

TYPICAL DUAL OCCUPANCY ARRANGEMENT WHERE PROPERTY HAS WATERMAIN FRONTAGE ON ONE BOUNDARY ONLY

- NOTES:**
1. THIS STANDARD DRAWING AND NOTES ARE TO BE READ IN CONJUNCTION WITH ICON WATER'S WATER METERING AND SERVICING GUIDELINES, STD-SPE-M006 AND RELEVANT STANDARD DRAWINGS SERIES 3300.
 2. FOR EACH DWELLING, A NEW WATER METER IS REQUIRED. FOR A TYPICAL DUAL OCCUPANCY, EACH UNIT HAS DIRECT ACCESS TO ICON WATER WATER MAIN AND IS ABLE TO HAVE AN INDIVIDUAL DIRECT SERVICE, USUALLY DN20.
 3. FOR STANDARD METER AND PROPERTY SERVICE LINE INSTALLATION DETAILS REFER TO ICON WATER STANDARD DRAWINGS: SD-3306-D AND SD-3307-C.
 4. IN ORDER TO MINIMISE ROOT DAMAGE, TREES SHOULD BE PLANTED SO THAT THE MATURE CANOPY DOES NOT REACH OVER THE EASEMENT OR PIPE PROTECTION ENVELOPE. THE CUSTOMER IS RESPONSIBLE TO ENSURE THAT THE DESIGNATED CONNECTION POINT AND METER REMAINS FREE FROM ENCUMBRANCES INCLUDING DRIVEWAYS, LETTERBOXES, TREES, FENCES, AND RETAINING WALLS.
 5. SERVICE CONNECTION PITS AND CABINETS SHALL BE INSTALLED MIN. 1000 CLEAR OF DRIVEWAYS AND FOOTPATHS.
 6. THE LOCATION OF MASTER-METER AND SUB-METERS SHALL ALLOW UNHINDERED ACCESS BY ICON WATER. "UNHINDERED" ACCESS TO READ A WATER METER IS ACHIEVED WHEN THE ROUTE FROM THE ROADWAY TO THE METER PERMITS THE METER READER WALK COMFORTABLY, QUICKLY, SAFELY AND DIRECTLY TO THE METER OVER A FIRM SURFACE WITHOUT GUIDANCE OR ASSISTANCE

UNDESIRABLE METER READING OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO, TREE BRANCHES LOWER THAN 2m ABOVE THE GROUND, LOCKING GATES, FENCES, HEDGES, PLANTS WITH THORNS, RETAINING WALLS WITHOUT STEPS, PONDS, STEEP BANKS WITHOUT STEPS AND GARDEN FEATURES THAT HIDE THE METER BOX/PIT FROM VIEW.

- LEGEND:**
- WATER MAIN
 - PROPERTY SERVICE LINE (ICON WATER)
 - PROPERTY SERVICE (PRIVATE)
 - ICON WATER METER
 - TREE / SHRUB / PLANT



TYPICAL DUAL OCCUPANCY ARRANGEMENT WHERE PROPERTY HAS WATERMAIN FRONTAGE ON TWO BOUNDARIES (CORNER BLOCK)

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No.	ISSUE	DATE	DRAWN	CHECKED	AUTHORISED				
1									
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3									
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DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	
ASSET AREA APPLICABILITY		










STANDARD DRAWING
UNIT METERING - UNIT TITLE DEVELOPMENTS
METERING ARRANGEMENT
TYPICAL DUAL OCCUPANCY INSTALLATION

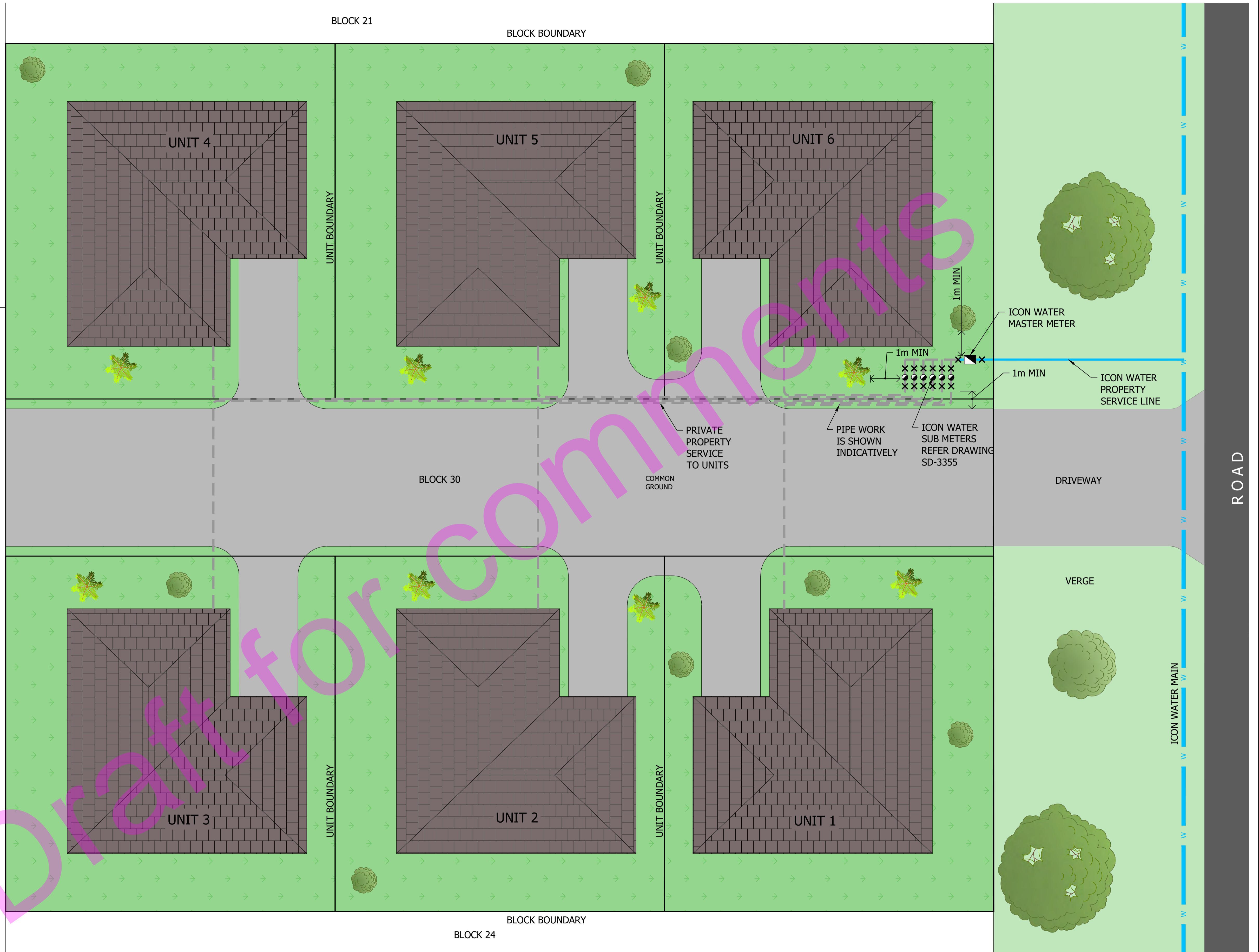
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NOTES:

