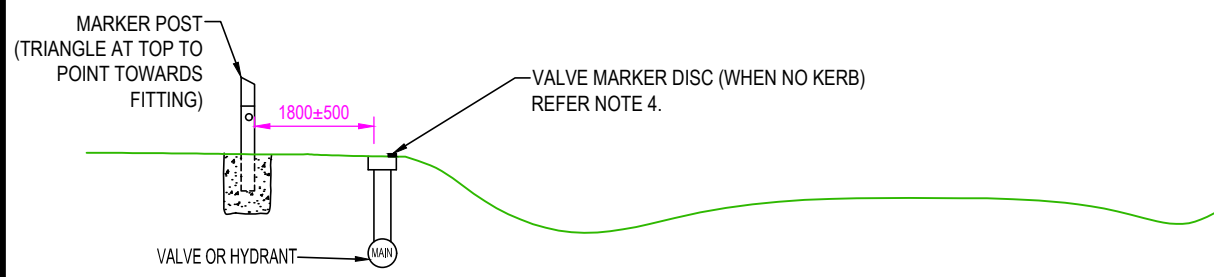


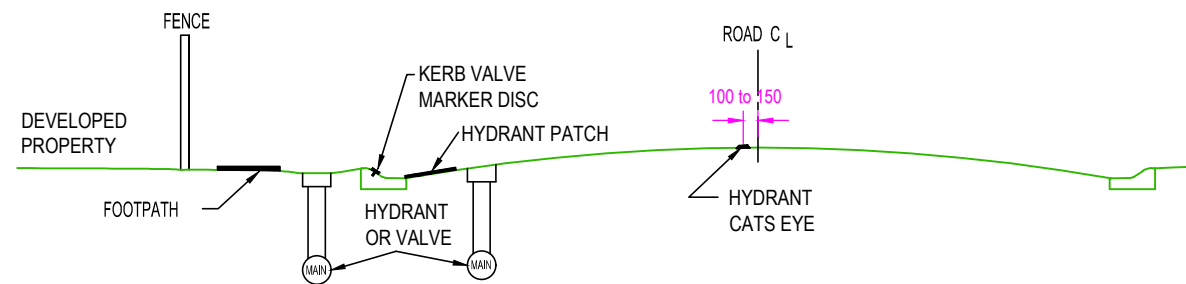
**TABLE 300-A: HYDRANT & VALVE MARKING REQUIREMENTS**

**Valve Cluster Definition:**  
 More than 2 valves in close proximity, ie:  
 • 3 valves within a 6m diameter circle  
 • 4 valves within a 8m diameter circle  
 • 5 valves within a 10m diameter circle, etc or,  
 • As directed by the water agency  
 (this is irrespective of whether valves are DW or NDW)

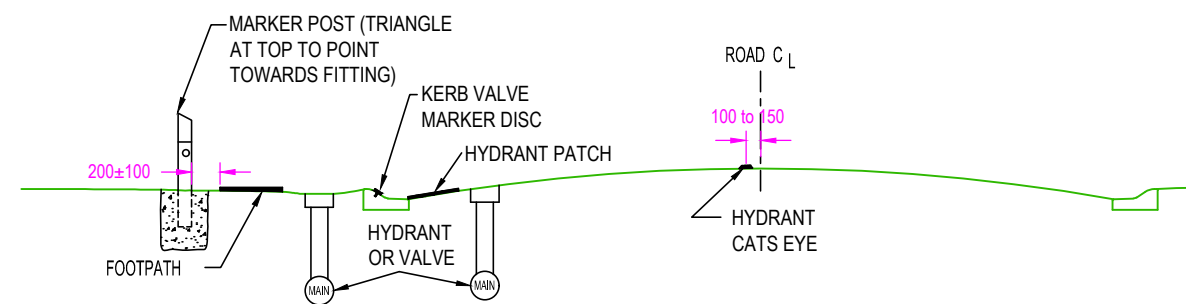
	HYDRANT			NOT CLUSTERED VALVES (PER VALVE)			CLUSTERED VALVES			RELEVANT MRWA -W-300 FIGURE
	POST	ROAD PATCH	ROAD CATS EYE (BLUE)	POST	COVER / SURROUND DISC	KERB DISC	COLOURED PATCH	POST (1 POST FOR EACH DW / NDW CLUSTER) COVER / SURROUND DISC (1 PER VALVE)	COLOURED PATCH (1 PER VALVE)	
OPEN RESERVES OR ROADS WITHOUT KERBS	✓			✓	✓		✓	✓	✓	A
PAVED ROAD (ABUTTED BY URBAN PRIVATE PROPERTY)		✓	✓			✓	✓		✓	B
PAVED ROAD (ABUTTING PUBLIC OPEN SPACE OR RURAL PRIVATE PROPERTY)	✓	✓	✓	✓		✓	✓	✓	✓	C
RELEVANT MRWA -W-301 FIGURE	A	G	E	A	C	C	B	A	C	B



