



水務署
Water Supplies Department

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Reference (2) in WSD 3318/50 Pt. 11 T/J (2)

30 June 2026

Distribution: To all Licensed Plumbers and Authorized Persons

Dear Sirs,

WSD Circular Letter No. 5/2026
Amendments to “Technical Requirements for Plumbing Works in Buildings”
and “Guide to Application for Water Supply”

This Circular Letter promulgates amendments to “Technical Requirements for Plumbing Works in Buildings” (TR) and “Guide to Application for Water Supply” (Guidebook).

Amendments

2. Water Supplies Department has amended Section 3.1.5 and figures, and added a new figure in TR; while item 3.1.5 of Appendix 1(1) to Guidebook is also amended, details are shown in Appendix I and Appendix II respectively.

Effective Date

3. The above amendments shall take immediate effect.

Enquiry

4. Should you have any enquiry, please contact our Engineer/Technical Support(3) at telephone no. 2829 4726.

Yours faithfully,

(Original Signed)

(NG Wa Kin, Ricky)
for Water Authority

Encl.
(with Chinese translation)



c.c.

Housing Department (Attn: SM/QM)

Buildings Department

Architectural Services Department

Fire Services Department

The Hong Kong Housing Society

The Hong Kong Institute of Architects

The Hong Kong Institution of Engineers

The Hong Kong Institute of Surveyors

The Chartered Institute of Plumbing and Heating Engineering – Hong Kong Branch

Hong Kong Plumbing and Sanitary Ware Trade Association Ltd.

Hong Kong Licensed Plumbing Professionals Association Ltd.

Hong Kong Water Works Professionals Association Ltd.

The Hong Kong Institution of Plumbing and Drainage Ltd.

Plumbing Technology Student Association

The Association of Registered Fire Service Installation Contractors of Hong Kong Limited

Real Estate Developers Association of Hong Kong

The Hong Kong Construction Association, Ltd.

Hong Kong Registered Contractors Association Company Ltd.

The Hong Kong Federation of Electrical & Mechanical Contractors Ltd.

Contractor's Authorised Signatory Association Ltd.

Registered Minor Works Contractor Signatory Association Ltd.

Hong Kong General Building Contractors Association Ltd.

Hong Kong Institute of Vocational Education

Hong Kong Institute of Construction, Construction Industry Council

Hong Kong Licensed Plumbers Union Limited

Hong Kong Metropolitan University Li Ka Shing School of Professional and Continuing Education

The Association of Electrical and Mechanical Engineering (Hong Kong) Ltd.

Pipeman Engineering (International) Limited

Hong Kong Institute of Water and Sanitation Safety

Hong Kong Plumbing General Union

WSD 3318/15/81

Appendix I

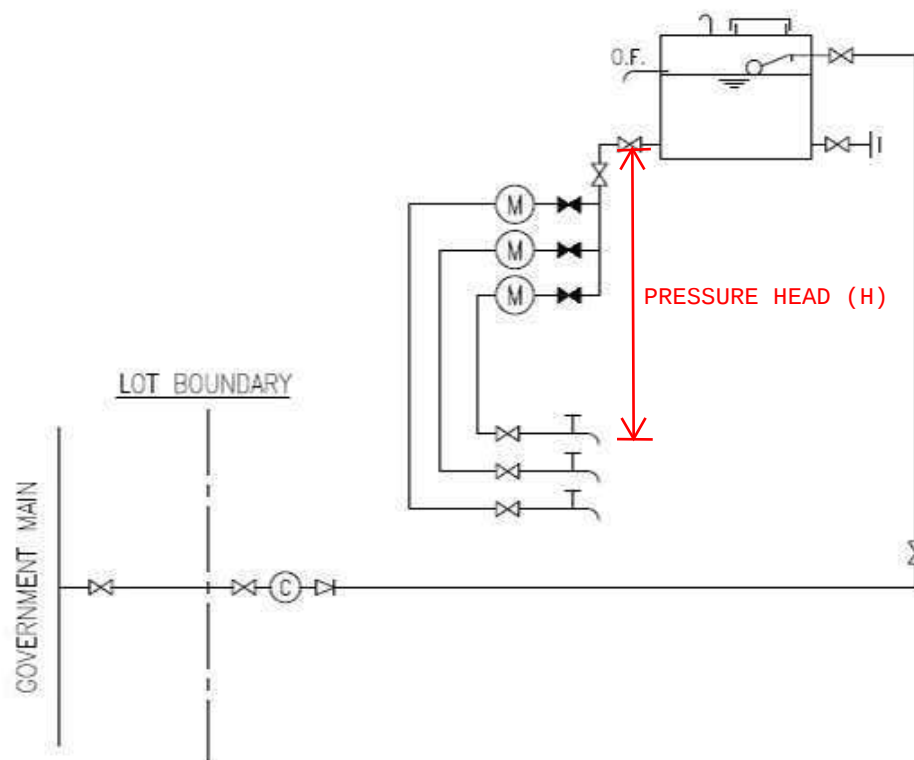
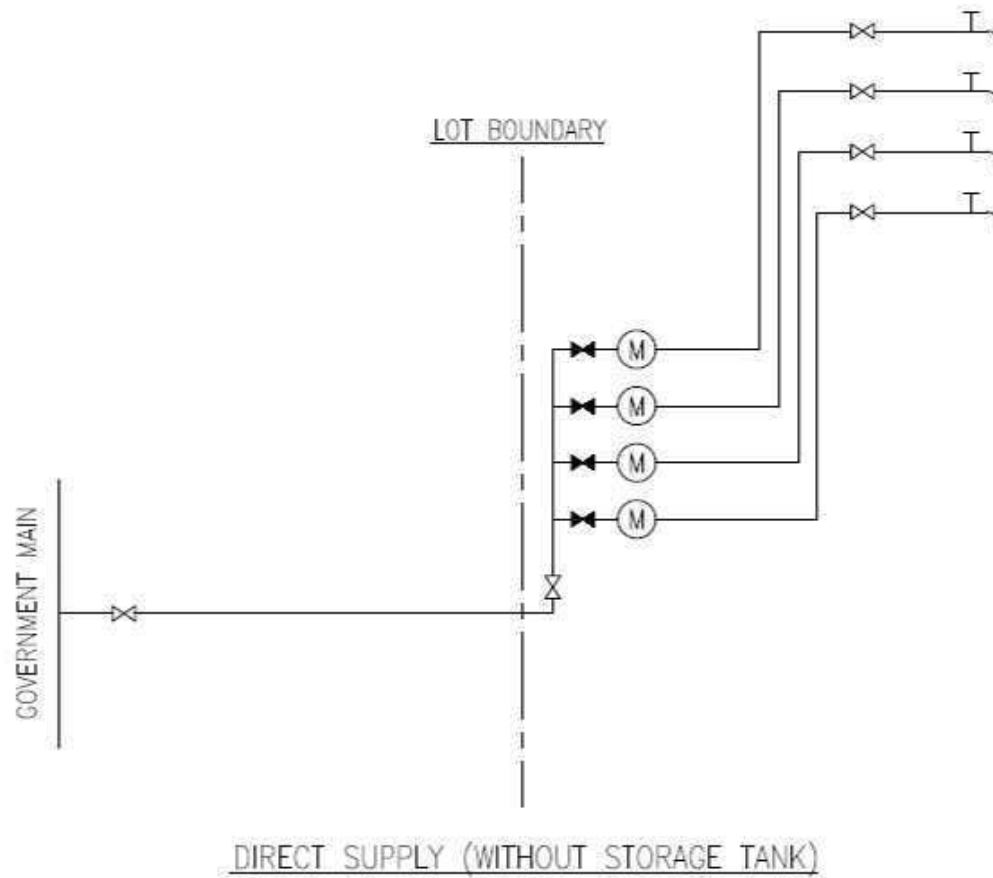
#3.1.5 In case the meters are sited at roof level, and ~~system~~ the pressure head between the outlet level of the water tank and the draw-off point is ~~lower~~ less than 15m, fullway gate valves ~~instead of loose jumper stopcock~~ shall be fitted before meter positions.

List of Figures (This list includes only the figures that were amended under WSD Circular No. 5/2026)

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Fig. 6	Indirect Supply System
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Fig. 6D	Schematic layout of Hydro-vent Re-circulation System (Sheet 2 of 2)
Fig. 7	Non-pressure Type Heater/ Dispenser (Sheet 1 of 2)
Fig. 7A	Non-pressure Type Heater/ Dispenser (Sheet 2 of 2)
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Fig. 22	Schematic Layout Diagram of Pressure Reducing Valves
Fig. 24	Typical General Configuration of Master Meter and Sub-meter Chambers in Multiple-block development

Appendix I

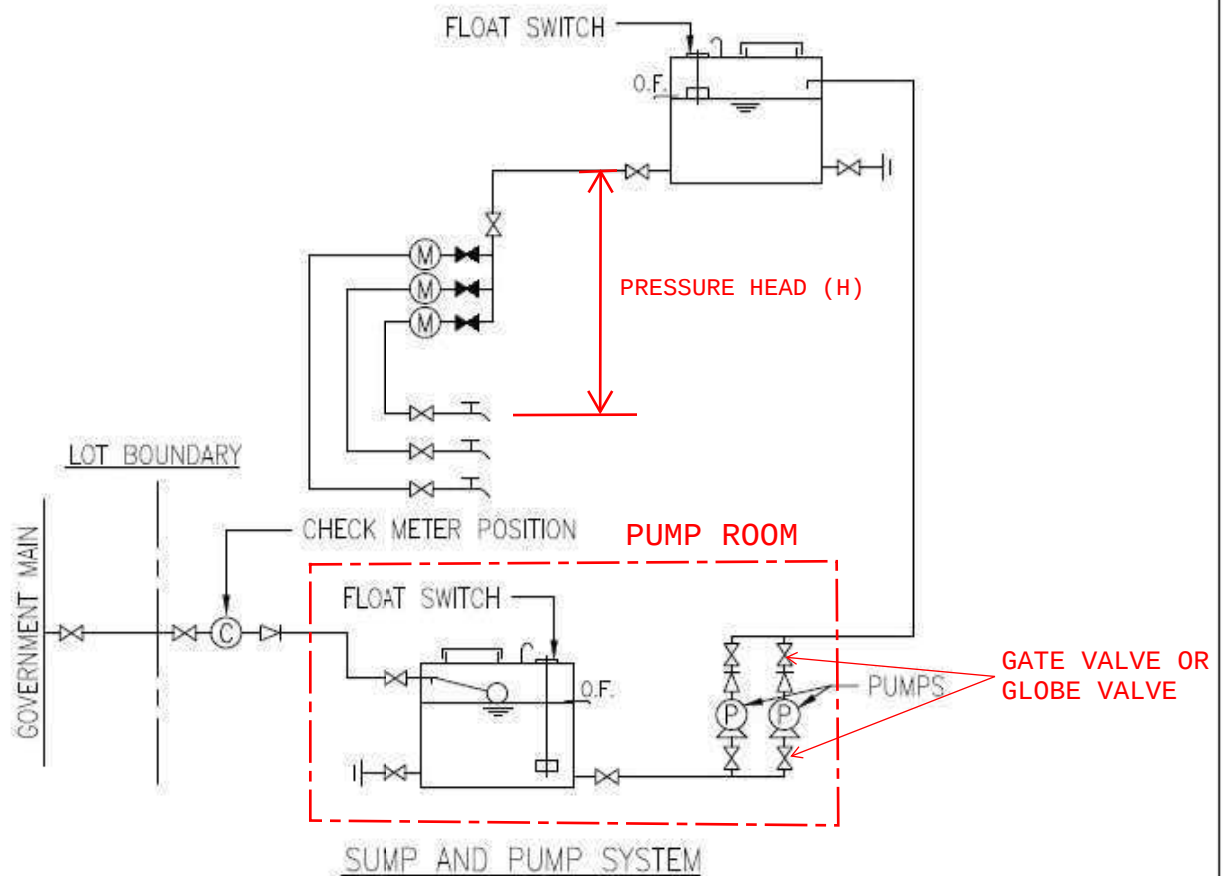
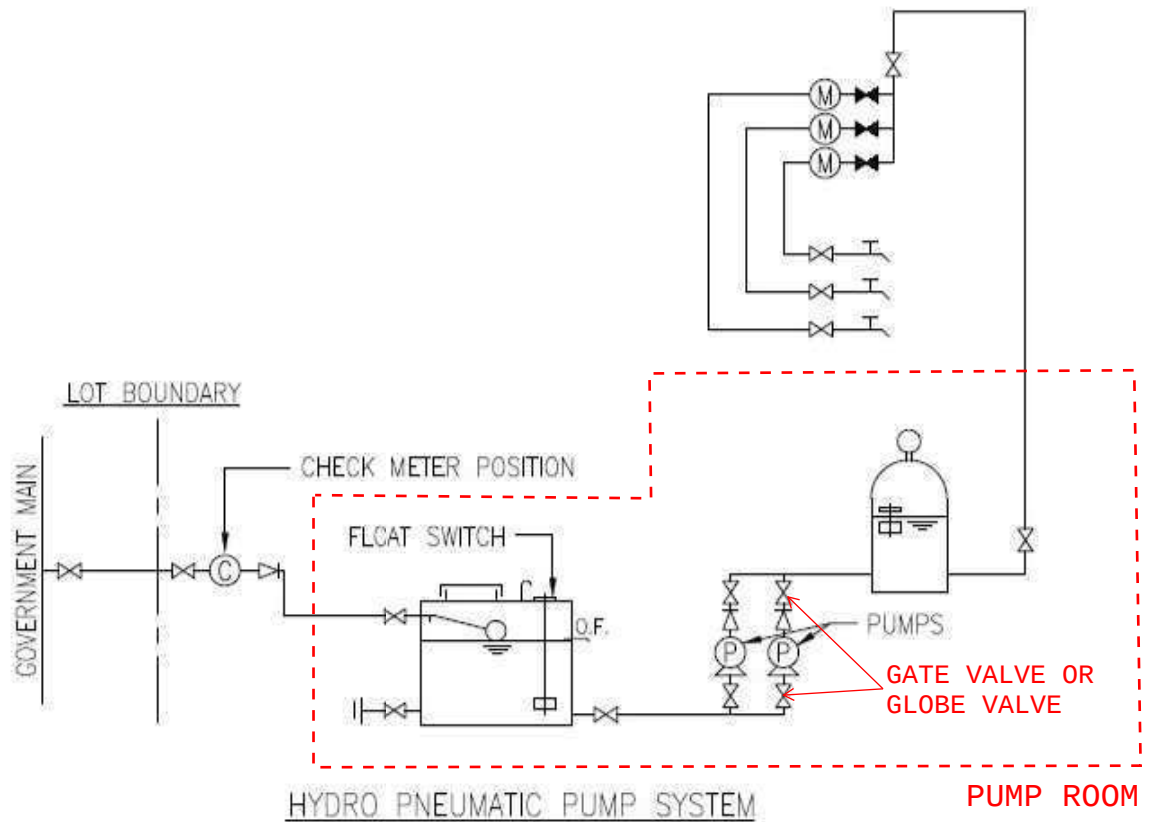
<u>Fig. No.</u>	<u>Figure Title</u>
Fig. 27	Revised-General Arrangement of Master Meter Room (Sheet 2 of 5)
Fig. 28	Revised-General Arrangement of Master Meter Room (Sheet 3 of 5)
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Fig. 43	Details of Pressure Tapping Point
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Fig. 44	Schematic Piping Diagram for Improvised Hose Reel System (Direct-feed type)



