

RUBBER RING JOINTED MAINS

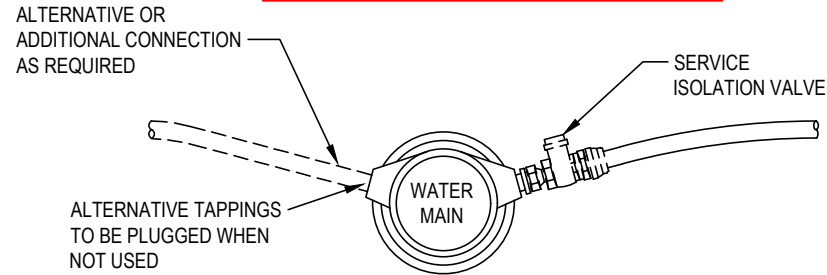


FIGURE 111-A: PRE-TAPPED CONNECTOR (CUT IN CONNECTION)
(FOR DRY TAP RESIDENTIAL CONNECTIONS TO ALL NEW DN100 - DN 150 RRJ MAINS)

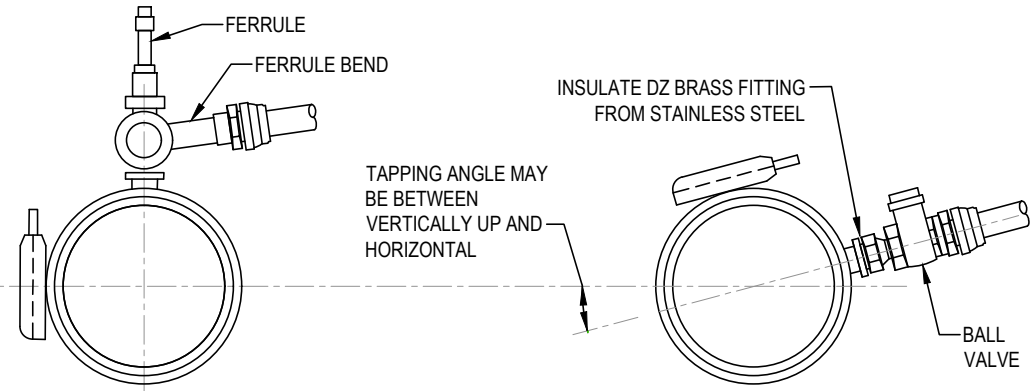


FIGURE 111-B: SS WIDE CLAMP TAPPING BAND (OTHER THAN MS)
NOT SUITABLE FOR PVC-O & PE
FOR PVC-U, PVC-M AND RIGID MAINS ONLY
BOTH TYPES OF ISOLATION VALVES ARE SUITABLE FOR BOTH WET AND DRY CONNECTIONS.

ANY HOST MAINS

SOME NARROW BAND ARE AVAILABLE FOR MAINS ≥DN40PE.
SOME NARROW BAND ARE AVAILABLE FOR MAINS ≥DN63PE.

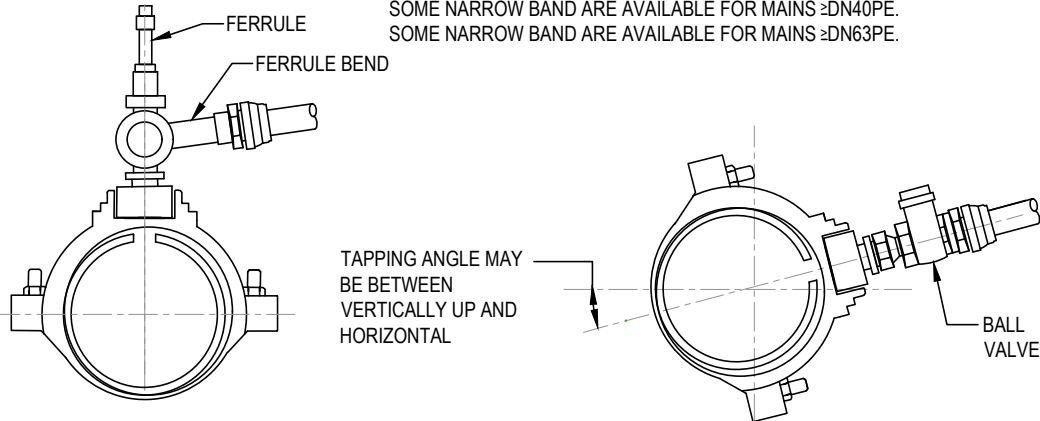


FIGURE 111-C: NARROW CLAMP TAPPING BAND (MADE OF DI, GM, GRN or PP)
BOTH TYPES OF ISOLATION VALVES ARE SUITABLE FOR BOTH WET AND DRY CONNECTIONS.