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 - THE LOCATION OF MASTER-METER AND SUB-METERS SHALL ALLOW UNHINDERED ACCESS BY ICON WATER. "UNHINDERED" ACCESS TO READ A WATER METER IS ACHIEVED WHEN THE ROUTE FROM THE ROADWAY TO THE METER PERMITS THE METER READER WALK COMFORTABLY, QUICKLY, SAFELY AND DIRECTLY TO THE METER OVER A FIRM SURFACE WITHOUT GUIDANCE OR ASSISTANCE
- UNDESIRABLE METER READING OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO, TREE BRANCHES LOWER THAN 2m ABOVE THE GROUND, LOCKING GATES, FENCES, HEDGES, PLANTS WITH THORNS, RETAINING WALLS WITHOUT STEPS, PONDS, STEEP BANKS WITHOUT STEPS AND GARDEN FEATURES THAT HIDE THE METER BOX/PIT FROM VIEW.

LEGEND:

-  WATER MAIN
-  PROPERTY SERVICE LINE (ICON WATER)
-  PROPERTY SERVICE (PRIVATE)
-  ICON WATER MASTER METER
-  ICON WATER SUB WATER METER
-  METER ISOLATION VALVE
-  TREE / SHRUB / PLANT



TYPICAL MULTI UNIT ARRANGEMENT WHERE PROPERTY HAS 3 OR MORE UNITS WITH MASTER METER AND SUB METERS

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



STANDARD DRAWING
UNIT METERING - UNIT TITLE DEVELOPMENTS
SUB METERING ARRANGEMENTS
TYPICAL BELOW GROUND "STRAIGHT" INSTALLATION

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LEGEND:

-  WATER MAIN
-  PROPERTY SERVICE LINE (ICON WATER)
-  PROPERTY SERVICE (PRIVATE)
-  ICON WATER MASTER METER
-  ICON WATER SUB METER
-  METER ISOLATION VALVE
-  TREE / SHRUB / PLANT



TYPICAL MULTI UNIT ARRANGEMENT WHERE PROPERTY HAS 3 OR MORE UNITS WITH MASTER AT BOUNDARY AND SUB METERS IN INGROUND MANIFOLD ADJACENT TO MASTER METER

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DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	
ASSET AREA APPLICABILITY		



STANDARD DRAWING
UNIT METERING - UNIT TITLE DEVELOPMENTS
SUB METERING ARRANGEMENTS
TYPICAL BELOW GROUND "TEE" INSTALLATION








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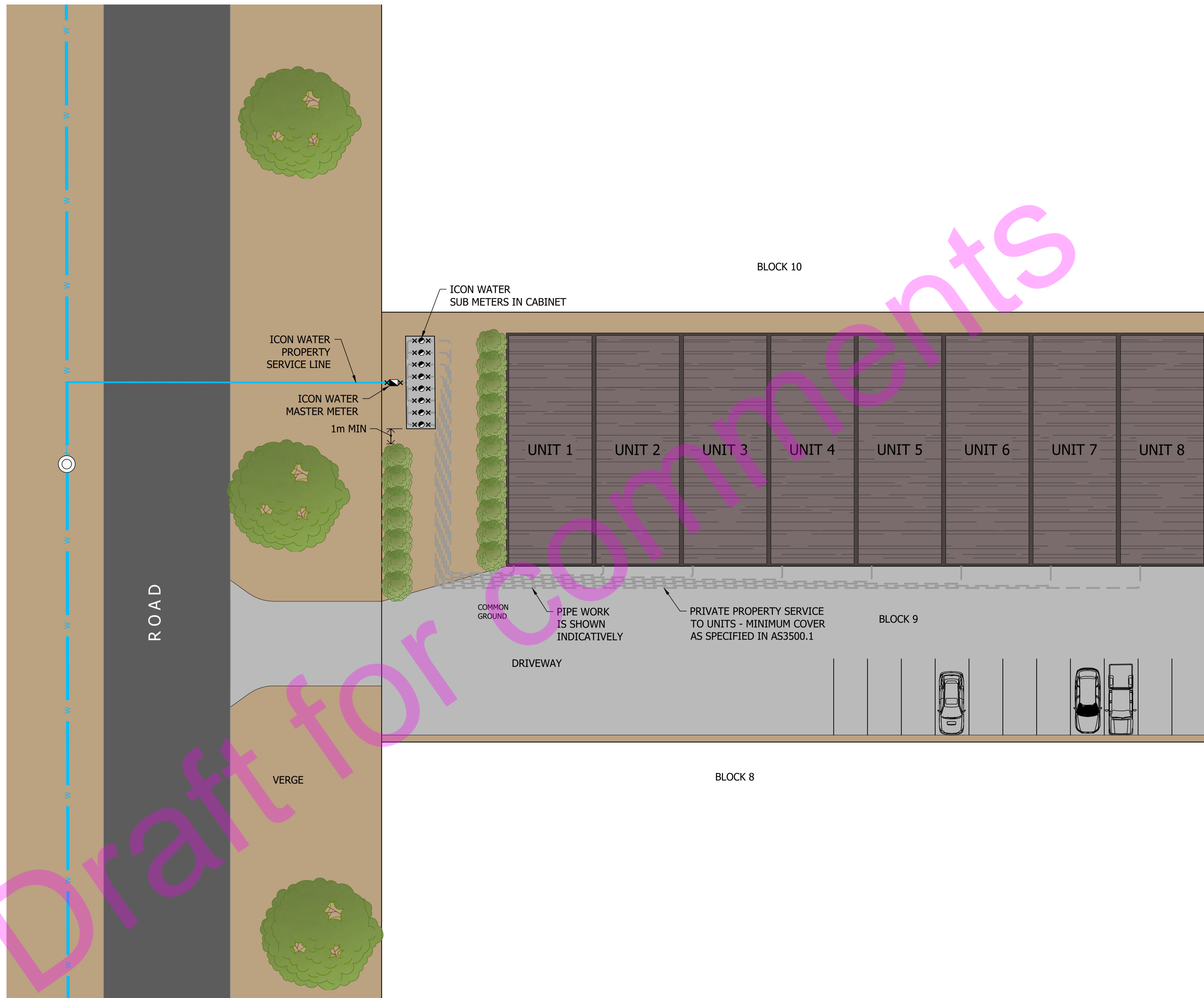
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LEGEND:

-  WATER MAIN
-  PROPERTY SERVICE LINE (ICON WATER)
-  PROPERTY SERVICE (PRIVATE)
-  ICON WATER MASTER METER
-  ICON WATER SUB WATER METER
-  METER ISOLATION VALVE
-  TREE / SHRUB / PLANT



TYPICAL COMMERCIAL MULTI UNIT ARRANGEMENT WHERE PROPERTY HAS MORE THAN 6 UNITS - CABINET INSTALLATION

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	













STANDARD DRAWING
UNIT METERING - UNIT TITLE DEVELOPMENTS
SUB METERING ARRANGEMENTS
TYPICAL ABOVE GROUND "TEE" INSTALLATION

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LEGEND:

-  WATER MAIN
-  PROPERTY SERVICE LINE (ICON WATER)
-  PROPERTY SERVICE (PRIVATE)
-  FIRE SERVICE LINE (ICON WATER)
-  FIRE SERVICE (PRIVATE)
-  ICON WATER MASTER METER
-  ICON WATER SUB METER
-  METER ISOLATION VALVE
-  NON-RETURN VALVE (BACKFLOW PREVENTION)
-  TREE / SHRUB



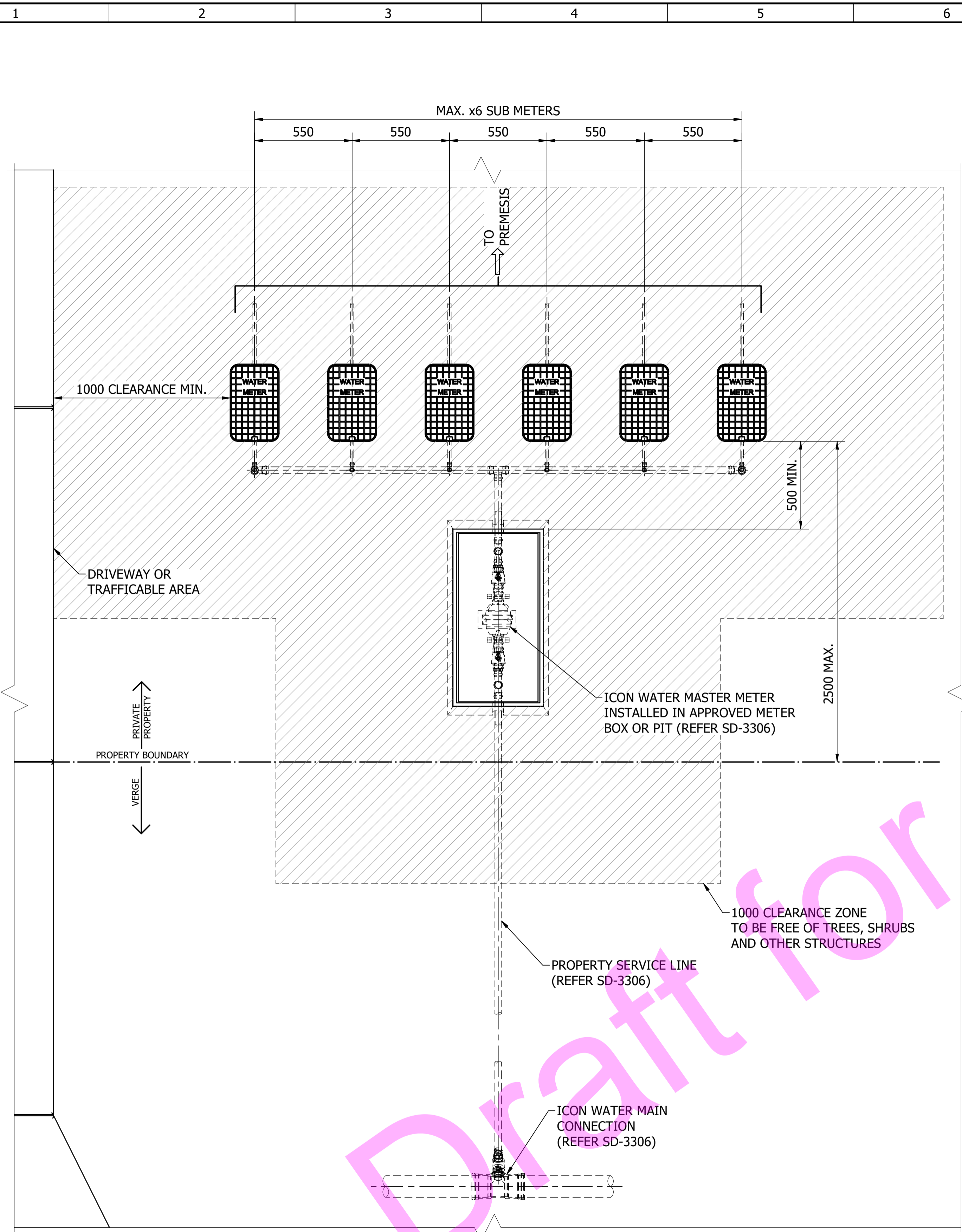
TYPICAL COMMERCIAL MULTI UNIT ARRANGEMENT WHERE PROPERTY HAS 3 OR MORE UNITS WITH MASTER METER AT BOUNDARY AND SUB METERS AT IN CABINET ENTRANCE TO PROPERTY

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



STANDARD DRAWING
 UNIT METERING - UNIT TITLE DEVELOPMENTS
 SUB METERING ARRANGEMENTS
 TYPICAL BELOW GROUND "STRAIGHT" INSTALLATION
 WITH FIRE SERVICE