NOTES: HEAD (H) BETWEEN THE OUTLET LEVEL OF THE WATER TANK AND THE DRAW-OFF POINT

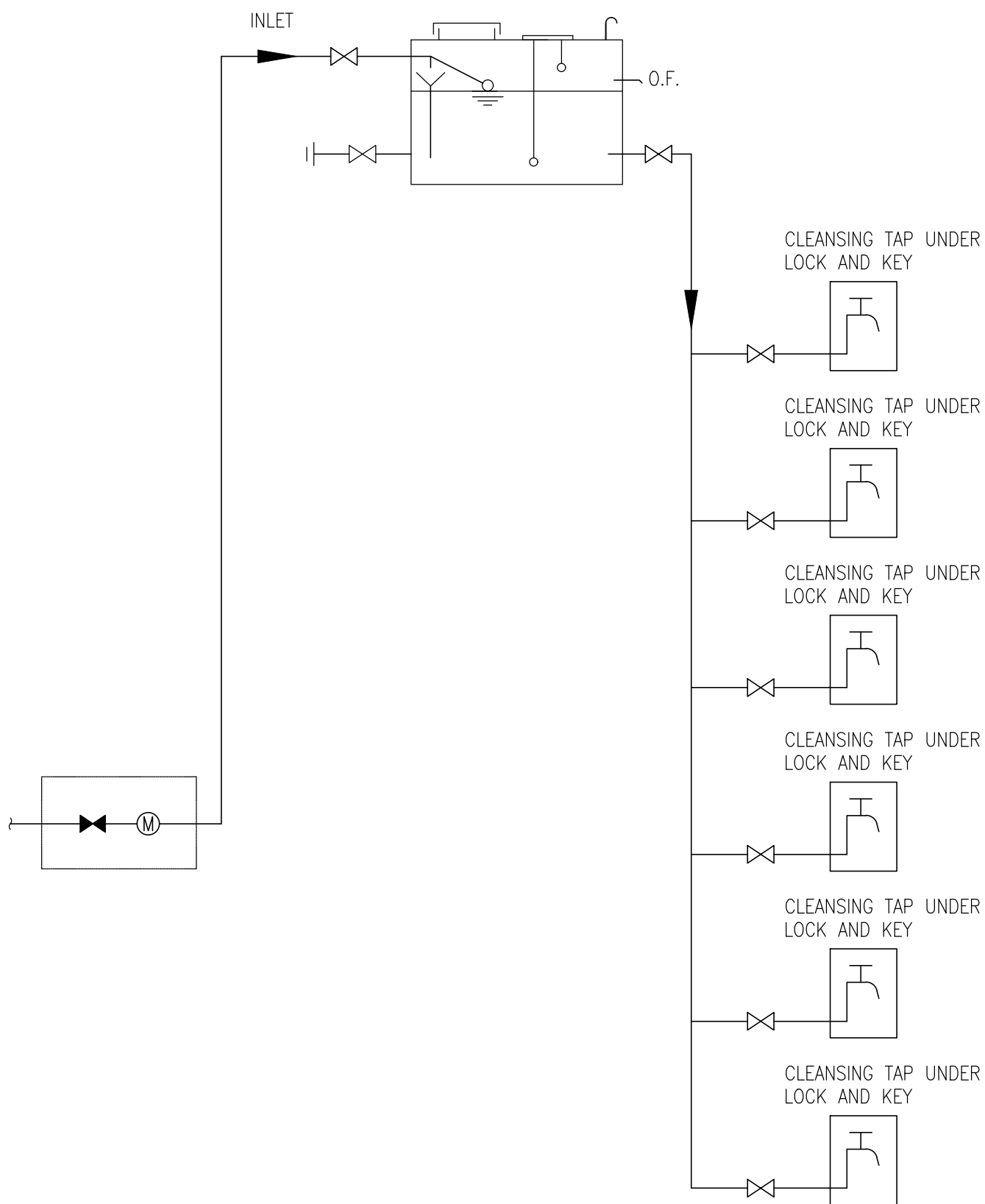
1. IN CASE THE METERS ARE SITED AT ROOF LEVEL AND THE SYSTEM PRESSURE IS LESS THAN 15M, FULLWAY GATE VALVES INSTEAD OF LOOSE JUMPER STOPCOCKS SHALL BE FITTED BEFORE METER POSITIONS.

FIG. 5



INDIRECT SUPPLY SYSTEM

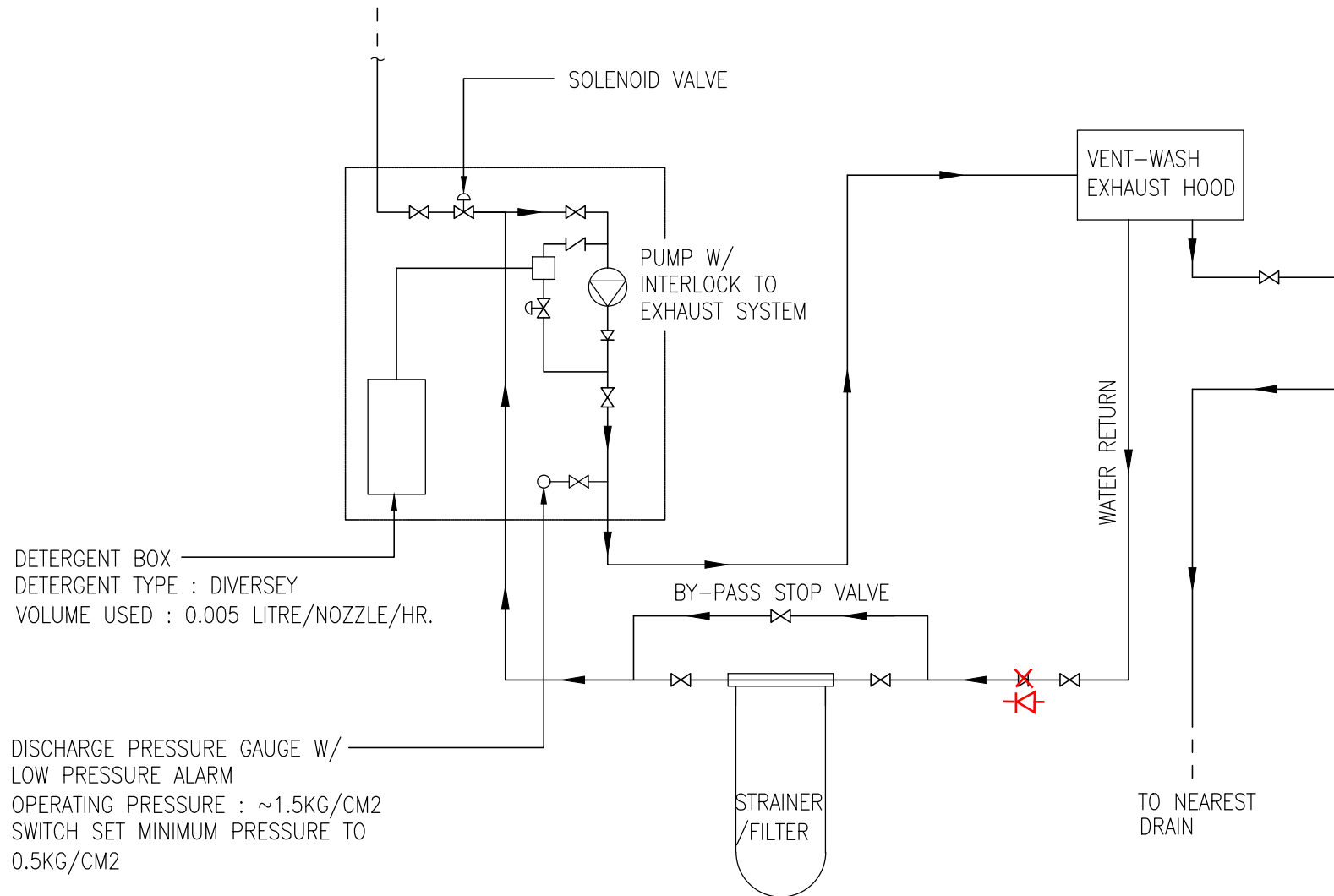
- NOTES:** HEAD (H) BETWEEN THE OUTLET LEVEL OF THE WATER TANK AND THE DRAW-OFF POINT
1. IN CASE THE METERS ARE SITED AT ROOF LEVEL AND THE ~~SYSTEM~~ PRESSURE IS LESS THAN 15M, FULLWAY GATE VALVES INSTEAD OF LOOSE JUMPER STOPCOCKS SHALL BE FITTED BEFORE METER POSITIONS.



