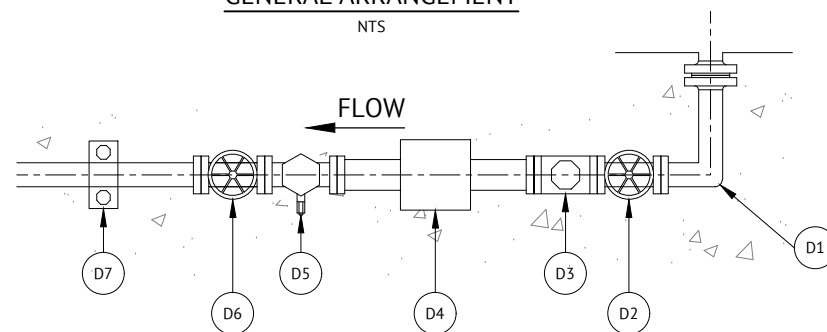
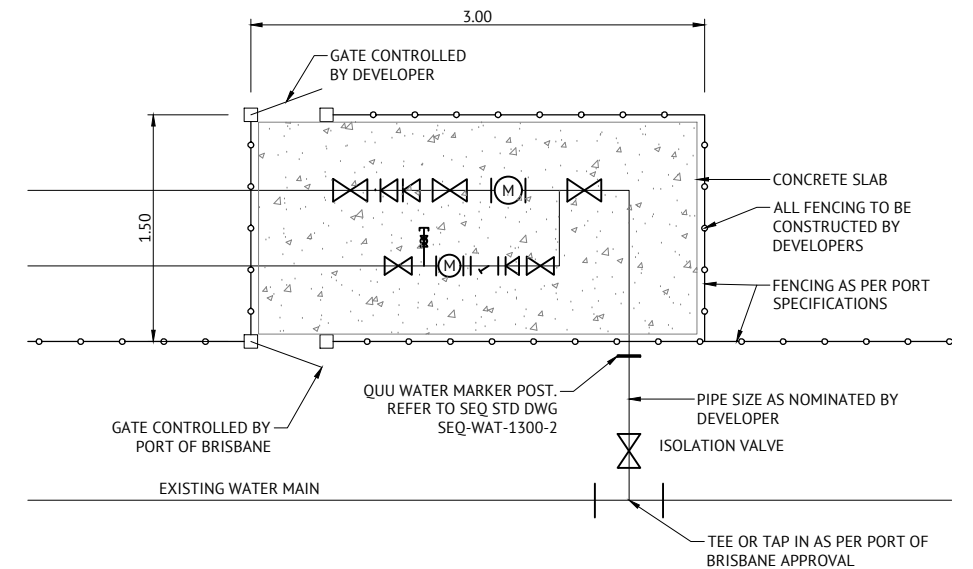


GENERAL ARRANGEMENT
NTS



DETAIL 1
NTS



LAYOUT SCHEMATIC
NTS

FIRE FLOW SCHEDULE			
		DESCRIPTION	
ITEM	FITTING	DN100 SERVICE LENGTH APPROX 1.3m	DN150 SERVICE LENGTH APPROX 1.8m
F1	SERVICE PIPE AND 90° BEND	DN100 FL-FL DICL, THERMAL BONDED EPOXY COATED	DN150 FL-FL DICL, THERMAL BONDED EPOXY COATED
F2	ISOLATION VALVE	DN100 FL-FL GATE VALVE, THERMAL BONDED EPOXY COATED	DN150 FL-FL GATE VALVE, THERMAL BONDED EPOXY COATED
F3	BRANCH OFFTAKE PIPE FOR DOMESTIC SERVICE	DN100 FL-FL 316SS, 500mm LONG	DN150 FL-FL 316SS, 750mm LONG
F4	FIRE SERVICE WATER METER	100mm ULTRASONIC OCTAVE	150mm ULTRASONIC OCTAVE
F5	PIPE SUPPORT	GALVANISED MILD STEEL WITH RUBBER INSERT	GALVANISED MILD STEEL WITH RUBBER INSERT
F6	PIPE	DN100 FL-FL 316SS, 300mm LONG	DN150 FL-FL 316SS, 450mm LONG
F7	ISOLATION VALVE	DN100 FL-FL BUTTERFLY VALVE	DN150 FL-FL BUTTERFLY VALVE
F8	BACKFLOW PREVENTION DEVICE (REFER NOTE 8 AND A.S. 3500 SECTION 4)	AS/NZS 2845.1 COMPLIANT	AS/NZS 2845.1 COMPLIANT

