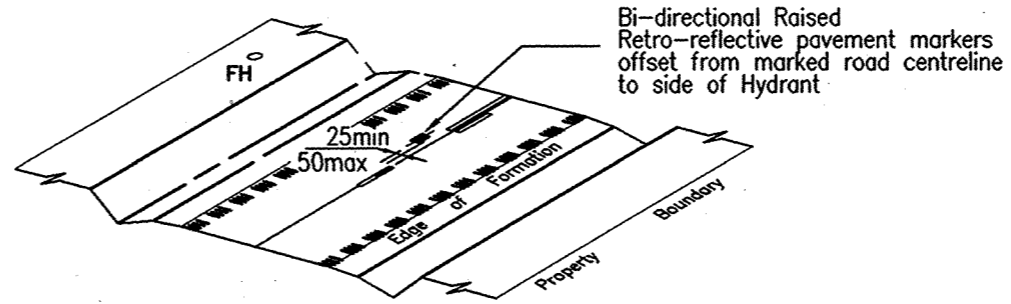
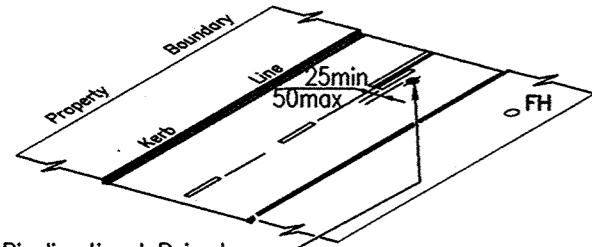


SEALED ROADS WITHOUT PAVEMENT MARKINGS



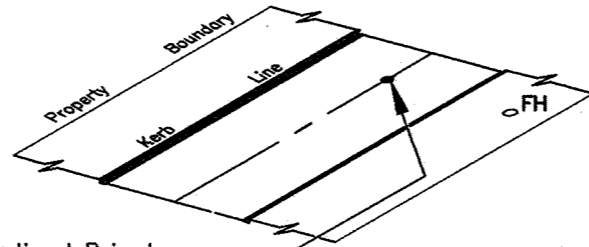
SEALED ROADS WITH PAVEMENT MARKING

URBAN & RURAL STREETS OR ROADS (WITHOUT KERB & CHANNEL)



Bi-directional Raised Retro-reflective pavement markers offset from marked road centreline to side of Hydrant

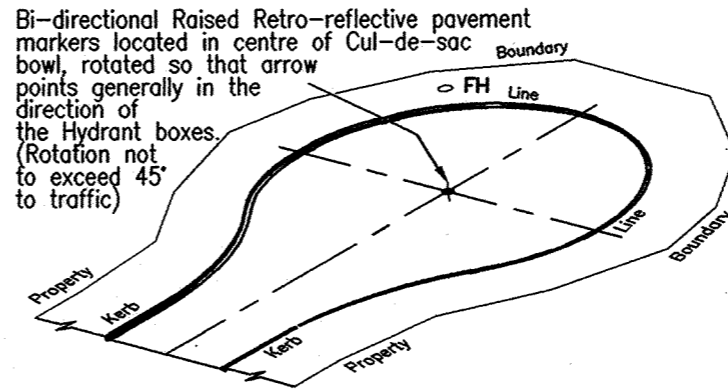
WITH PAVEMENT MARKINGS



Bi-directional Raised Retro-reflective pavement markers located on road centreline opposite Hydrant boxes

WITHOUT PAVEMENT MARKINGS

URBAN AND RURAL RESIDENTIAL STREETS OR ROADS (WITH K & C)

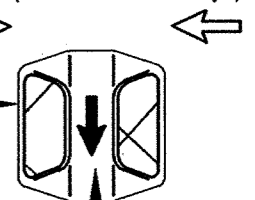


Bi-directional Raised Retro-reflective pavement markers located in centre of Cul-de-sac bowl, rotated so that arrow points generally in the direction of the Hydrant boxes. (Rotation not to exceed 45° to traffic)

CUL-DE-SAC HEAD

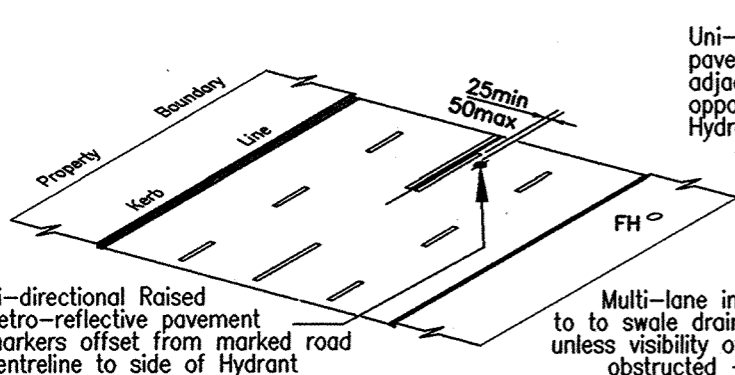
Direction of Traffic (either or both ways)

Bi-directional or Uni-Directional Raised Retro-reflective pavement markers Blue - Identifies Hydrants