(OFF-TANK SUPPLY)

SCHEMATIC DIAGRAM FOR CLEANSING ~~(TYPE I)~~

FIG. 6A

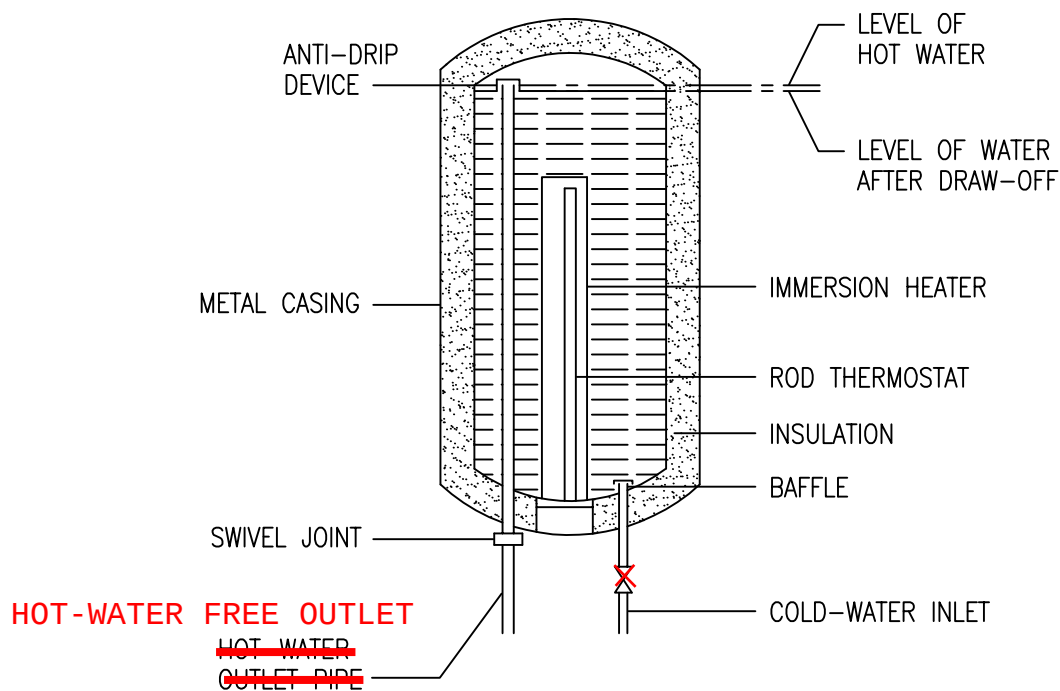


SCHEMATIC LAYOUT OF HYDRO-VENT

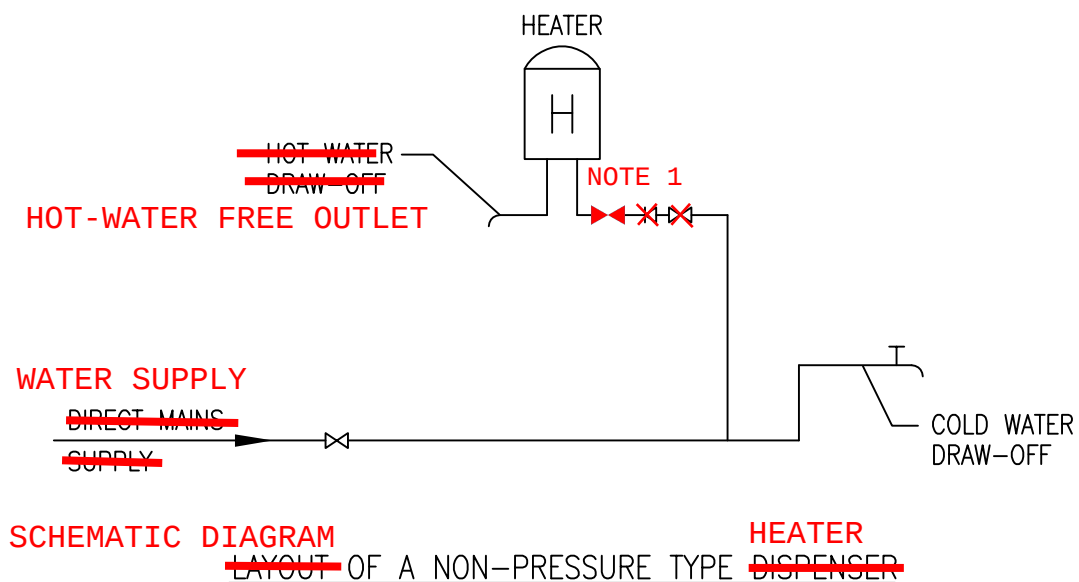
RE-CIRCULATION SYSTEM

(SHEET 2 OF 2)

REFERENCE ONLY AND THE DETAIL ARRANGEMENT
SHALL BE SUBJECTED TO INDIVIDUAL DESIGN

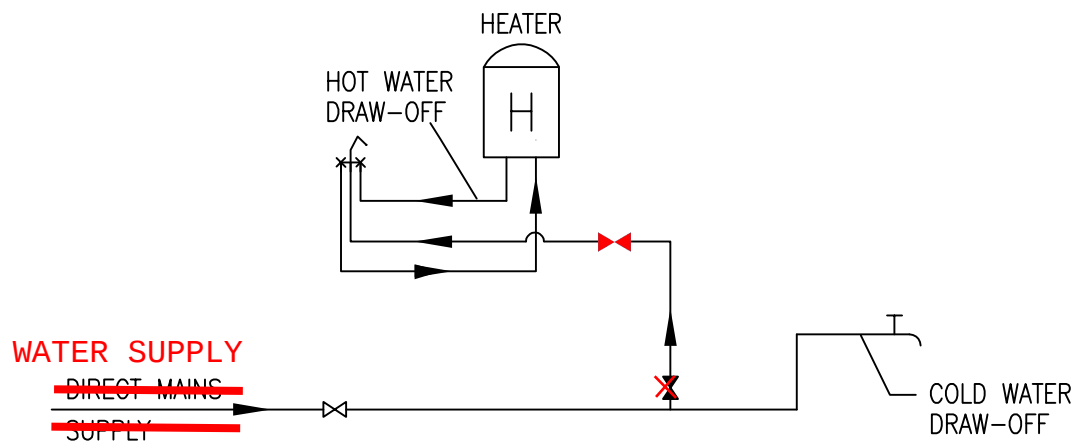


ESSENTIAL COMPONENTS OF A NON-PRESSURE TYPE HEATER



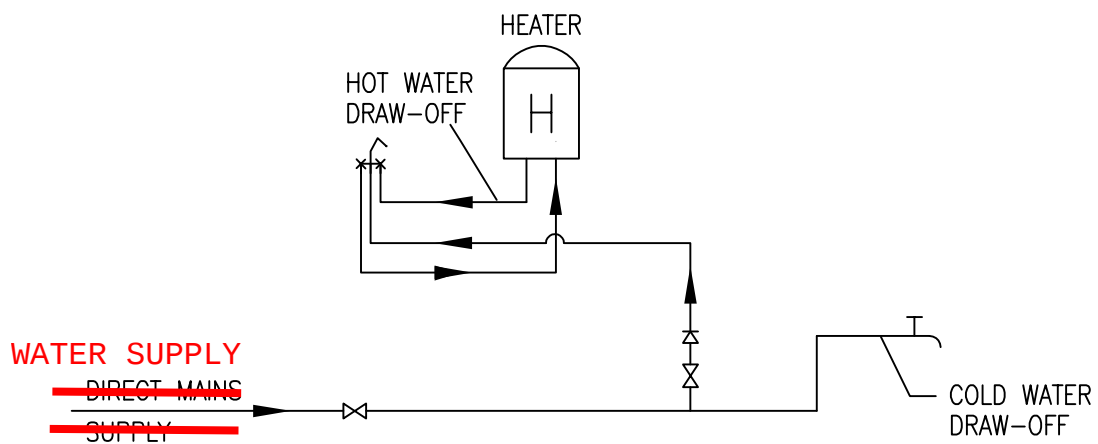
NON-PRESSURE TYPE HEATER / ~~DISPENSER~~ (SHEET 1 OF 2)

NOTE 1 : A LOOSE JUMPER TYPE STOPCOCK SHALL BE FITTED ON THE INLET OF THE WATER HEATER IF IT IS WITHOUT BUILD-IN NON-RETURN VALVE



SCHEMATIC DIAGRAM

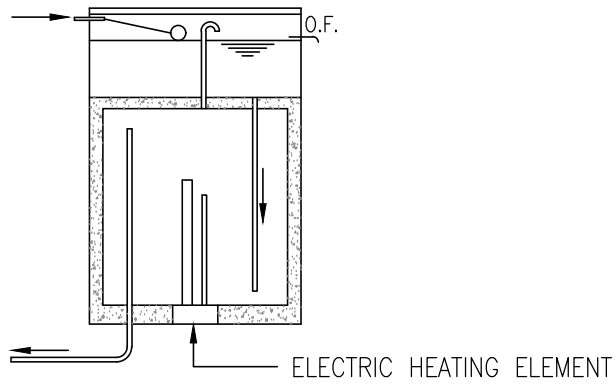
LAYOUT OF A NON-PRESSURE TYPE HEATER
WITH LOOSE JUMPER TYPE STOPCOOK



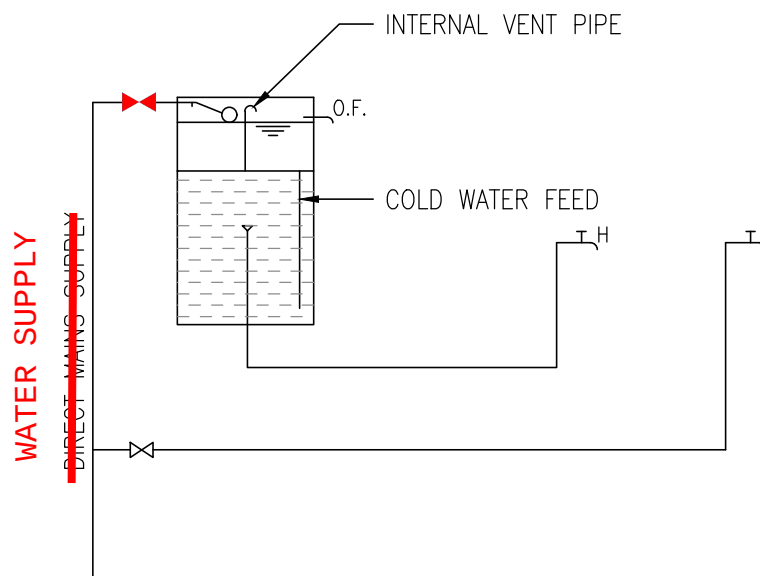
SCHEMATIC DIAGRAM

LAYOUT OF A NON-PRESSURE TYPE HEATER
WITH GATE VALVE AND NON-RETURN VALVE

NON-PRESSURE TYPE HEATER / ~~DISPENSER~~ (SHEET 2 OF 2)



