site has no runoff from adjacent area.

LEGEND

- Proposed Catch Pit
- Proposed 225UC (1:100) with Cast Iron Cover
- Existing 300channel (1:150) under existing building
- Existing 450UC
- Existing Building
- Existing Cover Area
- Proposed Level
- Existing Level



Connection Details

正宏工程顧問公司

CHING WAN ENGINEERING CONSULTANTS CO.

Project:

Proposed Temporary Place of Recreation Sports or Culture (Horticultural Learning Centre) for a Period of 3 Years at Lots 1372RP (Part) in D.D. 100, Tsiu Keng, Kwu Tung South, New Territories

(Application No.:A/NE-KTS/498)

Title:

Drainage Proposal

D01

Drawn by:

DM

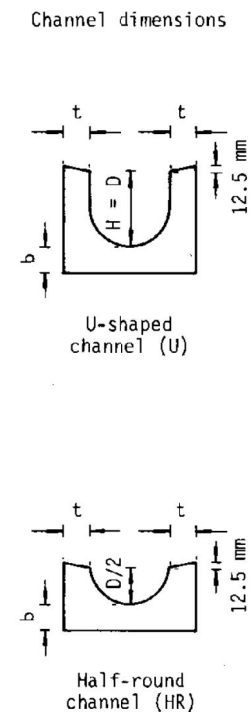
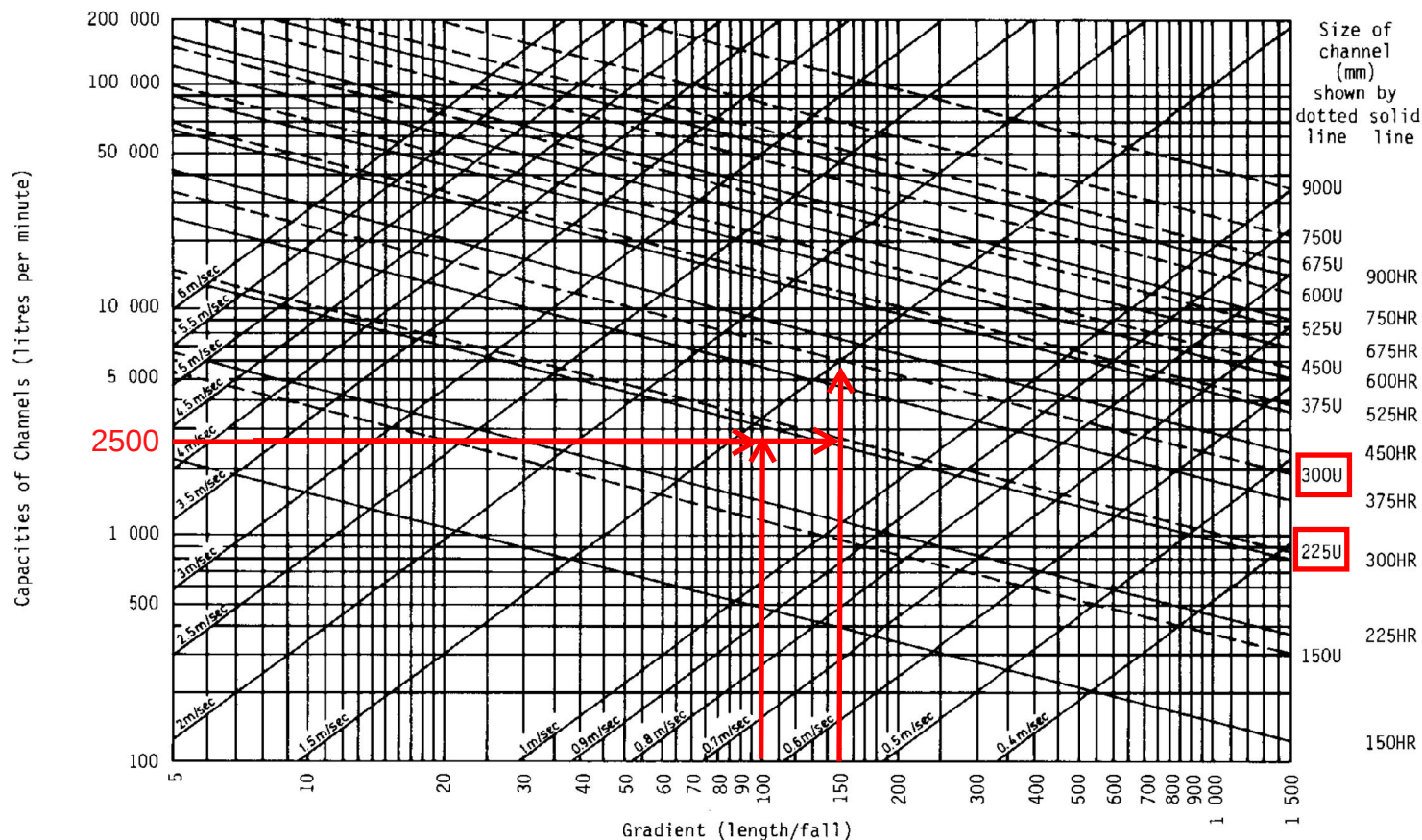
Date:

