

Drainage Assessment Report

Project:

Proposed Village Housing

Location:

D.D. 293 Lot Nos. 662 S.A, 664 S.B, 668 S.B, 669 RP & 664 S.A, 667 S.C, 668 S.A, 669 S.B, 671 S.B & 654 S.A RP, 658 RP, 659, 660 RP, 661 RP & 658 S.B, 658 S.C, 660 S.B, 660 S.C, 661 S.B, 662 S.B, 662 S.C, To Kwa Peng, Sai Kung North, New Territories.

Proposed by

M&D Planning and Construction Consultant Ltd.

Date: 25 June 2026

1. Introduction

This report assesses the drainage design for the proposed village housing development, with particular focus on the use of a **surface channels and 1200mm open channel** for stormwater management.

2. Design Criteria

2.1. Gravity Pipe

In General, drainage design will be carried out in accordance with the criteria set out in the Stormwater Drainage Manual (Drainage Services Department, 2018) and Corrigendum No. 1/2022 and Corrigendum No. 1/2024. The proposed design criteria to be adopted for design of this stormwater drainage and factors which have been considered are discussed below.

1. All hydraulic design is based on Stormwater Drainage Manual and Sewerage Manual published by Drainage Services Department and the relevant Building Regulations.
2. Return periods – The following Return Period has been adopted.

Stormwater drainage 1 in 200 years

3. Run-off estimated for internal storm drainage has been based on the Rational Method as recommended in the Stormwater Drainage Manual with a run-off coefficient of $C=0.95$ for paved area and $C=0.35$ for grassland. However, a standard time of entry five minutes under urban conditions has been adopted instead of using Brands by Williams formula to estimate the time of concentration as this was derived originally from data for moderately sized rural catchment and include flow time natural water courses.
4. Stormwater drains should be of concrete pipes with flexible joints.
5. Colebrook-White Equation and Manning's Equation are given below for calculation of flow velocity of pipes and u-channels respectively.

Colebrook-White Equation:
$$\bar{v} = -\sqrt{32gRS} \log\left(\frac{k_s}{14.8R} + \frac{1.255\bar{v}}{R\sqrt{32gRS_f}}\right)$$

Manning's Equation:
$$\bar{v} = \frac{R^{1/6}}{n} \sqrt{RS_f}$$

6. The roughness value used for

Precast Concrete Pipes in Colebrook White Equation $k_s = 0.6\text{mm}$

Manning's Equation $N = 0.018\text{mm}$

7. Wherever possible, the following limiting design velocities in pipelines will be used:-

Minimum Design Full-bore Velocity = 0.75 m/s

Maximum Design Full-bore Velocity = 4.00 m/s

2.2. U-Channel

The u-channels are designed adopting the same methodology as that for gravity pipes as detailed in Section 2.1. Manning's Equation will be adopted to evaluate the hydraulic capacities of the drainage channels.

3. Drainage Design

3.1. Drainage Catchment

The drainage catchment plan is included in **Appendix A**.

3.2. U-Channel Design

The hydraulic calculation of u-channels design is included in **Appendix B**.

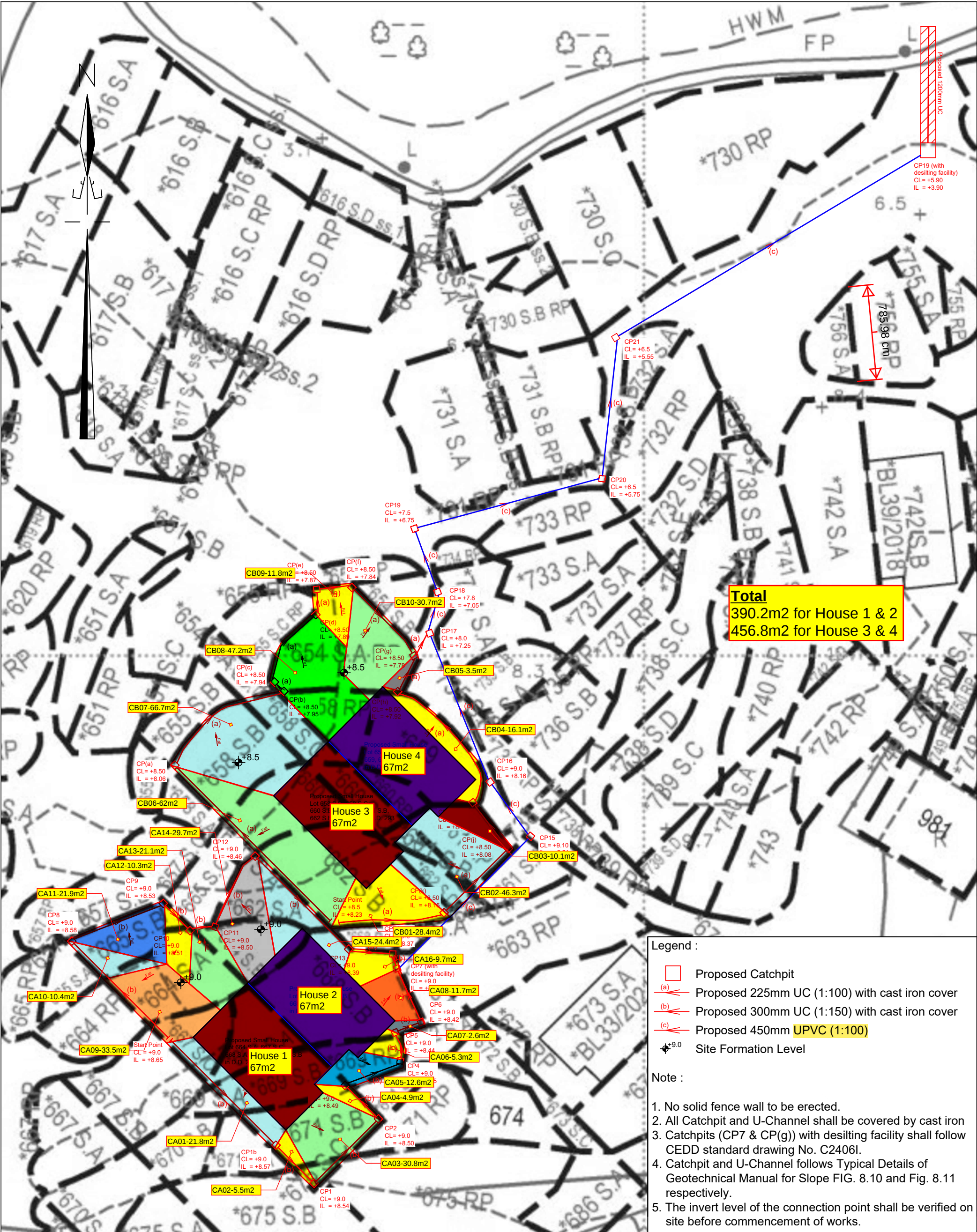
3.3. U-Channel and Catchpit Details

The U-Channel and Catchpit are included in **Appendix C**.

Appendix A
Catchment Plan

Appendix B
U-Channel Hydraulic Calculations

Appendix C
U-Channel and Catchpit Details



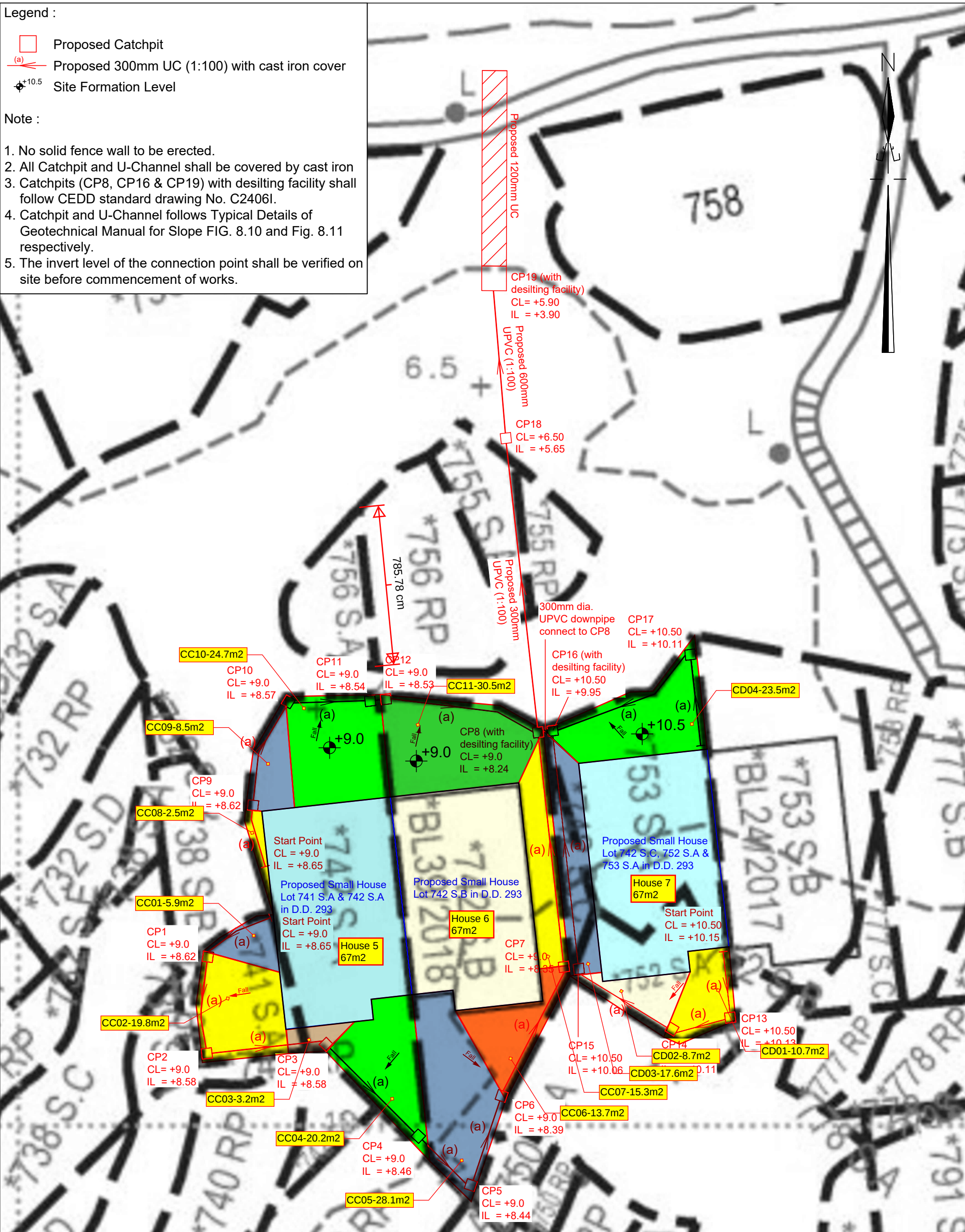
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	Date : 25-04-2026	Survey Sheet No. : 8-NE-16A
Drawing Title : Proposed Stormwater Drainage Plan	卓 弘 測 量 服 務 公 司 CHUO WANG SURVEY SERVICES COMPANY	

Legend :

-  Proposed Catchpit
-  Proposed 300mm UC (1:100) with cast iron cover
-  Site Formation Level

Note :

1. No solid fence wall to be erected.
2. All Catchpit and U-Channel shall be covered by cast iron
3. Catchpits (CP8, CP16 & CP19) with desilting facility shall follow CEDD standard drawing No. C2406I.
4. Catchpit and U-Channel follows Typical Details of Geotechnical Manual for Slope FIG. 8.10 and Fig. 8.11 respectively.
5. The invert level of the connection point shall be verified on site before commencement of works.



Project Title : D.D. 293 Lot Nos. 741 S.A, 742 S.A & 742 S.B & 742 S.C, 752 S.A, 753 S.A, To Kwa Peng, Sai Kung North, New Territories.