NOTES

- THIS METER ASSEMBLY ARRANGEMENT IS FOR A DOMESTIC (DN32 AND LARGER) SERVICE COMBINED WITH A SERVICE (DN100 AND LARGER), WHICH ARE METERED SEPARATELY.
- THE METER ASSEMBLY ARRANGEMENT SHALL BE LOCATED ADJACENT TO THE ROADSIDE PROPERTY BOUNDARY (REFER LAYOUT SCHEMATIC), UPSTREAM OF ALL INTERNAL OFFTAKES AND SHALL BE ACCESSIBLE FOR READING, MAINTENANCE AND REPLACEMENT AT ALL TIMES.
- THE METER SIZING GUIDE PROVIDED IN THIS DRAWING IS FOR REFERENCE ONLY. CORRECT METER SIZING IS THE RESPONSIBILITY OF THE HYDRAULIC ENGINEER.
- THE PROPERTY SERVICE AND METER ASSEMBLY SHALL BE LOCATED AT LEAST ONE (1) METRE FROM ALL ELECTRICAL SOURCES AND AT LEAST 600mm HORIZONTALLY CLEAR OF EXISTING/FUTURE DRIVEWAYS, FENCES AND STRUCTURES. ANY OTHER ARRANGEMENT IS SUBJECT TO PRIOR APPROVAL BY POB.
- WATER METER ASSEMBLY SHALL HAVE MIN 150 - 300mm VERTICAL CLEARANCE BETWEEN FINISHED SURFACE LEVEL AND UNDERSIDE OF FLANGE (AS SHOWN). THE HORIZONTAL CLEARANCE BETWEEN THE FIRE SERVICE METER ARRANGEMENT AND THE DOMESTIC SERVICE SHALL BE AT LEAST 300mm.
- ASSEMBLY DETAIL DOWNSTREAM OF TEE AND TESTING PORT (ITEM D6) IS SHOWN FOR REFERENCE ONLY AND IS CLASSIFIED AS PRIVATE PLUMBING.
- ASSEMBLY DETAIL DOWNSTREAM OF THE FIRE SERVICE PIPE (ITEM F6) IS SHOWN FOR REFERENCE ONLY AND IS CLASSIFIED AS PRIVATE PLUMBING. AS MINIMUM, A CONTAINMENT BACKFLOW PREVENTION DEVICE MUST BE INSTALLED DOWNSTREAM OF THE PIPE (ITEM F6). THE BACKFLOW PREVENTION DEVICE MUST BE IN ACCORDANCE WITH A.S. 3500 AND BE AT LEAST A SINGLE CHECK VALVE.
- WHERE THE FIRE SERVICE SUPPLIES BOTH HYDRANT AND SPRINKLER SERVICES, THE SPRINKLER SERVICES, THE SPRINKLER SERVICE SHALL BRANCH OFF IMMEDIATELY DOWNSTREAM OF THE CONTAINMENT BACKFLOW PREVENTION DEVICE. HOSE REEL SERVICES MAY BE SUPPLIED FROM EITHER THE HYDRANT SERVICE LINE OR THE DOMESTIC SERVICE LINE.
- SERVICE PIPE SMALLER THAN DN50 SHALL BE CONTINUOUS COPPER TO A.S. 1432.
- THIS DRAWING ILLUSTRATES A DN150 FIRE SERVICE WITH A DN100 DOMESTIC SERVICE BRANCH. FITTINGS FOR OTHER SIZES SERVICES WILL BE SLIGHTLY DIFFERENT. THE TABLE BELOW DOES NOT PROVIDE DETAILS OF ALL THE FITTINGS REQUIRED, ONLY THE MAIN COMPONENTS.
- REFER TO POB STANDARD DRAWING "..." FOR FURTHER NOTES.