22-12-2022

Check by:

DM

Scale:



DESIGN METHOD USING CHART

(a) Normal channel Solution

1. Runoff
2. Gradient
3. Channel size
4. Velocity

Example :

1. Enter Runoff = 4 000 litre/min.
2. Enter Gradient = 1 in 40
3. Read channel required = 225 U or 300HR
4. Read velocity = 2.2 m/sec. (<4 m/sec. ∴OK)

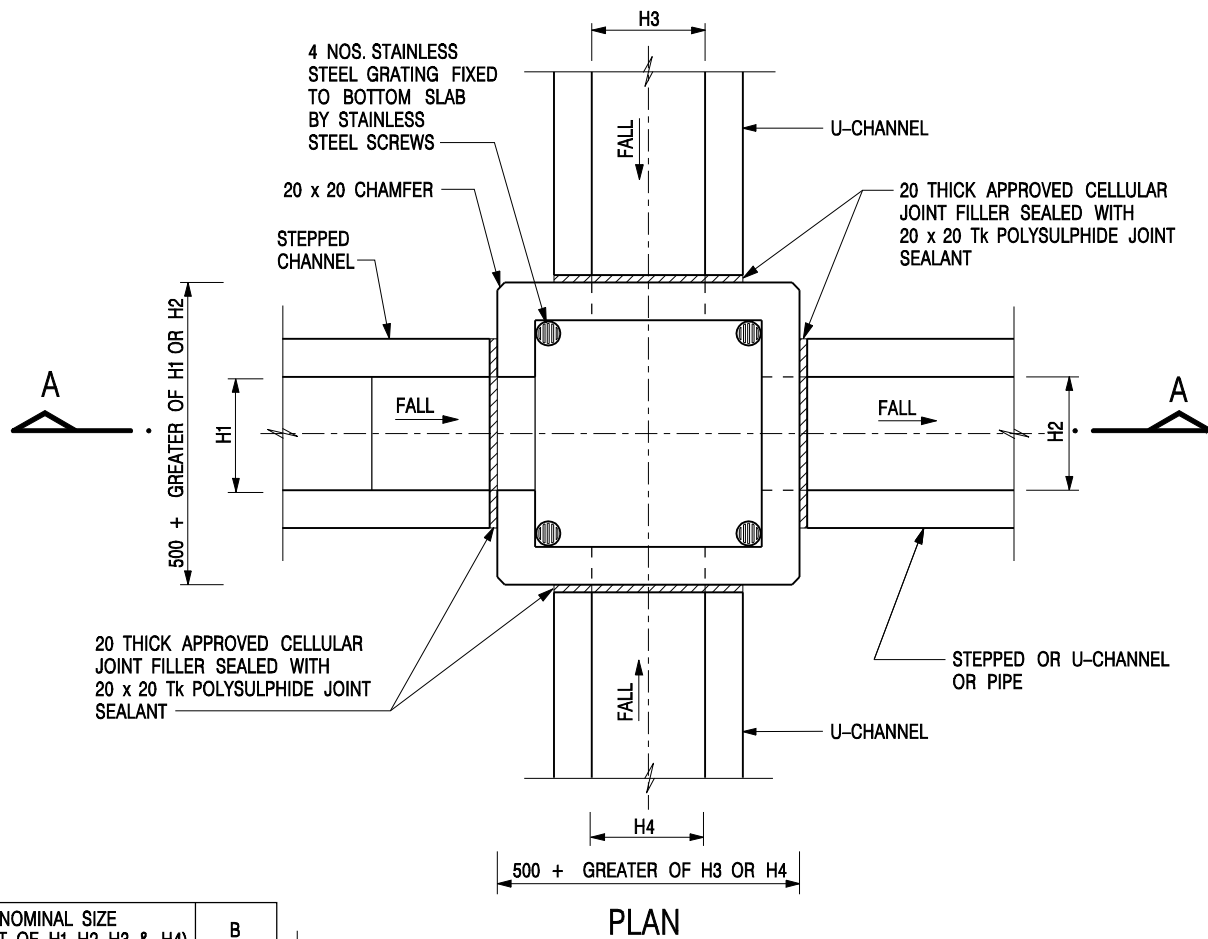
(b) Stepped channel Solution

2. Runoff
3. Channel size
4. Gradient
1. Velocity

Example :