Scale : Not to scale

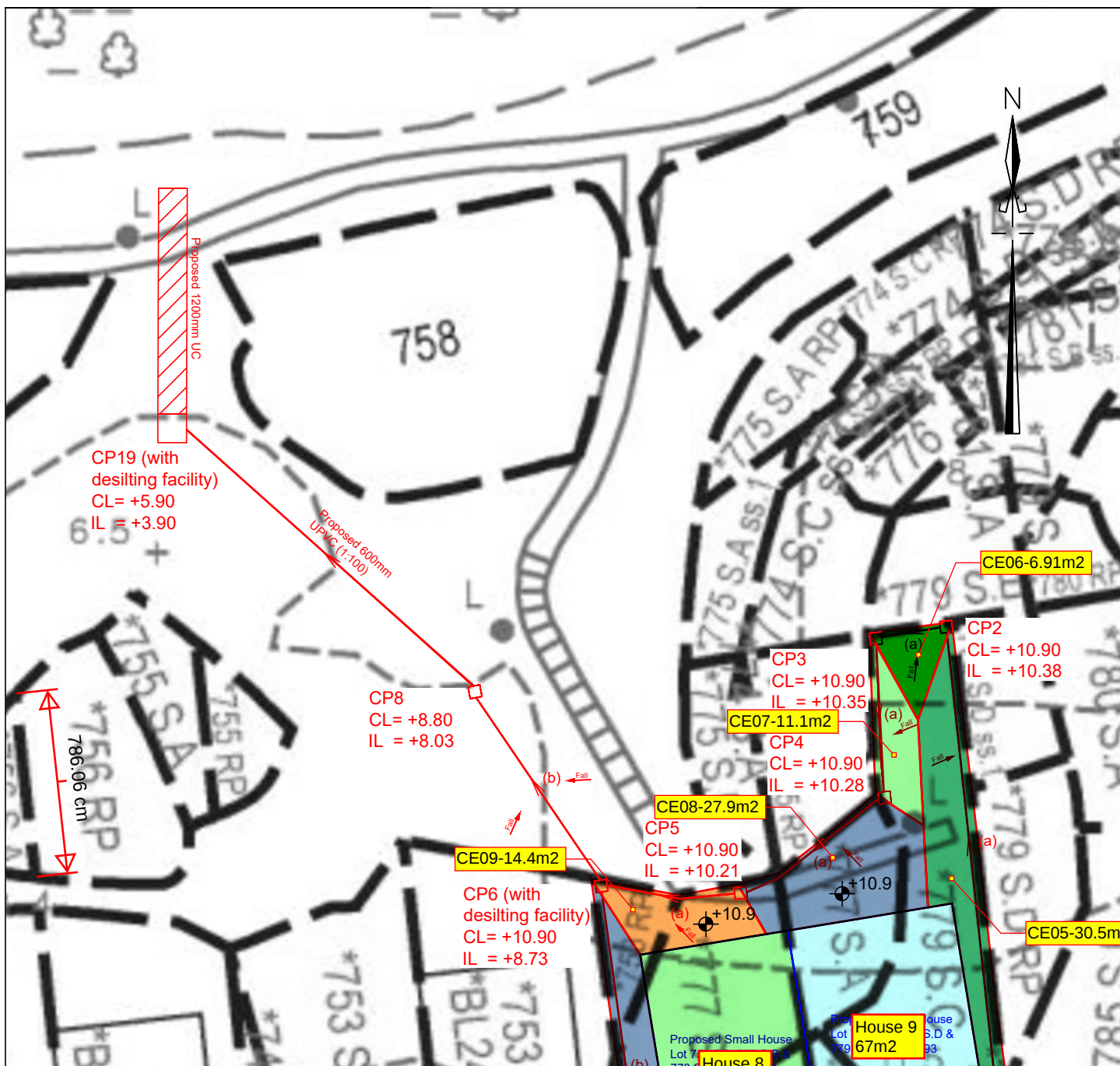
Date : 25-04-2026

Plan No. : CW/TKP/DP/01

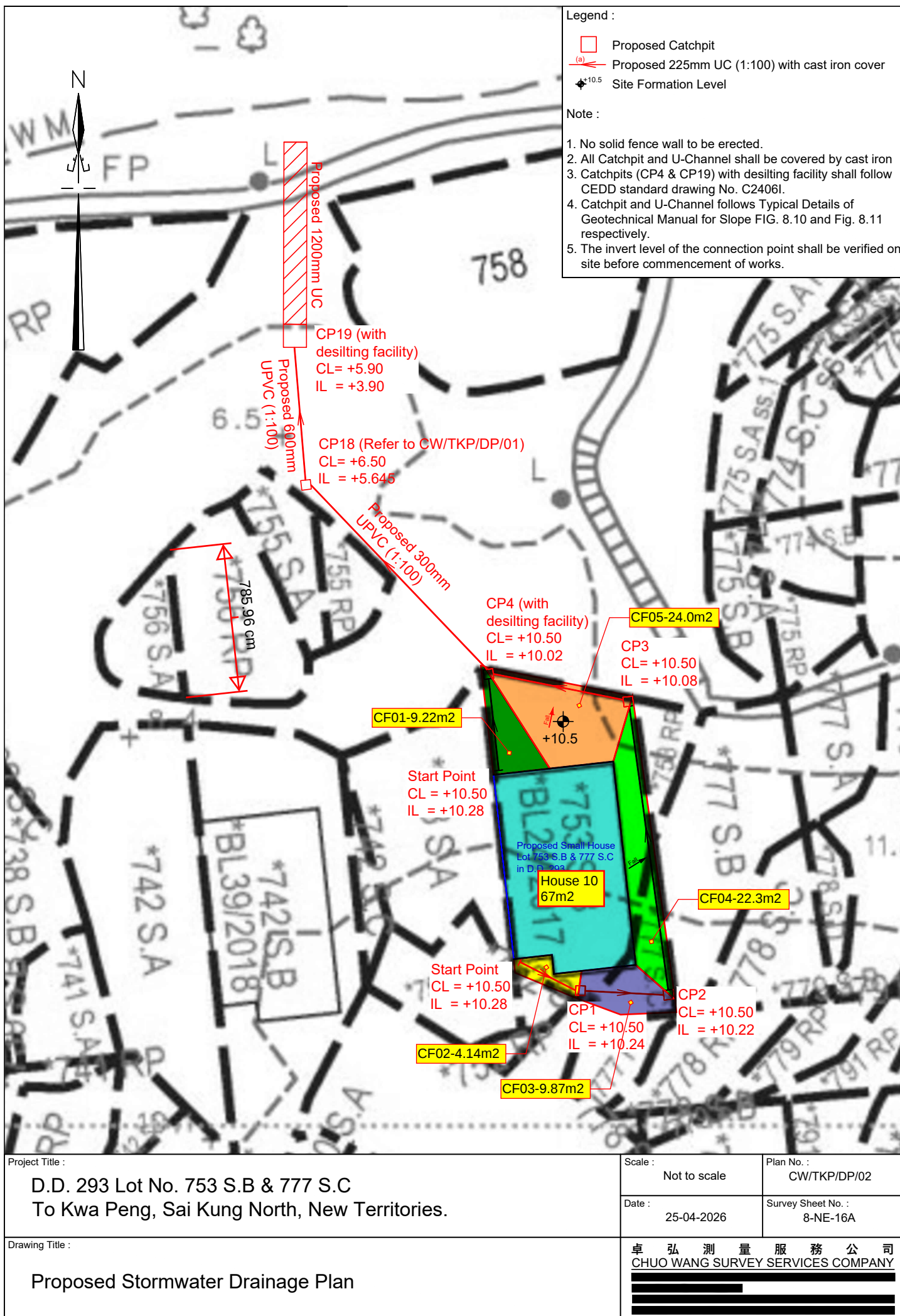
Survey Sheet No. : 8-NE-16A

Drawing Title : Proposed Stormwater Drainage Plan

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CHUO WANG SURVEY SERVICES COMPANY



Legend : - Proposed Catchpit (a) Proposed 225mm UC (1:100) with cast iron cover (b) Proposed 375mm UC (1:100) with cast iron cover - Site Formation Level Note : - No solid fence wall to be erected. - All Catchpit and U-Channel shall be covered by cast iron - Catchpits (CP6 & CP19) with desilting facility shall follow CEDD standard drawing No. C24061. - Catchpit and U-Channel follows Typical Details of Geotechnical Manual for Slope FIG. 8.10 and Fig. 8.11 respectively. - The invert level of the connection point shall be verified on site before commencement of works.		
Project Title : D.D. 293 Lot Nos. 753 RP, 777 S.B, 778 S.C & 777 S.A, 778 S.D, 779 S.C, To Kwa Peng, Sai Kung North, New Territories. Drawing Title : Proposed Stormwater Drainage Plan	Scale : Not to scale Date : 25-04-2026	Plan No. : CW/TKP/DP/03 Survey Sheet No. : 8-NE-16A 卓弘測量服務公司 CHUO WANG SURVEY SERVICES COMPANY



Project Title :

D.D. 293 Lot No. 753 S.B & 777 S.C
To Kwa Peng, Sai Kung North, New Territories.

Drawing Title :

Proposed Stormwater Drainage Plan

Scale :

Not to scale

Date :

25-04-2026

Plan No. :

CW/TKP/DP/02

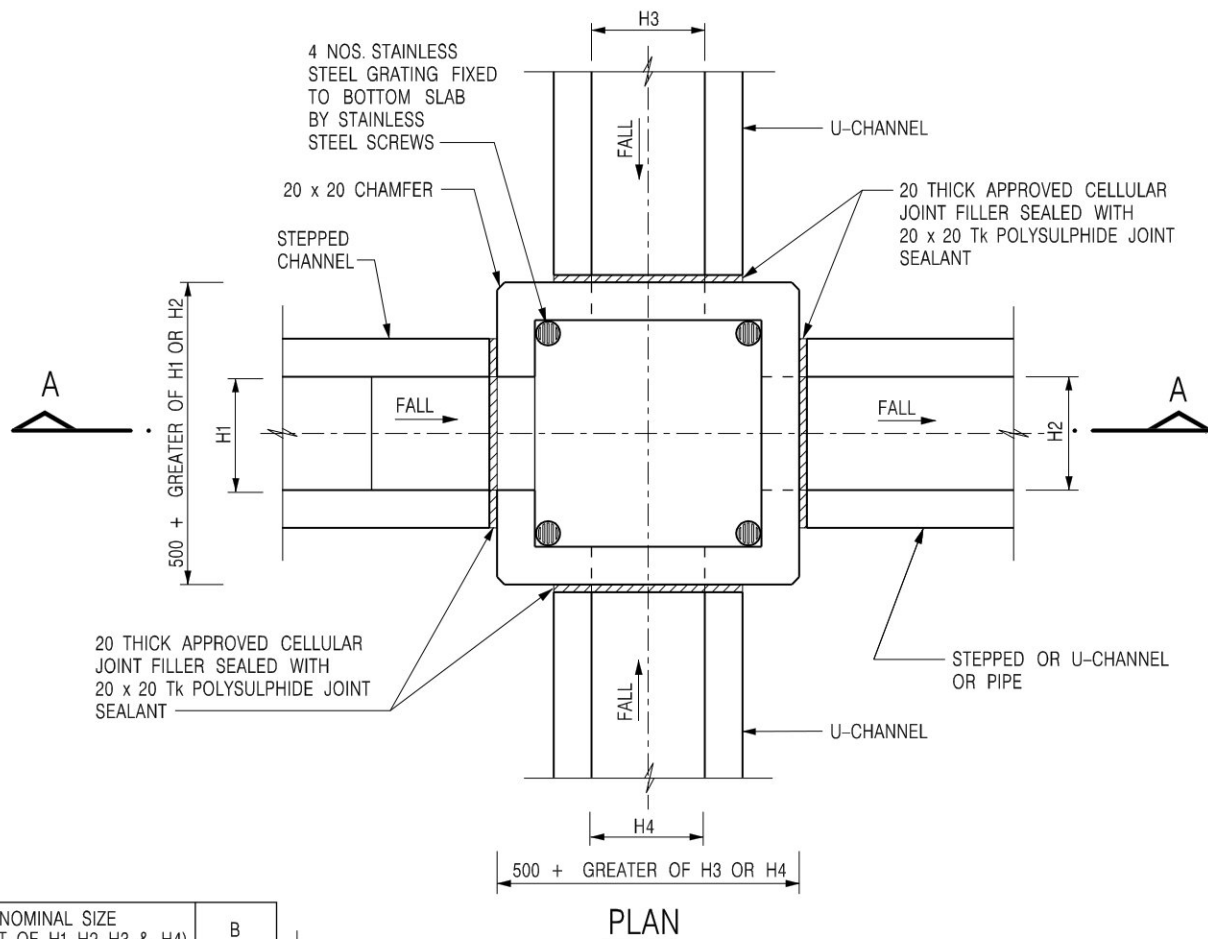
Survey Sheet No. :

8-NE-16A

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CHU WANG SURVEY SERVICES COMPANY