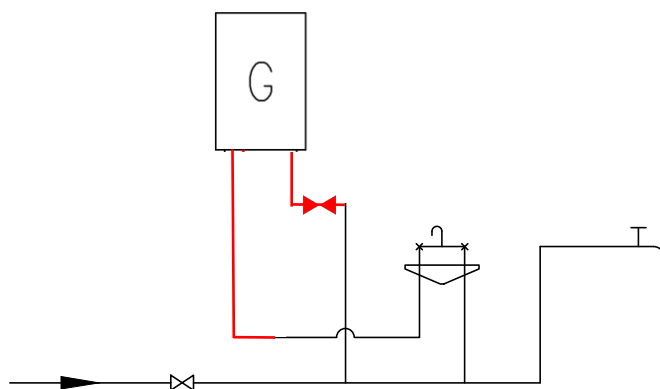
SECTION THROUGH A CISTERN TYPE WATER HEATER / DISPENSER



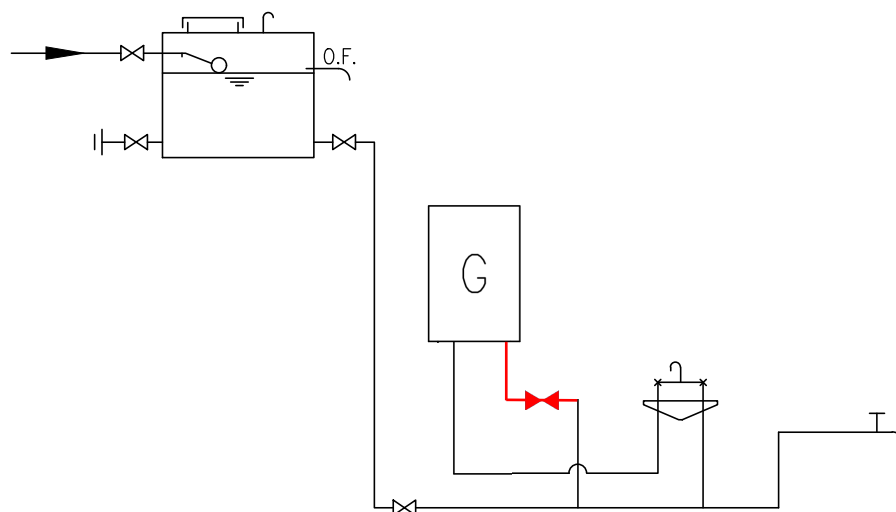
SCHEMATIC DIAGRAM

~~LAYOUT~~ OF A CISTERN TYPE WATER HEATER / DISPENSER

CISTERN TYPE WATER HEATER

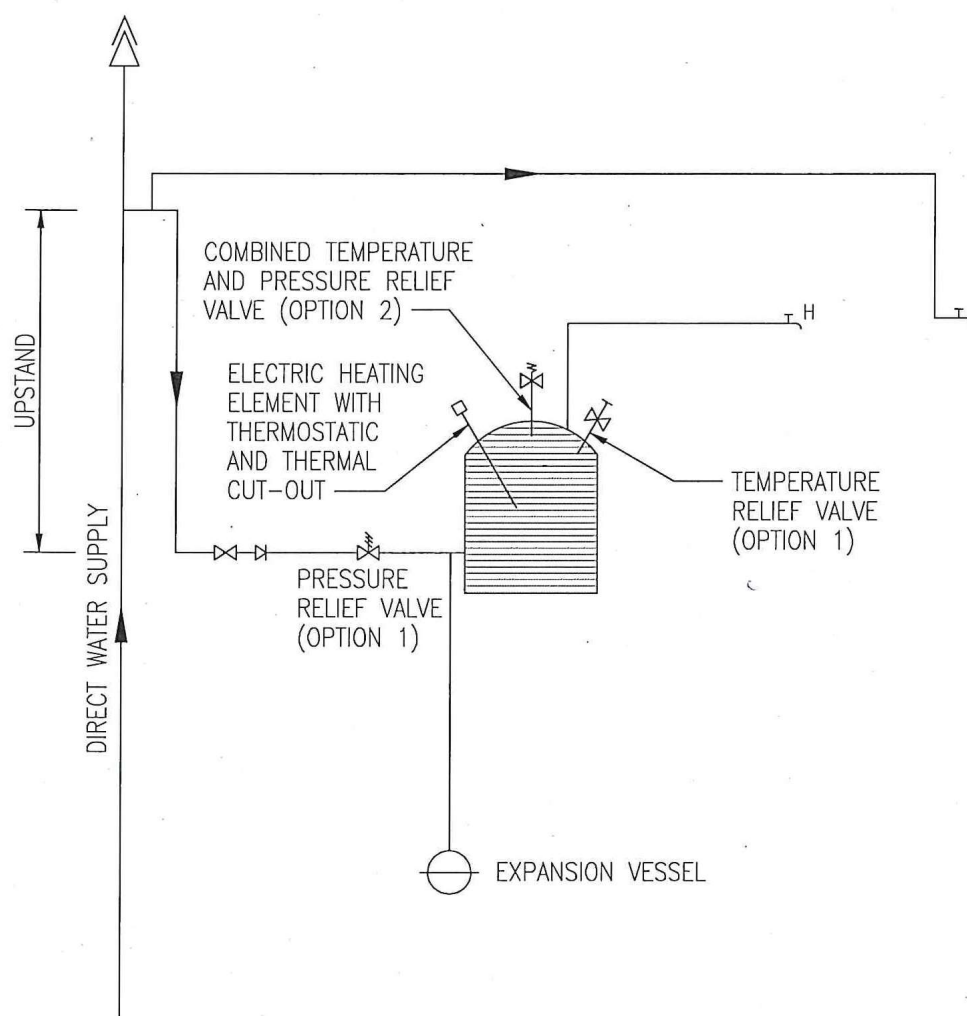


INSTANTANEOUS GAS WATER HEATER
CONNECTED DIRECTLY TO MAINS SUPPLY



INSTANTANEOUS GAS WATER HEATER
CONNECTED INDIRECTLY TO MAINS SUPPLY

INSTANTANEOUS GAS WATER HEATER



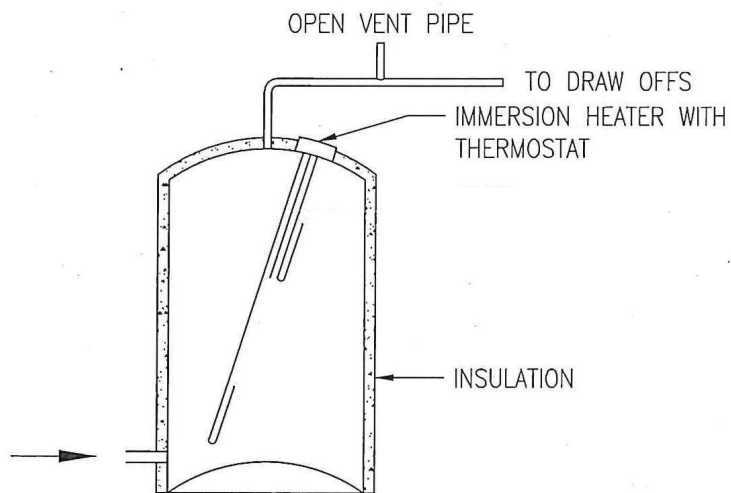
NOTES :

1. THE FACTORY TEST PRESSURE OF THE HEATER SHALL BE IN EXCESS OF 1.5 TIMES THE MAXIMUM STATIC PRESSURE AT THE MAINS WATER SUPPLY POINT.
2. A COMBINED TEMPERATURE AND PRESSURE RELIEF VALVE (OPTION 2) MAY BE USED IN LIEU OF A TEMPERATURE RELIEF VALVE AND A PRESSURE RELIEF VALVE (OPTION 1).
3. THE SAFETY DEVICES ARE UNDER THE CONTROL OF THE ELECTRICAL PRODUCTS (SAFETY) REGULATION ADMINISTERED BY THE ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT.
4. EXPANSION VESSEL IS ONLY REQUIRED WHEN A NON-RETURN VALVE OR A PRESSURE REDUCING VALVE OF THE NON-BACKFLOW TYPE IS FITTED IN THE COLD WATER INLET.

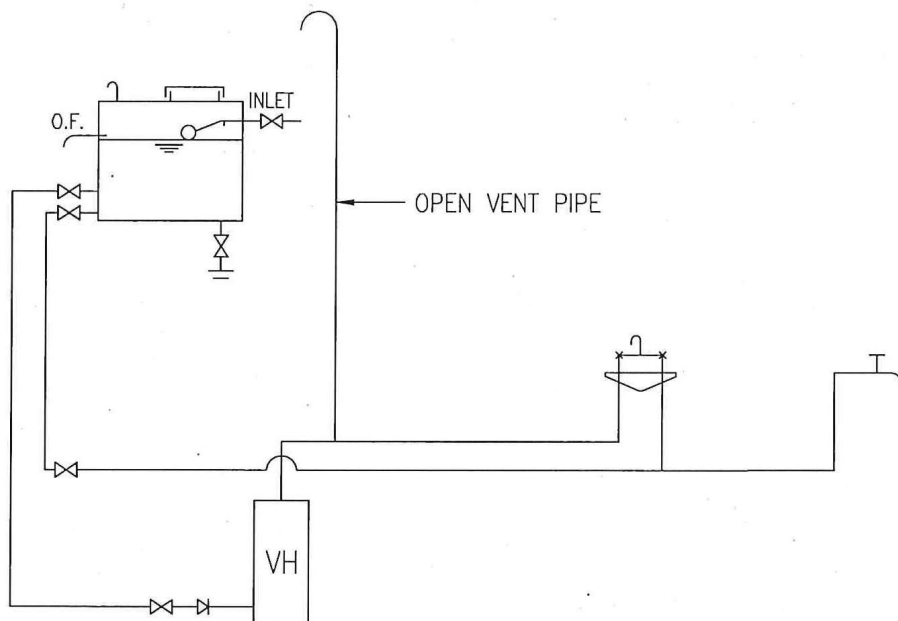
SCHEMATIC DIAGRAM

LAYOUT OF UNVENTED ELECTRIC THERMAL STORAGE TYPE WATER HEATER

FIG. 10



ESSENTIAL COMPONENTS OF A PRESSURE TYPE
THERMAL STORAGE WATER HEATER

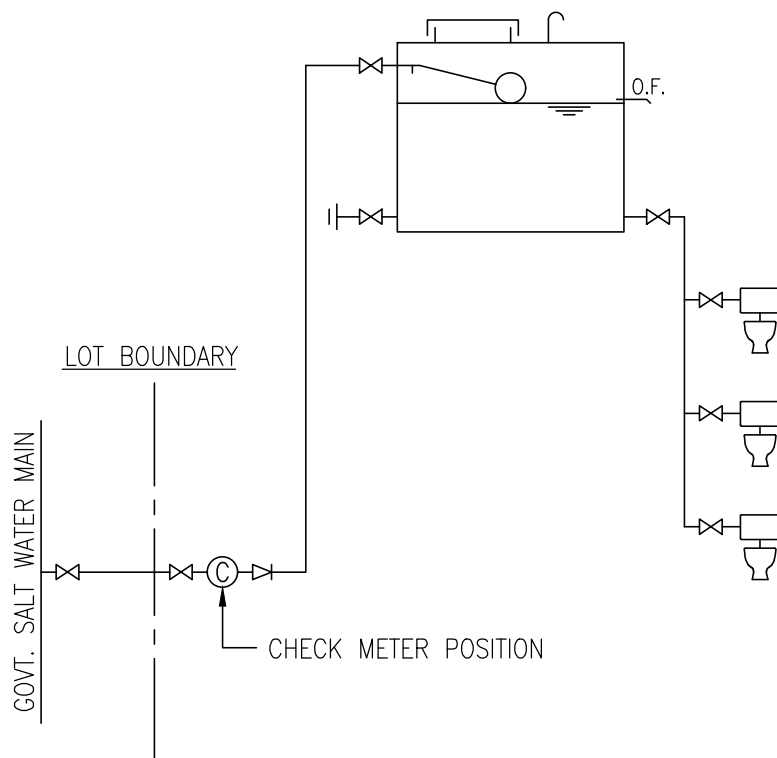


SCHEMATIC DIAGRAM

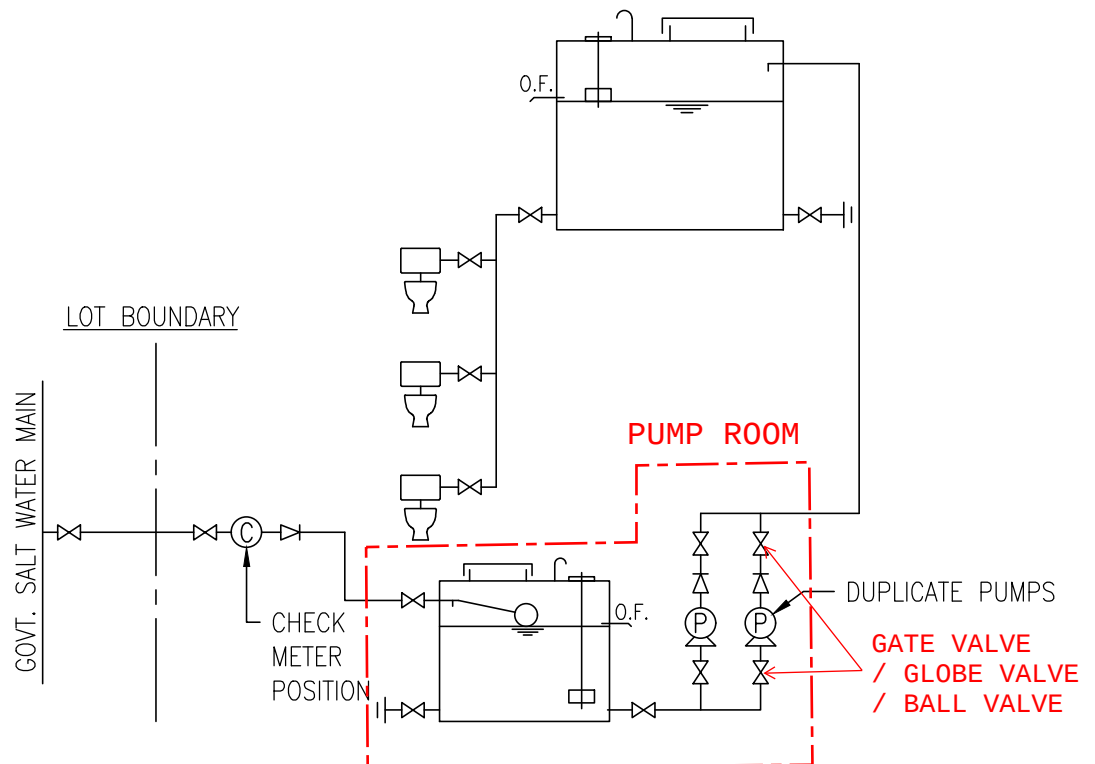
~~LAYOUT~~ OF A PRESSURE TYPE THERMAL STORAGE WATER HEATER

NOTE: THIS TYPE OF HEATER SHALL BE SUPPLIED FROM A STORAGE CISTERN, EXCEPT IT IS INSTALLED IN FLATS SUPPLIED THROUGH THE INDIRECT OR SUMP AND PUMP SYSTEM.