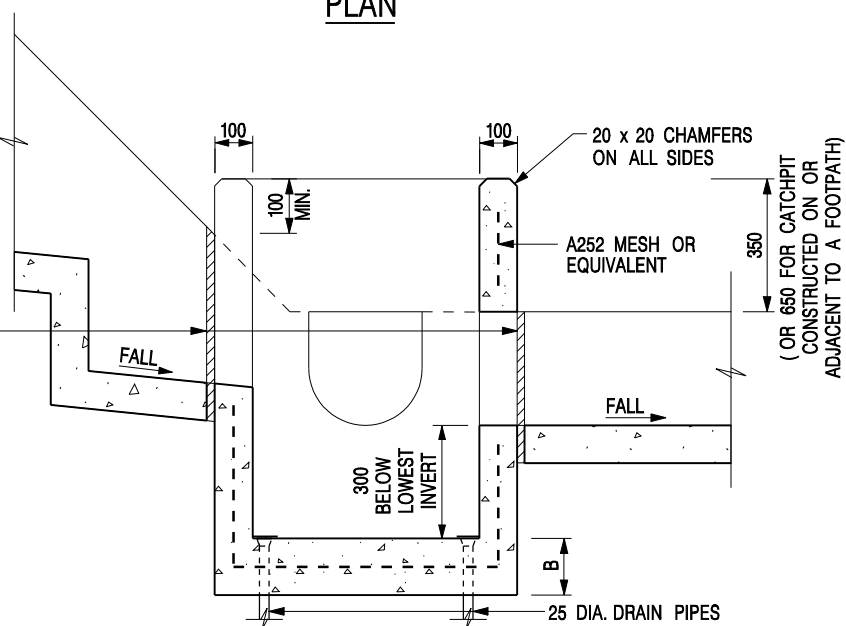
1. Enter Velocity = 5 m/sec.
2. Enter Runoff = 20 000 litre/min.
3. Read required channel size = 300U
4. Read required gradient = 1 in 14

Figure 8.7 - Chart for the Rapid Design of Channels



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.

CATCHPIT WITH TRAP
(SHEET 1 OF 2)

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



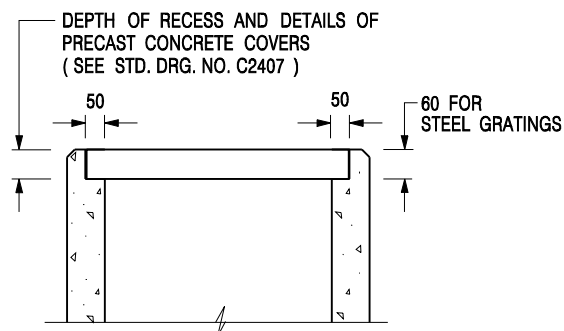
**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

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

DATE JAN 1991

DRAWING NO.