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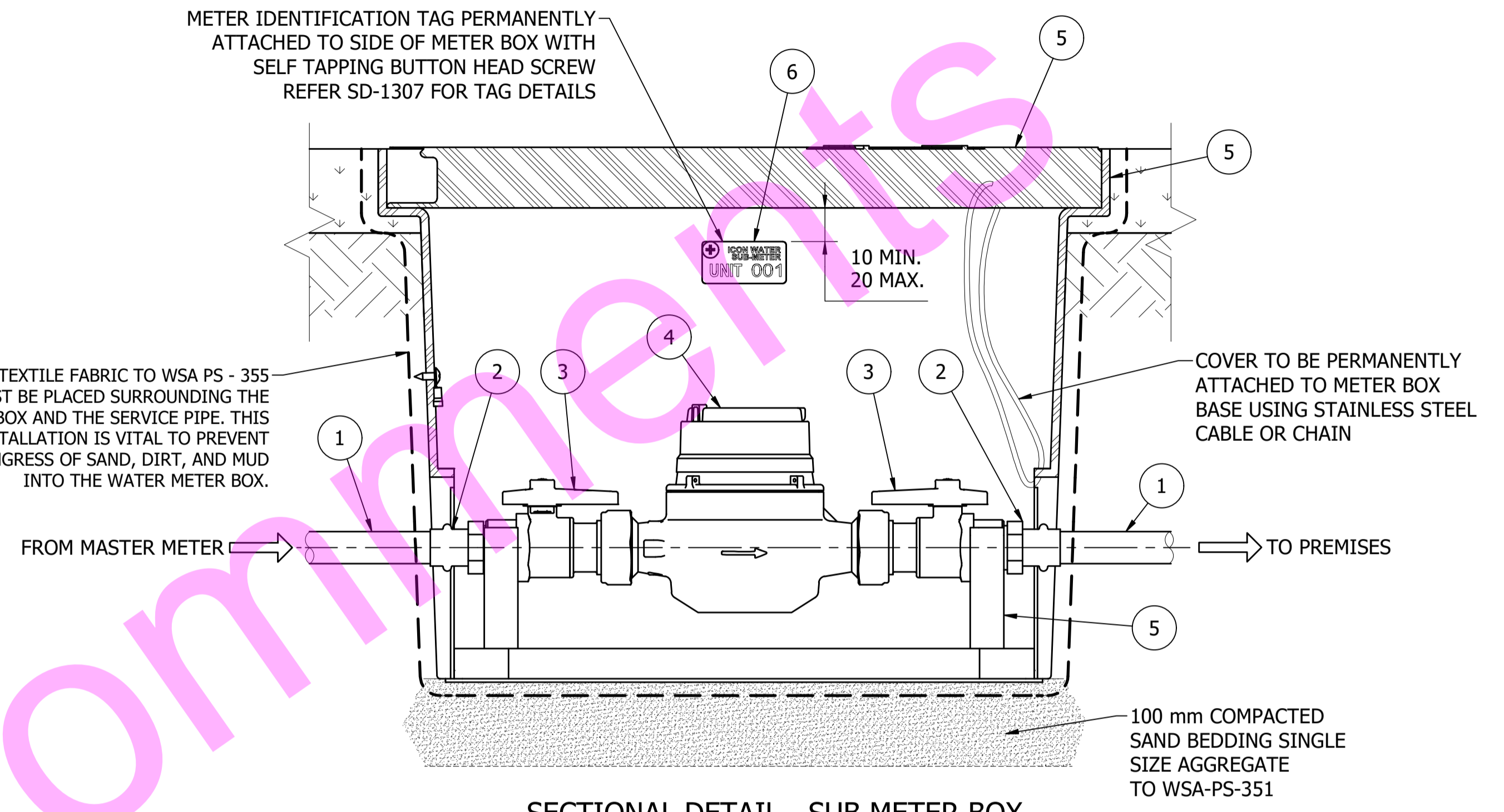
PLAN VIEW - MASTER AND SUB-METER ARRANGEMENT
FOR RESIDENTIAL PROPERTIES UP TO 6 UNITS INCL. BODY CORPORATE SUB-METER
NOT TO SCALE

NOTES:

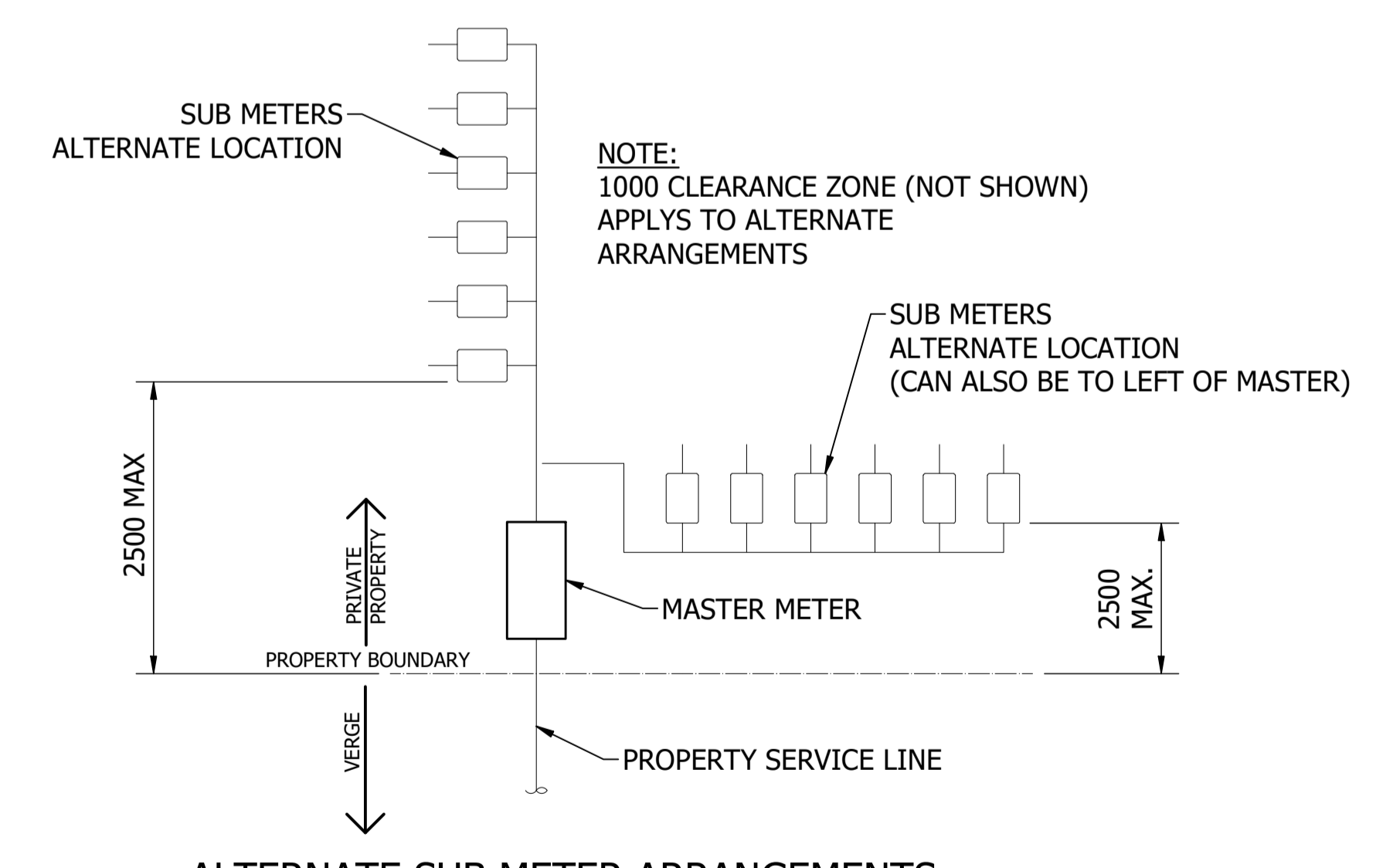
- ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- A MINIMUM OF 300 MM OF COPPER PIPEWORK IS REQUIRED BOTH UPSTREAM AND DOWNSTREAM OF THE METER. THIS SPECIFICATION ENSURES THE ICON WATER MAINTENANCE TEAM CAN ADEQUATELY REPLACE THE METER AND ADJUST THE BOX AS NEEDED.
- THE TRANSITION BETWEEN COPPER AND PE PIPE TO BE PUSHFIT SERIES FEMALE PE/COPPER ADAPTOR TO FEMALE BSP. PE PIPE TO BE SDR 11, PN16, PE100 PIPE.