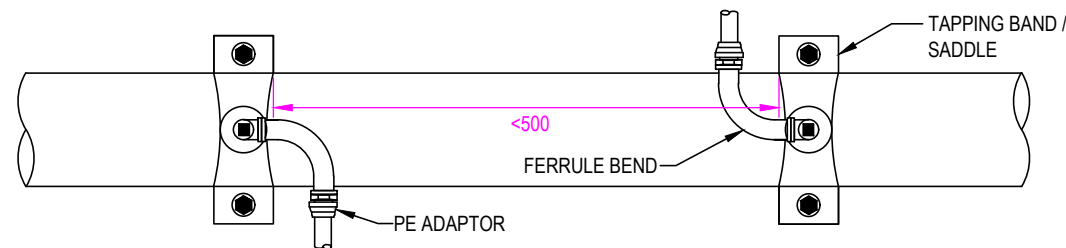


FIGURE 111-D: FERRULE CONNECTIONS (PLAN VIEW)

PE HOST MAINS

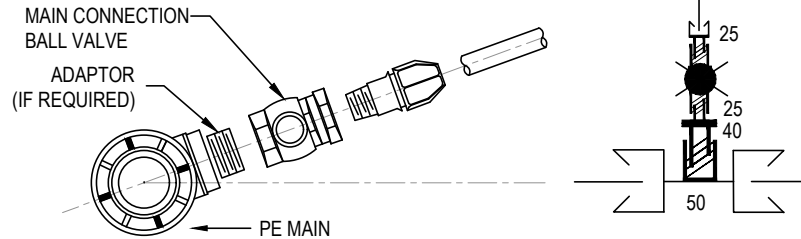


FIGURE 111-E: PE MAIN TEE INSERTION & SCHEMATIC (CUT IN CONNECTION)
(FOR PE MAINS ≤DN 63 PE)

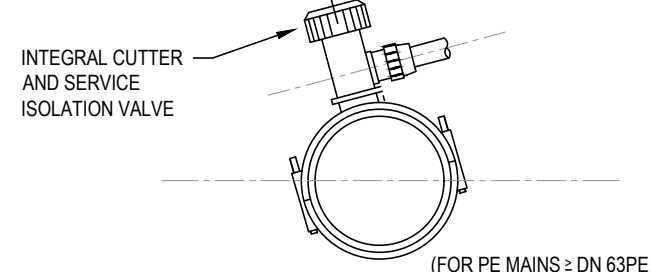


FIGURE 111-F: PE MAIN TAPPING SADDLES (UNDER PRESSURE OR DRY CONNECTION)

As per Table 103-D, EF welding is not preferred and shall only be undertaken where the Contractor has been issued with a dispensation by the water agency to use this method.

NOTES:

1. Residential property services shall typically be DN25PE.
2. Larger services ≥ DN40PE shall be connected as shown in MRWA-W-106 & 107.
3. For PE main tapping saddle/ band jointing preferences, refer to Table 103-D.
4. Only install pipe joiners if approved by the water agency.
5. Maintain min 500 longitudinal spacing (between outside of fittings) between tapping bands, saddles, pre-tapped connectors and/or pipe joints, except for existing PVC-U, cast iron and asbestos cement pipes where spacings should be in accordance with water agency requirements (based on pipe condition).
6. Service connections not permitted under drive ways.
7. Service connections under reinforced concrete and all fire service connections <DN00 shall use a ferrule with Fitzroy box surface cover. Ferrule bends shall be used to set the correct angle of the property service.
8. Service pipe shall only be bent in accordance to the limitations described in PIPA document POP202.
9. Tapping fitting must be orientated between vertical (line above the main) and the horizontal line (towards the property being serviced).
10. All male threads shall be wrapped in PTFE tape.
11. Isolation valves at the tapping shall be left open after installation.
12. Bare metal (gun metal / SS) shall not be used in corrosive ground (soil resistivity > 500 ohms.cm) unless components are wrapped with a petrolatum wrapping system. Refer to MRWA-W-306A.