DOMESTIC FLOW SCHEDULE

DOMESTIC FLOW SCHEDULE					
		DESCRIPTION			
ITEM	FITTING	DN32 SERVICE LENGTH APPROX 0.5m	DN50 SERVICE LENGTH APPROX 1.0m	DN100 SERVICE (WITH 80mm METER) LENGTH APPROX 1.1m	DN100 SERVICE (WITH 100mm METER) LENGTH APPROX 1.3m
D1	SERVICE PIPE AND 90° BEND	DN32 COPPER CLASS A, SILVER SOLDERED WITH BRASS UNION, CAPILLARY - BSP M	DN50 COPPER CLASS A, SILVER SOLDERED WITH BRASS UNION, CAPILLARY - BSP M	DN100 FL-FL DICL, THERMAL BONDED EPOXY COATED	DN100 FL-FL DICL, THERMAL BONDED EPOXY COATED
D2	ISOLATION VALVE	DN32 BSP BRASS BALL/GLOBE VALVE	DN50 BSP BRASS BALL/GLOBE VALVE	DN100 FL-FL GATE VALVE, THERMAL BONDED EPOXY COATED (1)	DN100 FL-FL GATE VALVE, THERMAL BONDED EPOXY COATED
D3	NON RETURN VALVE	DN32 SINGLE CHECK VALVE	DN50 FL-FL VAL-MATIC SWING FLEX	DN80 FL-FL VAL-MATIC SWING FLEX	DN100 FL-FL VAL-MATIC SWING FLEX
D4	WATER METER	40mm ELSTER H5000 (REFER NOTE 3)	50mm ULTRASONIC ITRON (REFER NOTE 3)	80mm ULTRASONIC ITRON (REFER NOTE 3)	100mm ULTRASONIC ITRON (REFER NOTE 3)
D5	TEE & TESTING PORT	DN32 x DN25 BRASS TEE WITH DN25 BSP BRASS BALL VALVE	DN50 x DN25 BRASS TEE WITH 25 BSP BRASS BALL VALVE	DN80 FL-FL 316SS WITH DN25 TAPPING AND DN25 BSP BRASS BALL VALVE	DN100 FL-FL 316SS WITH DN25 TAPPING AND DN25 BSP BRASS BALL VALVE
D6	CUSTOMER ISOLATION VALVE	BSP BRASS BALL/GLOBE VALVE	BRASS BALL/GLOBE VALVE	BRASS BALL/GLOBE VALVE	GATE VALVE, THERMAL BONDED EPOXY COATED
D7	PIPE SUPPORT	GALVANISED PIPE SUPPORT WITH RUBBER INSERT	GALVANISED PIPE SUPPORT WITH RUBBER INSERT	GALVANISED PIPE SUPPORT WITH RUBBER INSERT	GALVANISED PIPE SUPPORT WITH RUBBER INSERT
NA	METER SIZING GUIDE - NUMBER OF DWELLINGS SERVICED	7 - 21	22 - 89	90 - 300	301 - 500

(1) DN100/80 FL-FL REDUCER (THERMAL BONDED EPOXY) TO BE INSTALLED ON DOWNSTREAM SIDE OF ISOLATION VALVE (ITEM 2)

2	AMENDED DOMESTIC FLOW WATER METER	D.M.	P.B.	05/20
1	ORIGINAL ISSUE	D.M.	P.B.	06/19
REV.	AMENDMENTS	INIT.	APP.	DATE



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HORIZ DATUM: Based on
VERT DATUM: Based on
PORT: PROJECT LOCATION
PREPARED BY KLYNT KIWANG Date: ##/05/20
CHECKED BY DAVID MADDISON Date: ##/05/20
APPROVED BY PATRICK BRADY Date: ##/05/20

PROJECT: STANDARD WATER METER ASSEMBLY
SHEET TITLE: TYPICAL LARGE WATER METER GENERAL ARRANGEMENT
RPEQ No: 7112
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