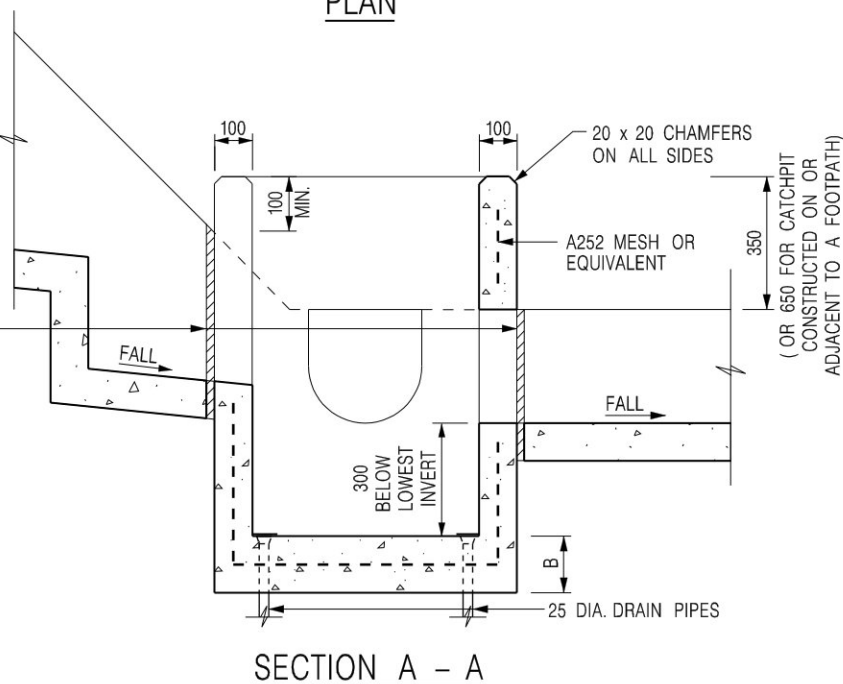
MANHOLE		PIPE			INVERT LEVEL		FINISHED ROAD LEVEL	PIPE BEDDING	PIPE									PAVED CATCHMENT AREA (m²)		UNPAVED CATCHMENT AREA (m²)		DISCHARGE FROM OTHERS		TIME OF FLOW, tf (MIN)	TIME OF CONC., tc (MIN)	INTENSITY (mm/HOUR)	DISCHARGE WITH CLIMATE CHANGE 11.1%, Q (m³/s)	% OF CAPACITY	Qc>Q?
MANHOLE NO.	MANHOLE TYPE	LENGTH	DIAMETER	GRADIENT	INLET	OUTLET			ROUGHNESS Ks (mm)	PERCENTAGE AREA ALLOWANCE FOR SEDIMENT	FLOW AREA, A (m²)	WETTED PERIMETER, P(m)	HYDRAULIC RADIUS, R(m)	FULL FLOW VELOCITY, V (m/s)	0.75<V<3?	CAPACITY WITH SEDIMENT, Qc (m³/s)	PIPE MATERIAL	INCREMENTAL	CUMULATIVE	INCREMENTAL	CUMULATIVE	INCREMENTAL	CUMULATIVE						
		m	mm	1 IN	mPD	mPD	mPD																						
CP7	Trapped Catchpit																390.2000	390.2000		0.0000		0.0000							
		15.05	300	100		8.360	9.000	S I	0.60	0.10	0.07	0.94	0.08	1.57	OK	0.10	CONCRETE		390.2000		0.0000		0.0000	0.160	5.000	255.820	0.029	29.3%	OK
CP15	Catchpit	5.10	300	102	8.210	8.210	9.100	S I	0.60	0.10	0.06	0.94	0.07	1.45	OK	0.08	CONCRETE		390.2000		0.0000		0.0000	0.058	5.058	255.253	0.029	35.1%	OK
CP16	Catchpit	12.78	300	14	8.160	8.160	9.000	S I	0.60	0.05	0.07	0.94	0.07	4.08	Not OK	0.26	CONCRETE		390.2000		0.0000		0.0000	0.052	5.111	254.751	0.029	11.2%	OK
CP17	Catchpit	3.06	300	15	7.250	7.250	8.000	S I	0.60	0.05	0.07	0.94	0.07	3.91	Not OK	0.25	CONCRETE	456.8000	847.0000		0.0000		0.0000	0.013	5.124	254.626	0.063	25.3%	OK
CP18	Catchpit	5.07	300	17	7.050	7.050	7.800	S I	0.60	0.05	0.07	0.94	0.07	3.72	Not OK	0.24	CONCRETE		847.0000		0.0000		0.0000	0.023	5.146	254.410	0.063	26.6%	OK
CP19	Catchpit	15.55	300	16	6.750	6.750	7.500	S I	0.60	0.05	0.07	0.94	0.07	3.88	Not OK	0.25	CONCRETE		847.0000		0.0000		0.0000	0.067	5.213	253.777	0.063	25.5%	OK
CP20	Catchpit	11.28	300	56	5.750	5.750	6.500	S I	0.60	0.10	0.06	0.94	0.07	1.96	OK	0.11	CONCRETE		847.0000		0.0000		0.0000	0.096	5.309	252.879	0.063	55.9%	OK
CP21	Catchpit	29.13	300	18	5.550	5.550	6.500	S I	0.60	0.05	0.07	0.94	0.07	3.64	Not OK	0.23	CONCRETE		847.0000		0.0000		0.0000	0.133	5.443	251.652	0.062	26.9%	OK
CP22	Trapped Catchpit				3.900		5.900											847.0000		0.0000		0.0000							

MANHOLE		PIPE			INVERT LEVEL		FINISHED ROAD LEVEL	PIPE BEDDING	PIPE									PAVED CATCHMENT AREA (m²)		UNPAVED CATCHMENT AREA (m²)		DISCHARGE FROM OTHERS		TIME OF FLOW, tf (MIN)	TIME OF CONC., tc (MIN)	INTENSITY (mm/HOUR)	DISCHARGE WITH CLIMATE CHANGE 11.1% Q (m³/s)	% OF CAPACITY	Qc>Q?
MANHOLE NO.	MANHOLE TYPE	LENGTH	DIAMETER	GRADIENT	INLET	OUTLET			ROUGHNESS Ks (mm)	PERCENTAGE AREA ALLOWANCE FOR SEDIMENT	FLOW AREA, A (m²)	WETTED PERIMETER, P(m)	HYDRAULIC RADIUS, R(m)	FULL FLOW VELOCITY, V (m/s)	0.75<V<3?	CAPACITY WITH SEDIMENT, Qc (m³/s)	PIPE MATERIAL	INCREMENTAL	CUMULATIVE	INCREMENTAL	CUMULATIVE	INCREMENTAL	CUMULATIVE						
		m	mm	1 IN	mPD	mPD												mPD											
CP8	Trapped Catchpit					8.240	9.000										433.9000	433.9000		0.0000	0.0000								
CP18	Catchpit	14.04	300	100	8.100	5.650	6.500	0.60	0.10	0.07	0.94	0.08	1.57	OK	0.10	CONCRETE	136.5300	570.4300		0.0000	0.0000	0.149	5.000	255.820	0.033	32.5%	OK		
		7.02	300	100				0.60	0.10	0.06	0.94	0.07	1.47	OK	0.08	CONCRETE						0.080	5.080	255.048	0.043	50.7%	OK		
CP22	Trapped Catchpit				5.580	3.900	5.900											570.4300		0.0000	0.0000								



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

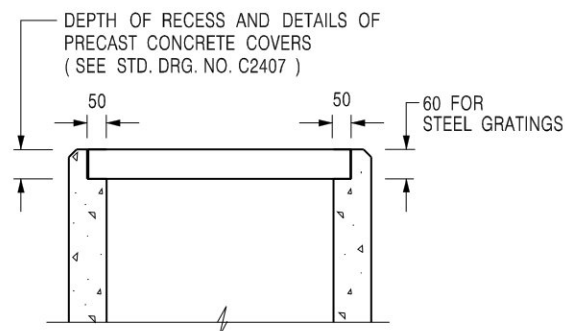


NOTES:

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		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) 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

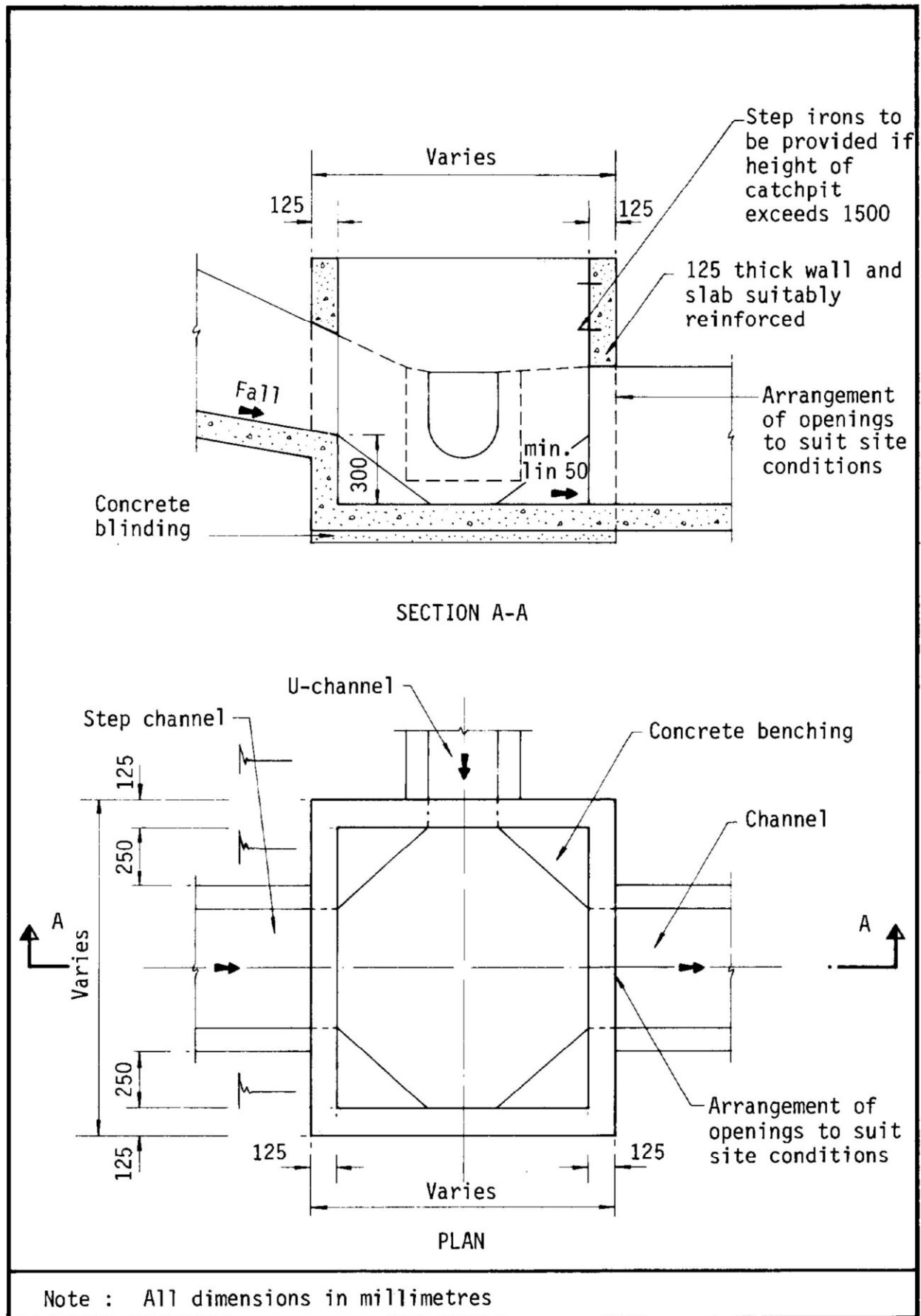
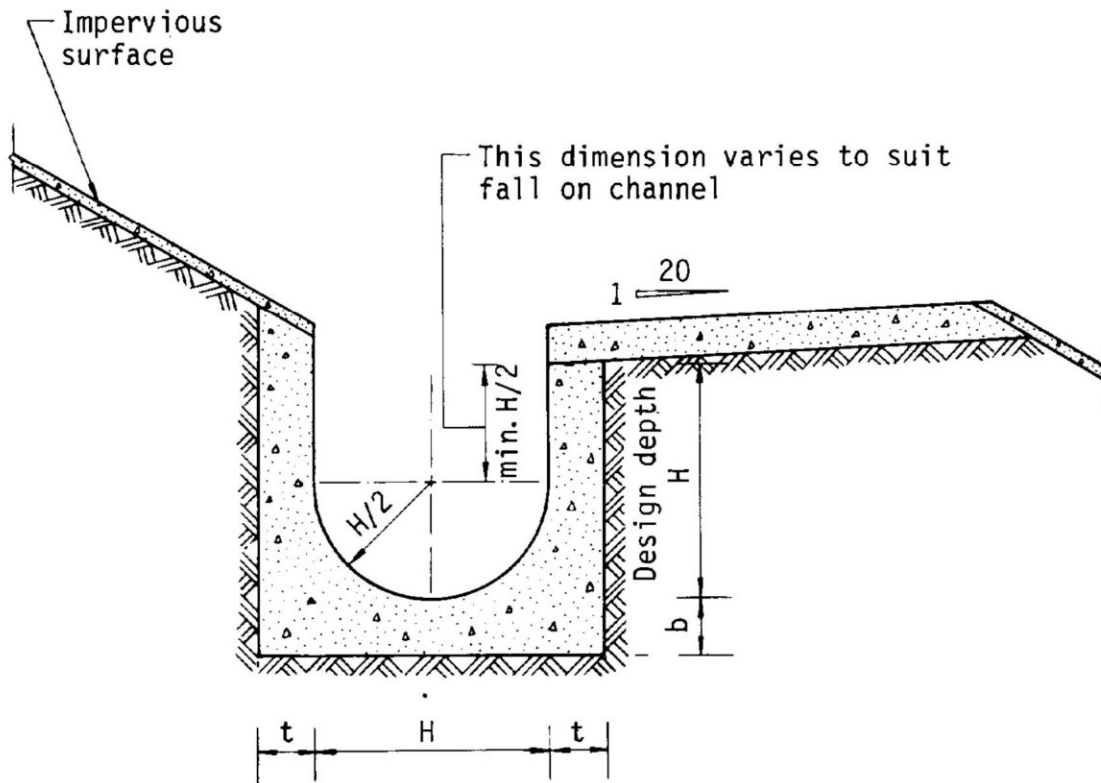


