

FIGURE 102B-A: DETAIL B FROM MRWA-W-102A

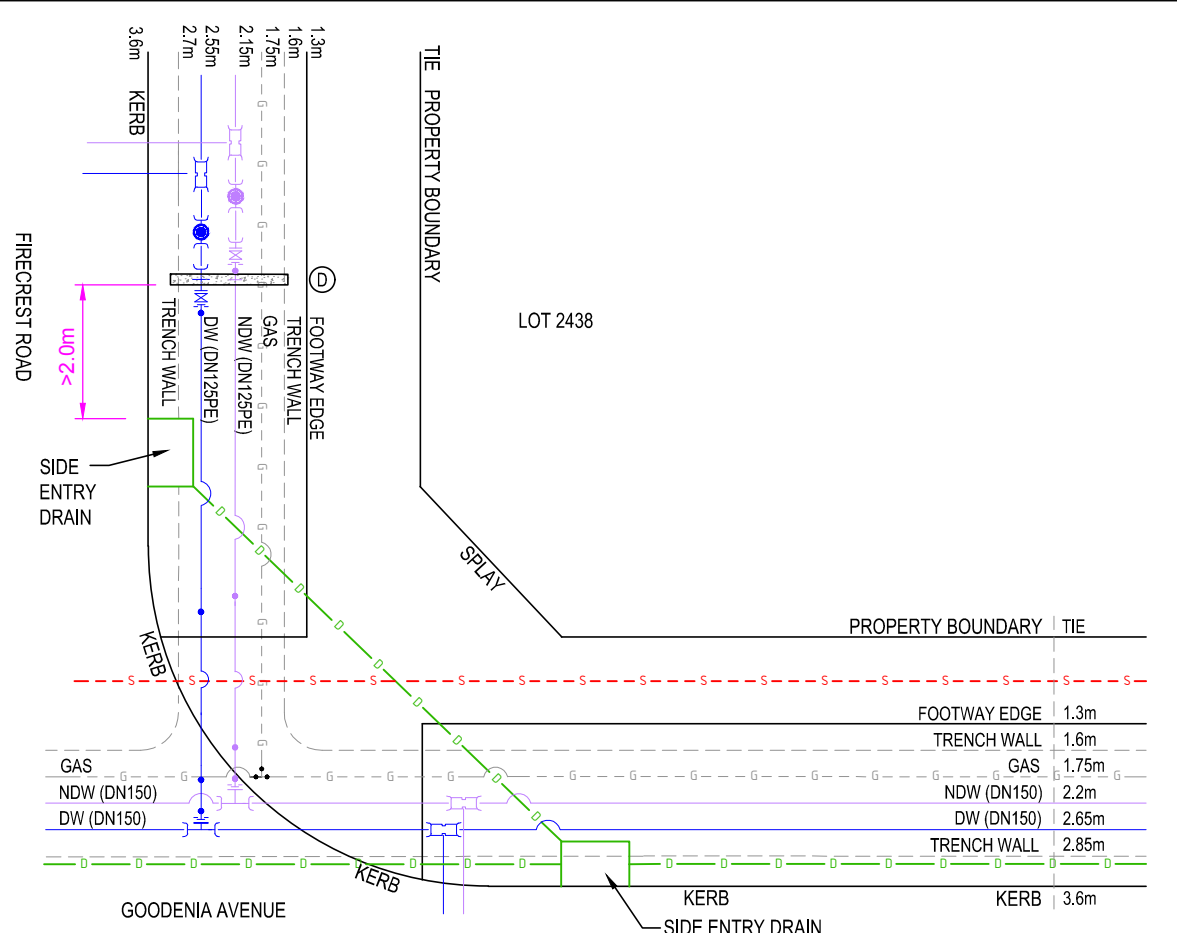


FIGURE 102B-B: DETAIL C FROM MRWA-W-102A

NOTES to the Designer.

- Design details (such as those displayed here) are required whenever there are more than 6 items within close proximity (ie: 5m diameter circle) or whenever a non standard arrangement is proposed. An "item" is a restraint block or any hydraulic item which has a separate entry in the products catalogue. A continuous unchanging length of pipe is considered one item.
- These detailed drawings are for example purposes only, and while they represent good practice, they are not suitable to be used without customization.
- Schematic drawings should be approximately to scale.
- The designer is to designate when water mains are to go under drains & sewers.
- Water mains should cross over drains and sewers if possible.
- Gas main alignments are indicative only. Refer to gas authority for gas asset requirements.
- Show all road, footpath, driveway, drainage, gas, electricity and communications assets where they are close (within 1m) inc crossings (if available), plus:
 - All Individual items as defined in note 1.
 - Distances between items or the position of items relative to surveyed markers (eg: position relative to property boundaries).
 - Side entry pits and any other surface features such as Other Authority covers.

