

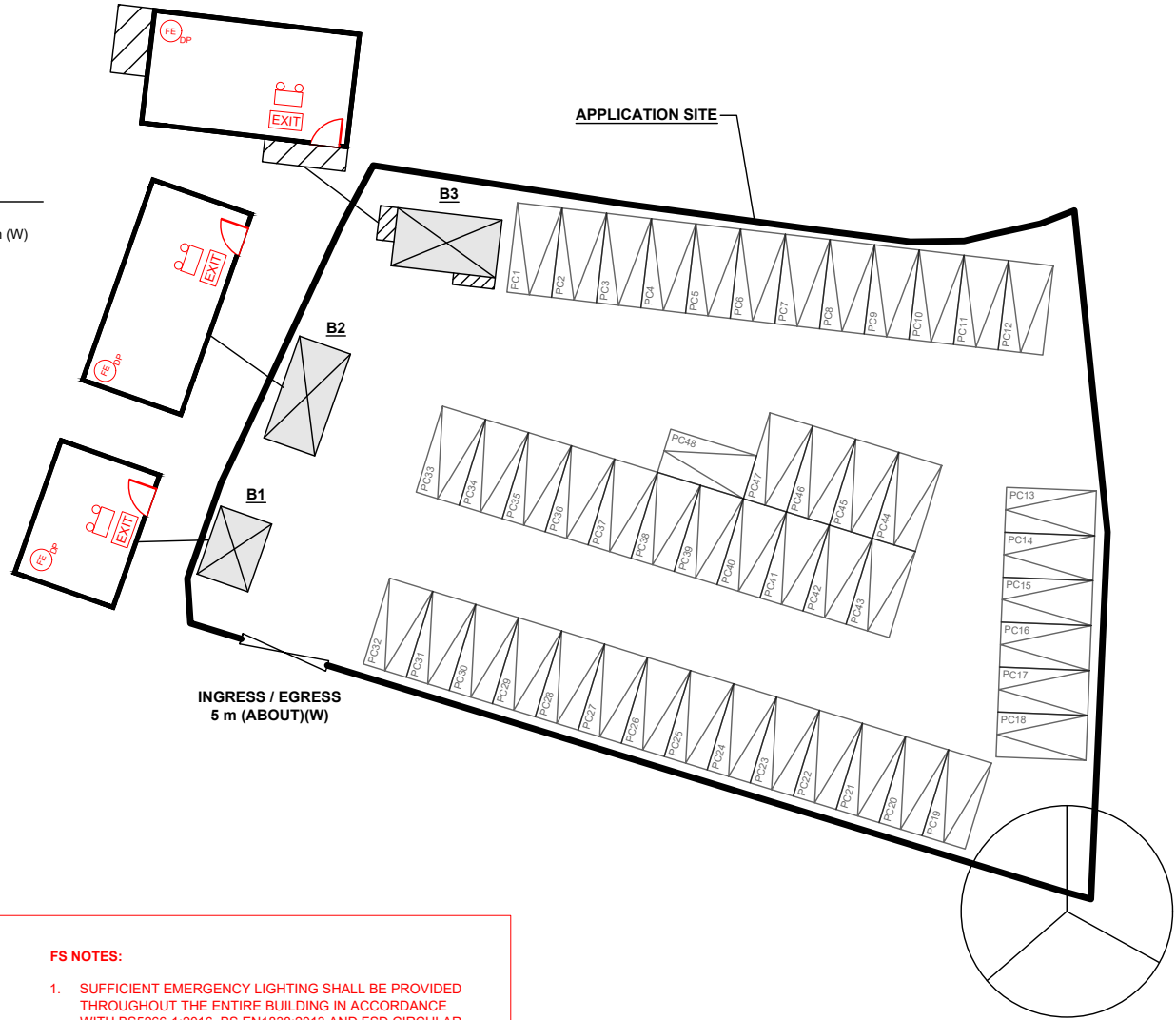
**DEVELOPMENT PARAMETERS**

APPLICATION SITE AREA	: 1,460 m <sup>2</sup>	(ABOUT)
COVERED AREA	: 52 m <sup>2</sup>	(ABOUT)
UNCOVERED AREA	: 1,408 m <sup>2</sup>	(ABOUT)
PLOT RATIO	: 0.04	(ABOUT)
SITE COVERAGE	: 4 %	(ABOUT)
NO. OF STRUCTURE	: 3	
DOMESTIC GFA	: NOT APPLICABLE	
NON-DOMESTIC GFA	: 52 m <sup>2</sup>	(ABOUT)
TOTAL GFA	: 52 m <sup>2</sup>	(ABOUT)
BUILDING HEIGHT	: 3 m	(ABOUT)
NO. OF STOREY	: 1	

STRUCTURE	USE	COVERED AREA	GROSS FLOOR AREA	BUILDING HEIGHT
B1	GUARDROOM	12 m <sup>2</sup> (ABOUT)	12 m <sup>2</sup> (ABOUT)	3 m (ABOUT)(1-STOREY)
B2	SITE OFFICE	18 m <sup>2</sup> (ABOUT)	18 m <sup>2</sup> (ABOUT)	3 m (ABOUT)(1-STOREY)
B3	METER ROOM AND WASHROOM	22 m <sup>2</sup> (ABOUT)	22 m <sup>2</sup> (ABOUT)	3 m (ABOUT)(1-STOREY)
<b>TOTAL</b>		<b>52 m<sup>2</sup> (ABOUT)</b>	<b>52 m<sup>2</sup> (ABOUT)</b>	

**PARKING AND LOADING / UNLOADING PROVISIONS**

NO. OF PRIVATE CAR PARKING SPACE	: 48
DIMENSION OF PARKING SPACE	: 5 m (L) x 2.5 m (W)



**FIRE SERVICE INSTALLATIONS**

- EMERGENCY LIGHT
- EXIT SIGN
- 5 KG DRY POWER TYPE FIRE EXTINGUISHER

**FS NOTES:**

- SUFFICIENT EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDING IN ACCORDANCE WITH BS5266-1:2016, BS EN1838:2013 AND FSD CIRCULAR LETTER 4/2021.
- SUFFICIENT DIRECTIONAL AND EXIT SIGN SHALL BE PROVIDED IN ACCORDANCE WITH BS5266: PART 1 AND FSD CIRCULAR LETTER 5/2008.
- PORTABLE HAND-OPERATED APPROVED APPLIANCE SHALL BE PROVIDED AS REQUIRED BY OCCUPANCY.
- ACCESS IS PROVIDED FOR EMERGENCY VEHICLE TO REACH 30m OF ALL PART OF STRUCTURES.