PRESSURE TYPE THERMAL STORAGE WATER HEATER (VENTED HEATER)

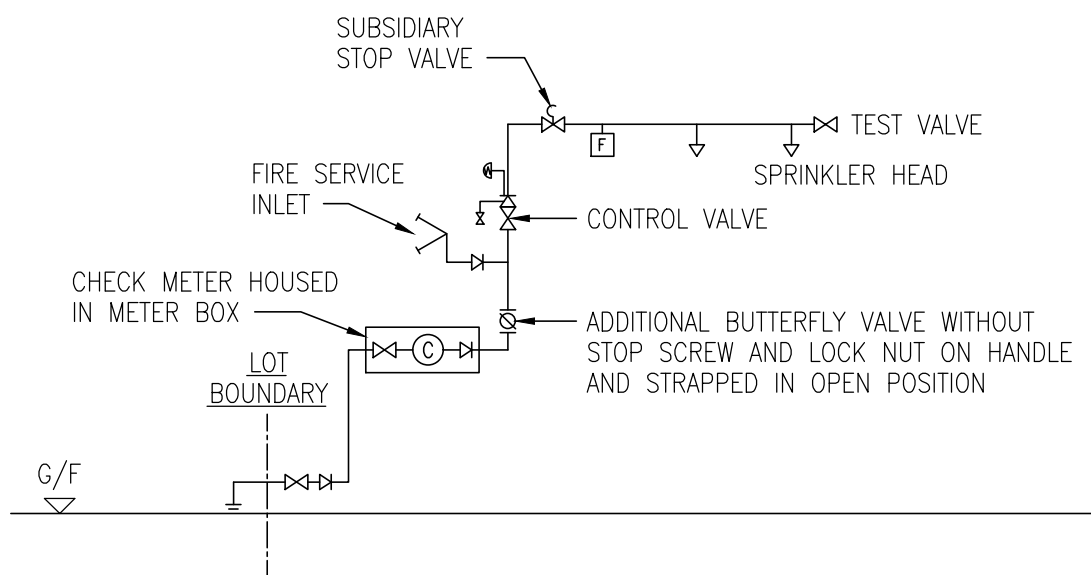


INDIRECT SALT WATER FLUSHING SUPPLY SYSTEM
(WITH DIRECT SUPPLY TO ROOF STORAGE TANK)



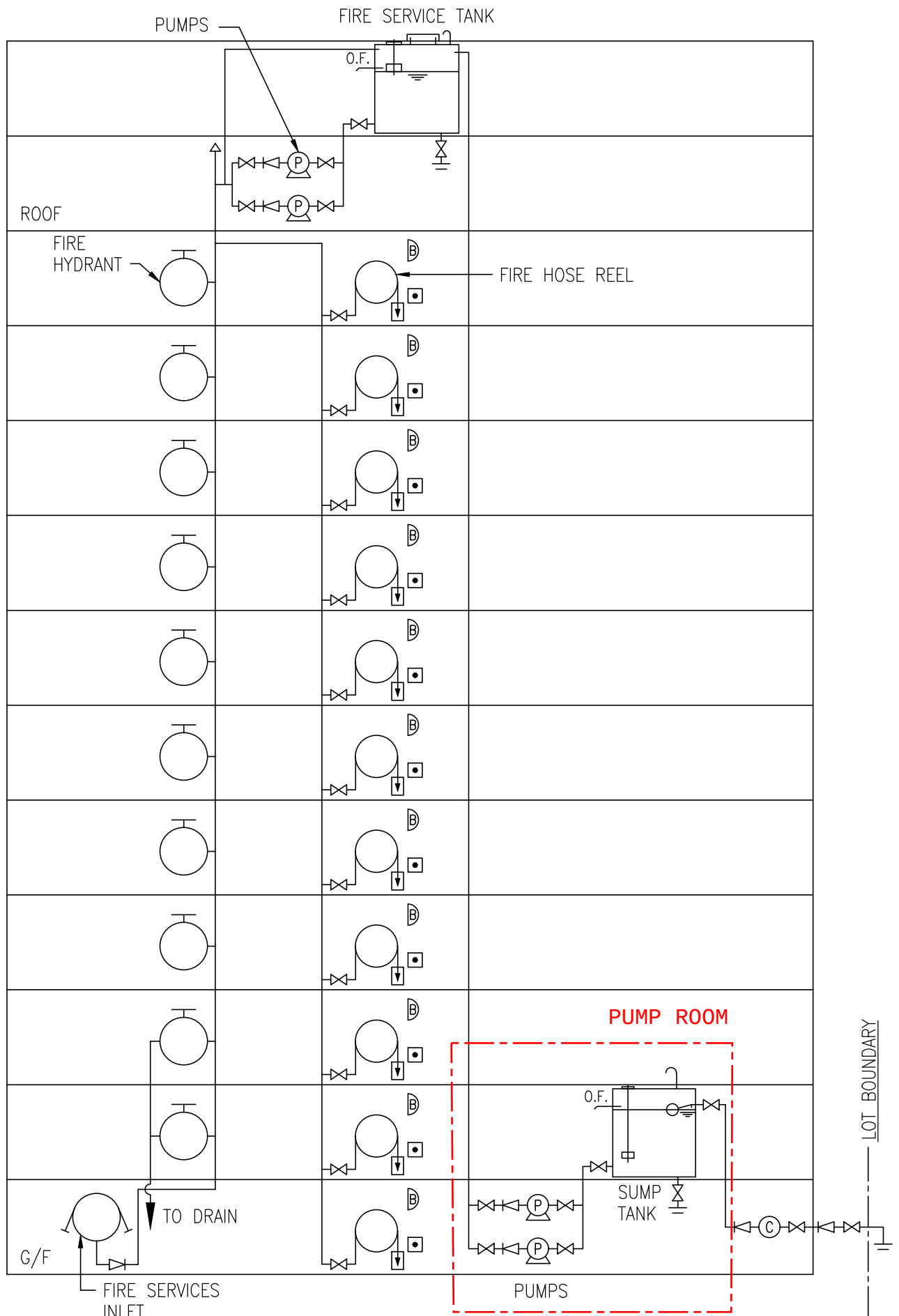
INDIRECT SALT WATER FLUSHING SUPPLY SYSTEM
(WITH SUMP AND PUMP SYSTEM)

SALT WATER FLUSHING SUPPLY SYSTEM



SCHEMATIC DIAGRAM

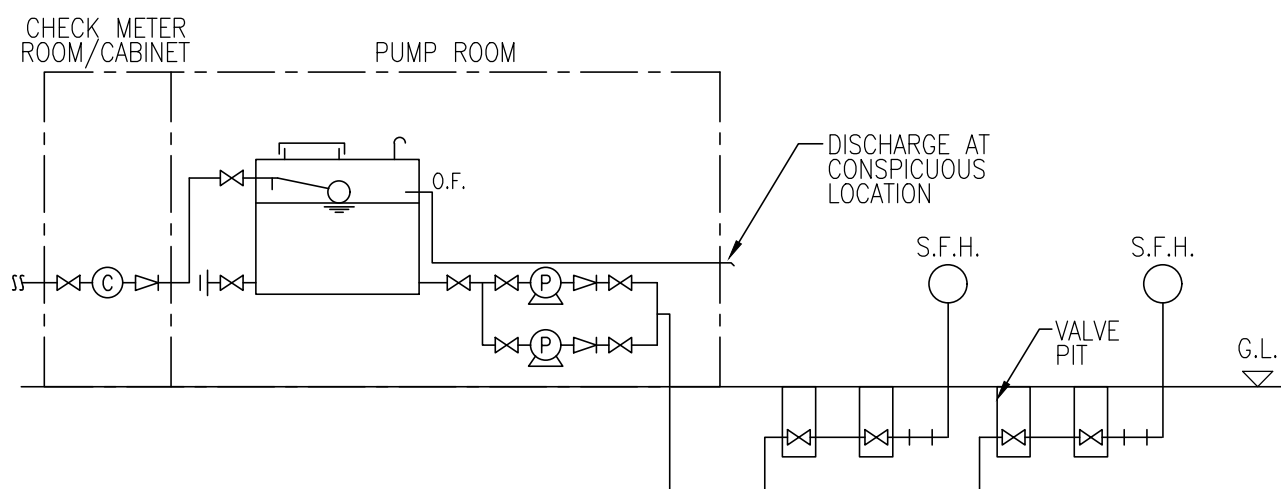
~~LAYOUT DRAWING~~ FOR IMPROVISED SPRINKLER SYSTEM



SCHEMATIC DIAGRAM

LAYOUT DRAWING FOR FIRE HYDRANT/HOSE REEL SYSTEM

NOTE 1. THE ACTUAL DESIGN AND INSTALLATION SHOULD BE SUBJECT TO THE RELEVANT ORDINANCES AND RECOMMENDATION FROM FIRE SERVICE DEPARTMENT



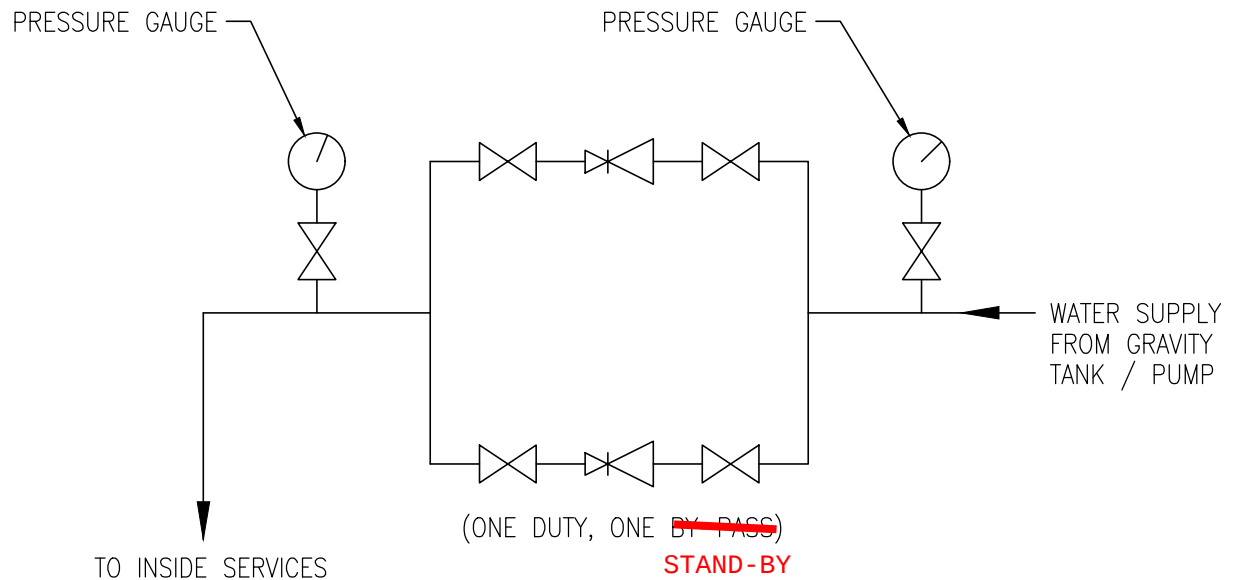
NOTE 1. THE ACTUAL DESIGN AND INSTALLATION SHOULD BE SUBJECT TO THE RELEVANT ORDINANCES AND RECOMMENDATION FROM FIRE SERVICE DEPARTMENT

ABBREVIATION :

S.F.H. STREET FIRE HYDRANT

LAYOUT DRAWING FOR STREET FIRE HYDRANT SYSTEM
SCHEMATIC DIAGRAM

FIG. 21

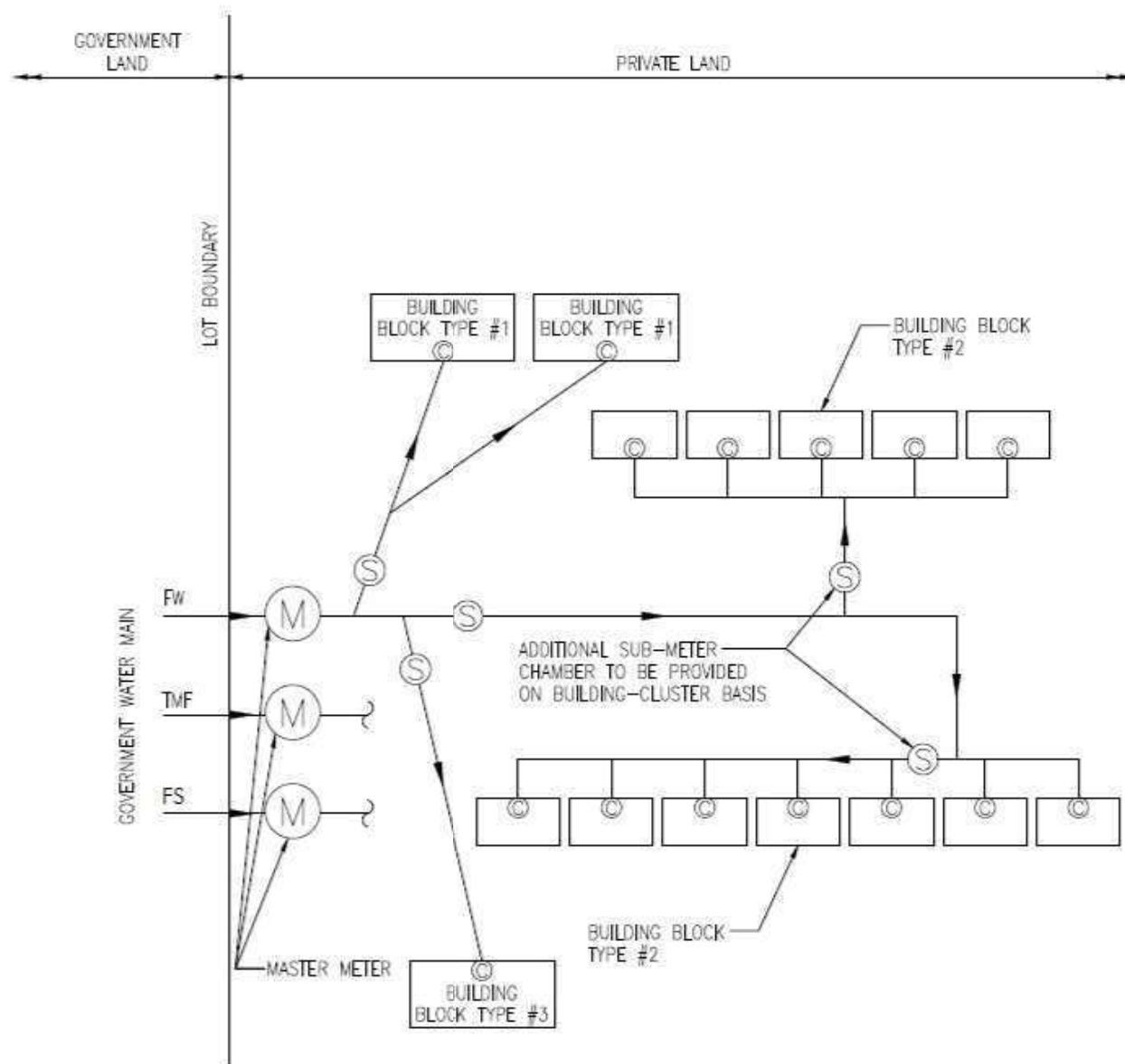


NOTES : ~~STAND-BY~~

1. A ~~BY-PASS~~ ARRANGEMENT WITH THE PROVISION OF A SECOND PRESSURE REDUCING VALVE TO ENABLE ISOLATION OF ANY DEFECTIVE PRESSURE REDUCING VALVE FOR REPAIR AND REPLACEMENT IS USED.
2. THE PRESSURE REDUCING VALVES FOR USE WITH FRESH WATER SHOULD BE MANUFACTURED FROM MATERIALS SUITABLE FOR USE IN CONTACT WITH POTABLE WATER.
3. THE PRESSURE REDUCING VALVES FOR USE WITH SALT WATER SHOULD BE MANUFACTURED FROM MATERIALS CAPABLE OF WITHSTANDING THE CORROSIVE EFFECT OF SALT WATER.

