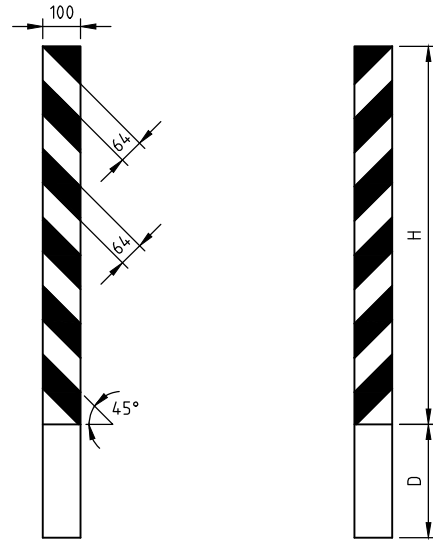


A CULVERT POST IS TO BE THE SAME LENGTH AND WIDTH AS A STANDARD GUIDE POST, HAVE NO DELINEATORS AND CONSIST OF BLACK AND WHITE STRIPES PLACED ON BOTH SIDES OF THE POST DIAGONALLY AT AN ANGLE OF 45°.



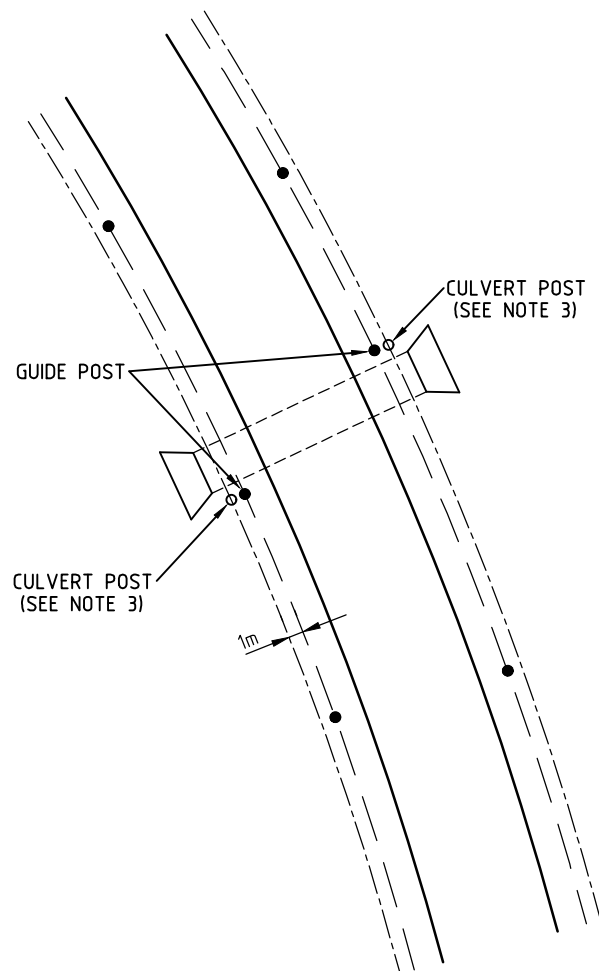
NB: POST TO BE SELECTED FROM MRWA APPROVED GUIDE POST LIST IN SPECIFICATION 602.

SHAPE OF BOTTOM FACE MAY BE FLAT ANGLED OR MADE TO SUIT THE METHOD OF INSTALLATION.

CULVERT POST DETAIL ON LHS (FRONT FACE)