**LEGEND**

- APPLICATION SITE
- STRUCTURE (ENCLOSED)
- STRUCTURE (CANOPY)
- PARKING SPACE (PRIVATE CAR)
- EXISTING TREE
- INGRESS / EGRESS

PLANNING CONSULTANT



PROJECT

PROPOSED TEMPORARY PUBLIC VEHICLE PARK (EXCLUDING CONTAINER VEHICLE) WITH ANCILLARY FACILITIES FOR A PERIOD OF 5 YEARS

SITE LOCATION

VARIOUS LOTS IN D.D. 109, KAM TIN, YUEN LONG, NEW TERRITORIES

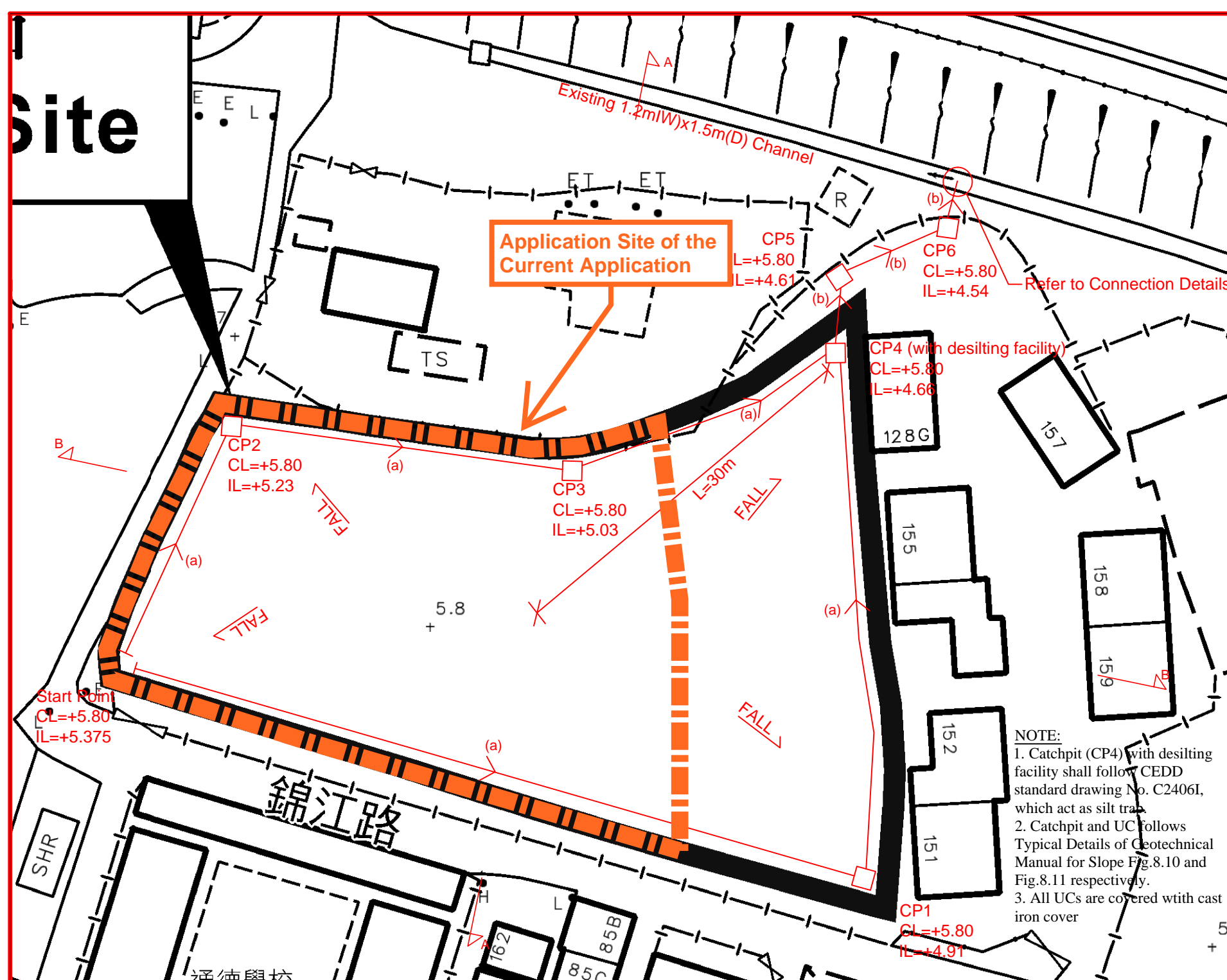
SCALE  
1 : 400 @ A4

DRAWN BY	DATE
MN	13.11.2024
CHECKED BY	DATE
APPROVED BY	DATE

DWG. TITLE  
FSIs PROPOSAL

DWG NO.	VER.
APPENDIX I	001

Site



**LEGEND**

(a)	Proposed 375UC (1:150) with Cast Iron cover
(b)	Proposed 375 underground concrete pipe (1:100)
□	Proposed Catchpit