LEGEND

- DRINKING WATER MAIN
- NON DRINKING WATER MAIN

NOTES on the given examples:

- If a water main is unable to be placed under / over the drain as prescribed in the design, consult with the designer for clarification before proceeding.
- Refer to thrust restraint schedule for thrust block areas, dimensions and relevant standard drawings.
- Examples for Details A & E from MRWA-W-102A are not shown.

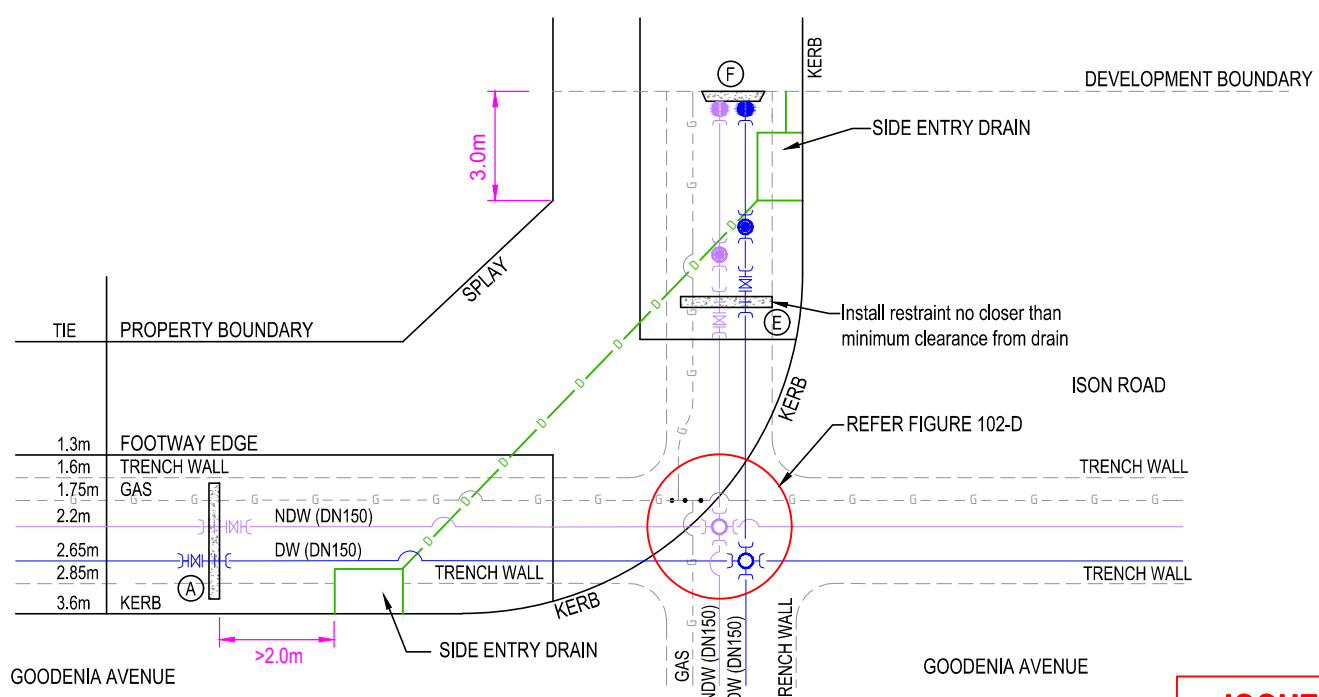


FIGURE 102B-C: DETAIL D FROM MRWA-W-102A

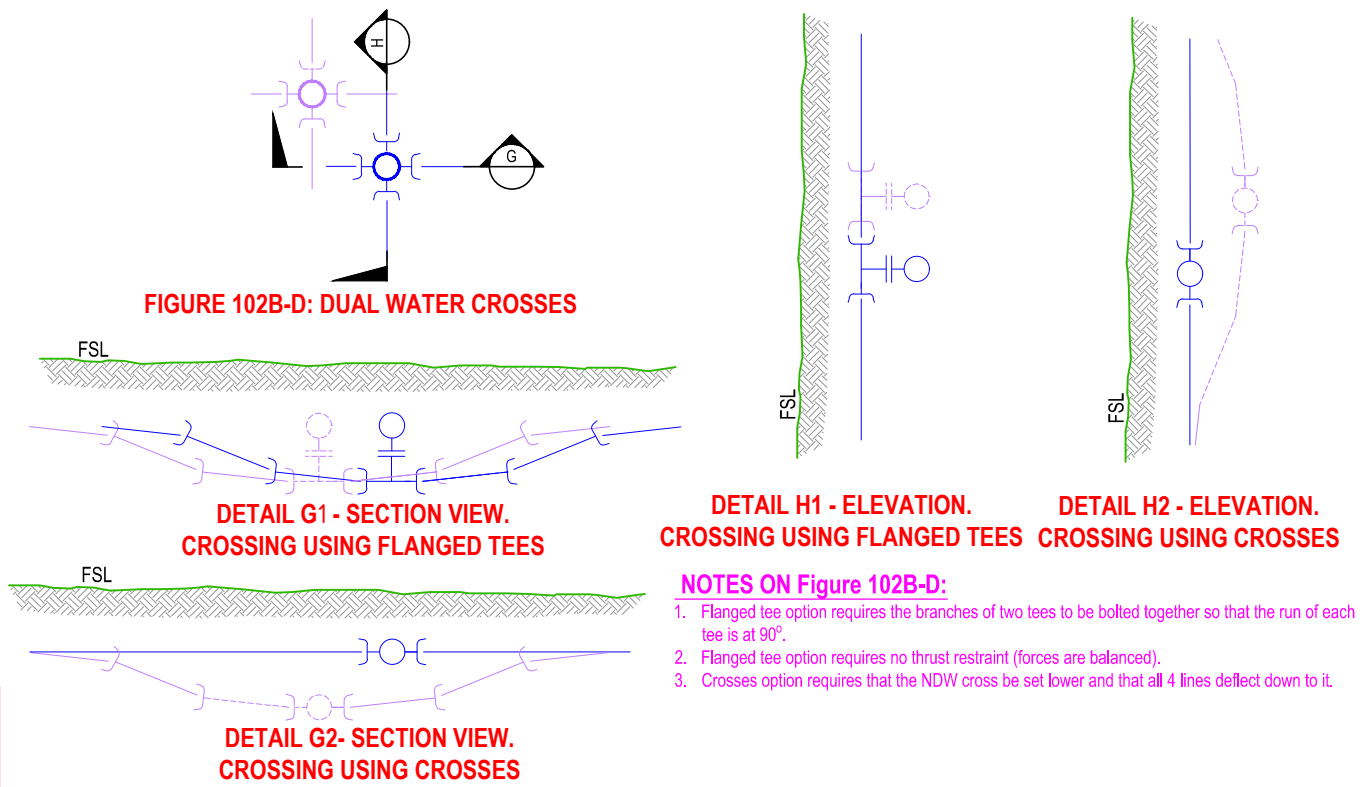


FIGURE 102B-D: DUAL WATER CROSSES

DETAIL G1 - SECTION VIEW. CROSSING USING FLANGED TEES

DETAIL H1 - ELEVATION. CROSSING USING FLANGED TEES

DETAIL H2 - ELEVATION. CROSSING USING CROSSES

- NOTES ON Figure 102B-D:**
- Flanged tee option requires the branches of two tees to be bolted together so that the run of each tee is at 90°.
 - Flanged tee option requires no thrust restraint (forces are balanced).
 - Crosses option requires that the NDW cross be set lower and that all 4 lines deflect down to it.

ISSUED FOR CONSTRUCTION

DESIGNED	R. JAGGER	DATE:	13/04/11		
DRAWN:	D. TOLENTINO	DATE:	13/04/11		
CHECKED:	NAME	DATE	APPROVED: NAME	DATE	
<input checked="" type="checkbox"/> CWW	C. RIVETTE	21/03/12	<input checked="" type="checkbox"/> CWW	R.CARRUTHERS	21/03/12
<input checked="" type="checkbox"/> SEWL	C.PAXMAN	21/03/12	<input checked="" type="checkbox"/> SEWL	G.REYNOLDS	21/03/12
<input checked="" type="checkbox"/> YVW	K.DAWSON	21/03/12	<input checked="" type="checkbox"/> YVW	A.COSHAM	21/03/12
REV	DESCRIPTION	DATE	APPROVED		
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MELBOURNE RETAIL WATER AGENCIES

MRWA WATER SUPPLY STANDARDS

EXAMPLE DETAILS

NOT TO SCALE

MRWA-W-102B

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