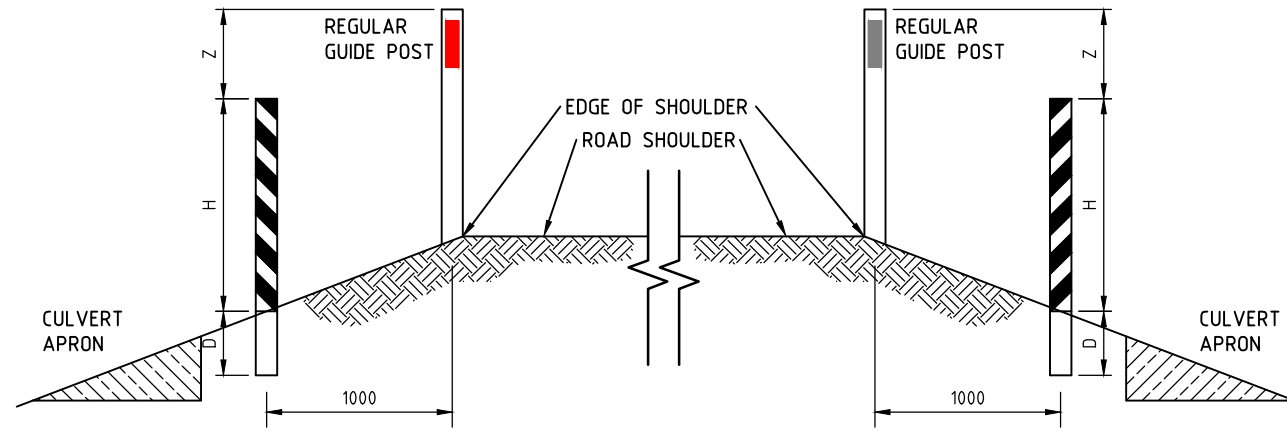
CULVERT POST DETAIL ON RHS (REAR FACE)

	DEPTH (D) mm		HEIGHT (H) mm
	BURIED	DRIVEN	
RIGID POST	300 (±20)	300 (±20)	1000 (+30, -0)
FLEXIBLE POST	450 (±20)	350 (±20)	1000 (+30, -0)

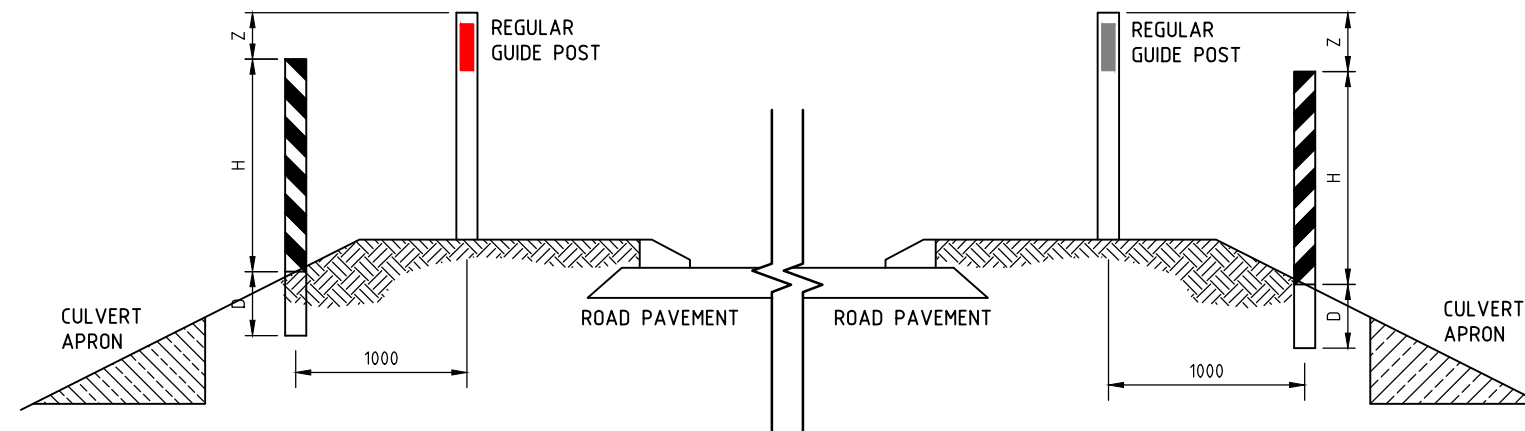


4 POSITIONING OF CULVERT POSTS

4 STEP 4 - WHERE $Z \geq 200$ mm, THE GUIDE POST SHOULD BE REPLACED BY THE CULVERT POST FITTED WITH A DELINEATOR, IN ACCORDANCE WITH MAIN ROADS DESIGN OF GUIDE POSTS, CLAUSE 5.5.2.



4 INSTALLATION UNKERBED ROAD LAYOUT



4 INSTALLATION KERBED ROAD LAYOUT

NOTES:

- DIMENSIONS: MEASUREMENTS IN mm.
MAIN SIGN PANEL AREA: MR-HM-18 = 0.20 SQM.
- COLOURS: BLACK ON WHITE RETROREFLECTIVE BACKGROUND.
- RETROREFLECTIVE CLASS OF MATERIAL: CLASS 1A.
- MATERIALS: MANUFACTURE TO BE IN ACCORDANCE WITH MAIN ROADS DESIGN OF GUIDE POSTS AND MAIN ROADS SPECIFICATION 602 GUIDE POSTS.
- FRONT FACE TO ALWAYS BE ON LEFT HAND SIDE.