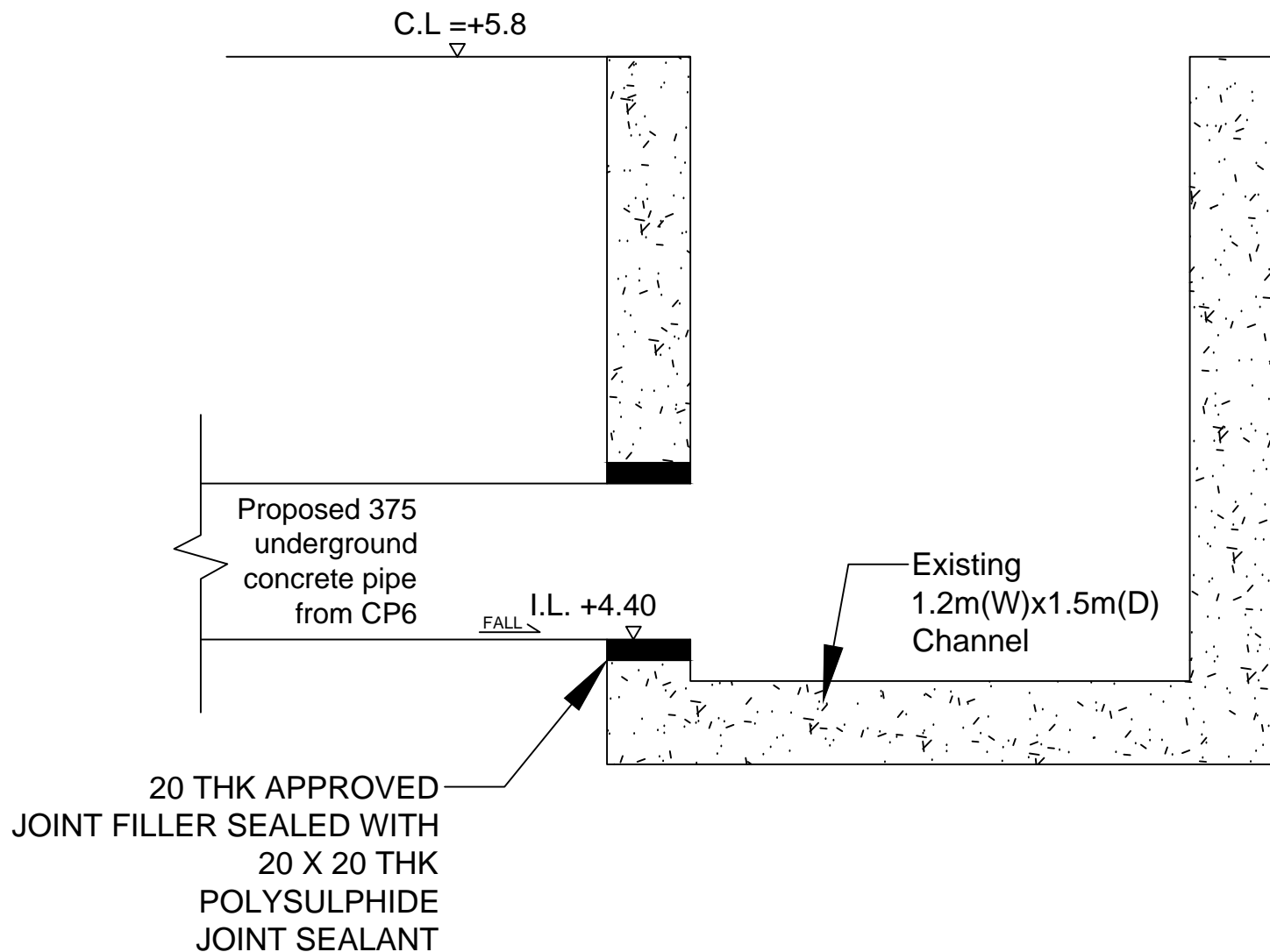
Company:  
 正宏工程顧問公司  
 Ching Wan Engineering Consultants Company

PROJECT:  
 Proposed Temporary Public Vehicle Parking (Excluding Container Vehicle) with Ancillary Facilities for a Period of 5 Years  
 Various Lots in D.D. 109, Kam Tin, Yuen Long, New Territories

TITLE:  
 Drainage Proposal

File:	DWG NO.
Scale:	<b>Appendix II</b>
Date: 9-5-2024	

**NOTE:**  
 1. Catchpit (CP4) with desilting facility shall follow CEDD standard drawing No. C2406I, which act as silt trap.  
 2. Catchpit and UC follows Typical Details of Geotechnical Manual for Slope Fig.8.10 and Fig.8.11 respectively.  
 3. All UCs are covered with cast iron cover



## Connection Details

### LEGEND

- (a) Proposed 375UC (1:150) with Cast Iron cover
- (b) Proposed 375 underground concrete pipe (1:150)
- Proposed Catchpit

Company:

正宏工程顧問公司  
Ching Wan Engineering  
Consultants Company

PROJECT:

Proposed Temporary Public Vehicle Parking (Excluding Container Vehicle) with Ancillary Facilities for a Period of 5 Years

Various Lots in D.D. 109, Kam Tin, Yuen Long, New Territories

TITLE:

Connection  
Details




File:

DWG NO.

Scale:

KTN719-D03

Date:  
9-5-2024

LEGEND	
(a) 	Proposed 375UC (1:150) with Cast Iron cover
(b) 	Proposed 375 underground concrete pipe (1:100)
	Proposed Catchpit

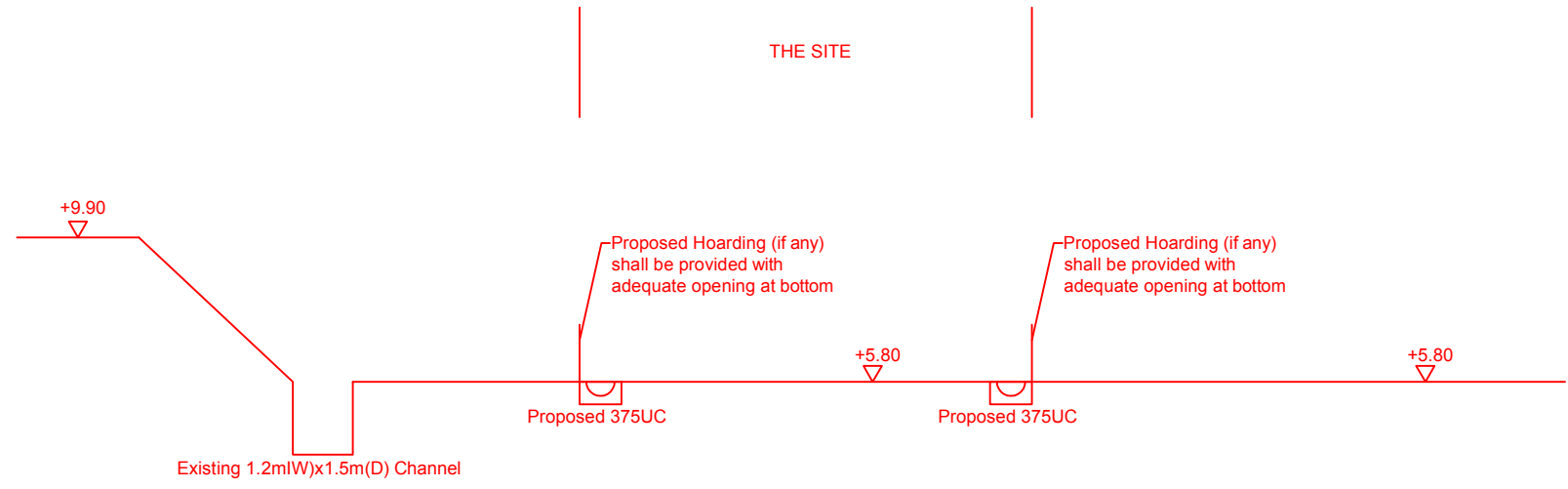
Company:  
 正宏工程顧問公司  
 Ching Wan Engineering  
 Consultants Company