Figure 8.10 - Typical Details of Catchpits



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

Legend :

(a)

+10.5

Proposed Catchpit

Proposed 300mm UC (1:100) with cast iron cover

Site Formation Level

Note :

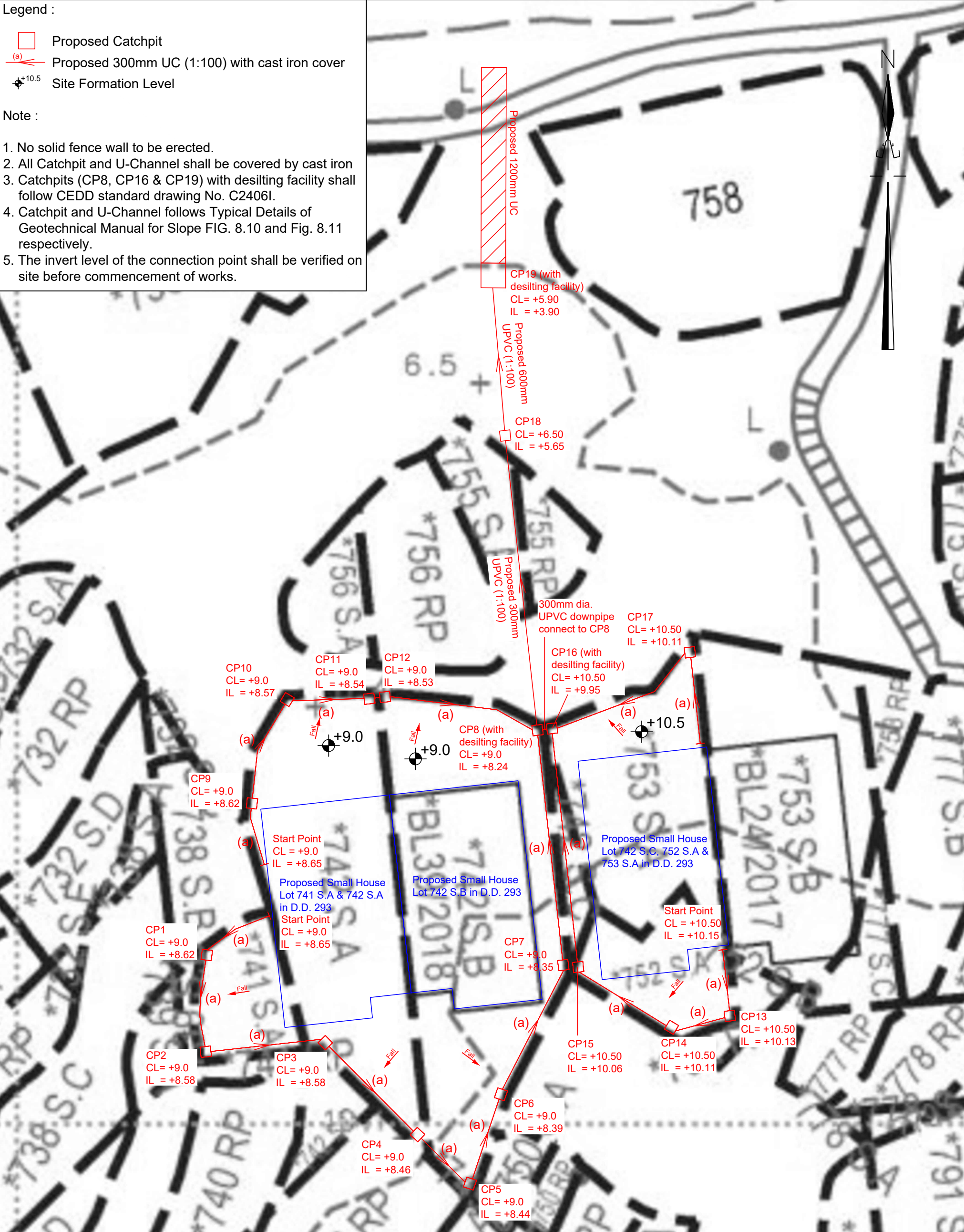
1. No solid fence wall to be erected.

2. All Catchpit and U-Channel shall be covered by cast iron

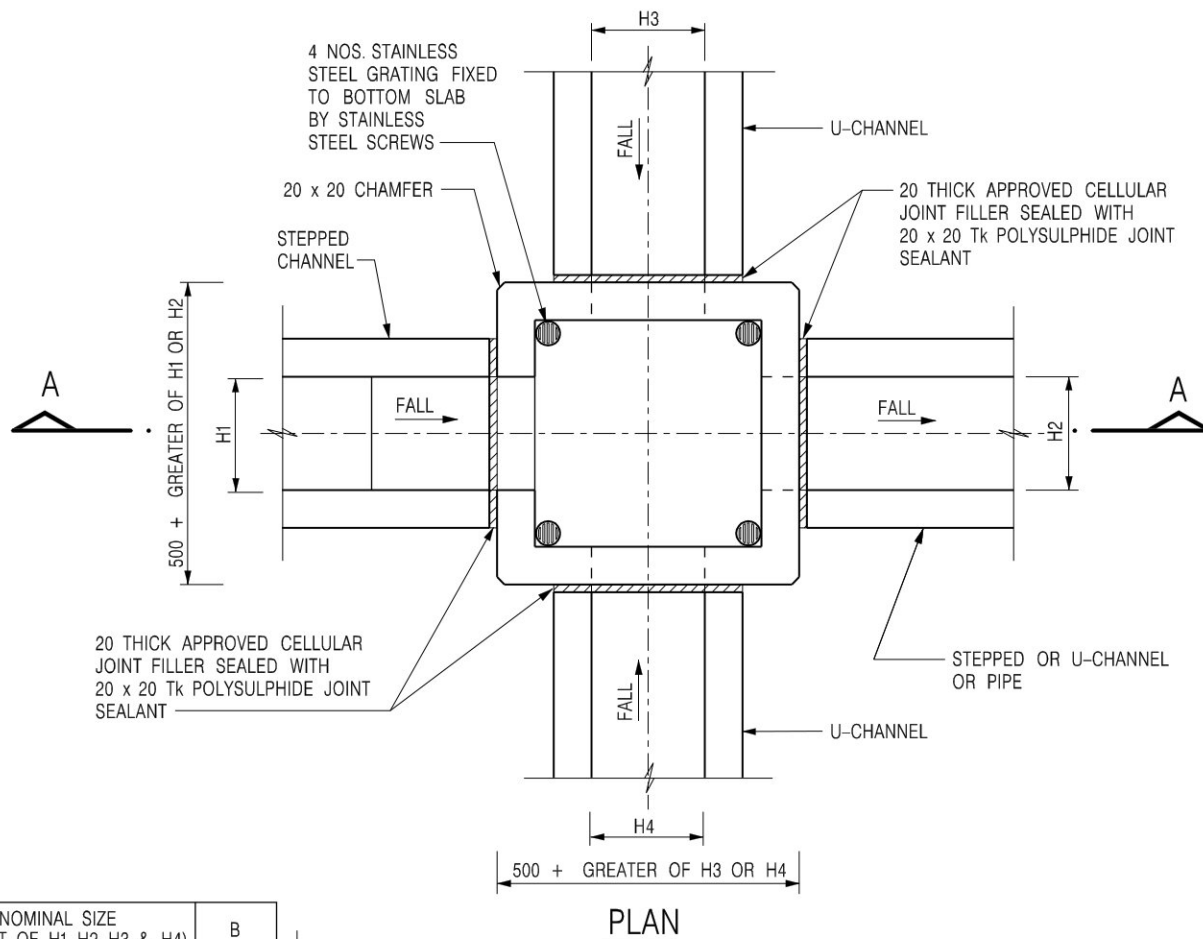
3. Catchpits (CP8, CP16 & CP19) with desilting facility shall follow CEDD standard drawing No. C24061.

4. Catchpit and U-Channel follows Typical Details of Geotechnical Manual for Slope FIG. 8.10 and Fig. 8.11 respectively.

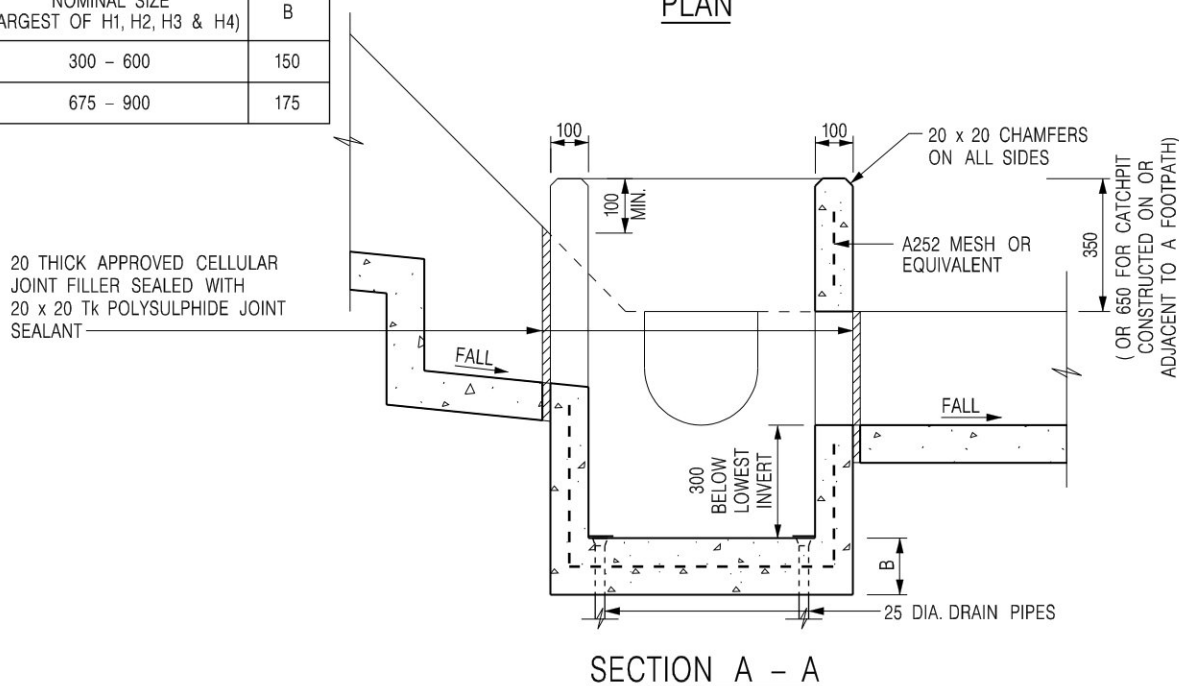
5. The invert level of the connection point shall be verified on site before commencement of works.



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	Not to scale	CW/TKP/DP/01
Drawing Title :	Date :	Survey Sheet No. :
	25-04-2026	8-NE-16A
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NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 - 600	150
675 - 900	175

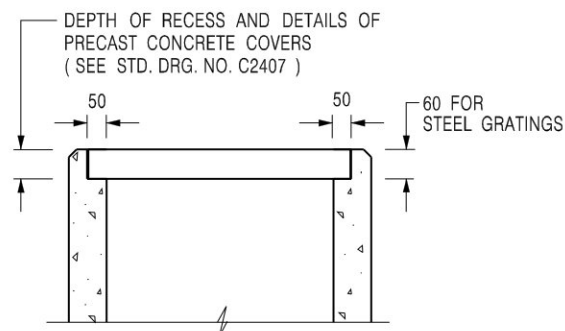


NOTES:

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		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

DATE JAN 1991

DRAWING NO.