PARTS LIST

ITEM	DESCRIPTION
1	DN20 COPPER TUBE, TYPE B, HARD DRAWN (NOTE 2 AND 3)
2	3/4" MALE BSP X DN20 PRESS FIT ADAPTOR
3	DN20 BALL VALVE - 3/4" FEMALE BSP X METER NUT (FLAT FACED)
4	DN20 WATER METER - ICON WATER APPROVED
5	METER BOX WITH BRACKET BASE AND NON SLIP LID
6	UNIT METER IDENTIFICATION TAG



SECTIONAL DETAIL - SUB METER BOX
(COPPER SUPPLY SHOWN REFER PARTS LIST FOR HDPE DETAILS)
NOT TO SCALE



ALTERNATE SUB METER ARRANGEMENTS
NOT TO SCALE

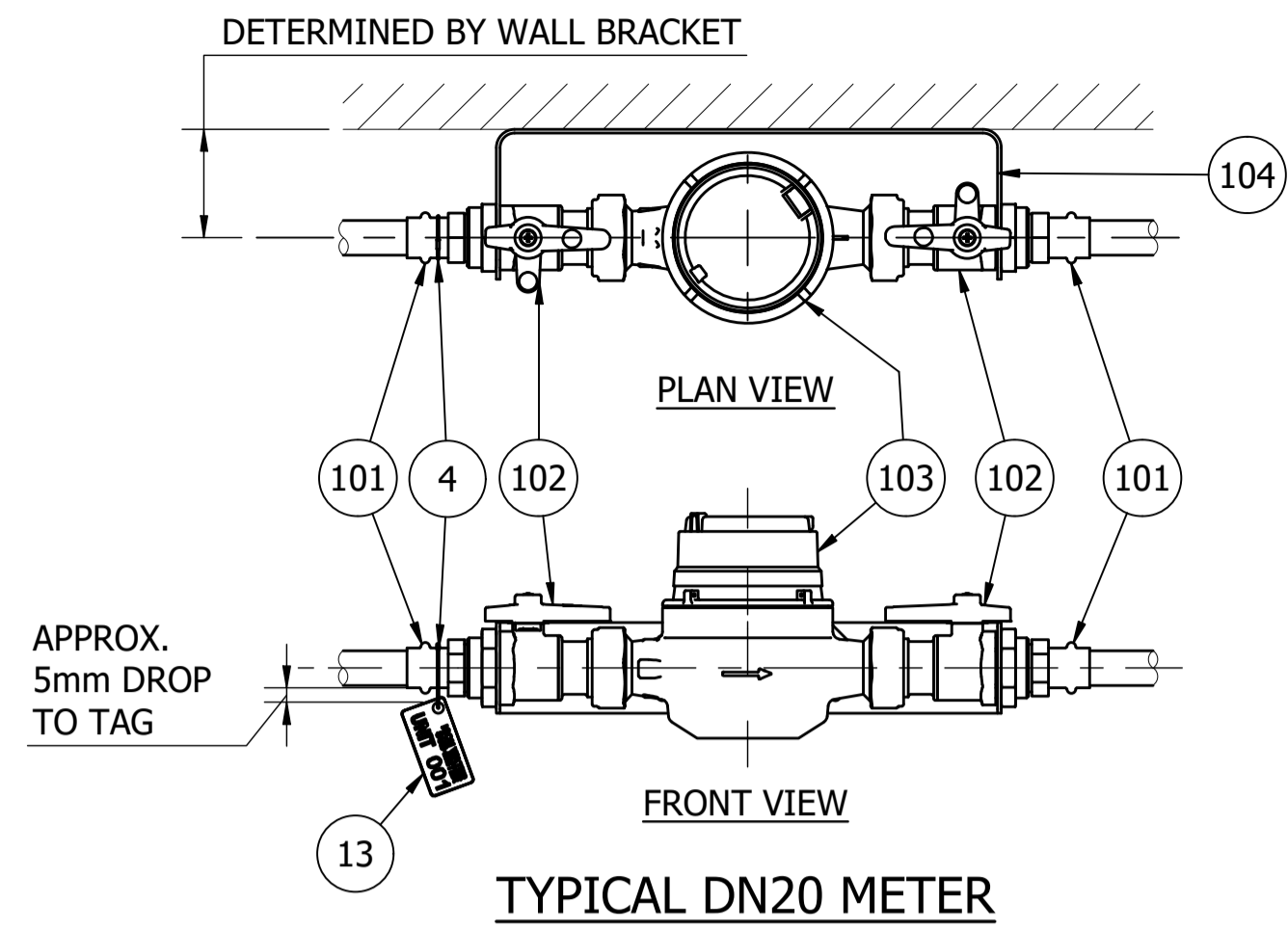
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DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