PROJECT:  
 Proposed Temporary Public Vehicle Parking (Excluding Container Vehicle) with Ancillary Facilities for a Period of 5 Years  
 Various Lots in D.D. 109, Kam Tin, Yuen Long, New Territories

TITLE:  
**SECTIONS**

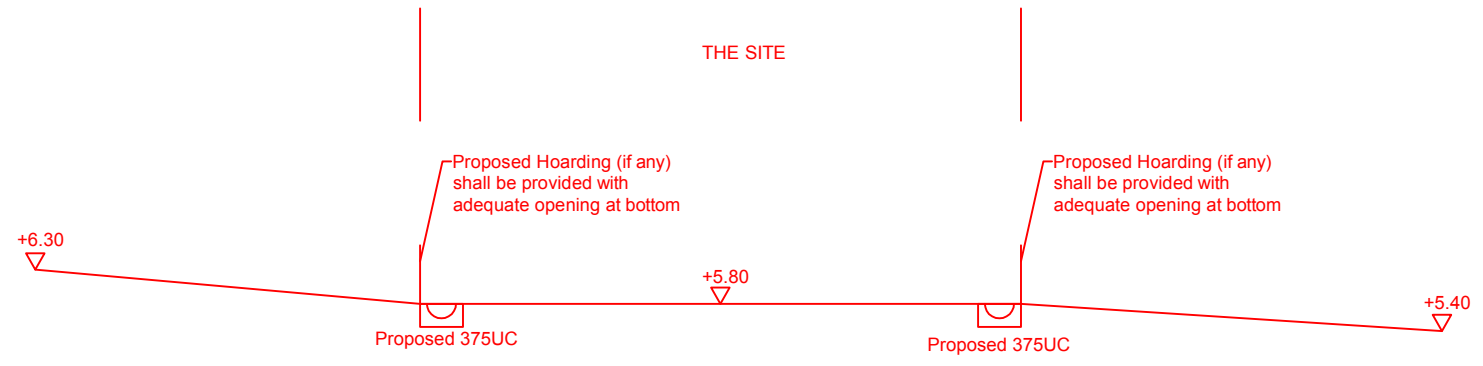
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Scale:	
Date: 13-6-2024	

THE SITE

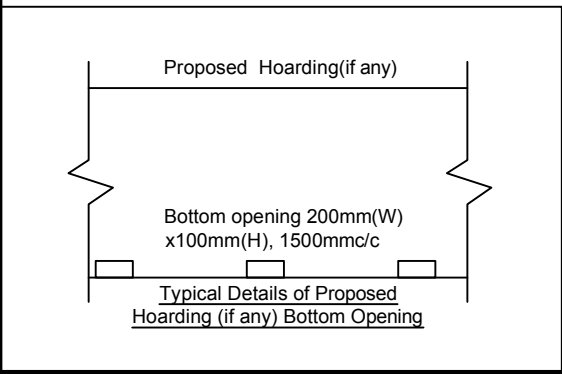


SECTION A-A




THE SITE



SECTION B-B



**LEGEND**

- (a)  Proposed 375UC (1:150) with Cast Iron cover
- (b)  Proposed 375 underground concrete pipe (1:100)
-  Proposed Catchpit

Company:  
 正宏工程顧問公司  
 Ching Wan Engineering  
 Consultants Company

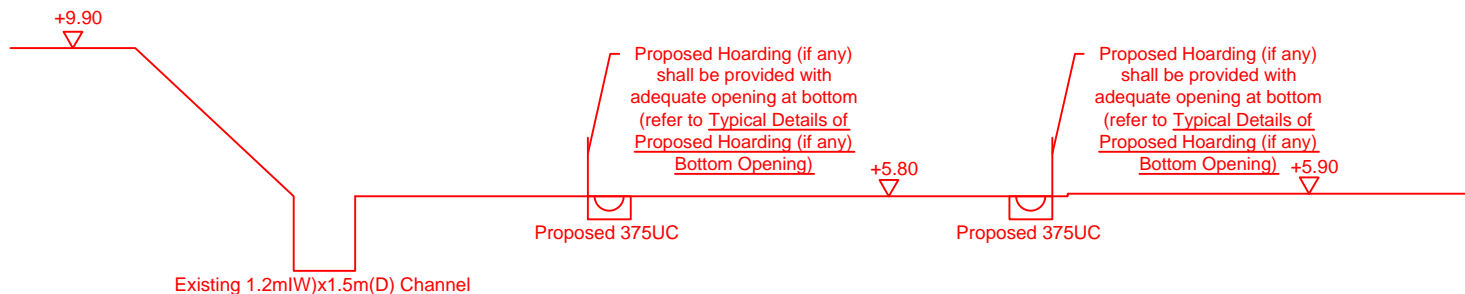
PROJECT:  
 Proposed Temporary  
 Public Vehicle Parking  
 (Excluding Container  
 Vehicle) with Ancillary  
 Facilities for a Period  
 of 5 Years  
 Various Lots in D.D.  
 109, Kam Tin, Yuen  
 Long, New Territories