C2406 /2

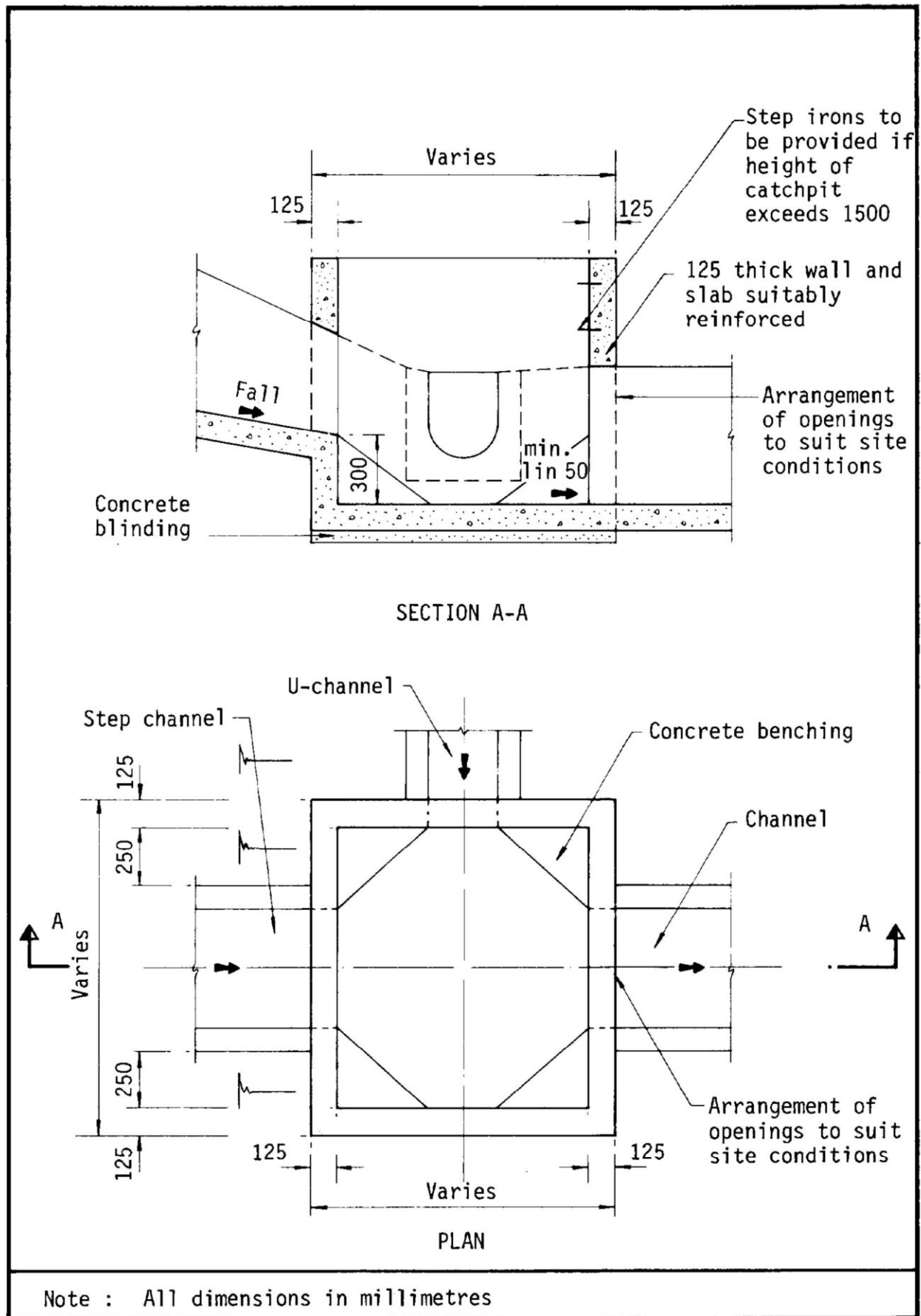
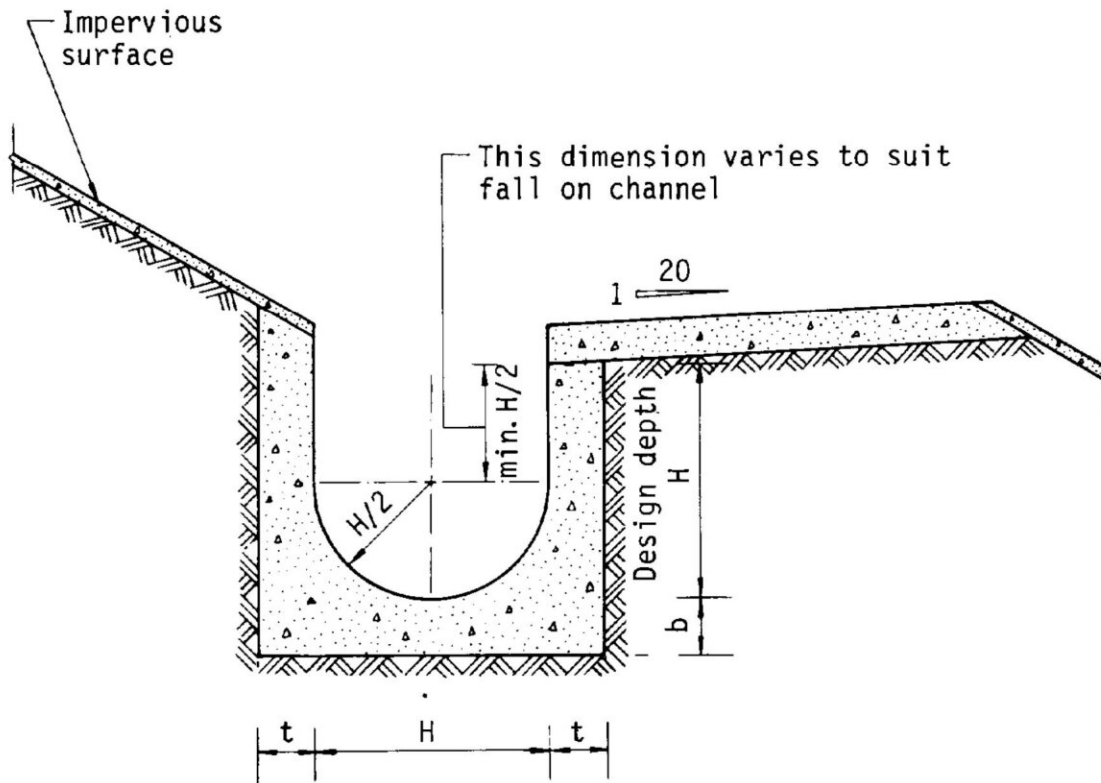


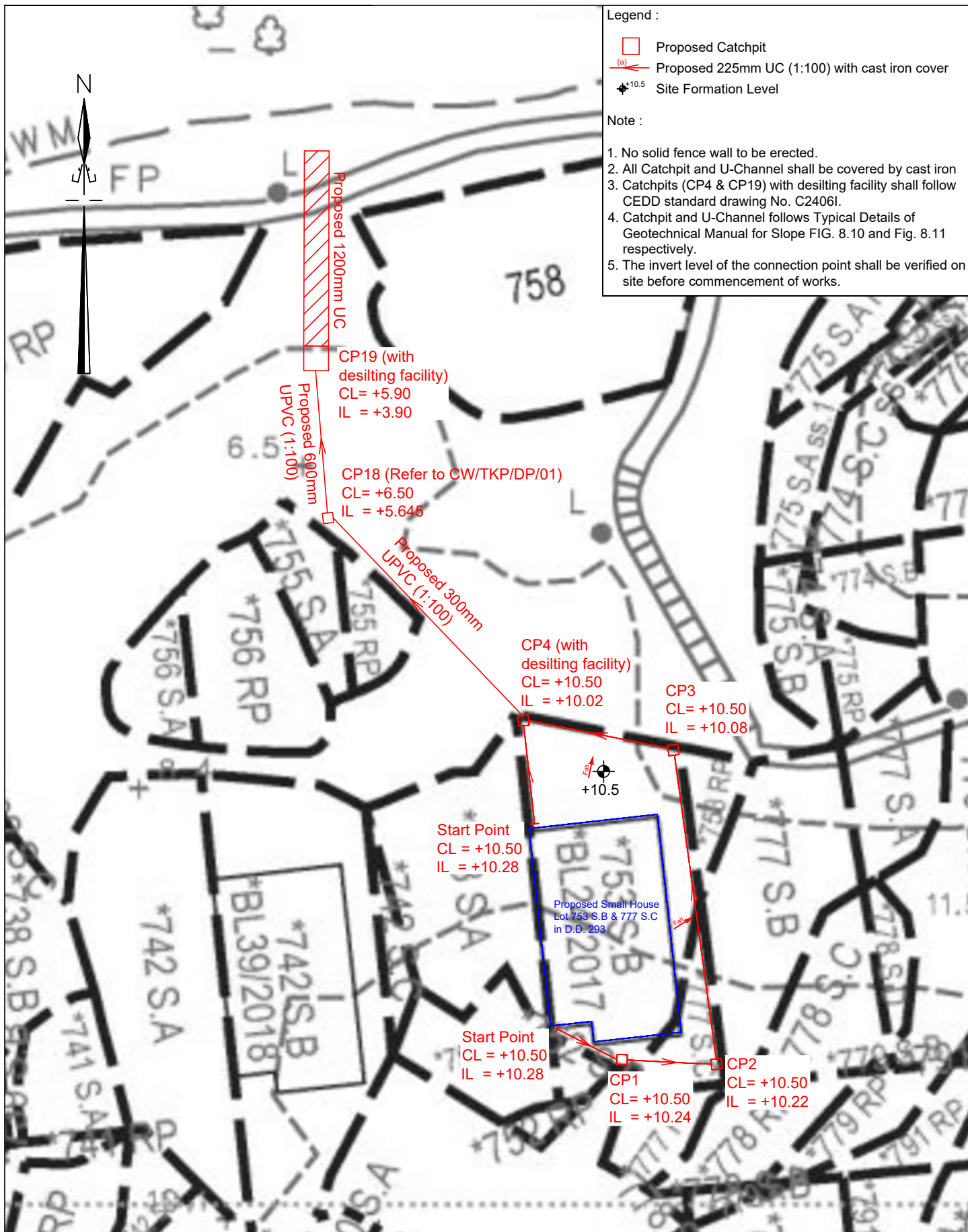
Figure 8.10 - Typical Details of Catchpits



Dimensions of U - channel

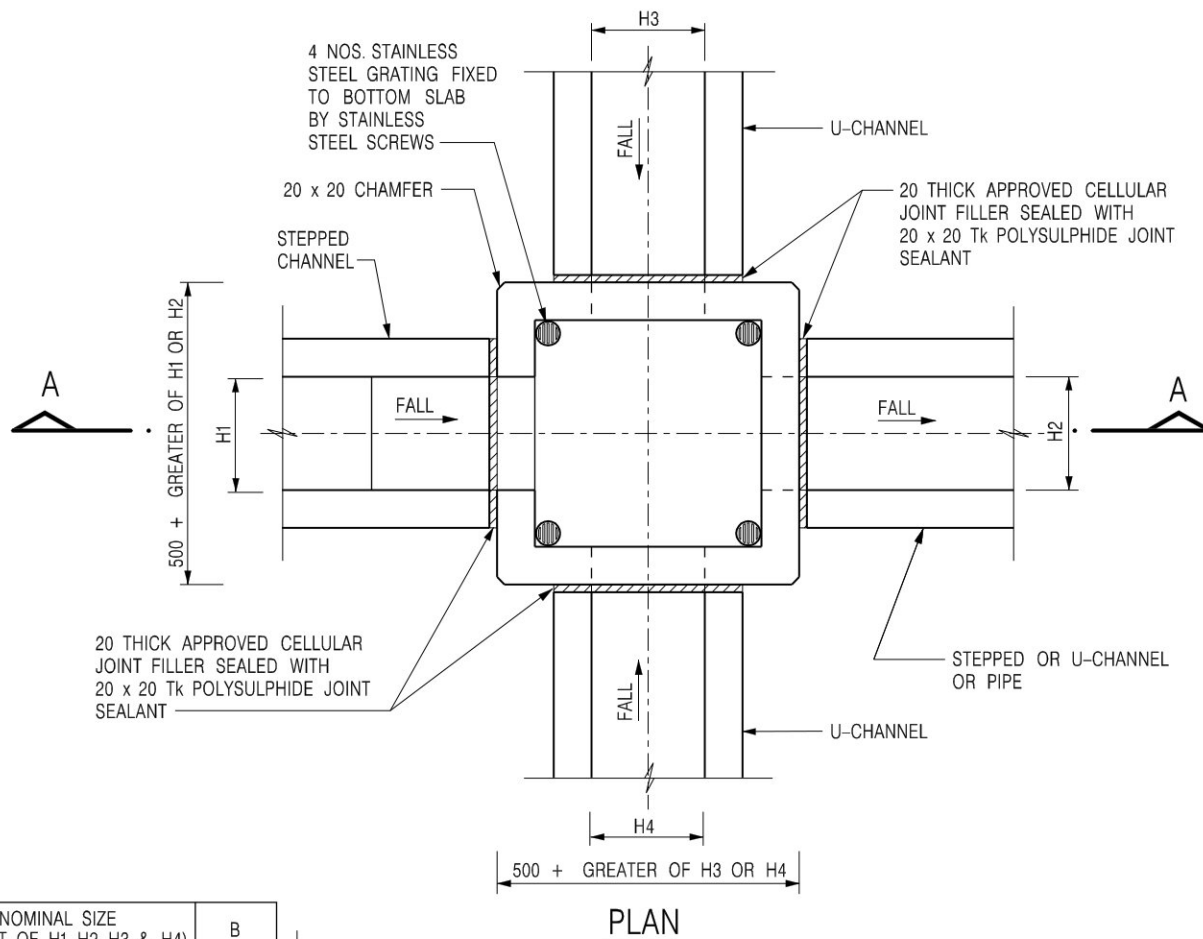
Nominal size of channel H (mm)	Thickness t (mm)	Thickness b (mm)
225 to 600	150	150
675 to 1200	175	225