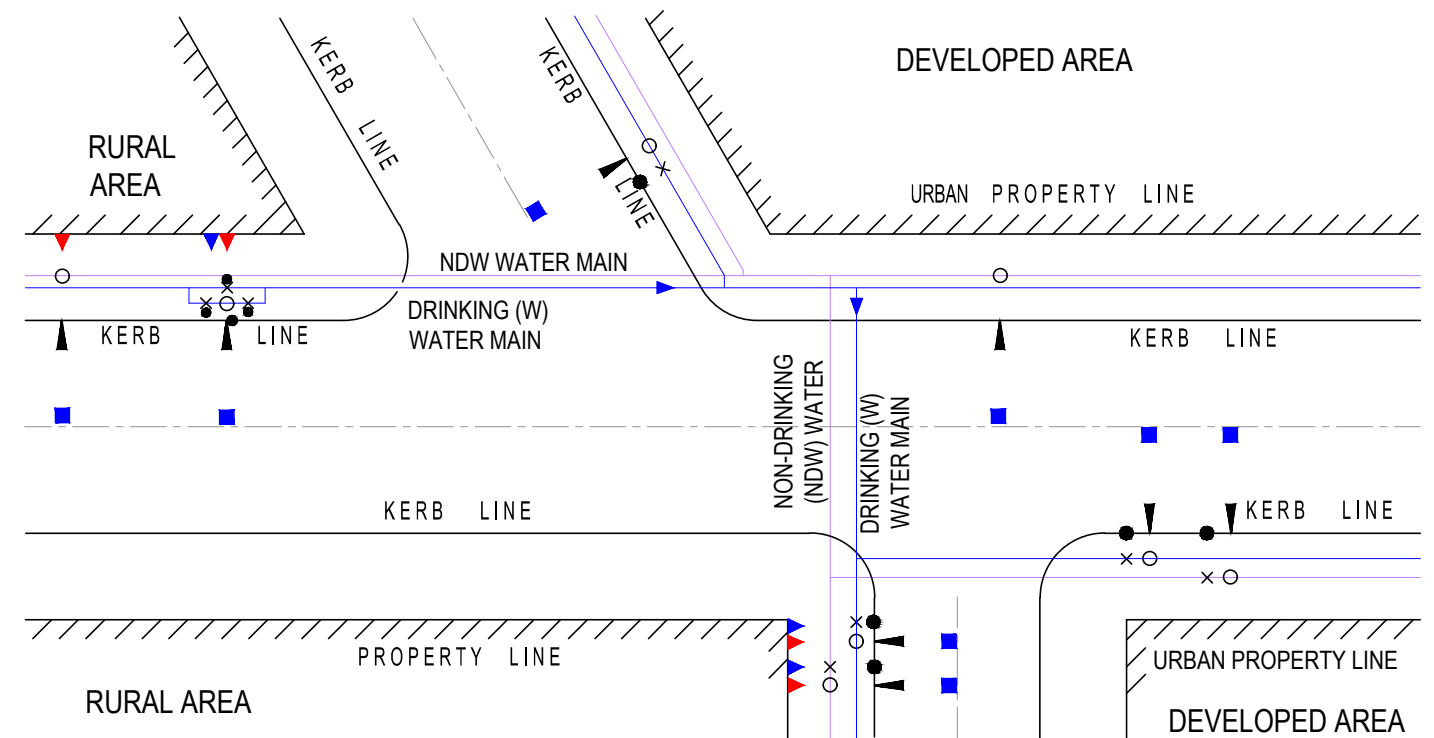
**FIGURE 300-A: OPEN RESERVES OR ROADS WITHOUT KERBS**



**FIGURE 300-B: PAVED ROAD (ABUTTED BY URBAN PRIVATE PROPERTY)**



**FIGURE 300-C: PAVED ROAD (ABUTTED BY PUBLIC OPEN SPACE OR RURAL LAND)**



**LEGEND:**

▼	HYDRANT MARKER POST	! (reflective patch)	HYDRANT MARKING REFLECTIVE PATCH
▼ (blue)	VALVE MARKER POST	●	VALVE MARKING DISC
■ (blue)	HYDRANT MARKING CATS EYE		

**FIGURE 300-D: TYPICAL POSITIONING OF VALVE AND HYDRANT MARKERS**

**GENERAL NOTES:**

1. Valves shall be marked differently according to whether they are deemed to be part of a "valve cluster" as defined in Table 300-A.
2. All hydrants (whether temporary, DW, NDW) require the same marking as indicated in this drawing unless the hydrant is on an irrigation only or less reliable supply.
3. When temporary end of line hydrants are removed, all markings shall be removed concurrently.
4. When a main is renewed or decommissioned, all redundant markings shall be completely removed.
5. 40mm washouts shall be marked as valves.
6. Type, location, fixture arrangements and orientation of markers to be in accordance with MRWA-W-301.
7. Refer to water agency product catalogues for details of marking products.
8. Locate marker posts at right angles to the main with post facing towards the valve or hydrant.
9. Where there is a valve cluster of the same network (DW or NDW) only one marker post is required at the valve cluster.
10. Where there is a valve cluster containing both NDW and DW valves, a single DW and a single NDW post will be required.
11. The construction contractor is to install these markings.

DESIGNED	R. JAGGER	DATE:	04/04/2011
DRAWN:	D. TOLENTINO	DATE:	04/04/2011
CHECKED:	NAME	DATE	APPROVED: NAME
3	CWV	C. RIVETTE	04/04/12
2	SEWL	C.PAXMAN	04/04/12
1	YVW	K.DAWSON	04/04/12
REV	DESCRIPTION	DATE	APPROVED

MELBOURNE RETAIL WATER AGENCIES



MRWA WATER SUPPLY STANDARDS

NOT TO SCALE

VALVE AND HYDRANT MARKING ARRANGEMENTS

MRWA-W-300

ISSUED 2012 REVISION NO. 3