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Office of the Water Authority

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Reference

(1) in WSD 1640/47/03 Pt.1 TJ1

1 September 2006

Distribution: To all Licensed Plumbers and Authorised Persons

Dear Sir/Madam,

**WSD Circular Letter No. 2/2006**  
**Amendment to WSD Circular Letter No. 5/2005**  
**Implementation of Master Metering Policy for Fresh Water and**  
**Temporary Mains-water for Flushing Inside Service and Fire Service**  
**(This Circular Letter is to be read in**  
**conjunction with Circular Letter No. 5/2005)**

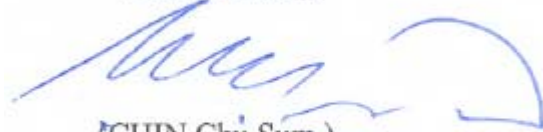
After the WSD Circular Letter No. 5/2005 dated 23.11.2005 on the implementation of the Master Metering policy, we have conducted a review and make the following revisions:

- (a)(i) If the watermain is to be laid underneath internal roads which is scheduled to be handed over to government within 5 years after completion, master meters should be installed for each separate connection group for buildings/podia at the respective boundary.
- (ii) If the handing over is scheduled longer than 5 years after completion, the said master meter positions mentioned in (a)(i) are still required but temporarily bridged over by short pieces. On top of this, master meters are also required at the estate's boundary (please see Sketch no. SK20268/8).
- (b) To facilitate meter reading, maintenance and replacement, master meters need to be housed in meter room.
- (c) Fire service supply needs to be unaffected by potable supply interruption as far as practicable. Also, the metering characteristics of both supplies are different. Therefore, fire service needs to be separate from potable supply right at the lot boundary. Typical configuration of master meter is amended as shown in the attached SK 20268/1-2.
- (d) A revised set of sketches SK 20268/1-8 superceding previous set of

sketches SK20202 (accompanying of Circular Letter 5/2005) is attached for your reference.

For more information, please contact our Engineer Mr. Alan WONG at tel. no. 2829 4726.

Yours faithfully,



(CHIN Chu Sum)  
for Water Authority

c.c.

Housing Department

Building Department

Architectural Services Department

Fire Services Department

Hong Kong Housing Society

Real Estate Development Association

The Hong Kong Institute of Architects

The Hong Kong Institution of Engineers

The Hong Kong Institute of Surveyors

The Institution of Plumbing and Heating Engineering – Hong Kong Council

Hong Kong Plumbing and Sanitary Ware Trade Association Ltd.

Hong Kong Licensed Plumbers Association Ltd.

