LEGEND

- HYDRANT (FIG 305-A)
- HYDRANT OR AIR VALVE (FIG 305-A, D, E or F)
- ALL IN ONE VALVED HYDRANT (FIG 305-B)
- VALVED RISER PLUS HYDRANT OR AIR VALVE (FIG 305-C or D)
- AIR VALVE (FIG 305-D, E or F)

NOTE: ALWAYS LOCATE NATURE STRIP VALVES AND HYDRANTS AS CLOSE AS PRACTICAL TO THE SPLAY CORNER

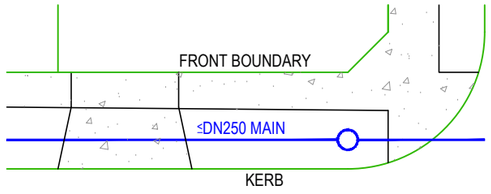

FIGURE 304B-A: CWW-SEW-YVW NON TRAFFICABLE MAIN ≤DN250

- IN LINE STANDARD HYDRANT

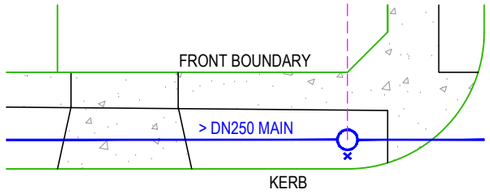

FIGURE 304B-B: SEW NON TRAFFICABLE HYDRANTS ON MAINS >DN250

IN LINE ALL IN ONE VALVED HYDRANT

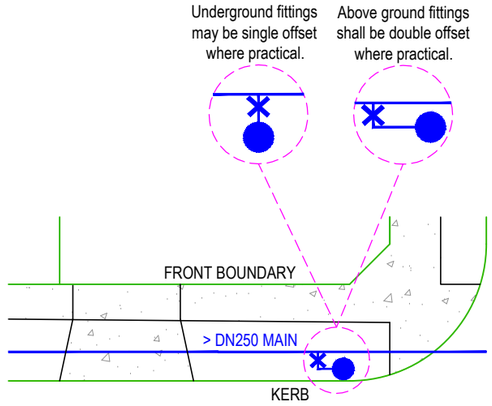

FIGURE 304B-C: NON TRAFFICABLE MAIN >DN250

- CWW or YVW- OFFSET VALVE CONTROLLED HYDRANT OR AIR VALVE
- SEW- OFFSET VALVE CONTROLLED AIR VALVE
- YVW AIR VALVE TO BE ABOVE GROUND
- ALL OTHER FITTINGS TO BE BELOW GROUND

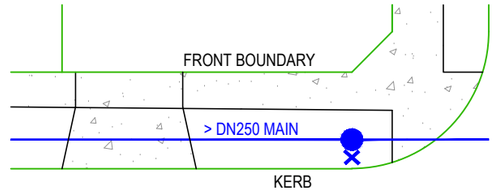

FIGURE 304B-D: CWW-SEW- YVW NON TRAFFICABLE MAIN >DN250

- IN LINE VALVED RISER PLUS AIR FITTING.
- WHEN FIG 304B-C CANNOT BE INSTALLED DUE TO SITE CONSTRAINTS.
- CWW or YVW IN LINE HYDRANTS or
- CWW or SEW BELOW GROUND AIR VALVES.

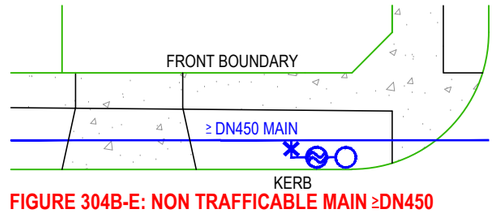

FIGURE 304B-E: NON TRAFFICABLE MAIN ≥DN450

- OFFSET VALVE CONTROLLED AIR VALVE + HYDRANT
- YVW AIR VALVE SHALL BE ABOVE GROUND
- CWW - SEW AIR VALVE SHALL BE BELOW GROUND

NON TRAFFICABLE

TRAFFICABLE MAINS ≤DN250

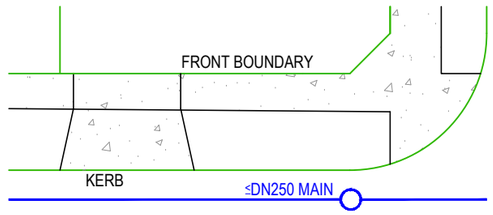

FIGURE 304B-F: SEW TRAFFICABLE MAIN ≤DN250

IN LINE STANDARD BELOW GROUND HYDRANT

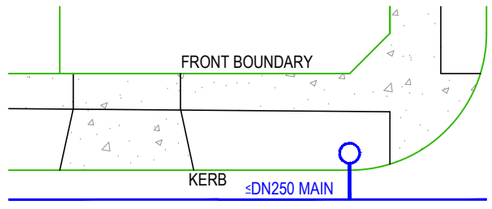

FIGURE 304B-G: CWW-YVW TRAFFICABLE MAIN ≤DN250

OFFSET STANDARD BELOW GROUND HYDRANT

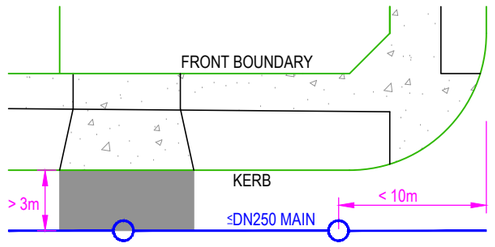

FIGURE 304B-H: CWW-YVW TRAFFICABLE MAIN ≤DN250

- IN LINE STANDARD BELOW GROUND HYDRANT WHERE IT IS IMPRACTICAL TO OFFSET
- LOCATE HYDRANT IN FRONT OF DRIVEWAY OR WITHIN 10m OF INTERSECTION, and
- OFFSET >3m FROM BACK OF KERB WHERE PRACTICAL.