TABLE 111-A: HOST MAIN, VALVE & DRILL DIAMETERS AT CONNECTIONS

SERVICE SIZE	MIN HOST MAIN SIZE	VALVE SIZE	COUPON / DRILL SIZE
DN25PE	DN40PE	20 mm	16 mm
DN32PE	DN63PE	25 mm	22 mm

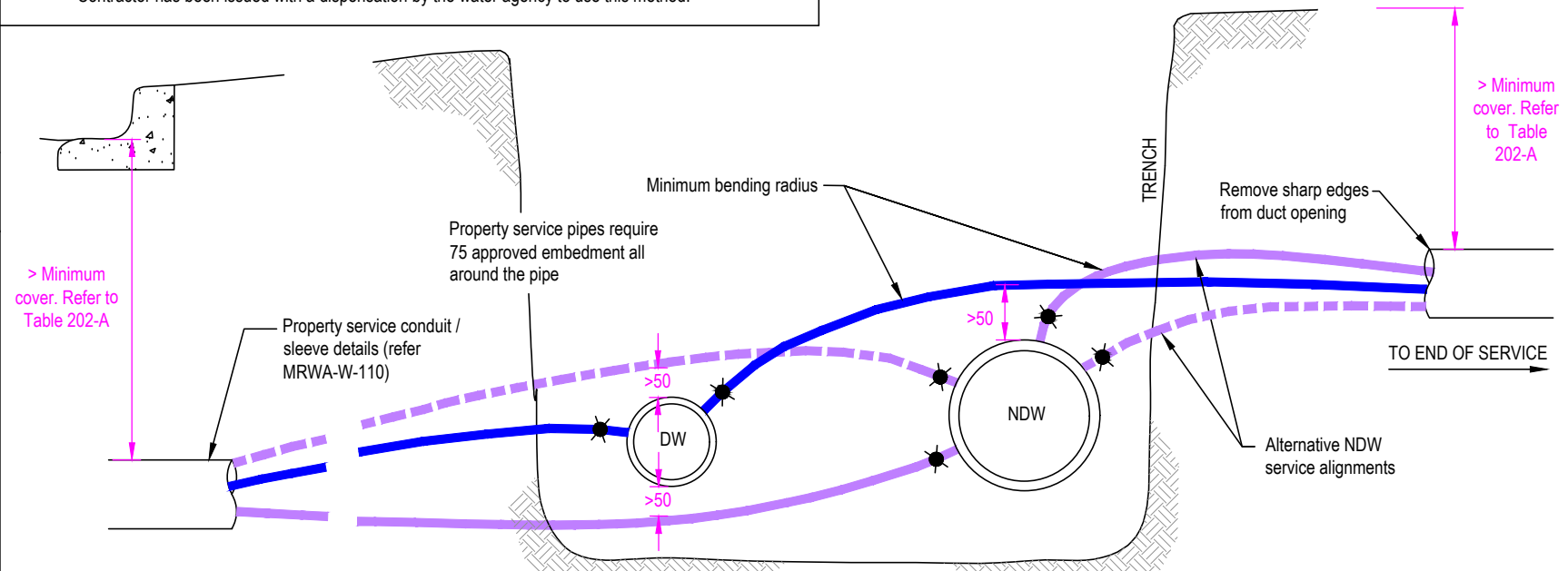


FIGURE 111-G: PRE-TAPPED CONNECTOR CROSSOVERS

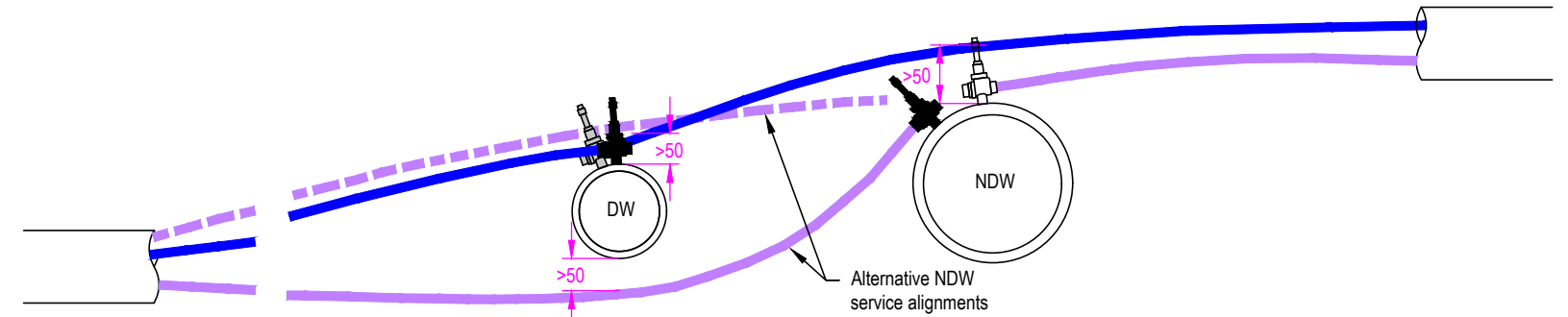


FIGURE 111-H: FERRULE TAPPING CROSSOVERS

REV	DESCRIPTION	DATE	APPROVED	DESIGNED	DATE	DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
3	FERRULES INC. NDW SERVICE VERT ALIGNMENT	11/12/16	RJ / CP / JT	R. JAGGER	20/01/2011	R. JAGGER	20/01/2011				
2	PUBLISHED FIRST ISSUE	21/03/12	R.JAGGER	C. RIVETTE	21/03/12	R.CARRUTHERS	21/03/12	C.WW	21/03/12	R.CARRUTHERS	21/03/12
1	PRE PUBLISHED DRAFT FOR COMMENT	12/07/11	R.JAGGER	C.PAXMAN	21/03/12	G.REYNOLDS	21/03/12	SEWL	21/03/12	G.REYNOLDS	21/03/12
				K.DAWSON	21/03/12	A.COSHAM	21/03/12	YVW	21/03/12	A.COSHAM	21/03/12

MELBOURNE RETAIL WATER AGENCIES



MRWA WATER SUPPLY STANDARDS

INSTALLATION OF
DN25PE AND DN32PE OFFTAKES

NOT TO SCALE

MRWA-W-111

ISSUED 2012 | REVISION NO. 3