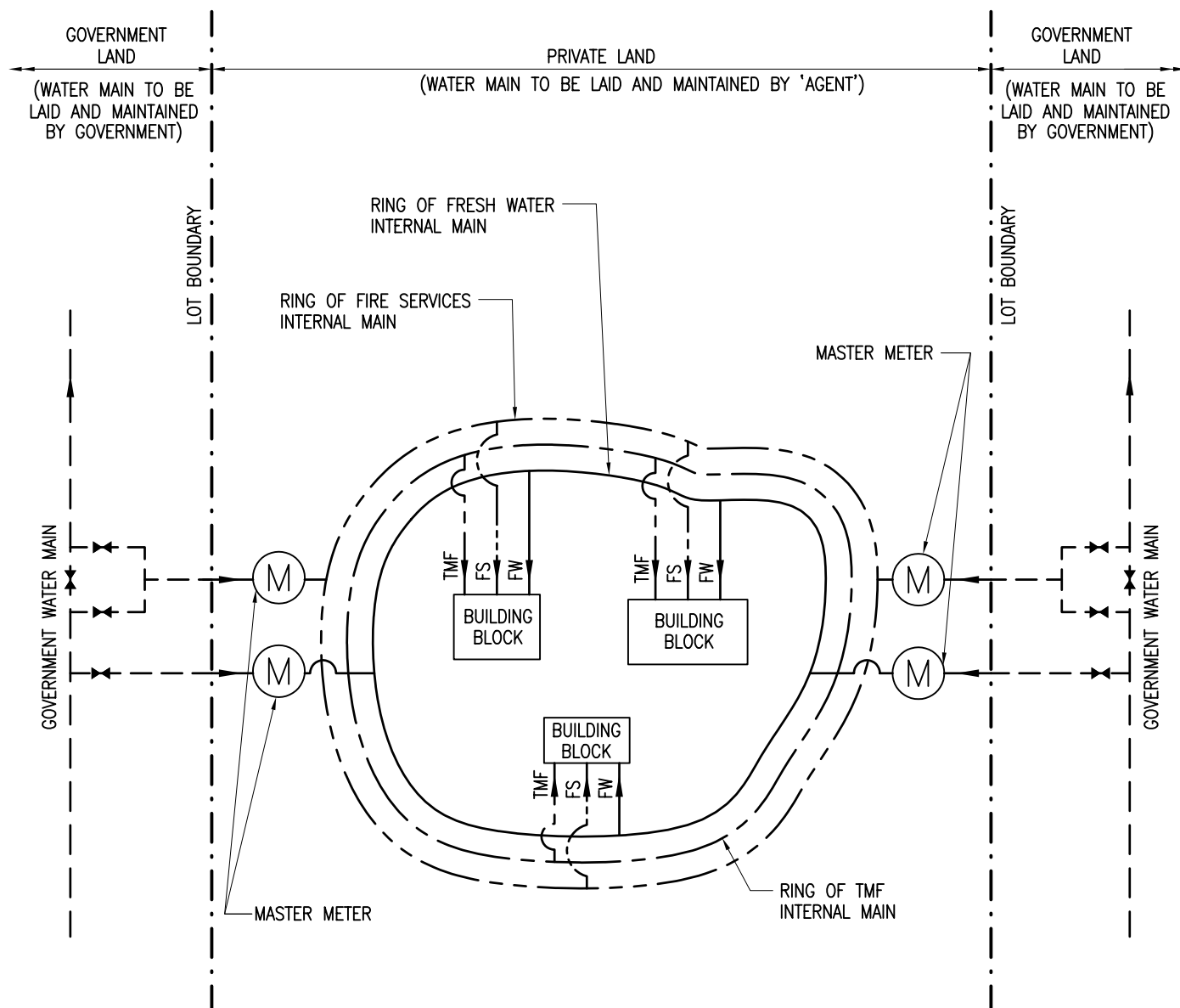
Hong Kong Plumbing General Union

Hong Kong Water Works Professionals Association Ltd.

The Hong Kong Institution of Plumbing and Drainage Ltd.

The Association of Registered Fire Service Installation Contractors of Hong Kong Ltd.

The Hong Kong Association of Property Management Companies Limited



**TYPICAL CONFIGURATION OF MASTER METER**  
**(AND OPTIONALLY WITH TMF)**  
**(DUAL FIRE SERVICES CONNECTION CASE SHOWN AS EXAMPLE ONLY)**