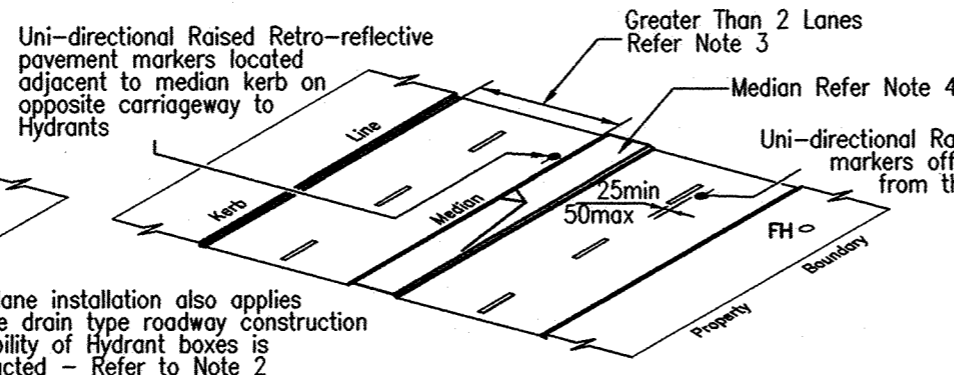
Raised Retro-reflectorised Hydrant and valve markers are to have a direction arrow on top. Arrows are to be of a contrasting colour and protected against removal. Markers are to be installed with the directional arrow indicating the side of the road on which the Hydrant box is located. Retro-reflective prisms shall face toward oncoming traffic.

RRPM's



Bi-directional Raised Retro-reflective pavement markers offset from marked road centreline to side of Hydrant

UN-DIVIDED CARRIAGEWAY

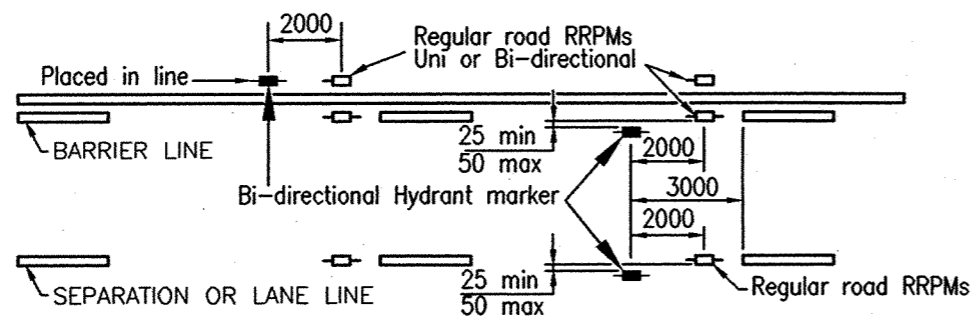


Uni-directional Raised Retro-reflective pavement markers located adjacent to median kerb on opposite carriageway to Hydrants

Multi-lane installation also applies to to swale drain type roadway construction unless visibility of Hydrant boxes is obstructed - Refer to Note 2

MEDIAN DIVIDED DUAL CARRIAGEWAY

MULTI-LANE ROADS



POSITIONS RELATIVE TO LINEMARKING AND ROADWAY RRPM'S

NOTES

- RRPM's are to be used on roadways where water mains are constructed adjacent the roadway.
- Pavement Markers not required on unsealed roads.
- For roads with more than 2 lanes of travel in one direction, a Hydrant marker post shall be erected in the median. Pavement Markers are not to be installed.
- Where New Jersey barriers are used on roads with more than 2 lanes of travel in one direction, a single sided Hydrant Delineator is to be mounted on top of the barrier. Pavement markers are not used in this case.
- Where access to a Hydrant is not available from an opposite carriageway to the fitting, a pavement marker or other marker is not to be placed for that carriageway.
- Retro-reflective raised pavement markers shall comply with the requirements and Specifications of the Queensland Department of Main Roads, and AS 1906.3.
- Raised pavement markers for Hydrants and Valves are to be installed in accordance with the Queensland Department of Main Roads Fire Hydrant Indication System Technical Guideline, Sections 1 to 4, and Section 6, Figures 1 through 7.
- Raised Reflectorised Pavement Markers are to be fixed to the road surface by a Stimsonite soft, hot melt bitumastic pad, or approved 2-pack epoxy adhesive suitable for the purpose.
- Hydrant Marker Posts and Location Indicators to be installed with reference to I.C.C. Standard Drawings SW.10 & SW.11
- Dimensions are in Millimetres

REVISIONS					
AMENDMENT	INITIALS	DATE	AMENDMENT	INITIALS	DATE
F				L	
E				K	
D				J	
C				I	
B				H	
A				G	



IPSWICH WATER
A COMMERCIAL BUSINESS UNIT OF IPSWICH CITY COUNCIL
NEVILLE BONNER BUILDING Phone (07) 3810 7967
WARWICK ROAD, YAMANTO (07) 3810 7956
P.O. BOX 191 Fax (07) 3810 7964

APPROVED
[Signature]
MANAGER IPSWICH WATER
DATE 20.1.03

STANDARD DRAWING

**GUIDE FOR INSTALLING
HYDRANT PAVEMENT MARKERS**

WATER

SW.19

REV: A DRAWER: 100