Figure 8.11 - Typical U-channel Details

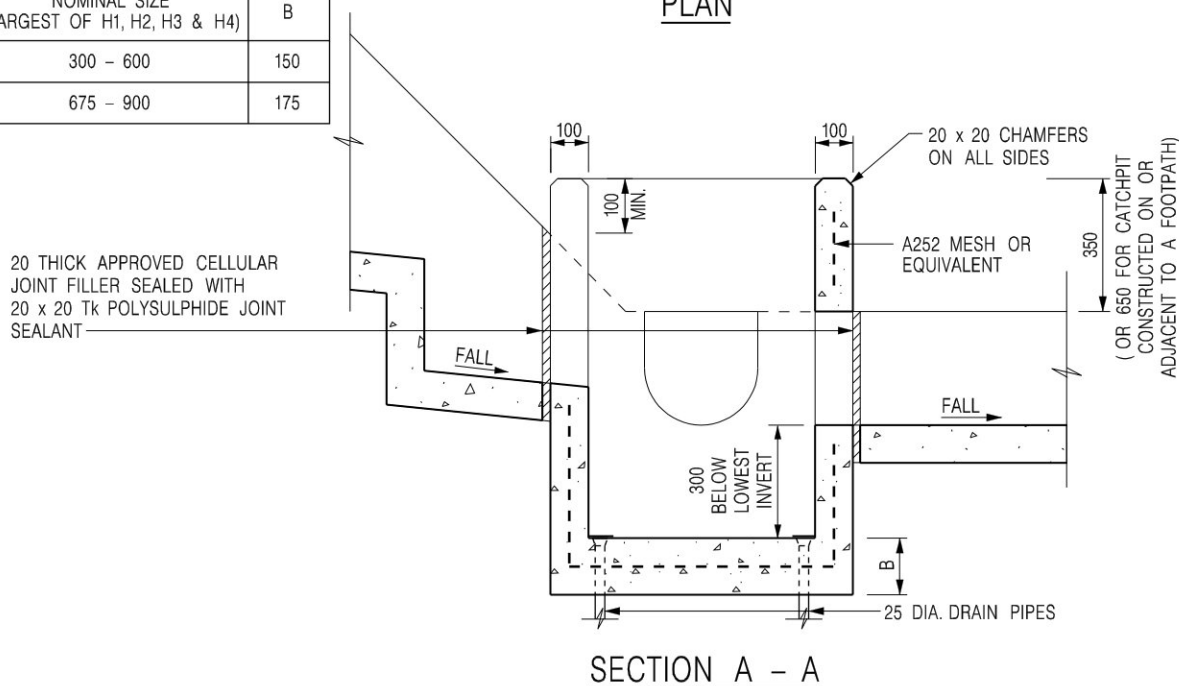


Project Title : D.D. 293 Lot No. 753 S.B & 777 S.C To Kwa Peng, Sai Kung North, New Territories.	Scale : Not to scale	Plan No. : CW/TKP/DP/02
Drawing Title : Proposed Stormwater Drainage Plan	Date : 25-04-2026	Survey Sheet No. : 8-NE-16A

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CHUO WANG SURVEY SERVICES COMPANY



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

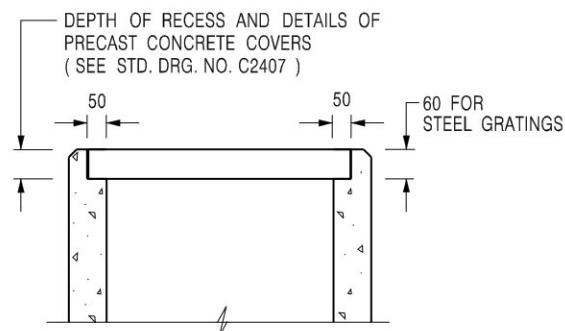


NOTES:

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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:

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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
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SCALE 1 : 20

DATE JAN 1991

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C2406 /2

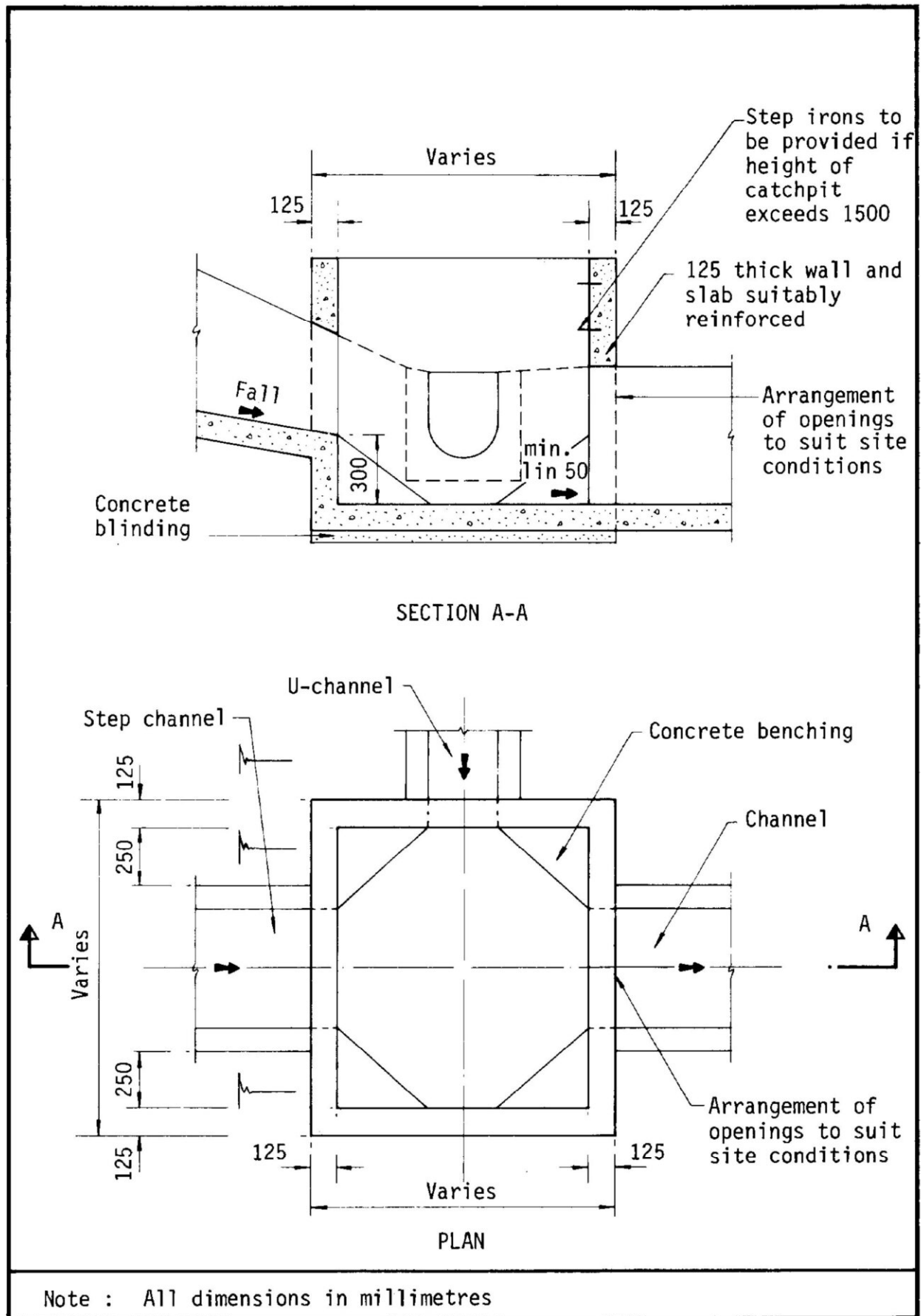
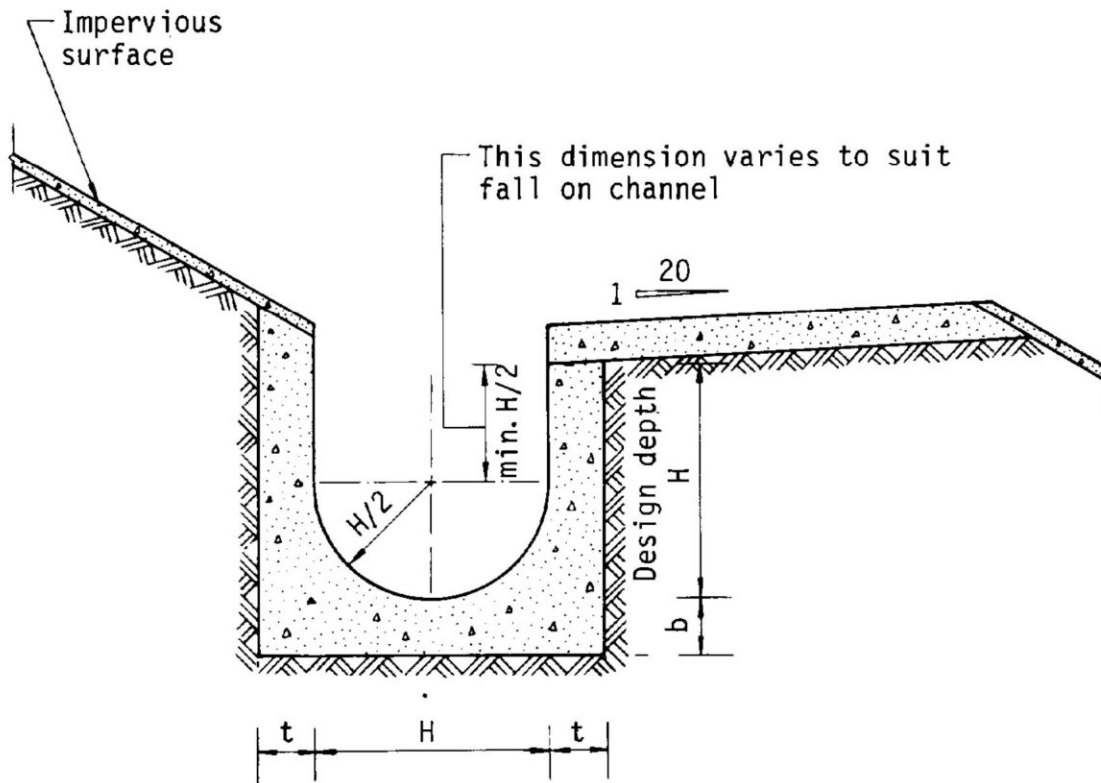


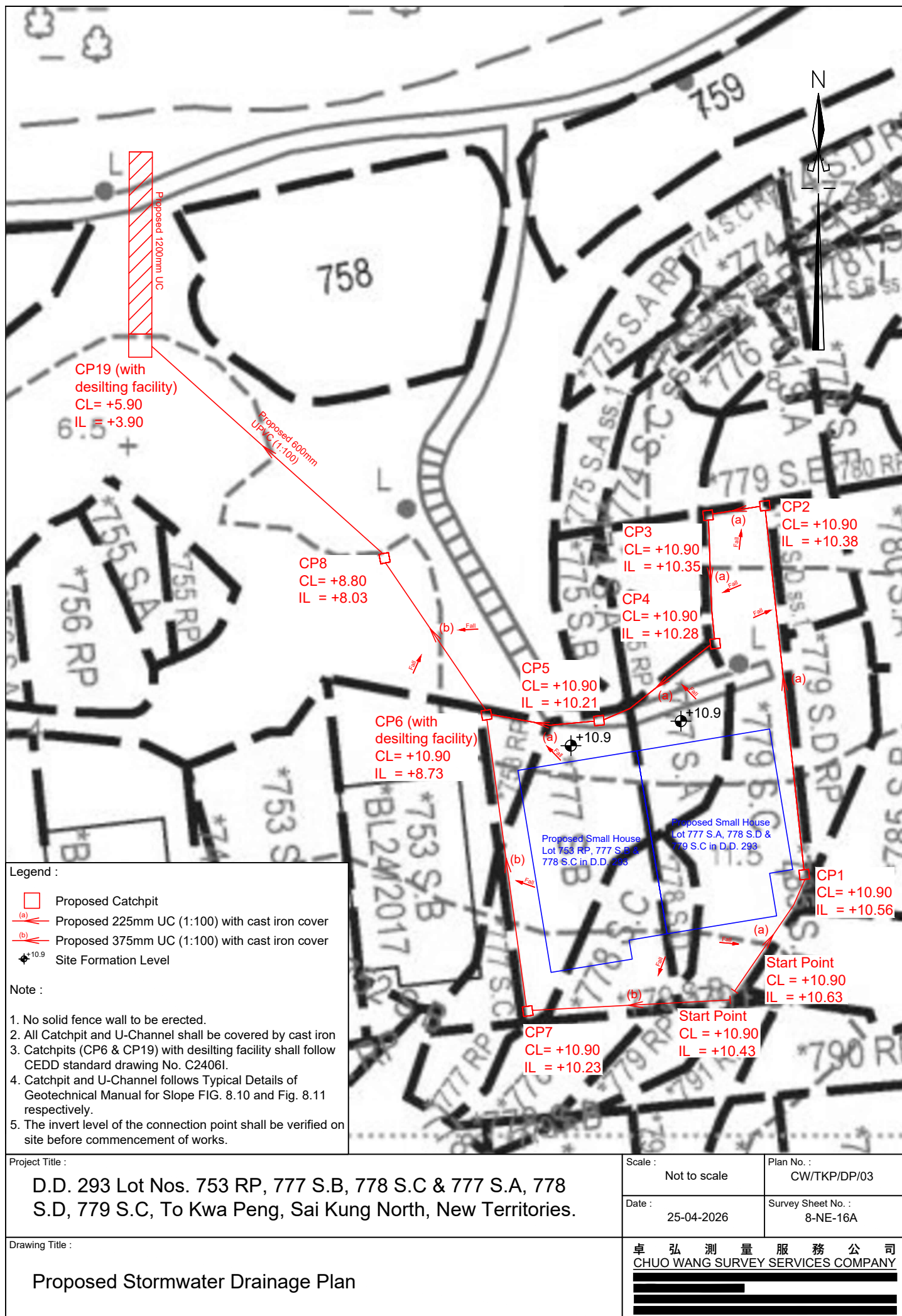
Figure 8.10 - Typical Details of Catchpits