CAD REF. SK20268\_01.dwg PLOTTING SCALE 1 : 1

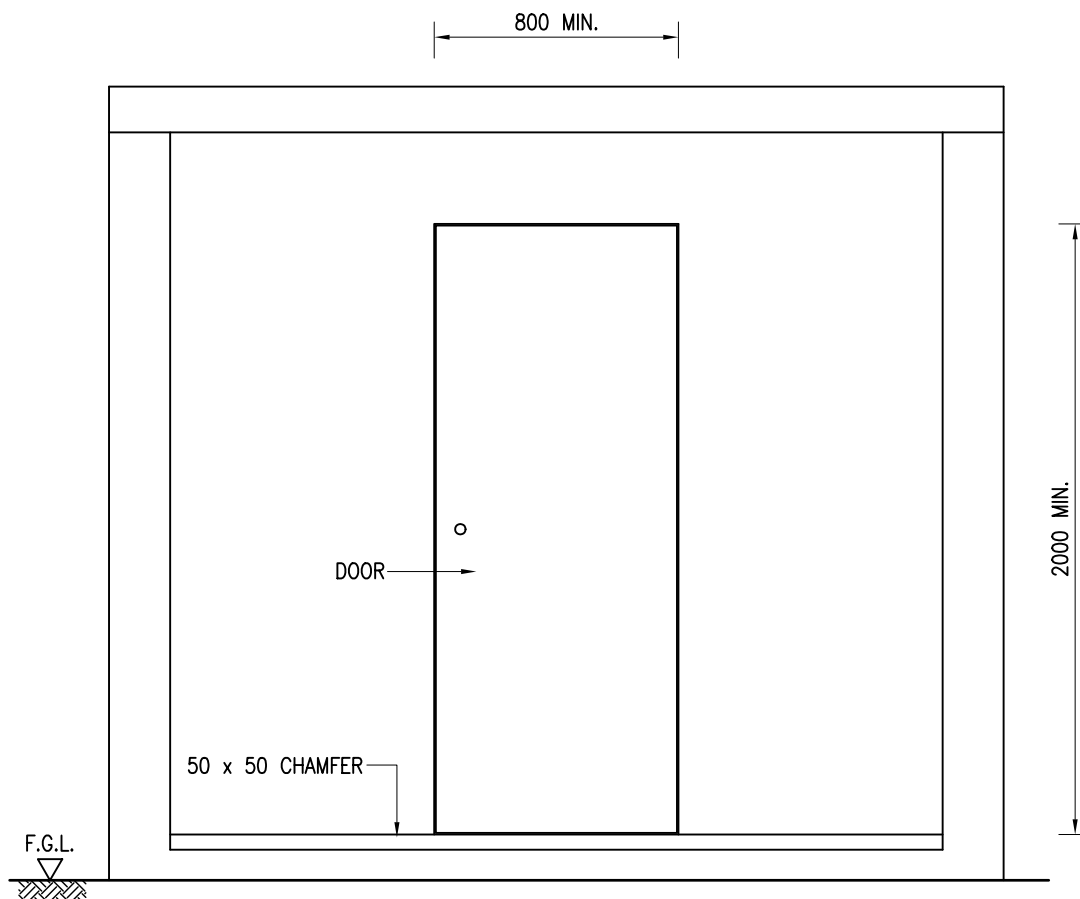
編號 no.	日期 date	摘要 description	簽署 initial
修訂 REVISION			

圖則名稱 drawing title  
**MASTER METER –  
 SCHEMATIC LAYOUT –  
 DUAL FIRE SERVICES  
 CONNECTION  
 (SHEET 1 OF 2)**

簽署 initial	日期 date
繪製 drawn K. S. TSUI	28/08/06
核對 checked C. P. WONG E/CS(TS)2	28/08/06
加簽 endorsed Y. H. TAM SE/CS(TS)	28/08/06
核准 approved M. P. LAM CE/CS	28/08/06