TITLE:  
**SECTIONS**

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Scale:	
Date: 1-10-2024	

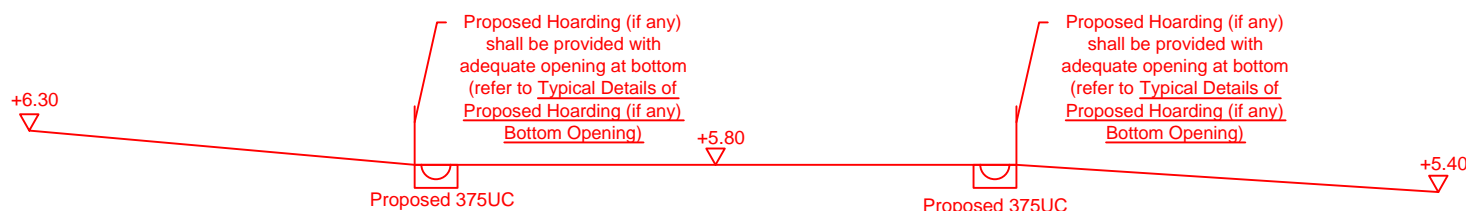
THE SITE

Area having its own stormwater collection system

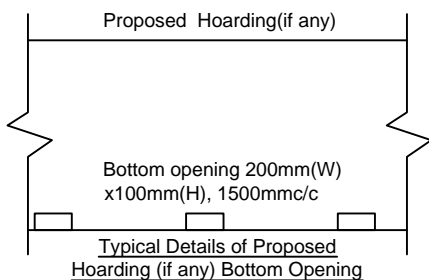


**SECTION A-A**

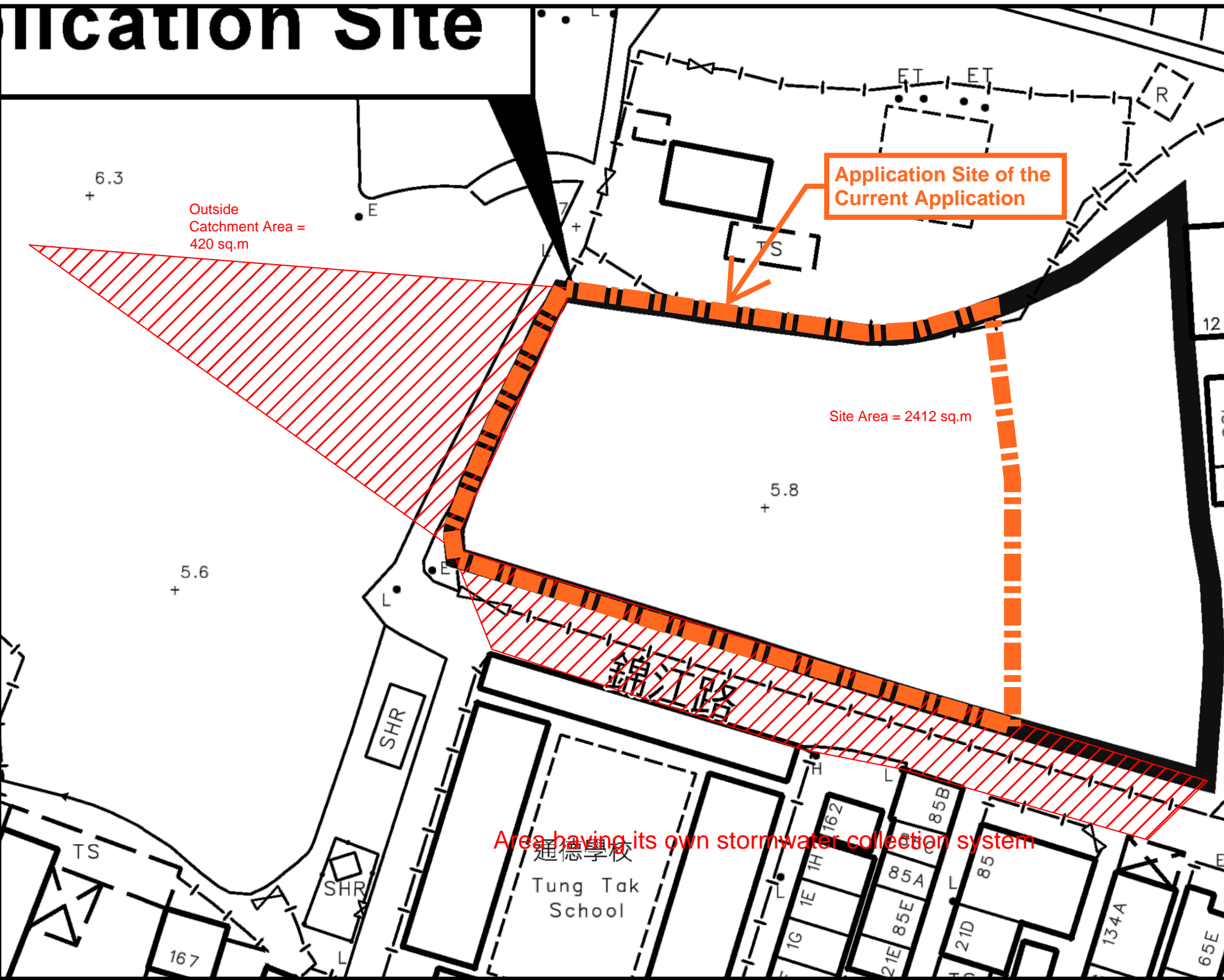
THE SITE



**SECTION B-B**



# Application Site



LEGEND	
(a)	Proposed 375UC (1:150) with Cast Iron cover
(b)	Proposed 375 underground concrete pipe (1:100)
	Proposed Catchpit
Company:	
正宏工程顧問公司 Ching Wan Engineering Consultants Company	
PROJECT:	
Proposed Temporary Public Vehicle Parking (Excluding Container Vehicle) with Ancillary Facilities for a Period of 5 Years	
Various Lots in D.D. 109, Kam Tin, Yuen Long, New Territories	
TITLE:	
Catchment Area Plan	
File:	DWG NO.
Scale:	KTN719-D05
Date:	1-10-2024

Site Area = 3182 m<sup>2</sup>

Calculation of Runoff from the Proposed Development,

$$Q = 0.278 C i A$$

$$C = 0.95 \quad \text{(P.42 of Stormwater Drainage Manual)}$$

$$A = 3182 \quad \text{m}^2$$

$$= 0.003182 \quad \text{km}^2$$

$$t = 0.14465 L / H^{0.2} A^{0.1}$$

$$= 0.14465 * 30 / 1^{0.2} * 3182^{0.1}$$

$$= 1.937 \quad \text{min}$$

$$i = a / (t+b)^c \quad \text{(Table 3d, 10years Return Period)}$$

$$= 1157.7 / (1.937 + 19.04)^{0.597}$$

$$= 188 \quad \text{mm/hr}$$

Therefore,  $Q = 0.278 * 0.95 * 188 * 0.003182$

$$= 0.158 \quad \text{m}^3/\text{sec}$$

$$= \underline{\underline{9487}} \quad \text{lit/min}$$

Calculation Maximum Capacity of Proposed 375mm dia. Underground pipe.