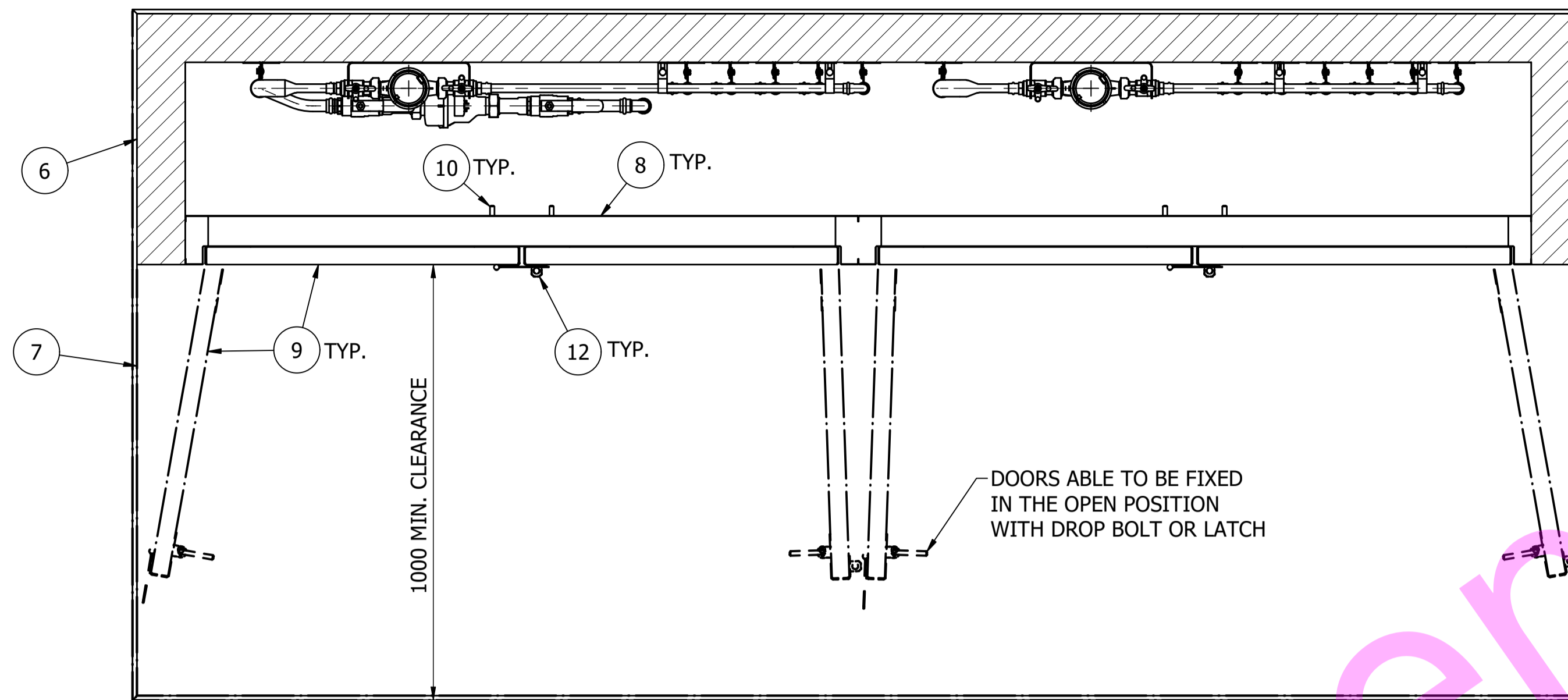
STANDARD DRAWING
UNIT METERING - UNIT TITLE DEVELOPMENTS
SUB METERING ARRANGEMENTS
BELOW GROUND TYPICAL DETAILS

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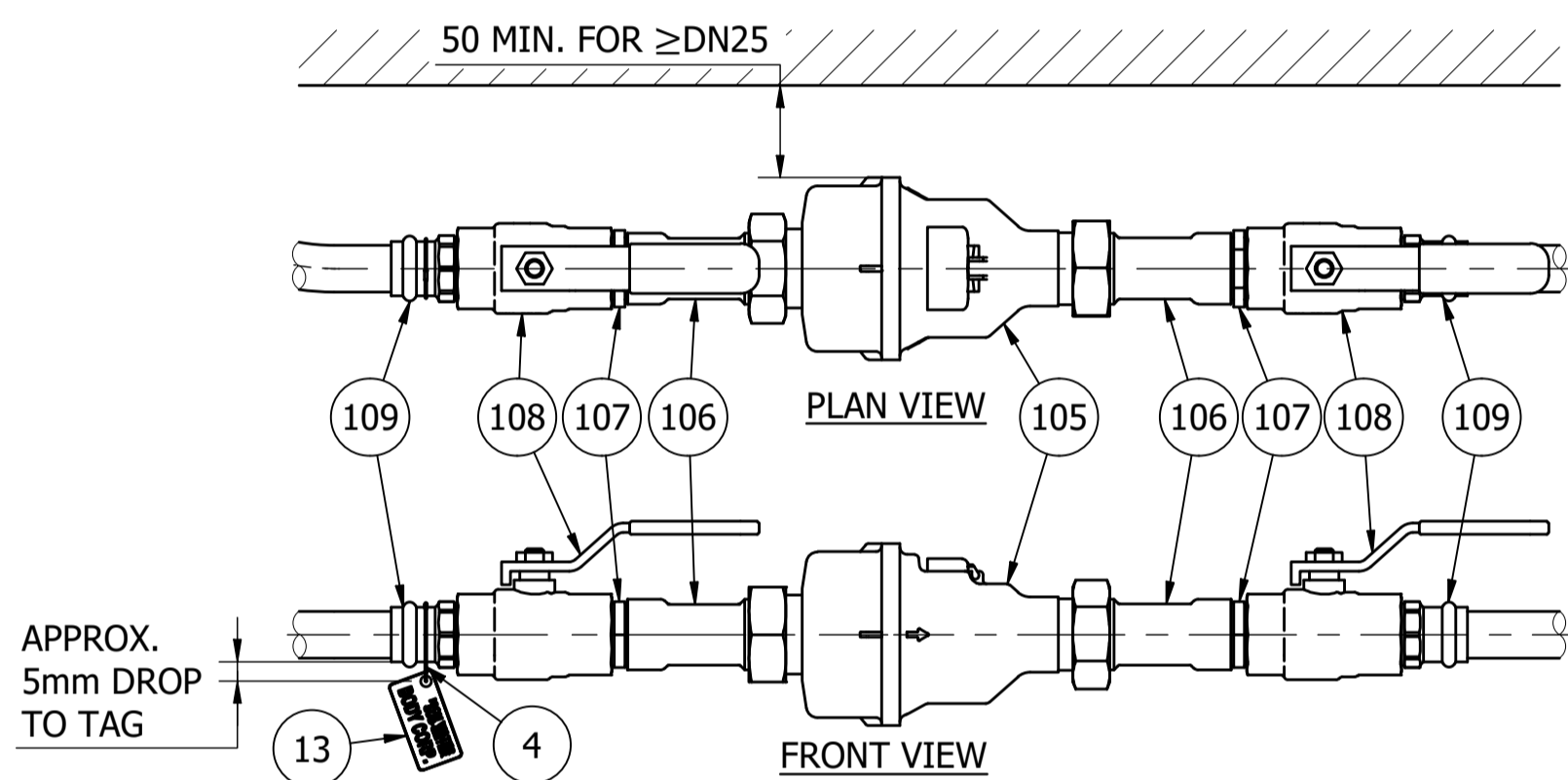