圖則編號 drawing no.	比例 scale
SK 20268/1	N.A.
 <b>水務署</b> Water Supplies Department	






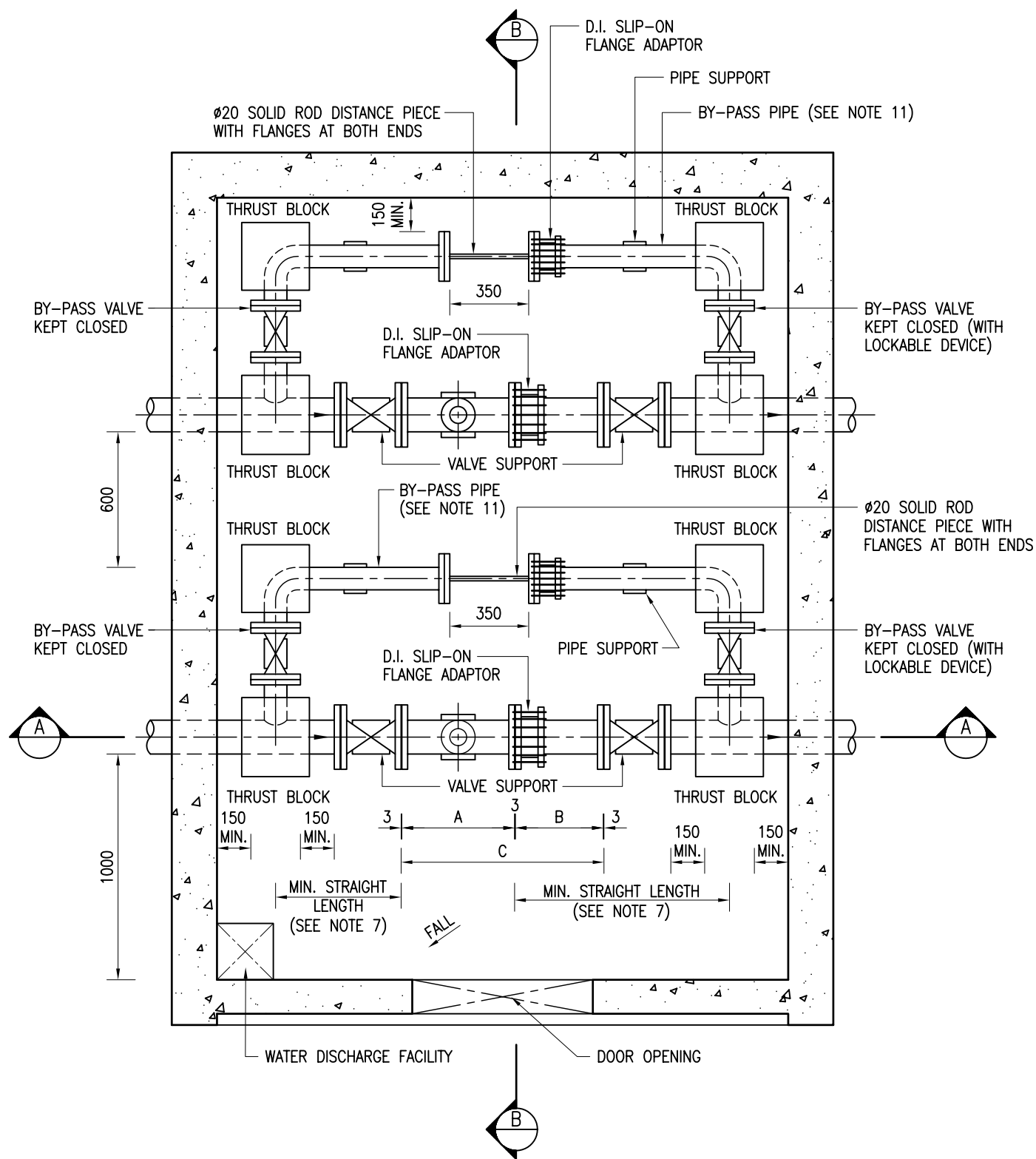
ELEVATION

編號 no.	日期 date	摘 要 description	簽 署 initial
修 訂 REVISION			

圖則名稱 drawing title  
**MASTER METER –**  
**CONCEPTUAL DESIGN OF**  
**MASTER METER ROOM**  
**(SHEET 1 OF 5)**

簽署 initial	日期 date
繪製 drawn K. S. TSUI	28/08/06
核對 checked C. P. WONG E/CS(TS)2	28/08/06
加簽 endorsed Y. H. TAM SE/CS(TS)	28/08/06
核准 approved M. P. LAM CE/CS	28/08/06

圖則編號 drawing no.	比例 scale
SK 20268/3	N.A.
 <b>水 務 署</b> Water Supplies Department	



編號 no.	日期 date	摘要 description	簽署 initial
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修訂  
REVISION