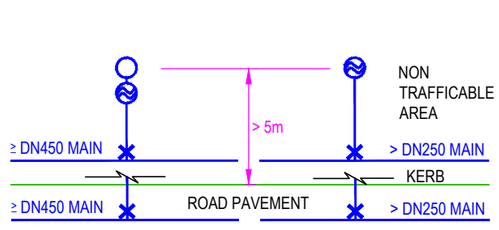

FIGURE 304B-I: CWW-SEW ABOVE GROUND AIR VALVES

- WHERE BELOW GROUND AIR VALVE IMPRACTICABLE.
- LOCATE ABOVE GROUND AIR VALVES IN NON TRAFFICABLE AREAS > 5m FROM ROAD PAVEMENT.
- MAIN MAY BE LOCATED IN A NON TRAFFICABLE OR TRAFFICABLE AREA.

TRAFFICABLE MAINS >DN250

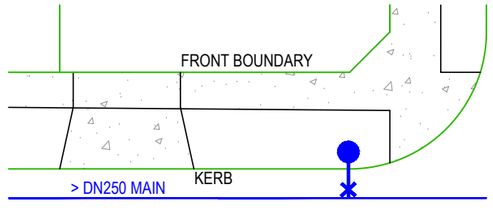

FIGURE 304B-J: CWW-SEW-YVW TRAFFICABLE MAIN >DN250

- VALVE CONTROLLED OFFSET BELOW GROUND HYDRANT OR AIR VALVE
- YVW AIR VALVE TO BE ABOVE GROUND
- ALL OTHER FITTINGS TO BE BELOW GROUND

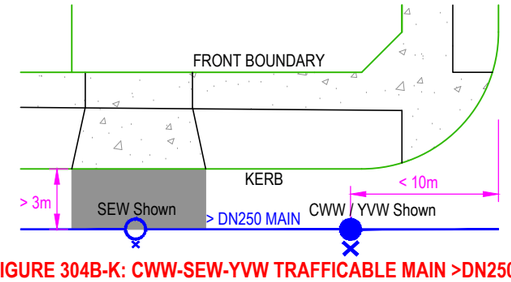

FIGURE 304B-K: CWW-SEW-YVW TRAFFICABLE MAIN >DN250

- in line below ground valved hydrants or air valves where it is impractical to offset
- locate hydrant or air valve in front of driveway or within 10m of intersection, and
- offset main >3m from back of kerb.

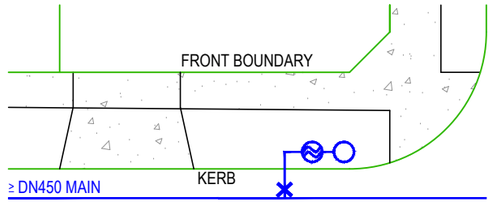

FIGURE 304B-L: CWW-SEW-YVW TRAFFICABLE MAIN ≥DN450

- OFFSET VALVE CONTROLLED AIR VALVE PLUS HYDRANT
- YVW AIR VALVE TO BE ABOVE GROUND
- ALL OTHER FITTINGS TO BE BELOW GROUND

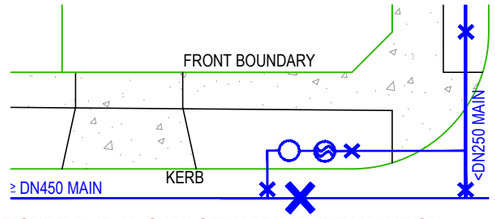

FIGURE 304B-M: CWW-SEW-YVW DIVIDE VALVE ON MAIN ≥DN450

- OFFSET BYPASS WITH HYDRANT AND AIR VALVE.
- AIR VALVE LIKELY REQUIRED WHERE THIS IS AT A DISTINCT HIGH POINT

REV	DESCRIPTION	DATE	APPROVED
2	PUBLISHED FIRST ISSUE	01/12/16	RJ / CP / JT
1	PRE PUBLISHED DRAFT FOR COMMENT	12/03/16	RJ / CP / JT

	NAME	DATE
DESIGNED:	R. JAGGER	DATE: 1/02/2016
DRAWN:	R. JAGGER	DATE: 1/02/2016
CHECKED:		
[X] CWW	B. VANOS	1/10/2016
[X] SEWL	C. PAXMAN	1/10/2016
[X] YVW	J. TOMASI	1/10/2016

APPROVED:	NAME	DATE
[X] CWW	R.CARRUTHERS	1/12/2016
[X] SEWL	D. O'DONOVAN	1/12/2016
[X] YVW	D. ERREY	1/12/2016

MELBOURNE RETAIL WATER AGENCIES

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MRWA WATER SUPPLY STANDARDS

HYDRANT AND AIR VALVE ARRANGEMENT EXAMPLES

NOT TO SCALE

MRWA-W-304B

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