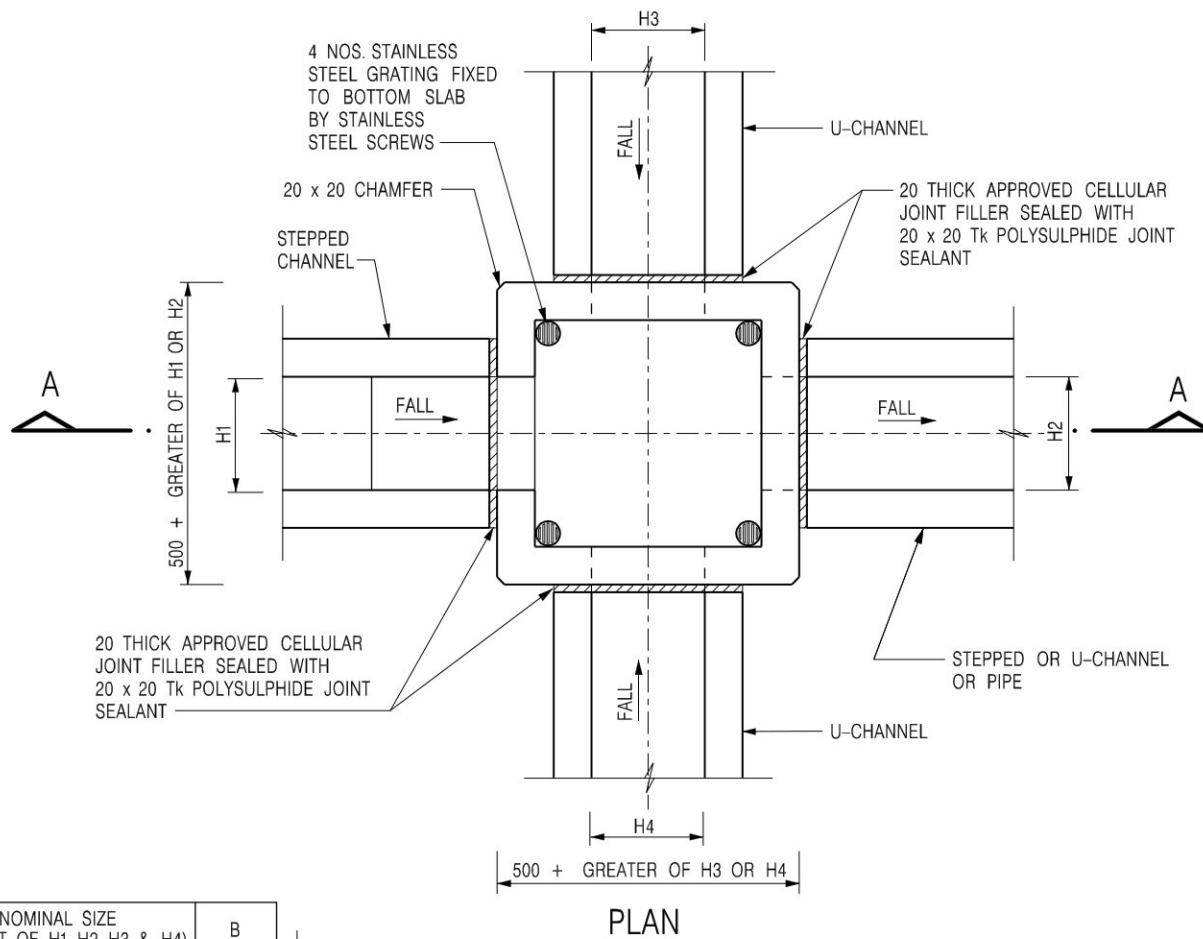


Dimensions of U - channel

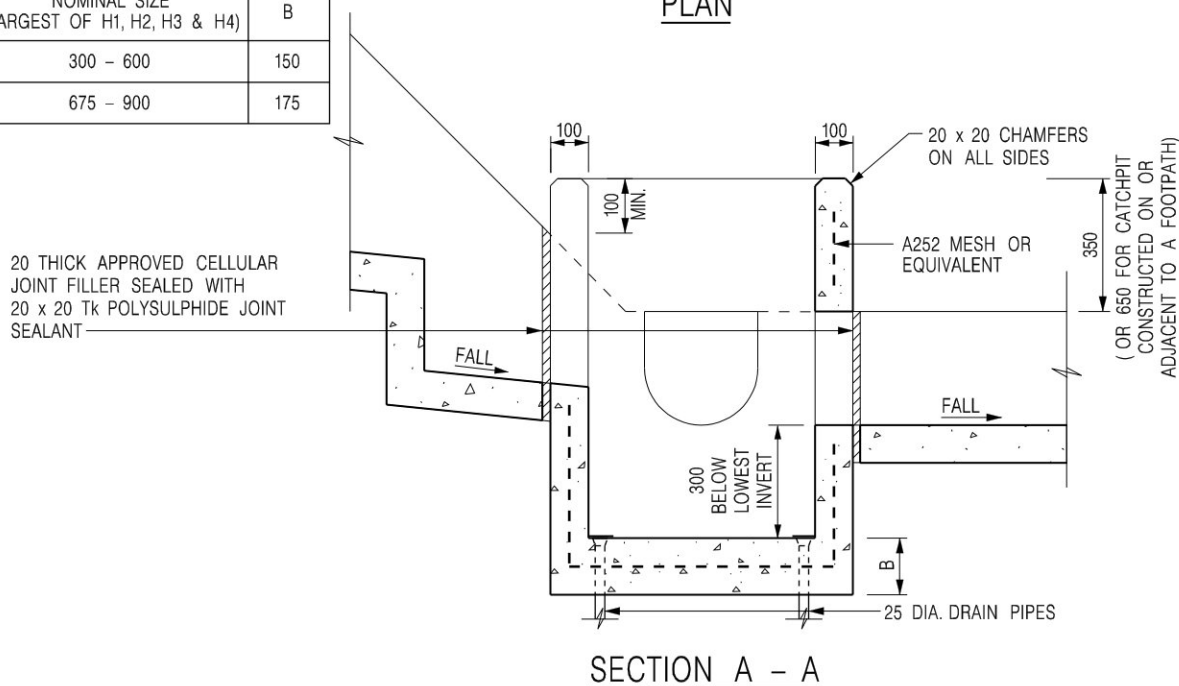
Nominal size of channel H (mm)	Thickness t (mm)	Thickness b (mm)
225 to 600	150	150
675 to 1200	175	225

Figure 8.11 - Typical U-channel Details





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

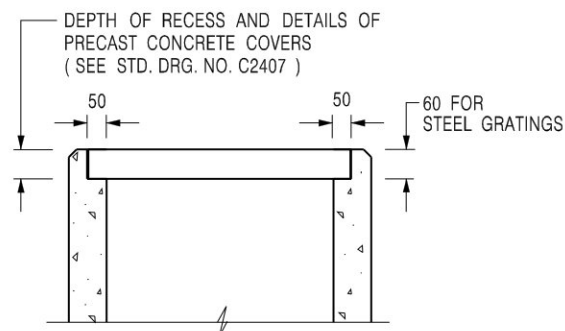


NOTES:

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
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DATE JAN 1991			



**ALTERNATIVE TOP SECTION
FOR PRECAST CONCRETE COVERS / GRATINGS**

NOTES:

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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.
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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.

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



**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE 1 : 20

DATE JAN 1991

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C2406 /2

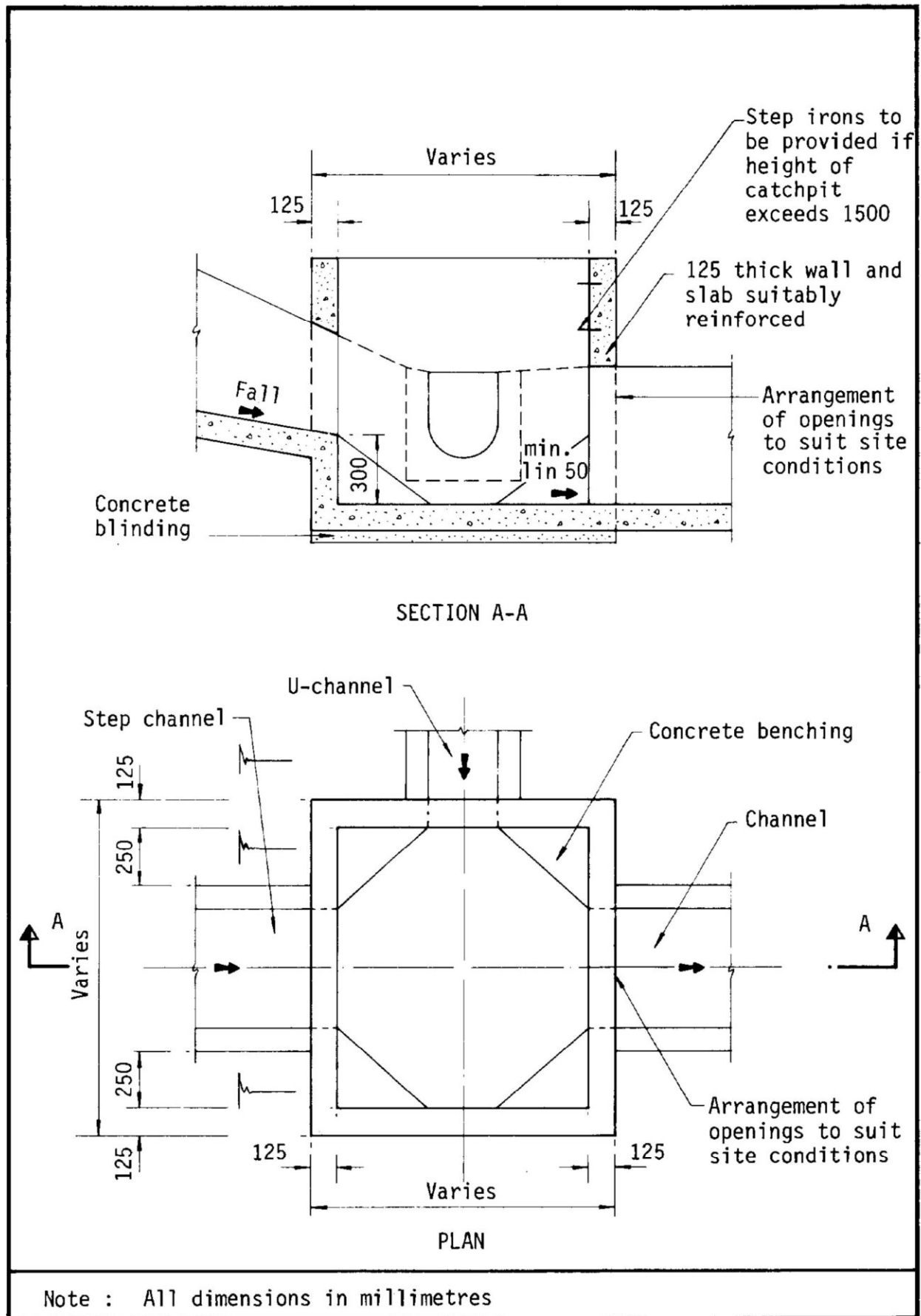
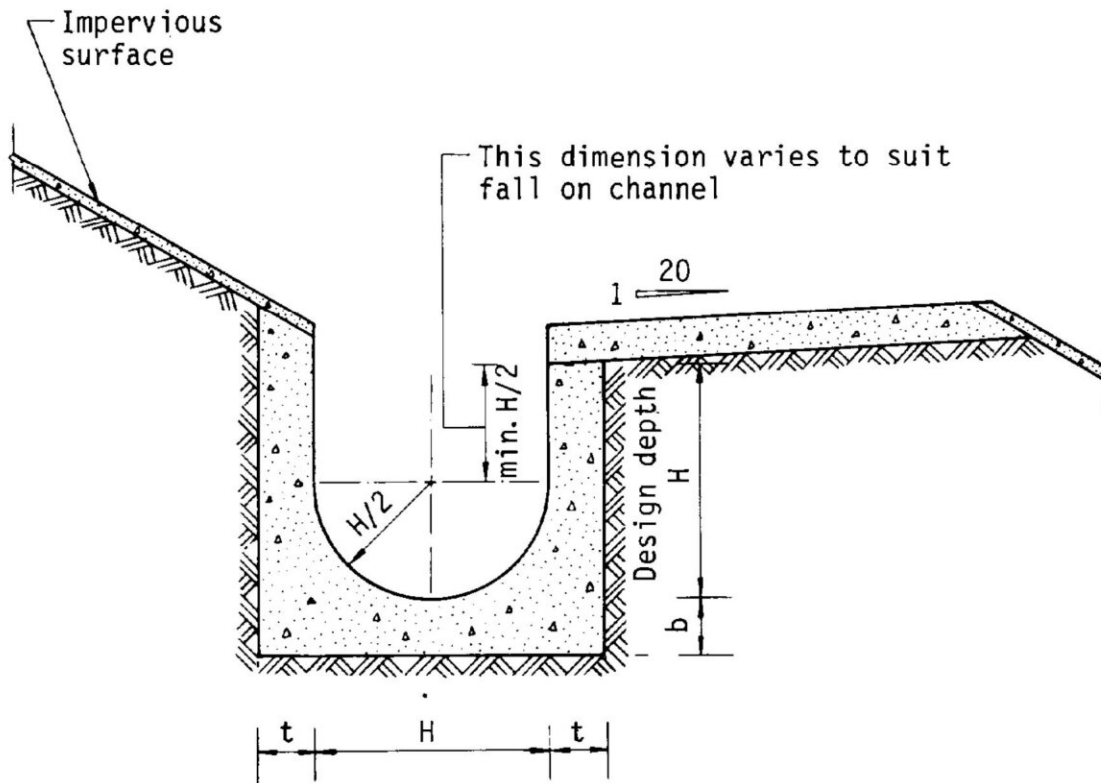