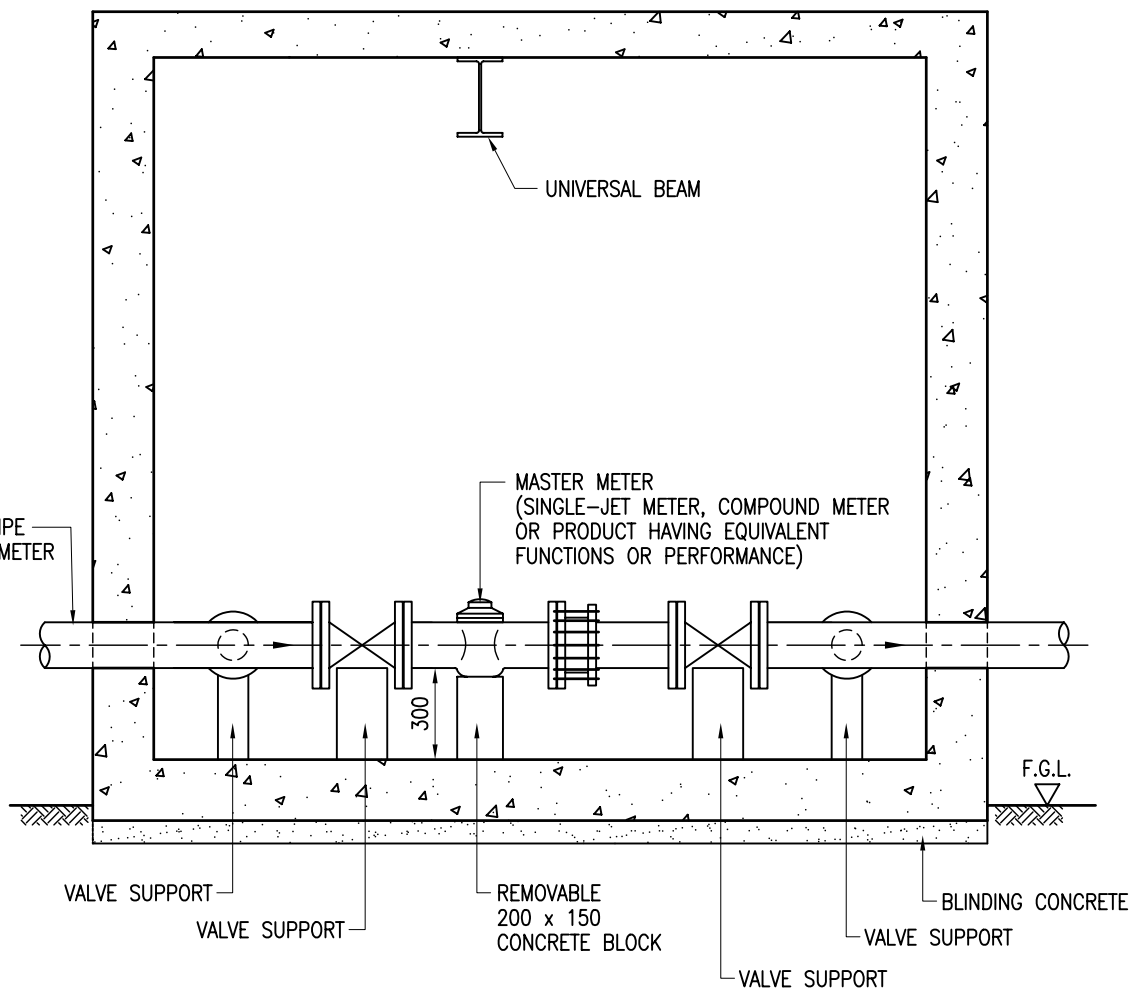
圖則名稱 drawing title  
**MASTER METER -  
CONCEPTUAL DESIGN OF  
MASTER METER ROOM  
(SHEET 2 OF 5)**

簽署 initial	日期 date
繪製 drawn K. S. TSUI	28/08/06
核對 checked C. P. WONG E/CS(TS)2	28/08/06
加簽 endorsed Y. H. TAM SE/CS(TS)	28/08/06
核准 approved M. P. LAM CE/CS	28/08/06

圖則編號 drawing no.	比例 scale
SK 20268/4	N.A.