DIAGRAM

SCHEMATIC ~~LAYOUT~~ OF PRESSURE REDUCING VALVES



GENERAL

TYPICAL CONFIGURATION OF MASTER METER AND SUB-METER CHAMBERS IN MULTIPLE-BLOCK DEVELOPMENT

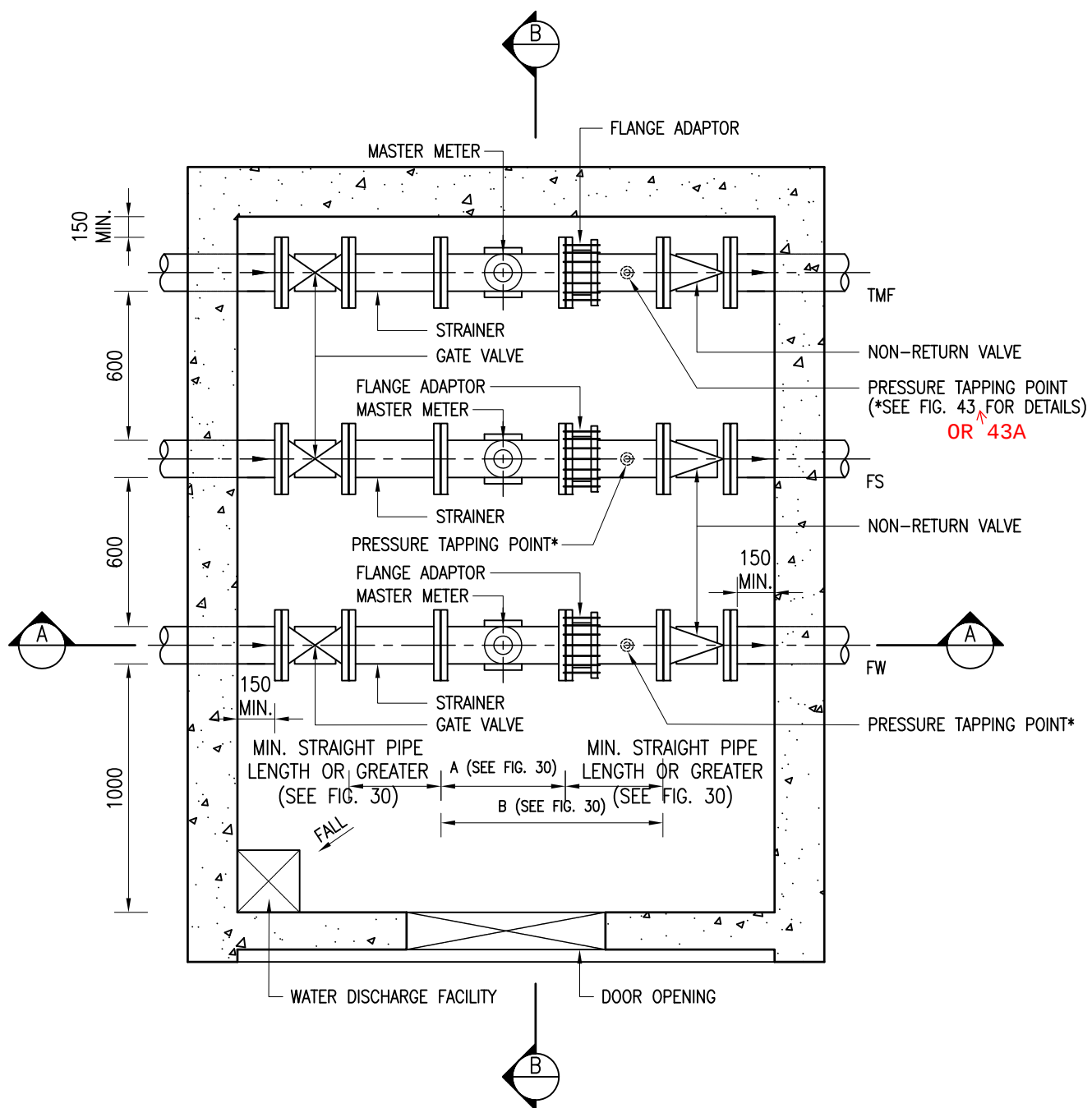
NOTES :

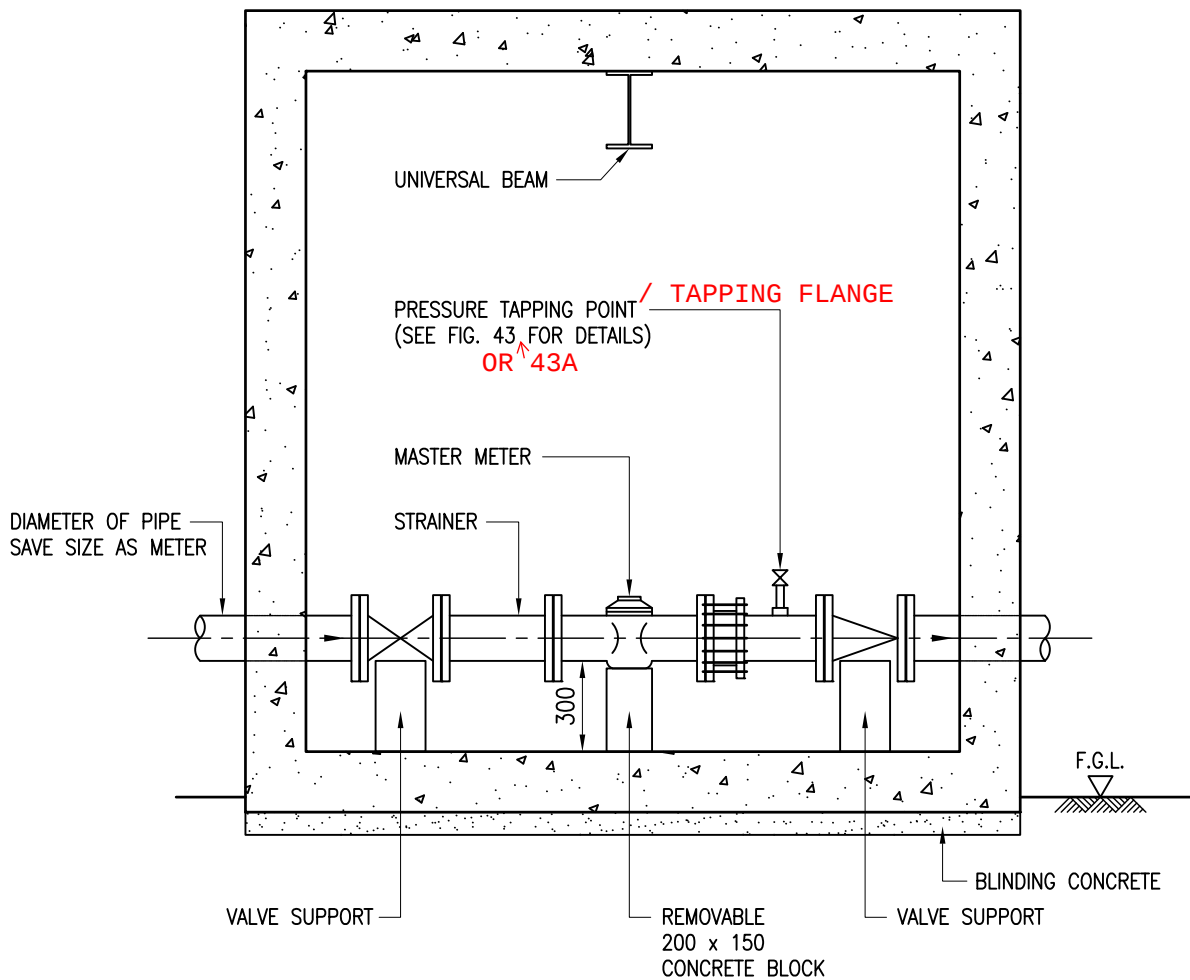
1. SUB-METER CHAMBERS FOR FIRE SERVICE NOT SHOWN FOR CLARITY.
2. SUB-METER CHAMBERS NOT REQUIRED FOR TMF

LEGEND :

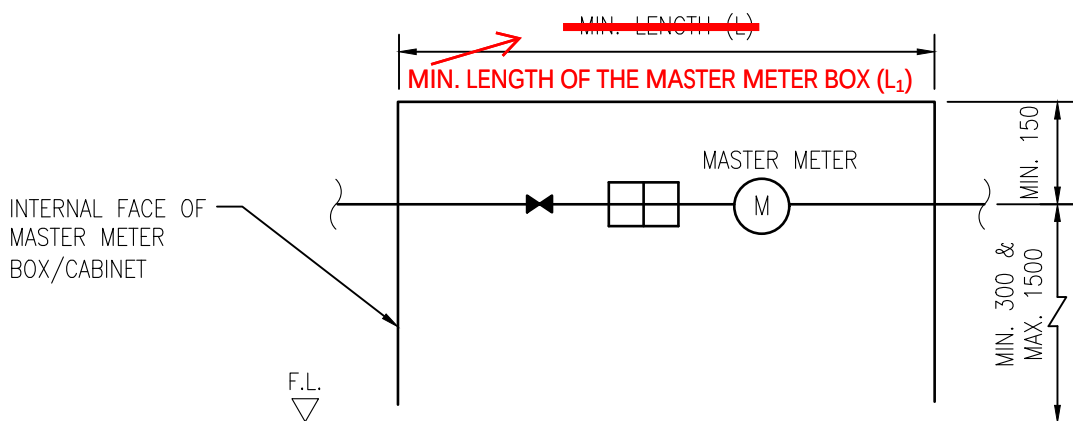
- (M) MASTER METER
- (S) CHECK METER POSITION IN SUB-METER CHAMBER / BOX / CABINET
- (C) CHECK METER POSITION IN BUILDING BLOCK