Figure 8.10 - Typical Details of Catchpits



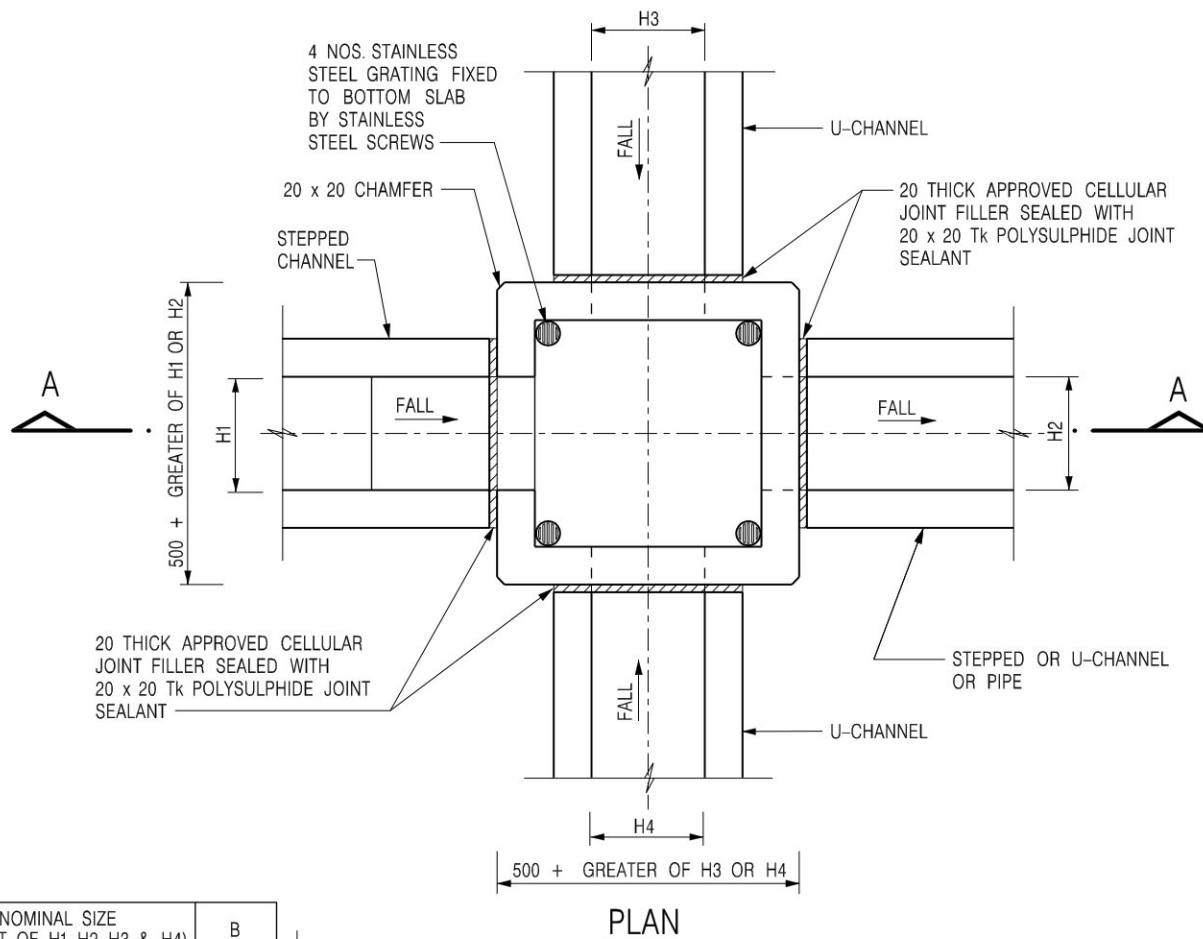
Dimensions of U - channel

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

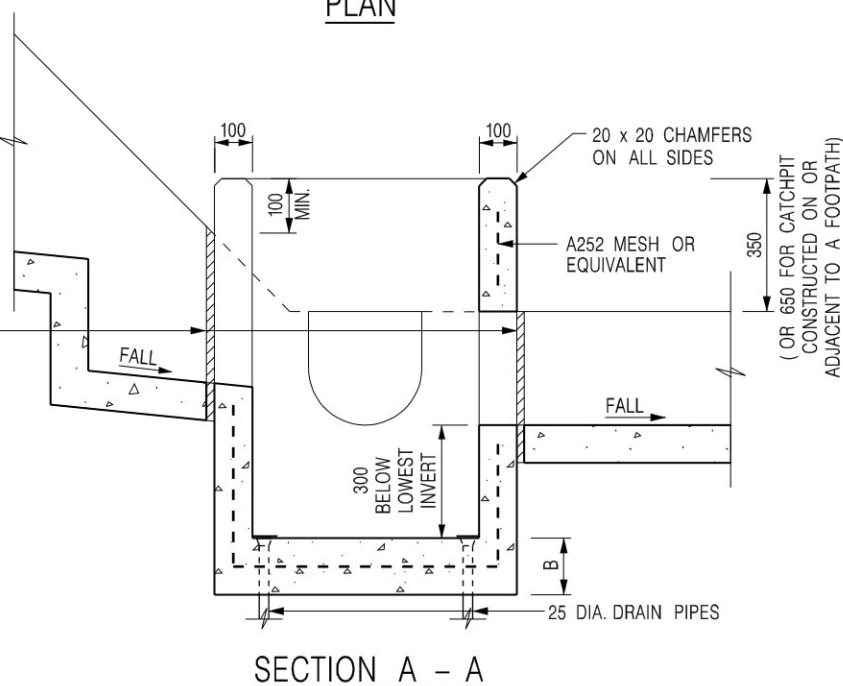


Project Title : D.D. 293 Lot Nos. 662 S.A, 664 S.B, 668 S.B, 669 RP & 664 S.A, 667 S.C, 668 S.A, 669 S.B, 671 S.B & 654 S.A RP, 658 RP, 659, 660 RP, 661 RP & 658 S.B, 658 S.C, 660 S.B, 660 S.C, 661 S.B, 662 S.B, 662 S.C, To Kwa Peng, Sai Kung North, New Territories.	Scale : Not to scale	Plan No. : CW/TKP/DP/04
	Date : 25-04-2026	Survey Sheet No. : 8-NE-16A
Drawing Title : Proposed Stormwater Drainage Plan	卓 弘 測 量 服 務 公 司 CHUO WANG SURVEY SERVICES COMPANY	



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

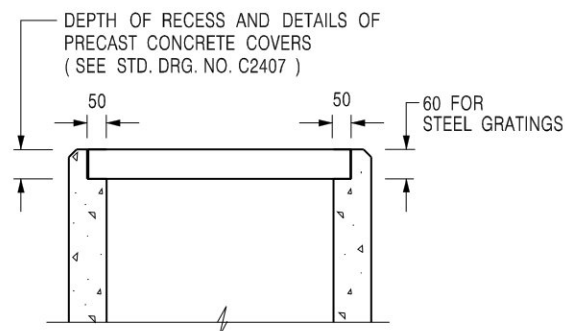


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CATCHPIT WITH TRAP
(SHEET 1 OF 2)

-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
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**ALTERNATIVE TOP SECTION
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-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
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**CATCHPIT WITH TRAP
(SHEET 2 OF 2)**



**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

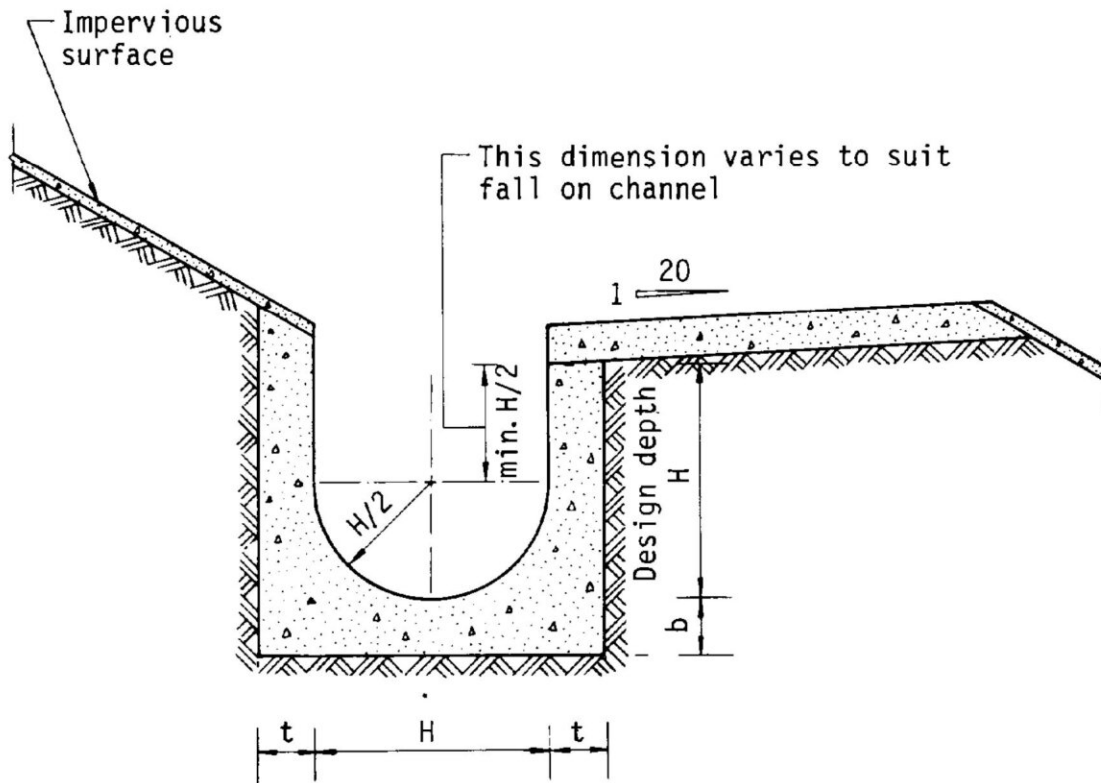
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DATE JAN 1991

DRAWING NO.

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Figure 8.10 - Typical Details of Catchpits



Dimensions of U - channel

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

Figure 8.11 - Typical U-channel Details