**水務署**  
Water Supplies Department

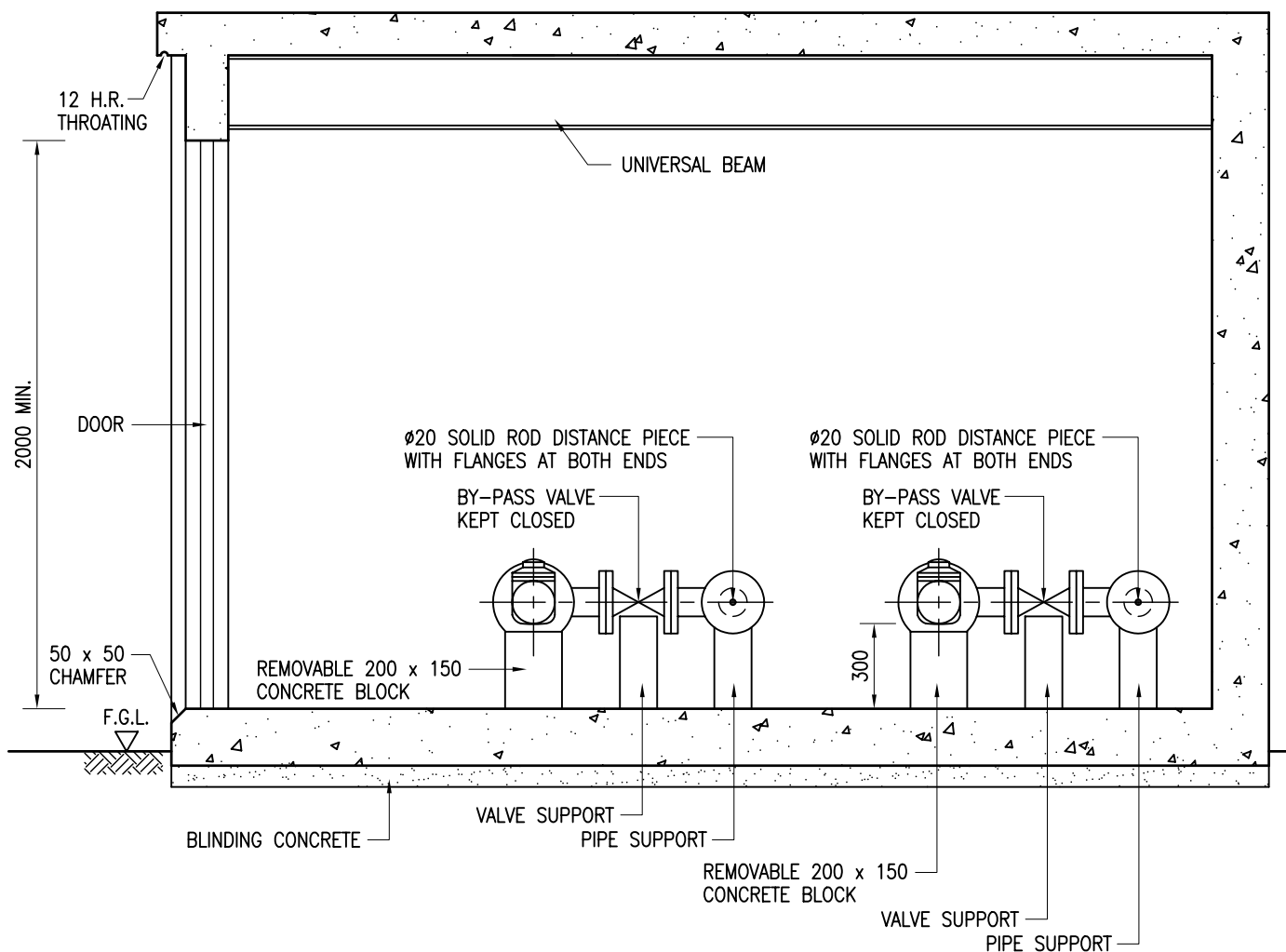


**SECTION A – A**  
**(NON-RETURN VALVE NOT SHOWN)**

(REDUCERS, NON-RETURN VALVES AND RESERVED SALT WATER INTERNAL MAIN WHERE APPROPRIATE NOT SHOWN)

編號 no.	日期 date	摘要 description	簽署 initial
修訂 REVISION			

圖則名稱 drawing title  MASTER METER –  CONCEPTUAL DESIGN OF MASTER METER ROOM (SHEET 3 OF 5)	簽署 initial		日期 date	圖則編號 drawing no.  SK 20268/5	比例 scale  N.A.
	繪製 drawn  K. S. TSUI		28/08/06		
	核對 checked  C. P. WONG E/CS(TS)2		28/08/06	 <b>水務署</b> Water Supplies Department	
	加簽 endorsed  Y. H. TAM SE/CS(TS)		28/08/06		
	核准 approved  M. P. LAM CE/CS		28/08/06		



# SECTION B - B (NON-RETURN VALVE NOT SHOWN)

(REDUCERS, NON-RETURN VALVES AND RESERVED SALT WATER INTERNAL MAIN WHERE APPROPRIATE NOT SHOWN)

編號 no.	日期 date	摘要 description	簽署 initial
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修訂  
REVISION

圖則名稱 drawing title

MASTER METER -  
CONCEPTUAL DESIGN OF  
MASTER METER ROOM  
(SHEET 4 OF 5)

簽署 initial

繪製 drawn

K. S. TSUI

核對 checked

C. P. WONG  
E/CS(TS)2

加簽 endorsed

Y. H. TAM  
SE/CS(TS)

核准 approved

M. P. LAM  
CE/CS

日期 date

28/08/06

28/08/06

28/08/06

28/08/06

圖則編號 drawing no.

SK 20268/6

比例 scale

N.A.