TYPICAL DN20 METER
SCALE: 1 : 4

DN20 METER SUB-ASSEMBLY		
ITEM	DESCRIPTION	QTY
101	3/4" MALE BSP X DN20 PRESS FIT ADAPTOR	2
102	DN20 BALL VALVE - 3/4" FEMALE BSP X METER NUT (FLAT FACED)	2
103	DN20 WATER METER - ICON WATER APPROVED	1
104	DN20 METER WALL MOUNT BRACKET - STAINLESS STEEL	1

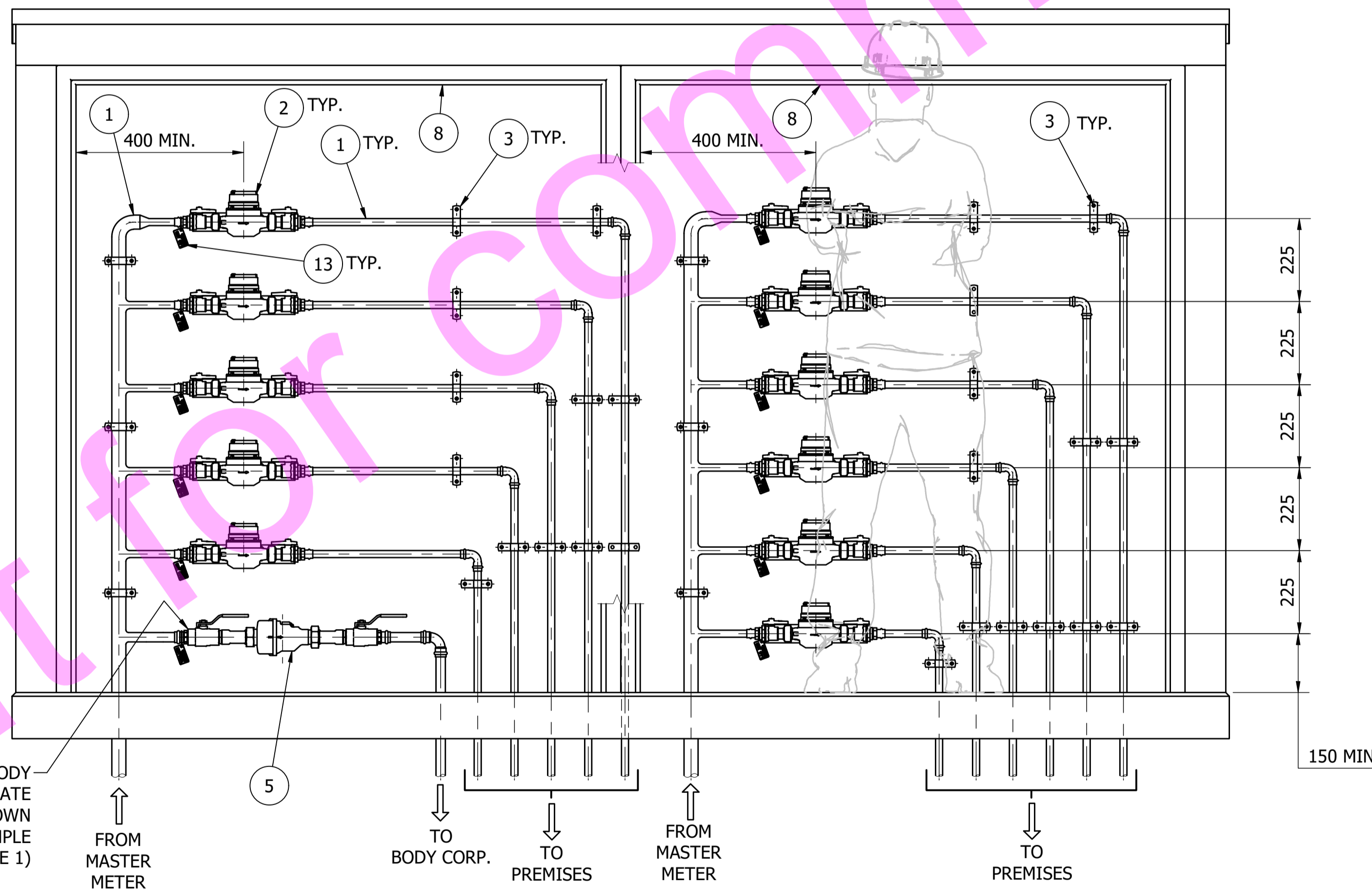


PLAN VIEW
(ROOF NOT SHOWN FOR CLARITY)
SCALE: 1 : 10

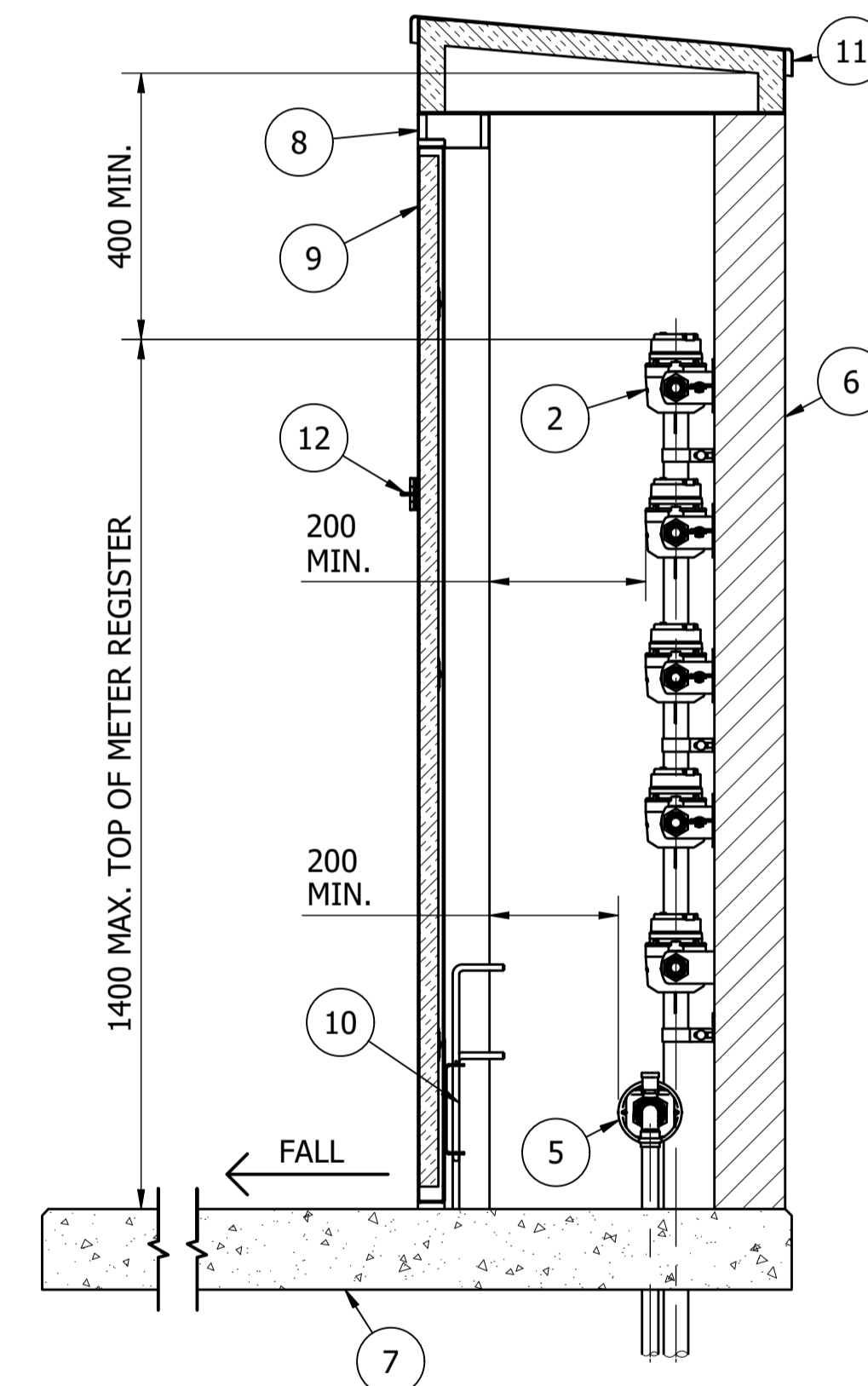


TYPICAL DN25 METER
SCALE: 1 : 4

DN25 METER SUB-ASSEMBLY		
ITEM	DESCRIPTION	QTY
105	DN25 WATER METER - ICON WATER APPROVED	1
106	DN25 UNION 1" FEMALE BSP x METER NUT	2
107	DN25 NIPPLE (1" BSP)	2
108	DN25 BALL VALVE, 1" BSP FEMALE-FEMALE, BRASS	2
109	1" MALE BSP x DN25 PRESS FIT ADAPTOR	2



FRONT ELEVATION
(DOORS AND PART OF DOOR FRAME NOT SHOWN FOR CLARITY)
SCALE: 1 : 10



SIDE ELEVATION (SECTIONAL)
SCALE: 1 : 10

PARTS LIST	
ITEM	DESCRIPTION
1	COPPER TUBE, TYPE B, HARD DRAWN
2	DN20 METER SUB-ASSEMBLY
3	SUPPORT AND FIXINGS TO AS3500
4	ID TAG ATTACHMENT WIRE (NOTE 4)
5	DN25 METER
6	ENCLOSURE WALL WITH INSULATION (NOTE 2)
7	CONCRETE SLAB
8	DOOR FRAME
9	DOOR WITH INSULATION (NOTE 2)
10	DROP BOLT
11	ENCLOSURE ROOF WITH INSULATION (NOTE 2)
12	LOCK - HASP AND STAPLE (OR OTHER EQUIVALENT)
13	UNIT METER IDENTIFICATION TAG

NOTES:

- THIS DRAWING ILLUSTRATES A STANDARD ARRANGEMENT OF 11 UNIT METERS ALONG WITH A CORPORATE METER IN AN ABOVE-GROUND ENCLOSURE. IT IS DESIGNED TO HIGHLIGHT THE MINIMUM CLEARANCES REQUIRED FOR THE ENCLOSURE AND THE SPACING BETWEEN METERS. THE QUANTITY, TYPE, AND SIZE OF THE METERS WILL BE TAILORED TO EACH DEVELOPMENT.
- INSULATION BOARDS SHOULD BE PERMANENTLY SECURED USING MECHANICAL METHODS, SUCH AS SCREWS, BOLTS, OR CLIPS, ON THE DOORS, ROOF, AND WALLS.
- ALL PIPEWORK INSIDE THE ENCLOSURE MUST BE MADE OF TYPE B, HARD-DRAWN COPPER.
- METER ID TAGS SHOULD BE AFFIXED ON THE ADAPTER BEFORE THE UPSTREAM ISOLATION VALVE USING A 1MM METER SEALING WIRE (SWAGED).
- THE DISTANCE OF THE ENCLOSURE FROM THE BOUNDARY SHALL BE MAXIMUM 3 METERS.
- THE ENCLOSURE SHOULD BE POSITIONED ON THE GROUND LEVEL, WITHIN THE PROPERTY BOUNDARY, ENSURING AN UNOBSTRUCTED WORKING SPACE FOR MAINTENANCE AND REPLACEMENT PURPOSES. THE WORKING SPACE SHOULD MEASURE A MINIMUM OF TWO SQUARE METERS OR AN AREA EQUIVALENT TO 1.5 METERS MULTIPLIED BY THE WIDTH OF THE ACCESS DOOR, WHICHEVER IS LARGER.

DAM	RES	SPS
BWS	WAT	STP
WTP	SEW	
WPS	REC	



STANDARD DRAWING
UNIT METERING - UNIT TITLE DEVELOPMENTS
SUB METERING ARRANGEMENTS
ABOVE GROUND TYPICAL DETAILS

DRAWING STATUS
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