FIG. 24



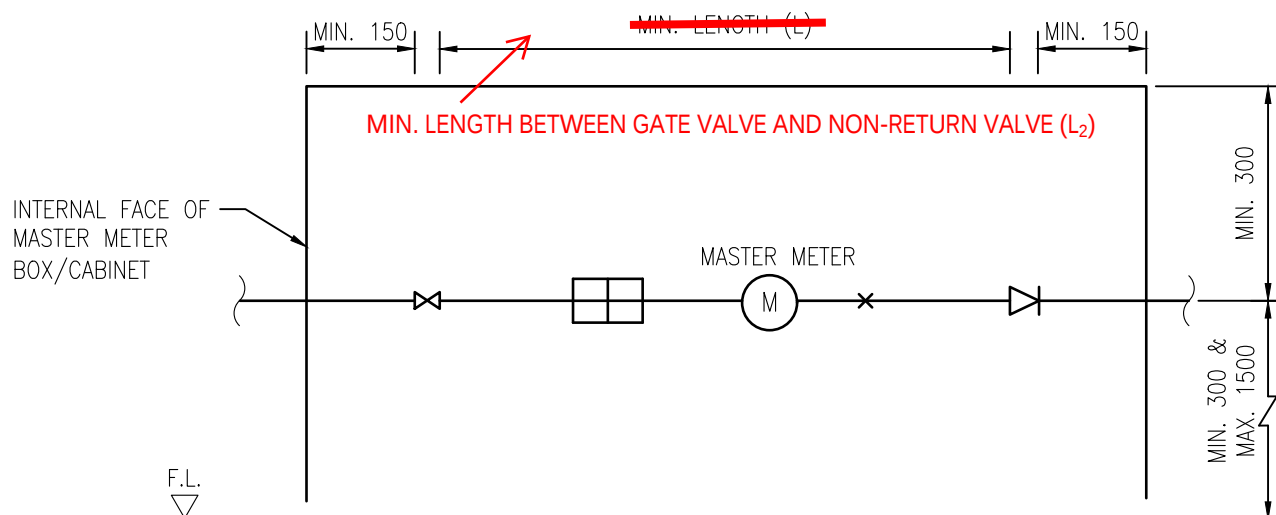


SECTION A – A OF MASTER METER ROOM



**ELEVATION FOR TYPICAL MASTER METER BOX/CABINET
FOR PIPE DIAMETER 40mm OR BELOW**

PIPE DIAMETER (mm)	MIN LENGTH (L) (L_1) (mm)
15	700
25	800
40	900



**ELEVATION FOR TYPICAL MASTER METER BOX/CABINET
FOR PIPE DIAMETER 50mm TO 100mm**

PIPE DIAMETER (mm)	MIN LENGTH (L) (L_2) BETWEEN GATE VALVE AND NON-RETURN VALVE (mm)
50	700
80	1120
100	1230

LEGENDS

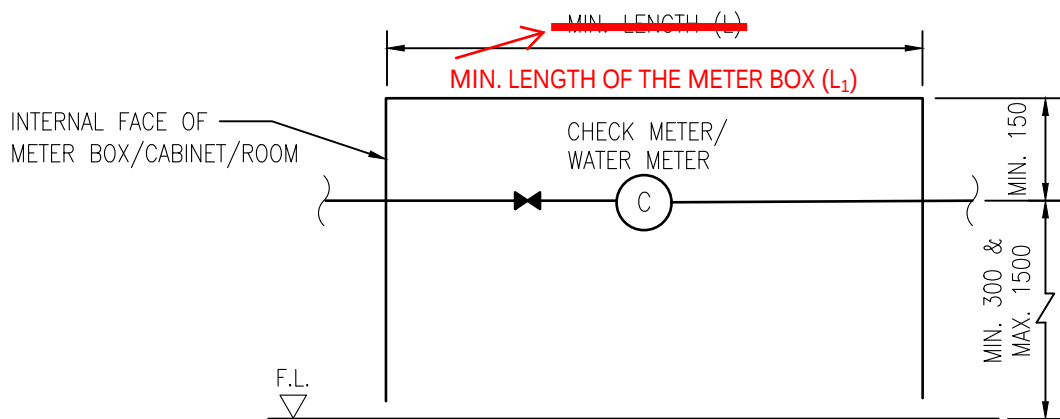
- LOOSE JUMPER TYPE STOPCOCK
- GATE VALVE
- NON-RETURN VALVE
- STRAINER (A STRAINER SHALL BE INSTALLED UP STREAM OF ALL MASTER METER)
- PRESSURE TAPPING POINT (SEE FIG. 43 FOR DETAILS)

NOTE

PROVISION OF ADEQUATE DRAINAGE INSIDE THE MASTER METER BOX/CABINET POSITIONED AT FLOOR LEVEL SHOULD BE MADE.

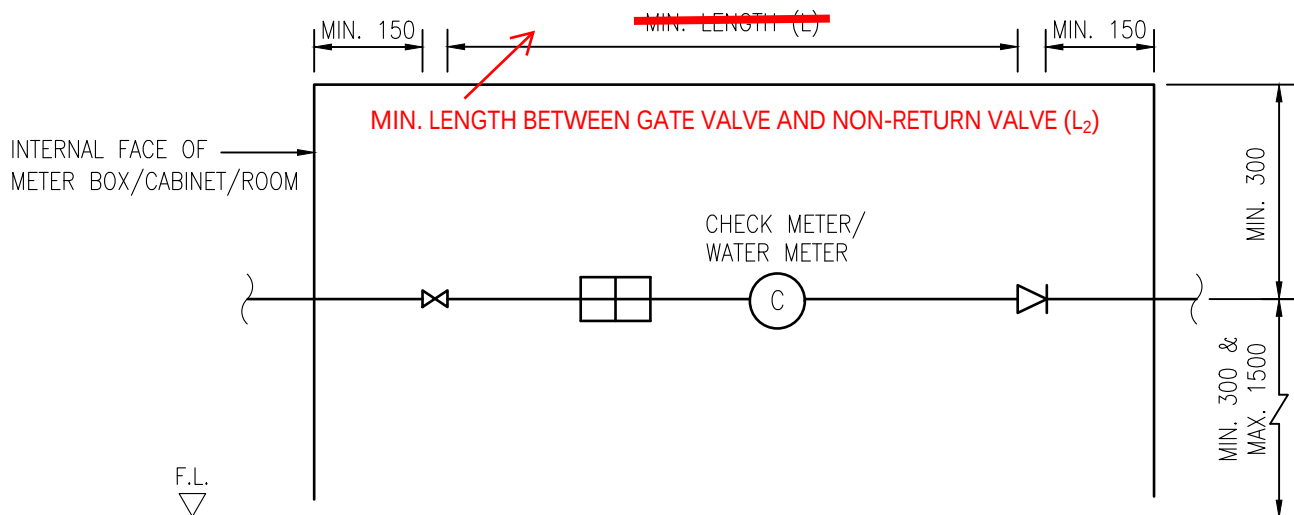
DETAILS OF MASTER METER BOX AND CABINET

FIG. 31



**ELEVATION FOR TYPICAL METER BOX/CABINET/ROOM
FOR PIPE DIAMETER 40mm OR BELOW**

PIPE DIAMETER (mm)	MIN LENGTH (L) (L ₁) (mm)
15	700
25	800
40	900



**ELEVATION FOR TYPICAL METER BOX/CABINET/ROOM
FOR PIPE DIAMETER 50mm TO 150mm**

PIPE DIAMETER (mm)	MIN LENGTH (L) BETWEEN GATE VALVE AND NON-RETURN VALVE (L ₂) (mm)
50	700
80	1120
100	1230
150	1650

LEGENDS

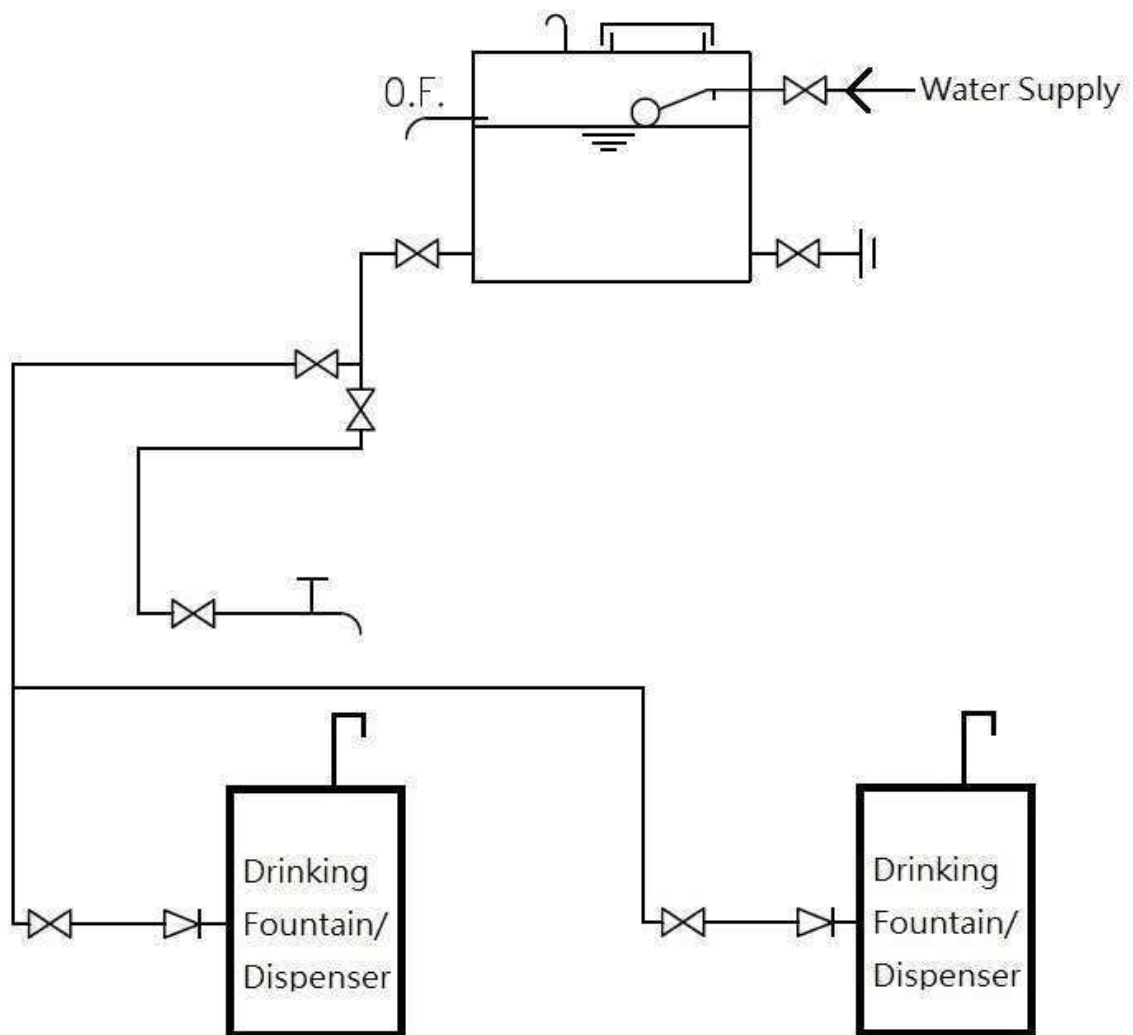
-  LOOSE JUMPER TYPE STOPCOCK
-  GATE VALVE
-  NON-RETURN VALVE
-  STRAINER
(FOR SINGLE JET/TURBINE METER INSTALLED IN DIRECT SUPPLY SYSTEM,
A STRAINER SHALL BE INSTALLED UPSTREAM OF METER)

NOTE

PROVISION OF ADEQUATE DRAINAGE INSIDE METER BOX/CABINET/ROOM POSITIONED AT FLOOR LEVEL SHOULD BE MADE.

DETAILS OF METER BOX/CABINET/ROOM FOR CHECK METER, WATER METER & SUB-METER

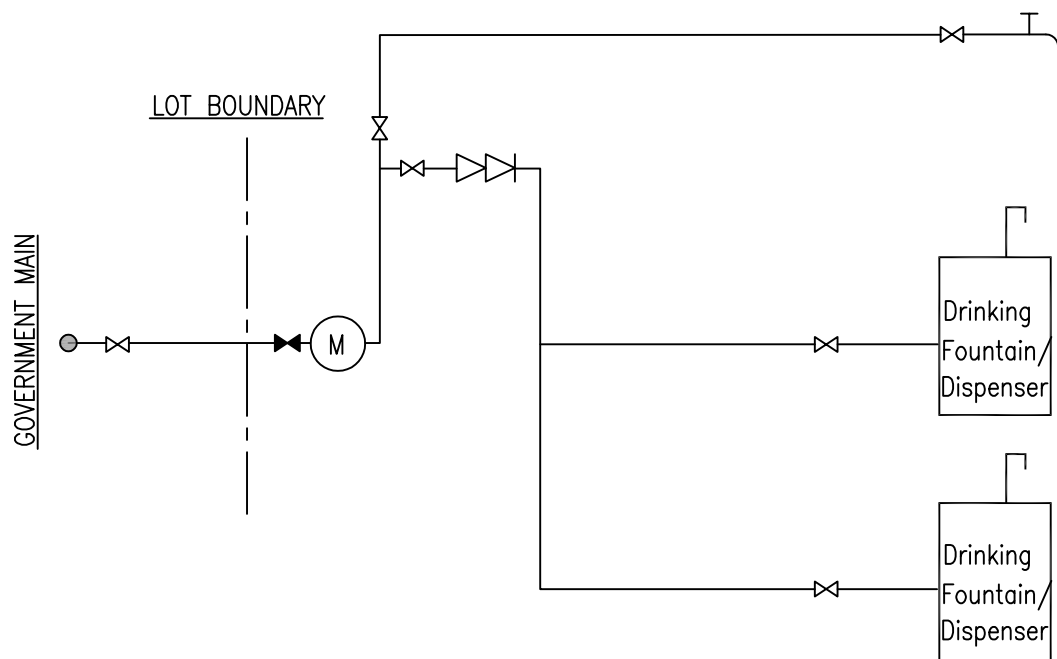
FIG. 32



EXAMPLE OF WATER DISPENSER/DRINKING FOUNTAIN -
(NOT LOCATED AT STREET SIDE) -
SUPPLIED BY A WATER TANK WITH OTHER DRAW-OFF POINT -