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## MASTER METER OF VARIOUS SIZES

METER TYPE	SIZE (mm)	DIMENSIONS (mm)		
		A	B	C
SINGLE JET / COMPOUND (IN-LINE) / PISTON	50	300	141	450
	80	350	360	719
	100	350	370	729
VOLTMAN	150	500	390	899
	200	560	410	979
COMPOUND (BY-PASS)	250	450	440	899
	300	500	450	959

### NOTES :

- ALL DIMENSIONS ARE IN MILLIMETRES.
- THIS SET OF DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE HONG KONG WATERWORKS STANDARD REQUIREMENT FOR PLUMBING INSTALLATION IN BUILDING. IN PARTICULAR, THE REQUIREMENT RELATED TO INSTALLATION OF METER AS SPECIFIED IN CHAPTER 1.
- UNIVERSAL BEAM(S) SHALL BE ABLE TO LIFT UP 2.5 TIMES THE WEIGHT OF THE METER.
- THE CENTRE-LINE OF THE PIPEWORK MUST BE HORIZONTAL.
- ALL NEWLY LAID WATER MAINS MUST BE CLEANED AND STERILIZED BEFORE THE INSTALLATION OF SPECIFIED METER OR PRODUCT HAVING EQUIVALENT FUNCTIONS OR PERFORMANCE INSIDE THE ROOM.
- DRAIN PIPE FOR METER ROOM SHALL BE PROVIDED.
- A MINIMUM OF STRAIGHT PIPE UPSTREAM AND DOWNSTREAM FROM THE FLANGES OF THE MASTER METER POSITION SHALL BE PROVIDED AS FOLLOWS :-

METER TYPE	UPSTREAM	DOWNSTREAM
VOLTMAN / COMPOUND (BY-PASS)	10D	5D
SINGLE JET / COMPOUND (IN-LINE) / PISTON	5D	2D

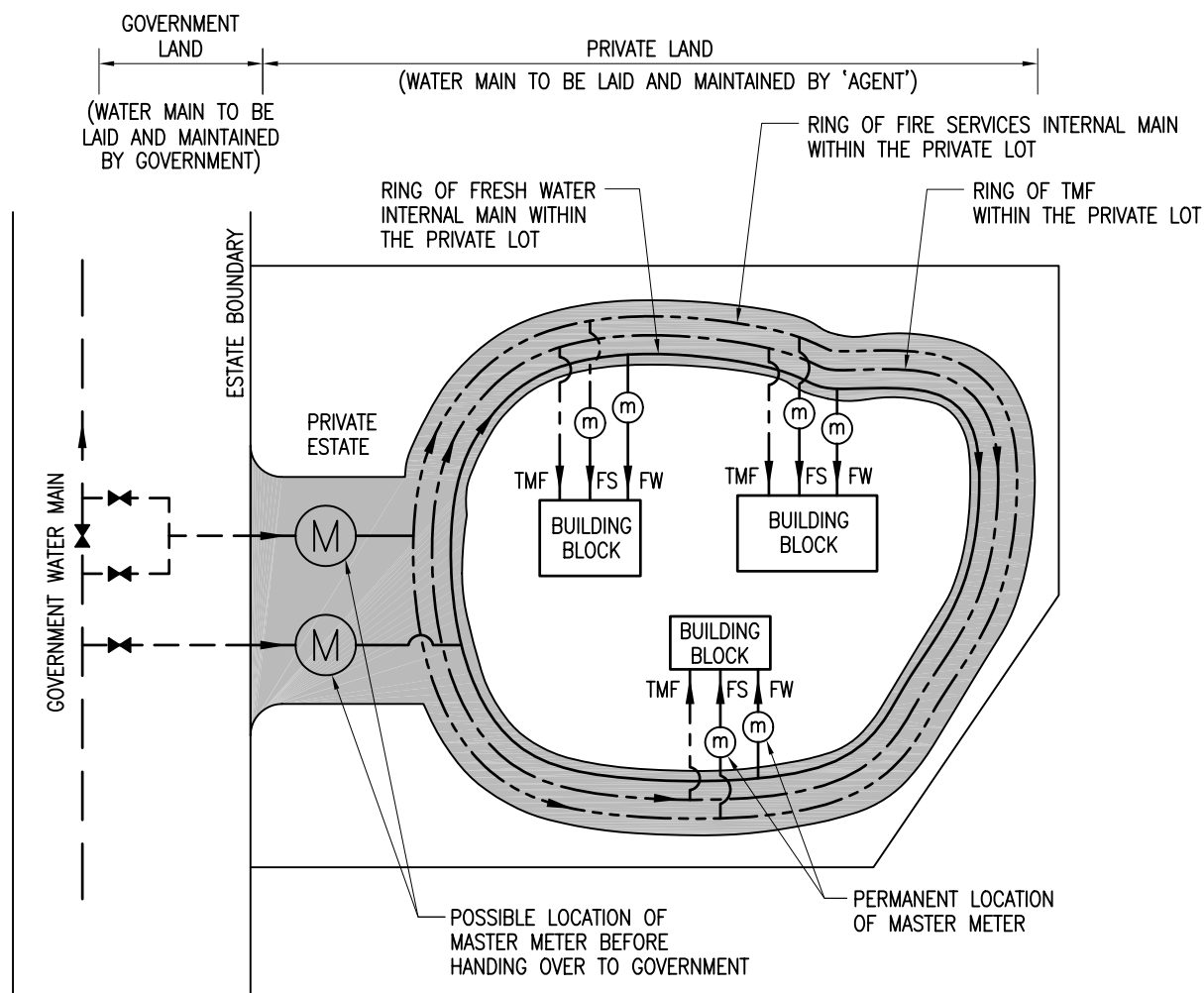
WHERE D IS THE NOMINAL DIAMETER OF THE MASTER METER.

