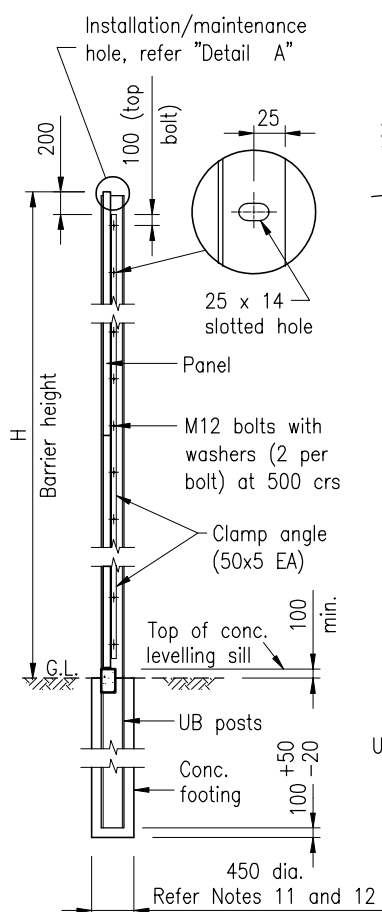
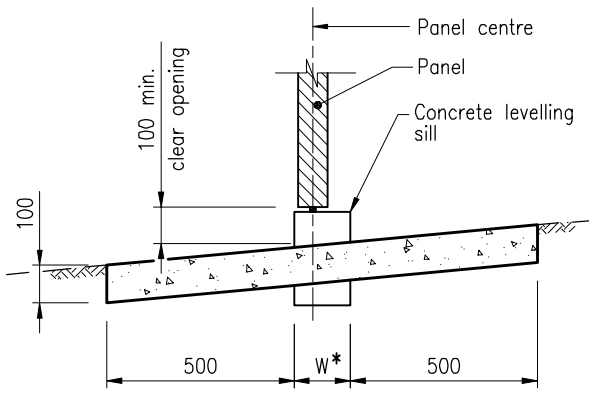


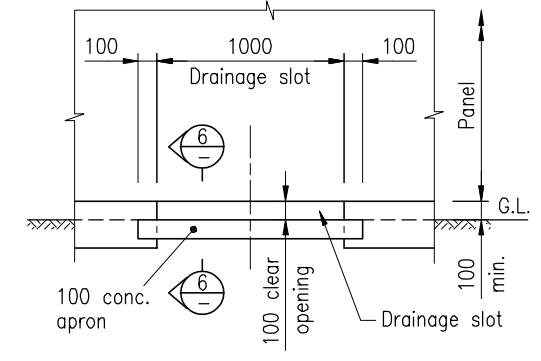
ELEVATION
BARRIER ASSEMBLY DETAIL



SECTION 1



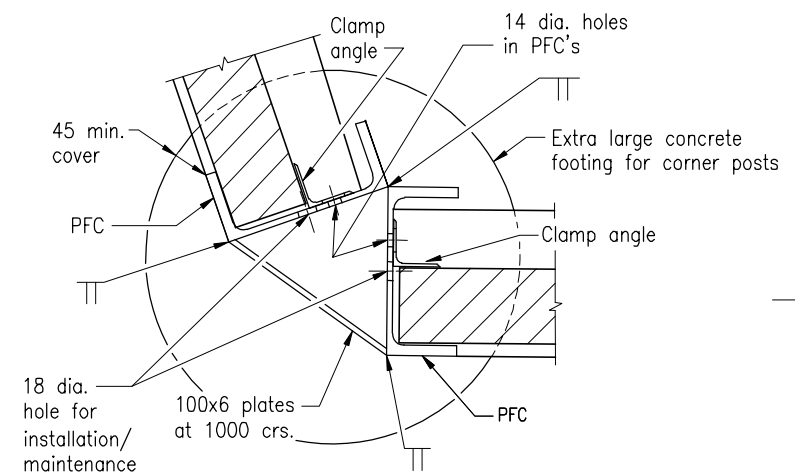
SECTION 6



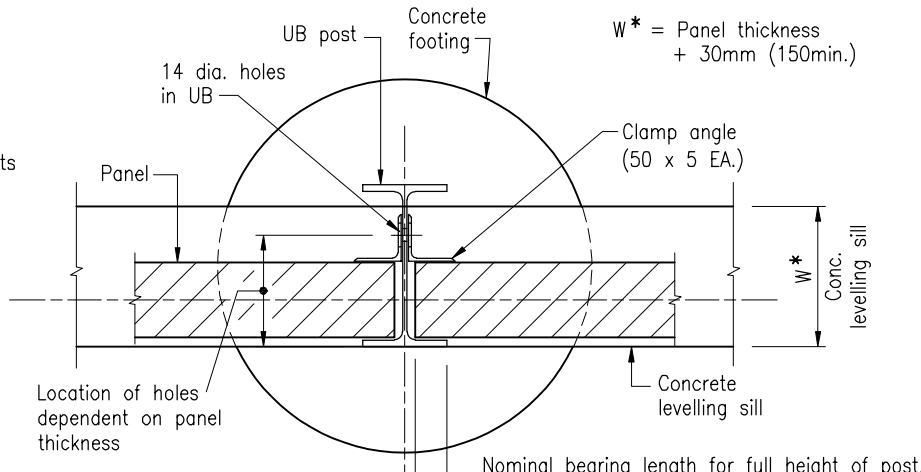
DETAIL B

NOTES:

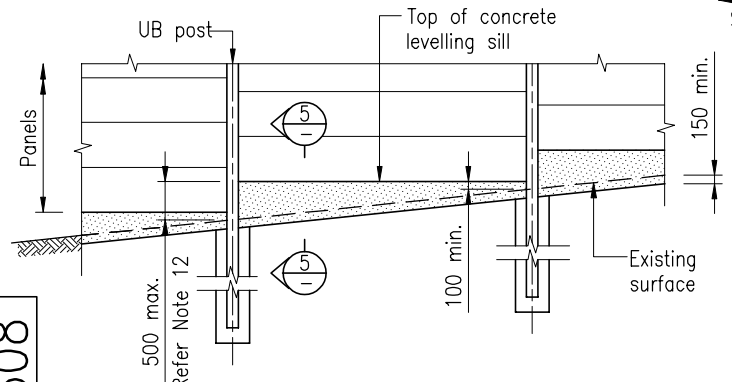
1. ALL DIMENSIONS to be verified on site by Contractor before fabrication of posts.
 2. STEEL POSTS:
 - 2.1 Posts to be UB's except at corners. Posts to be composite PFC's at corners.
 - 2.2 The barrier label and post number shall be welded (or by other method approved by the Superintendent) on each post and to be clearly visible after galvanizing eg [B2] ie Barrier B, Post No. 2.
 - 2.3 14mm diameter holes, for M12 bolts at 500mm centres, to be drilled.
 - 2.4 Corner posts to be fabricated as detailed.
 - 2.5 After fabrication, all posts to have weld splatter and welding slag removed prior to hot dip galvanizing to AS/NZS 4680.
 3. CLAMP ANGLES:
 - 3.1 Clamp angles to be fabricated from 50x5 EA.
 - 3.2 25x14mm slotted holes at 500mm centres to align with 14mm diameter holes in posts.
 - 3.3 Fabricated clamp angles shall be hot dip galvanized to AS/NZS 4680.
 4. HOT ROLLED SECTIONS shall be grade 300 or as specified to AS/NZS 3679.1.
 5. STEEL PLATES to be grade 250 to AS/NZS 3678.
 6. WELDING to be to AS/NZS 1554.1. Welding symbols are to AS 1101.3.
 7. REINFORCING MESH to AS/NZS 4671.
 8. CONCRETE PANELS/STEEL PANELS shall comply with the requirements of standard specification MRS11.15.
 9. ACOUSTIC SEAL/MECHANICAL INTERLOCK SYSTEM shall be as specified in standard specification MRS 11.15.
 10. BOLTS to be grade 4.6 to AS/NZS 1111, nuts to be grade 5 to AS/NZS 1112 and washers to AS 1237. Bolts and nuts to be hot dip galvanized to AS 1214. Washers to be hot dip galvanized to AS/NZS 4680.
 11. CONCRETE in footings, levelling sills and aprons to be grade N25/20. 45mm Minimum concrete cover to steel posts and reinforcing mesh.
 12. DETAILS to be shown elsewhere in the documents:
 - Location of end and internal spans
 - Span lengths: End span and internal span
 - Barrier height H
 - Footing depths D
 - Footing diameter if not standard 450mm
 - Location of drainage slots
 - Design details for concrete levelling sills higher than 500mm
 - UB and PFC sizes
 - Barrier labels and post numbers
 - Panel type and thickness
 - Design permissible wind speed (Vzp)
 13. DIMENSIONS are in millimetres unless shown otherwise.
- ASSOCIATED DOCUMENTS:
 Department of Main Roads Manual of Standard Drawings Roads
 Department of Main Roads Manual of Standard Specifications Roads
- REFERENCED DOCUMENTS:
 Standard Specifications:
 MRS11.15 Noise Barriers



CORNER POST DETAIL

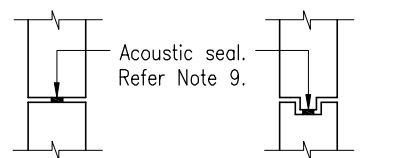


SECTION 2



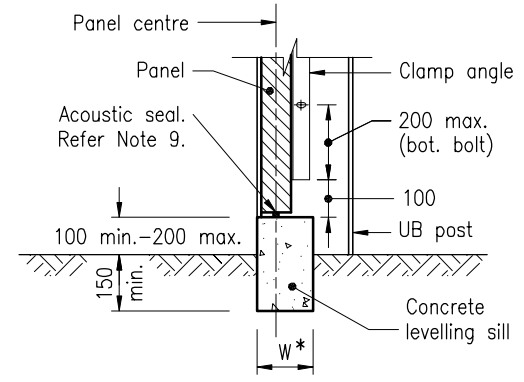
BARRIER TREATMENT ON SLOPES

Span = length of panel + 25mm, measured on horizontal at any height.
 Tolerance: +10
 -5

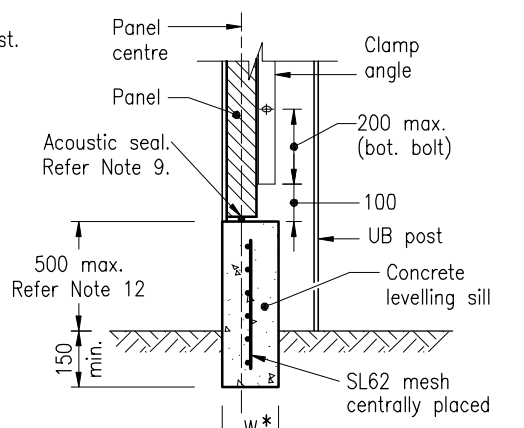


SECTION 3

Steel reflective panels require an approved mechanical interlock system. Refer Note 9.



SECTION 4



SECTION 5

1608

NOISE BARRIERS			
STRUCTURAL DETAIL UNIVERSAL BEAM POSTS CONCRETE PANELS STEEL PANELS		Size A3	Drawing No
		Scales	1608
		as shown	Date 4/04
			A