C2406 /2

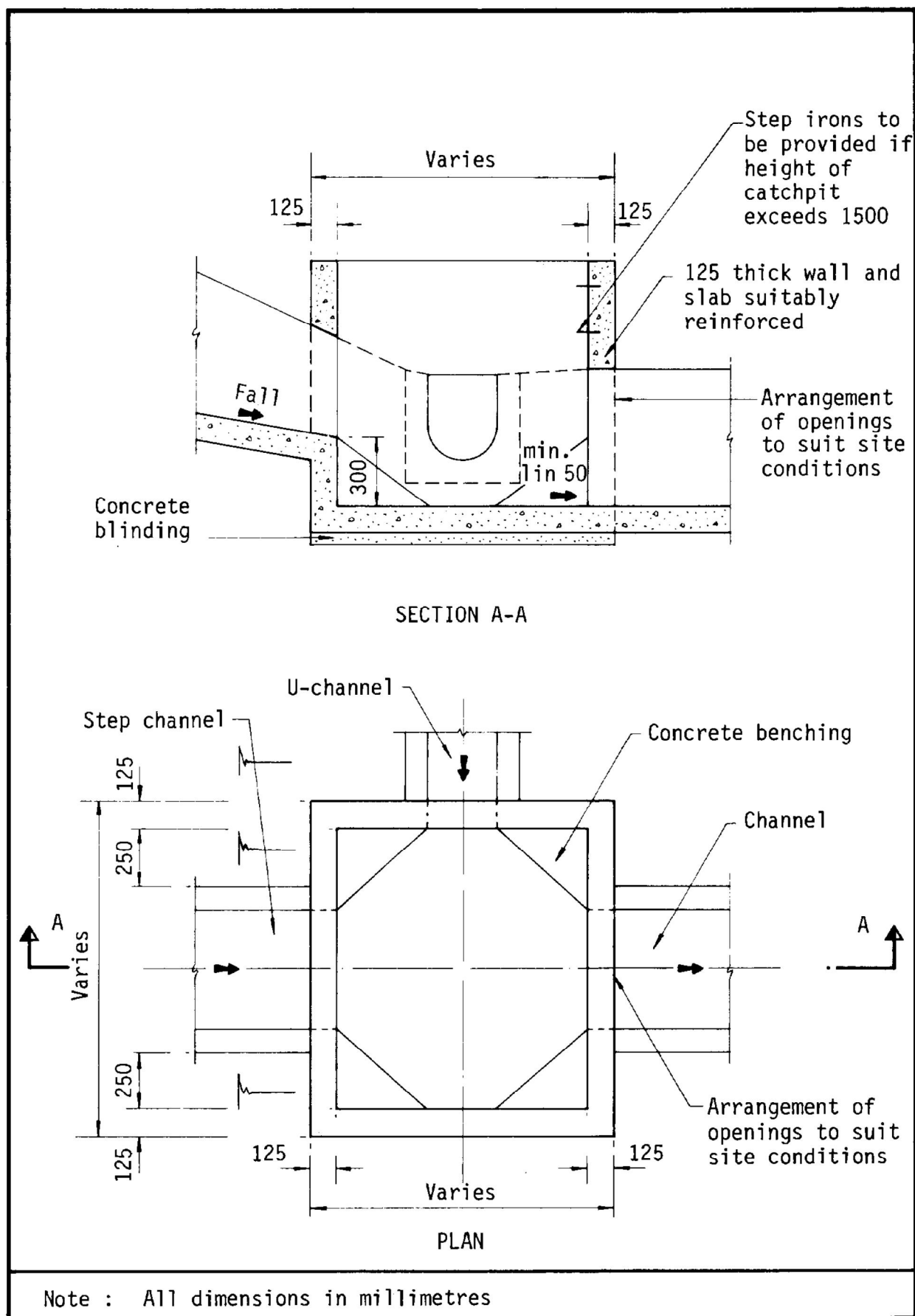
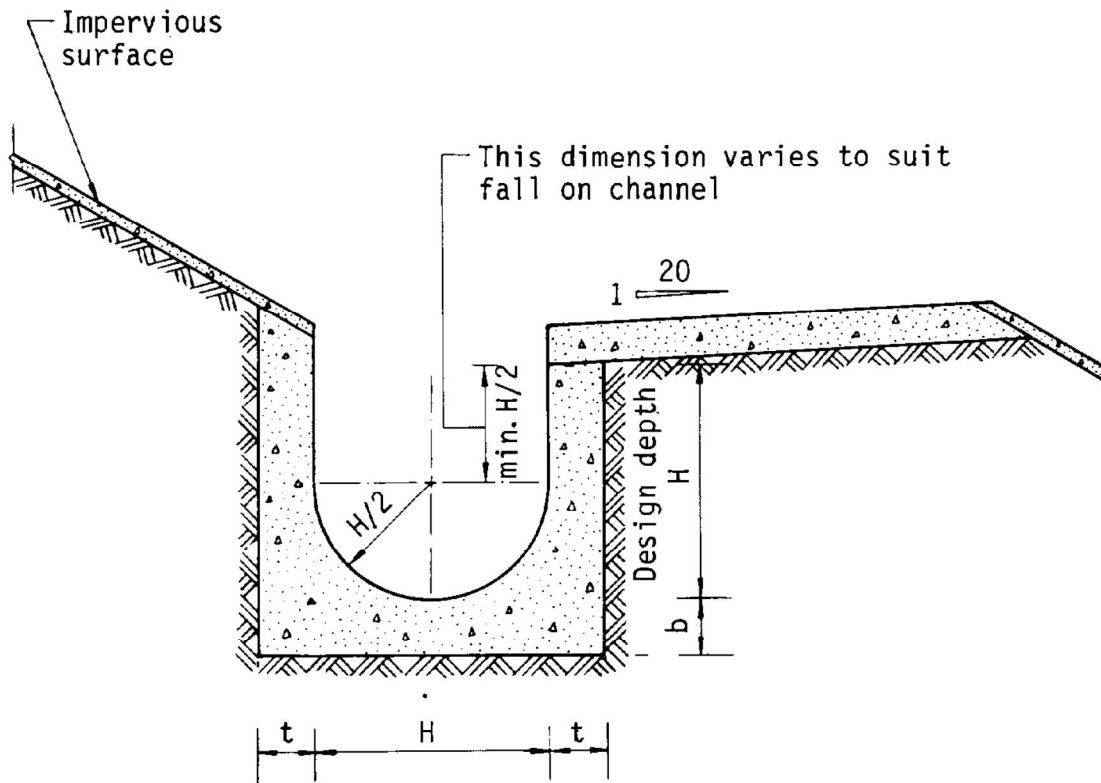


Figure 8.10 - Typical Details of Catchpits



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