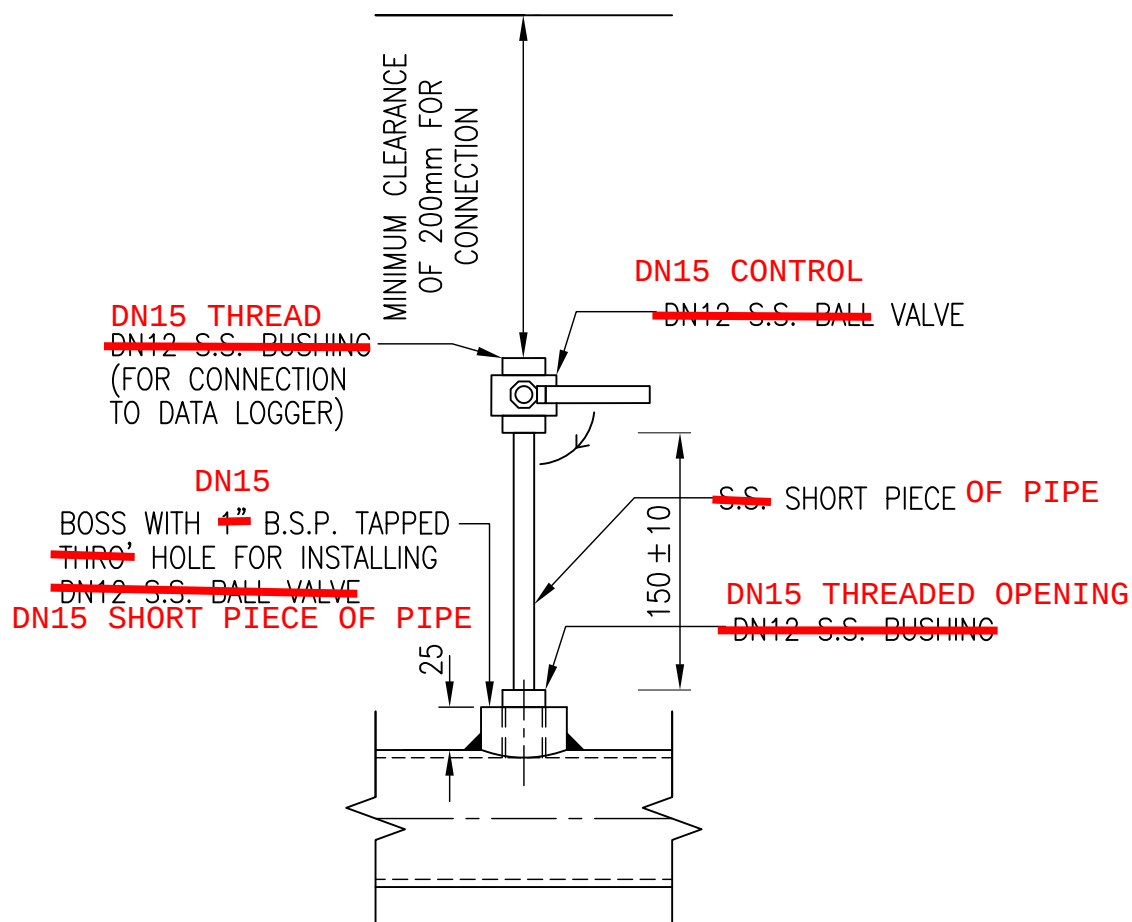
NOTES:
 BACKFLOW PREVENTER IS NOT NECESSARY FOR WATER DISPENSER /
 DRINK FOUNTAIN NOT LOCATED AT STREET SIDE.

FIG. 38 -



EXAMPLE OF WATER DISPENSER/ DRINKING FOUNTAIN
(NOT LOCATED AT STREET SIDE)
IN DIRECT SUPPLY SYSTEM (USE OF DOUBLE CHECK VALVE)

NOTES:
BACKFLOW PREVENTER IS NOT NECESSARY FOR WATER DISPENSER /
DRINK FOUNTAIN NOT LOCATED AT STREET SIDE.

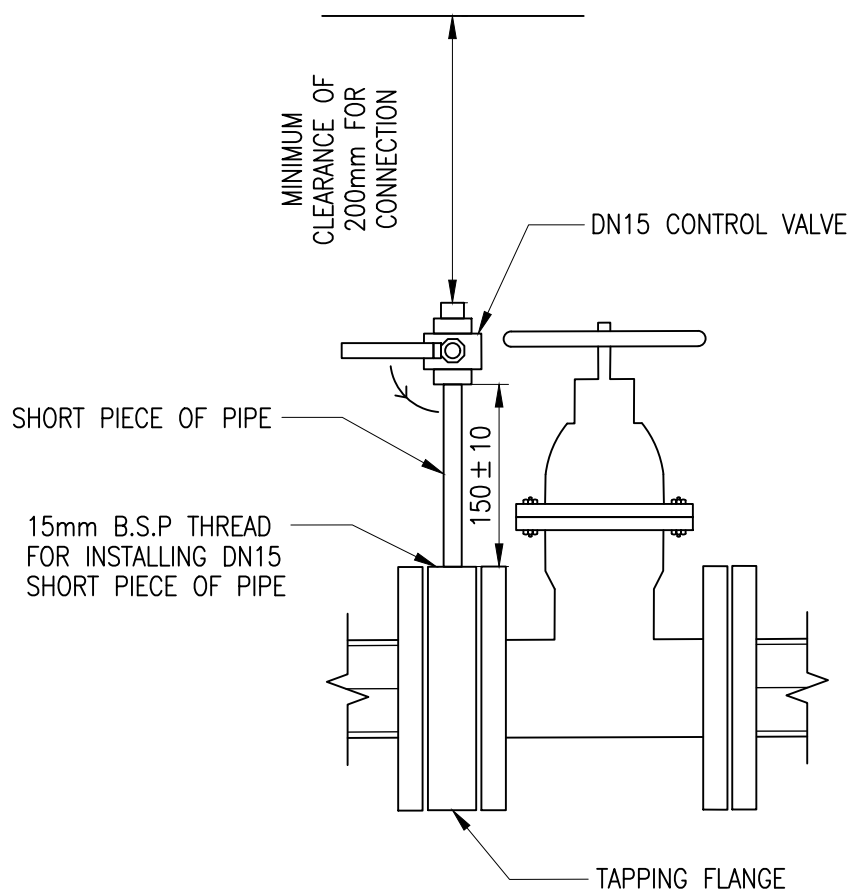


DETAILS OF PRESSURE TAPPING POINT

NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE STATED.
2. ALL WELDS ARE MARKED THUS .
3. THIS FIG. TO BE READ IN CONJUNCTION WITH FIG. 27 & 28

FIG. 43



DETAILS OF TAPPING FLANGE

NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT OTHERWISE STATED.
2. THIS FIG. TO BE READ IN CONJUNCTION WITH FIG. 27 & 28

Schematic Piping Diagram For Improvised Hose Reel System (Direct-feed type)

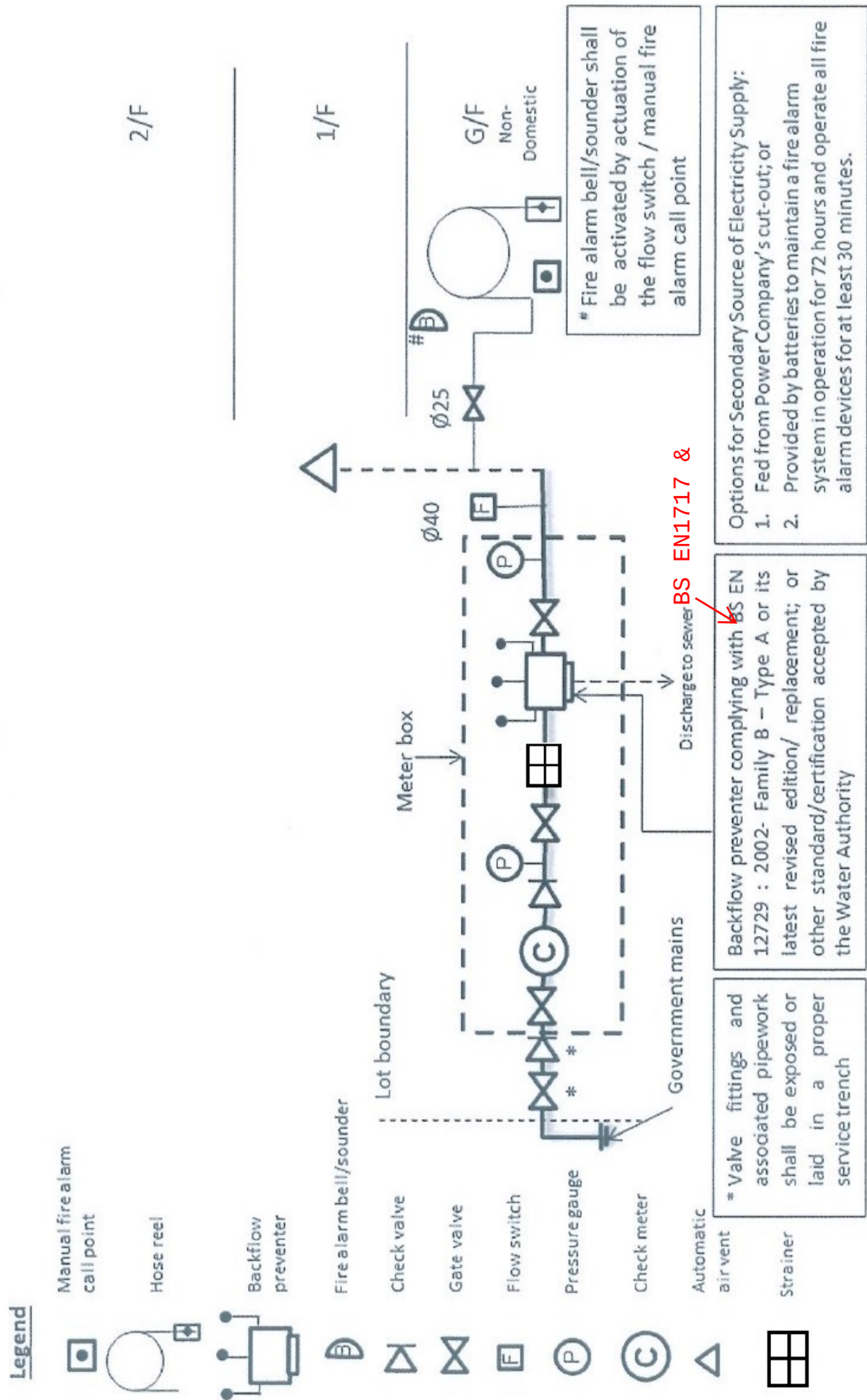


Fig. 44

Checklists for Vetting Plumbing Proposal - New Building

Chapter 3 - Metering

Type: S = Statutory Requirements
E = Essential for approval of works

Referring to the clauses in Technical Requirements for Plumbing Works in Buildings (TR). You may cross out the clauses if not applicable

^ Please✓ as appropriate

	Type	Checked^	Remarks
#3.1 General			
<u>3.1.3</u>			
All domestic unit shall be separately metered	E	☐	☐
<u>3.1.4</u>			
(a) Meter shall be sited in a meter room/box/chamber at convenient location in accessible communal area	E	☐	☐
(b) For indirect supply system, the meter shall be sites in a meter room/box/chamber in accessible communal area at roof level or at other convenient locations	E	☐	☐
<u>3.1.5</u> the pressure head between the outlet level of the water tank and the draw-off point			
In case the meters are sited at roof level, and system pressure is lower than 15m, fullway gate valves shall be fitted before meter positions. less	E	☐	☐
instead of loose jumper stopcock			
<u>3.1.6</u>			
For connections up to and including 40 mm diameter, a loose jumper type stopcock shall be provided and placed with spindle in the vertical position at each meter position on the inlet side of the meter where the meter is not sited at roof level and where the pressure is considered adequate.	E	☐	☐
<u>3.1.7</u>			
For connections larger than 40 mm diameter, a gate valve shall be provided before the meter position and a non-return or check valve fitted on the delivery side as close as possible to the meter.	E	☐	☐
<u>3.1.8</u>			
For single jet meter and turbine meter installed in direct supply system, a strainer shall be installed upstream of the meter.	E	☐	☐
<u>3.1.9 & 3.1.10</u>			
For salt water flushing supply,			
(a) a meter position shall be provided for the purpose of periodic checking of consumption. It should be close to the lot boundary and connection to the Government mains or close to the point of connection from internal distribution mains whichever is applicable.	E	☐	☐
(b) stop valve shall be fitted at the inlet side of the meter position and a non-return or check valve shall be fitted on the delivery side as close as possible to the meter.	E	☐	☐