- DIMENSION 'A' AND 'B' SHOWN IN THE TABLES ARE FOR INDICATION ONLY, EXACT DIMENSION TO BE DETERMINED ON SITE.
- A RESERVED SALT WATER INTERNAL MAIN SHALL BE PROVIDED FOR FUTURE CONVERSION OF FLUSHING SUPPLY FROM TMF TO SALT WATER.
- WHERE TMF SUPPLY IS GIVEN, A COMMUNAL TMF METER SHALL BE PROVIDED TO EACH INDIVIDUAL BLOCK OF BUILDING.
- SIZE OF BY-PASS PIPE SHALL BE AS FOLLOWS :-

SIZE OF SUPPLY MAIN	SIZE OF BY-PASS MAIN
LESS OR EQUAL TO DN150	DN100
GREATER OR EQUAL TO DN200	DN150

編號 no.	日期 date	摘要 description	簽署 initial
修訂 REVISION			

圖則名稱 drawing title  MASTER METER –  CONCEPTUAL DESIGN OF MASTER METER ROOM (SHEET 5 OF 5)	簽署 initial	日期 date	圖則編號 drawing no.  SK 20268/7	比例 scale  N.A.
	繪製 drawn  K. S. TSUI	28/08/06		
	核對 checked  C. P. WONG E/CS(TS)2	28/08/06	<div>水務署 Water Supplies Department</div>	
	加簽 endorsed  Y. H. TAM SE/CS(TS)	28/08/06		
	核准 approved  M. P. LAM CE/CS	28/08/06		



TYPICAL CONFIGURATION OF MASTER METER WHERE  
INTERNAL ROAD CONSTRUCTED BY DEVELOPMENT AND TO BE  
HANDED OVER TO GOVERNMENT IN A DEFINITE FUTURE  
(OPTIONALLY WITH TMF)

NOTES :

1. FOR GENERAL ARRANGEMENT OF MASTER METER REFER TO DRAWING NO. SK20268/2.

LEGEND AND ABBREVIATIONS :

- FW FRESH WATER MAIN  
FS FIRE SERVICES MAIN  
TMF TEMPORARY MAIN FOR FLUSHING  
(M) MASTER METER AT TRANSITIONAL PERIOD  
(m) PERMANENT MASTER METER WILL BE INSTALLED JUST BEFORE THE HANDOVERING OF INTERNAL ROAD.  
INTERNAL ROAD TO BE HANDED OVER TO GOVERNMENT

編號 no.	日期 date	摘要 description	簽署 initial
修訂 REVISION			

圖則名稱 drawing title	簽署 initial	日期 date	圖則編號 drawing no.	比例 scale	
	繪製 drawn				
	K. S. TSUI	28/08/06	SK 20268/8	N.A.	
	核對 checked	C. P. WONG E/CS(TS)2			28/08/06
	加簽 endorsed	Y. H. TAM SE/CS(TS)			28/08/06
核准 approved	M. P. LAM CE/CS	28/08/06			
MASTER METER – SCHEMATIC LAYOUT OF MASTER METER IN PRIVATE ROAD					
			 水務署 Water Supplies Department		