Manning Equation  $V = R^{2/3} * S_f^{0.5} / n$

dia 375 mm

where  $R = \pi r^2 / 2 \pi r$  r = 0.1875 m

$$= r/2$$

$$= 0.09375 \quad \text{m}$$

$$n = 0.012 \quad \text{s/m}^{1/3} \quad \text{(Table 13 of Stormwater Drainage Manual)}$$

$$1/100 \quad S_f = 0.01$$

Therefore,  $V = 0.09375^{2/3} * 0.01^{0.5} / 0.012$

$$= 1.72 \quad \text{m/sec}$$

Maximum Capacity ( $Q_{\max}$ ) =  $0.9 * V * A$  (0.9 factor is adopted for sedimentation)

$$= 0.9 * 1.72 * \pi r^2$$

$$= 0.171 \quad \text{m}^3/\text{sec}$$

1 nos of pipe  $= 0.171 \quad \text{m}^3/\text{sec}$

$$= 10257 \quad \text{lit/min}$$

$$> 9487 \quad \text{lit/min}$$

**Provide 375mm dia underground pipe (1:100) is OK**



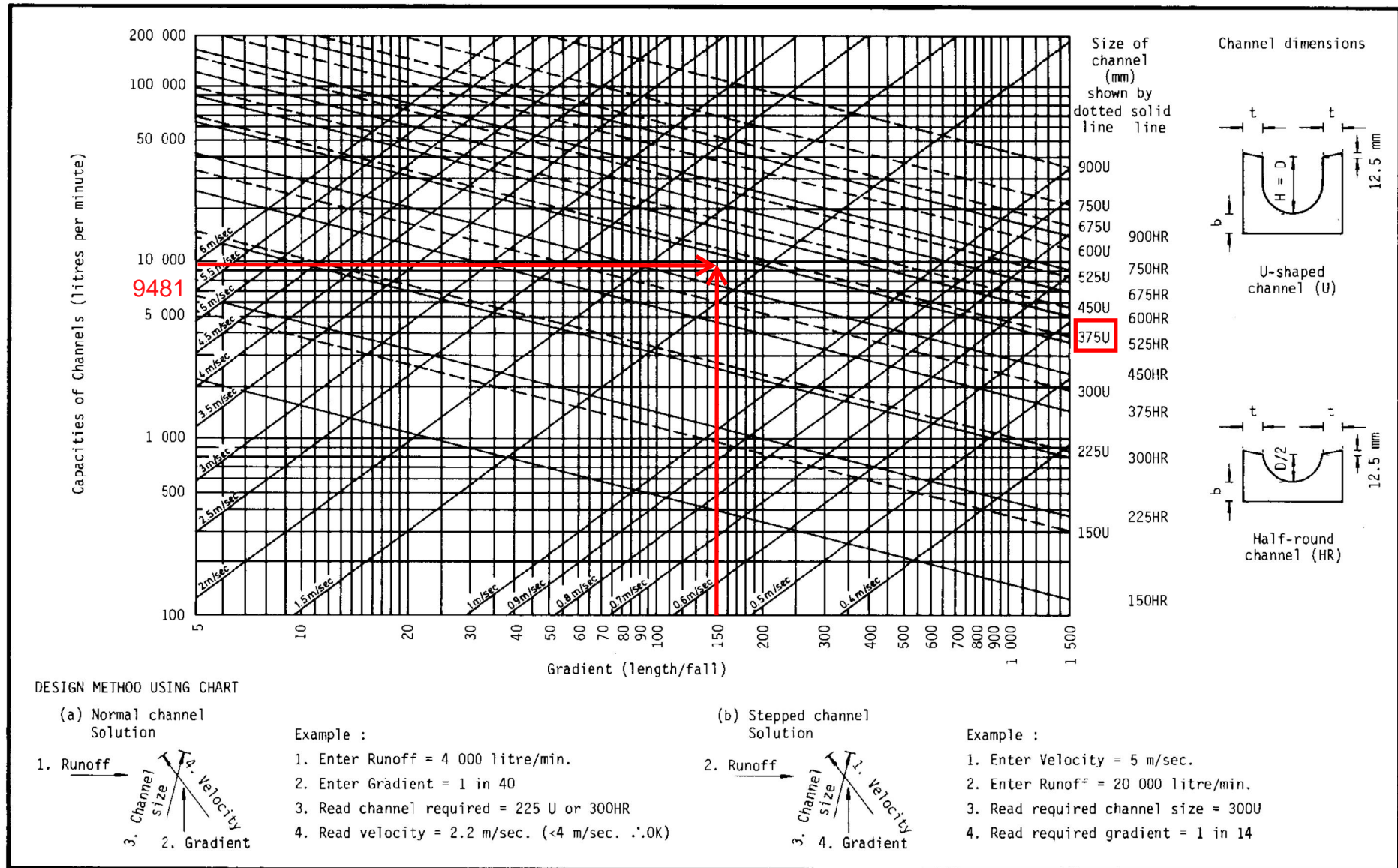
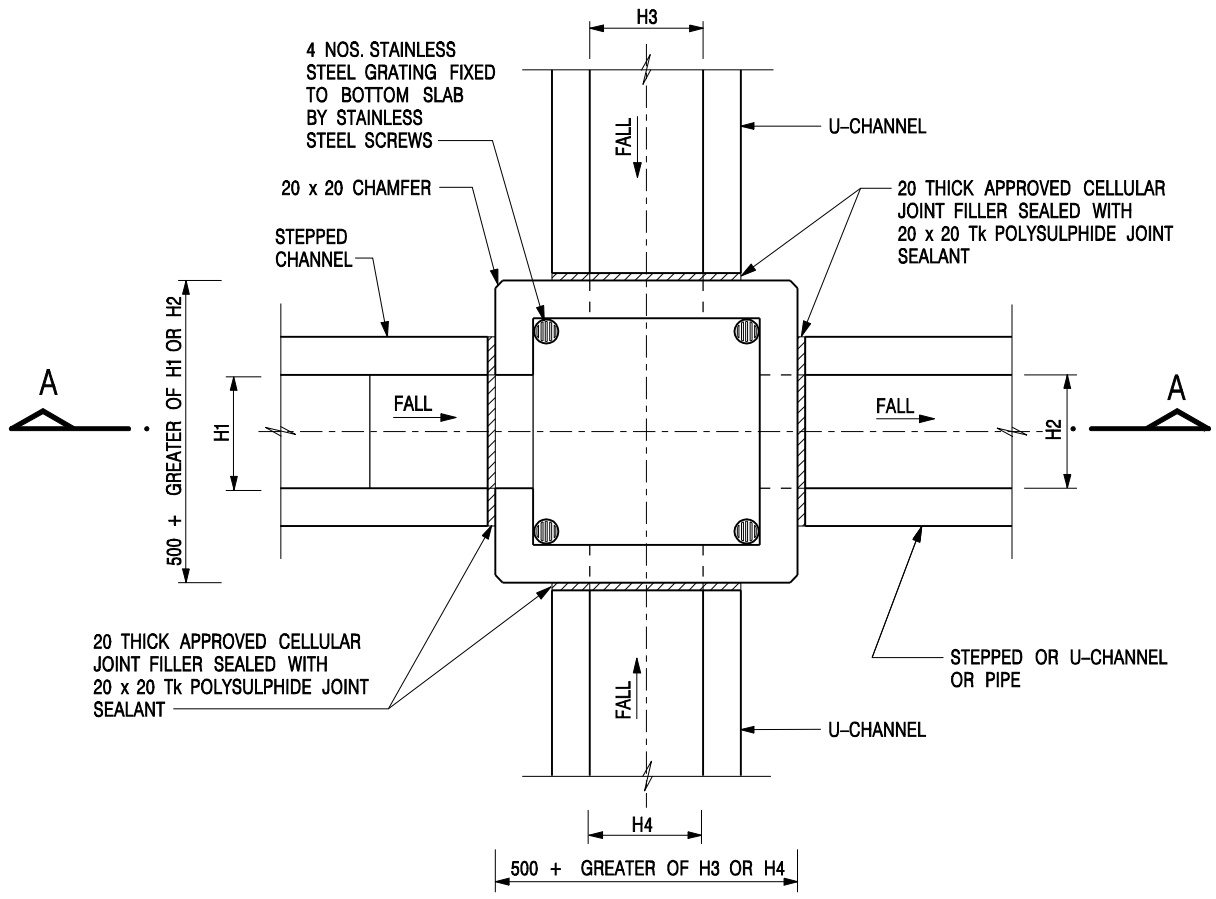
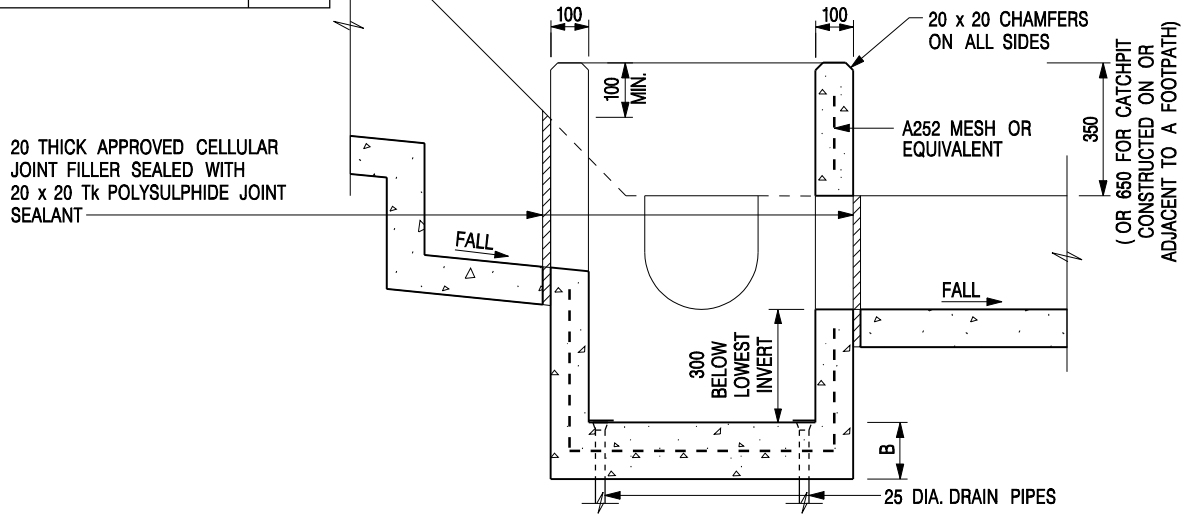