BELOW IS AN OUTLINE OF DETERMINING THE LOCATION OF CULVERT POSTS ALONGSIDE GUIDE POSTS.

STEP 1 - REGULAR GUIDE POSTS ARE POSITIONED AT KEY POINTS ie: END OF CURVES REGARDLESS OF CULVERT LOCATIONS. SPACING BETWEEN THESE POINTS IS DIVIDED TO PROVIDE A UNIFORM SPACING OF GUIDE POSTS AS SPECIFIED IN AS 1742.2-2009.

STEP 2 - ADDITIONAL REGULAR GUIDE POSTS ARE ADDED AT CULVERT SITES AS PER CURRENT MRWA DESIGN OF GUIDE POSTS GUIDELINE.

STEP 3 - CULVERT POSTS SHALL THEN BE PLACED 1.0m OUTSIDE OF THE GUIDE POSTS AT THE CULVERT SITES.

AMENDMENTS

No.	DESCRIPTION	APPROVED & DATE
1	NOTE 3 AND NOTE ON POST SELECTION AMENDED.	R.KOORENGEVEL 18.2.15
2	NOTE 1 IN TITLE BLOCK AMENDED. NOTE 5 IN DRAWING ADDED.	R.KOORENGEVEL 16.6.17
3	COLOR ADDED TO GUIDE POSTS.	R.KOORENGEVEL 08.6.18
4	NOTE 3 AMENDED. REFERENCE TO NOTE 3, Z DIMENSIONS AND STEP 4 ADDED.	01.04.20

NOTES

- CULVERT POSTS SHALL BE USED TO HIGHLIGHT THE LOCATION OF CULVERT HEADWALLS UNLESS SPECIFIED OTHERWISE.
- FOR TECHNICAL SPECIFICATIONS ON TYPES AND INSTALLATION REQUIREMENTS OF GUIDE POSTS AND DELINEATORS REFER TO MAIN ROADS TECHNICAL SPECIFICATION 602 - GUIDE POSTS.
- CULVERT POSTS SHALL BE INSTALLED 1.0 m OUTSIDE THE LINE OF GUIDE POSTS. ALTERNATIVELY, WHERE $Z \geq 200$ mm, THE GUIDE POST SHOULD BE REPLACED BY A DELINEATOR, IN ACCORDANCE WITH MAIN ROADS DESIGN OF GUIDE POSTS, CLAUSE 5.5.2. PLEASE NOTE AS PER AS 1742.2, GUIDE POSTS ARE STILL REQUIRED TO BE PLACED AT CULVERT SITES WHICH WARRANT THEM.
- FOR THE EASE OF LOCATING CULVERTS, CULVERT NUMBERS MAY BE INCORPORATED ONTO THE BACK OF THE CULVERT POSTS.
- AS PER CURRENT MAIN ROADS PRACTICE A BRIDGE WIDTH MARKER SHALL BE INSTALLED IF A CULVERT HEADWALL IS WITHIN THE SHOULDER.

METADATA

GROUND SURVEY STANDARD:
DATE OF CAPTURE:
MAPPING SURVEY STANDARD:
DATE OF CAPTURE:
MAIN ROADS PROJECT ZONE:
HEIGHT DATUM:

Government of Western Australia
PLANNING AND TECHNICAL SERVICES DIRECTORATE
ROAD AND TRAFFIC ENGINEERING BRANCH
Waterloo Crescent East Perth 6004
Telephone (08) 9323 4111 Fax (08) 9323 4430

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FILE NUMBER	67-08-4F
DESIGNED / DRAWN	R.KOORENGEVEL / J.VOKE 18.7.13
VERIFIED	D.LANDMARK 30.7.13
APPROVED	R.GROVE 29.7.13

HAZARD MARKERS
CULVERT WIDTH MARKERS/CULVERT POSTS

MR-HM-18

LOCAL AUTHORITY
MRWA DRAWING NUMBER AMENDMENT

201331-0007-4

NOT TO SCALE

A3