Figure 8.7 - Chart for the Rapid Design of Channels





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



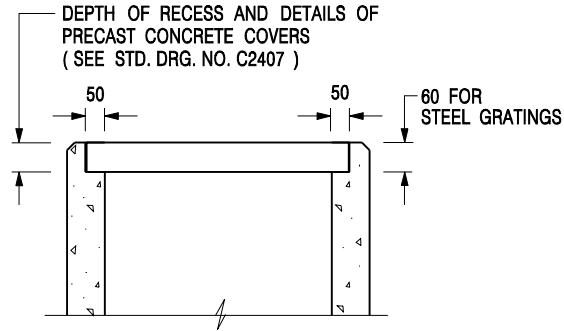
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. REFER TO SHEET 2 FOR OTHER NOTES.

-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
<b>REF.</b>	<b>REVISION</b>	<b>SIGNATURE</b>	<b>DATE</b>

**CATCHPIT WITH TRAP**  
**(SHEET 1 OF 2)**



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




**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
<b>REF.</b>	<b>REVISION</b>	<b>SIGNATURE</b>	<b>DATE</b>

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

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

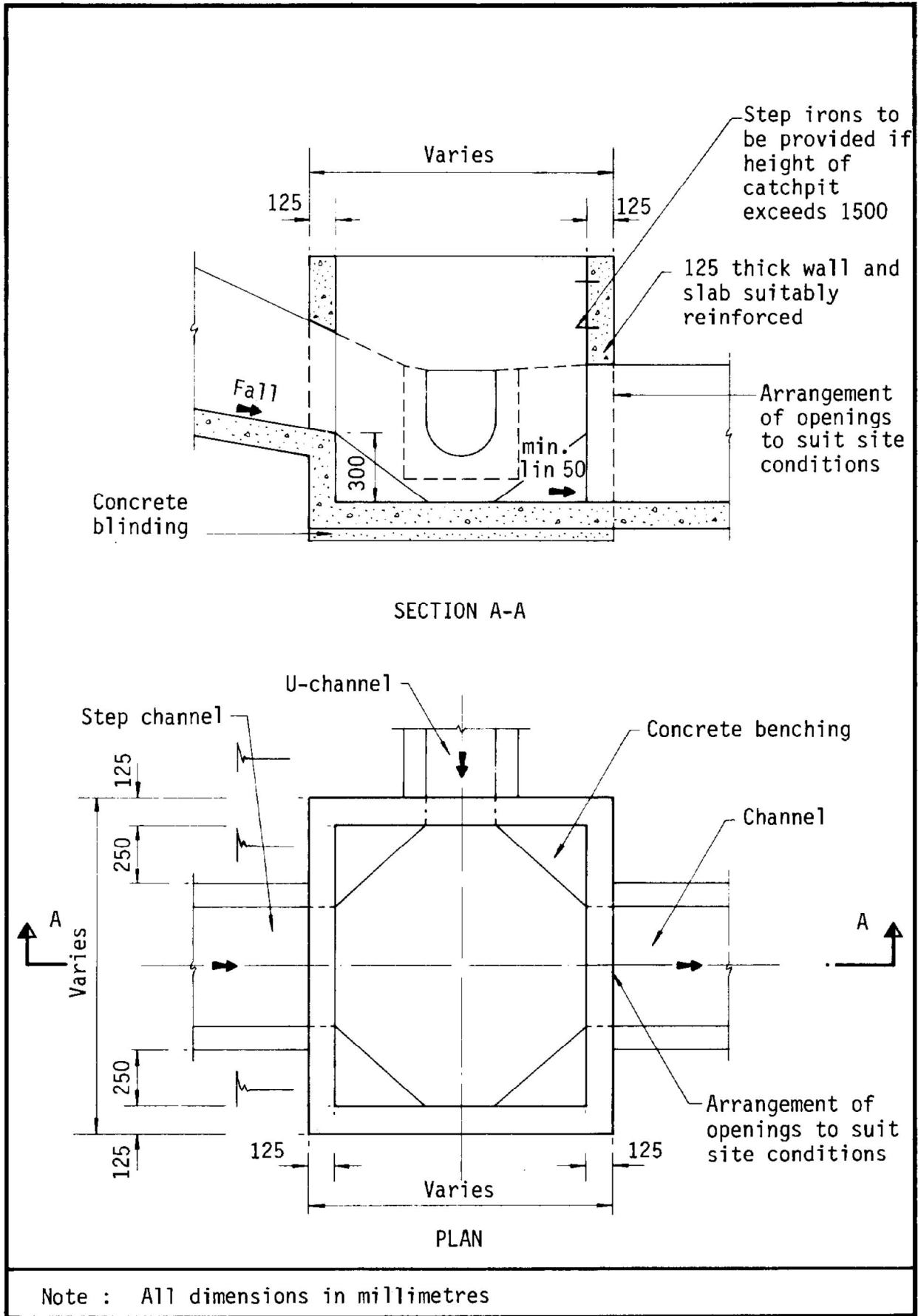


Figure 8.10 - Typical Details of Catchpits

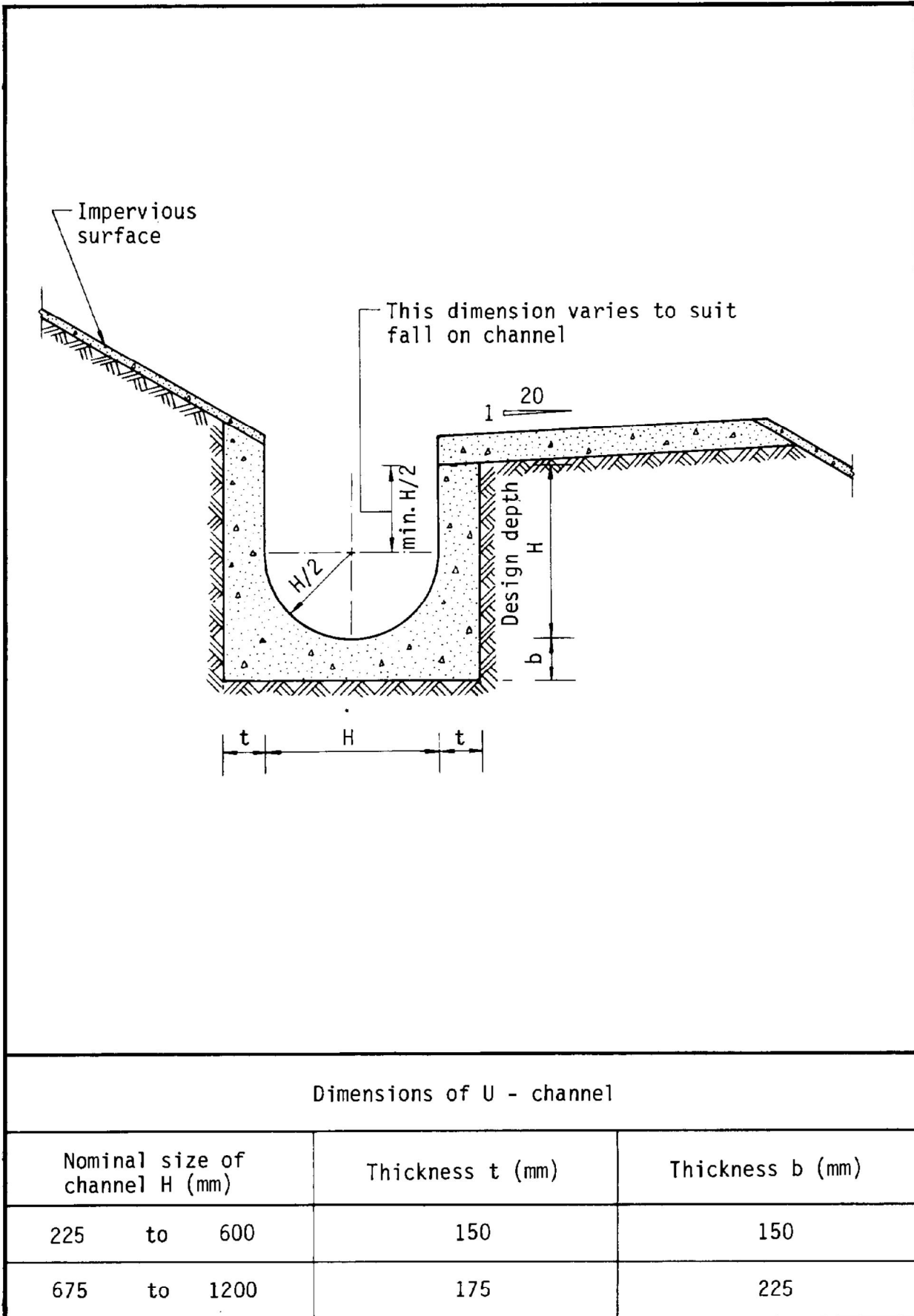


Figure 8.11 - Typical U-channel Details



Photo 1