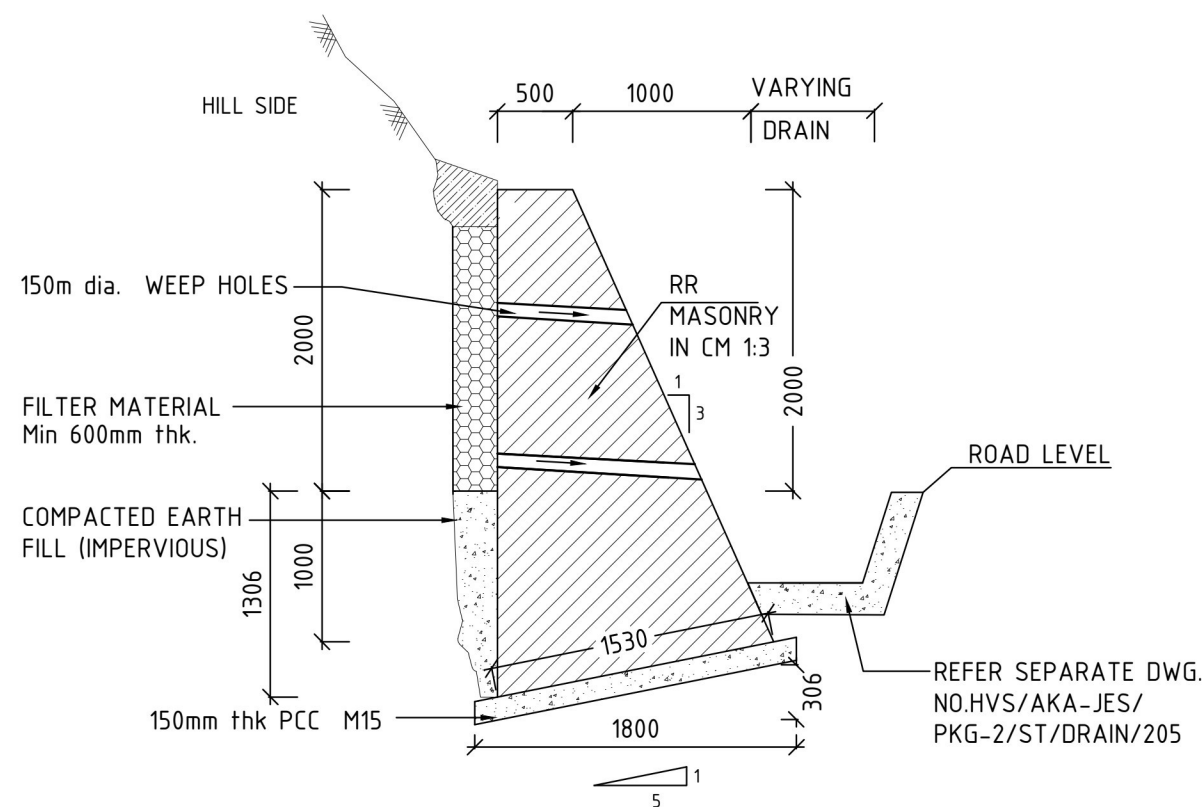
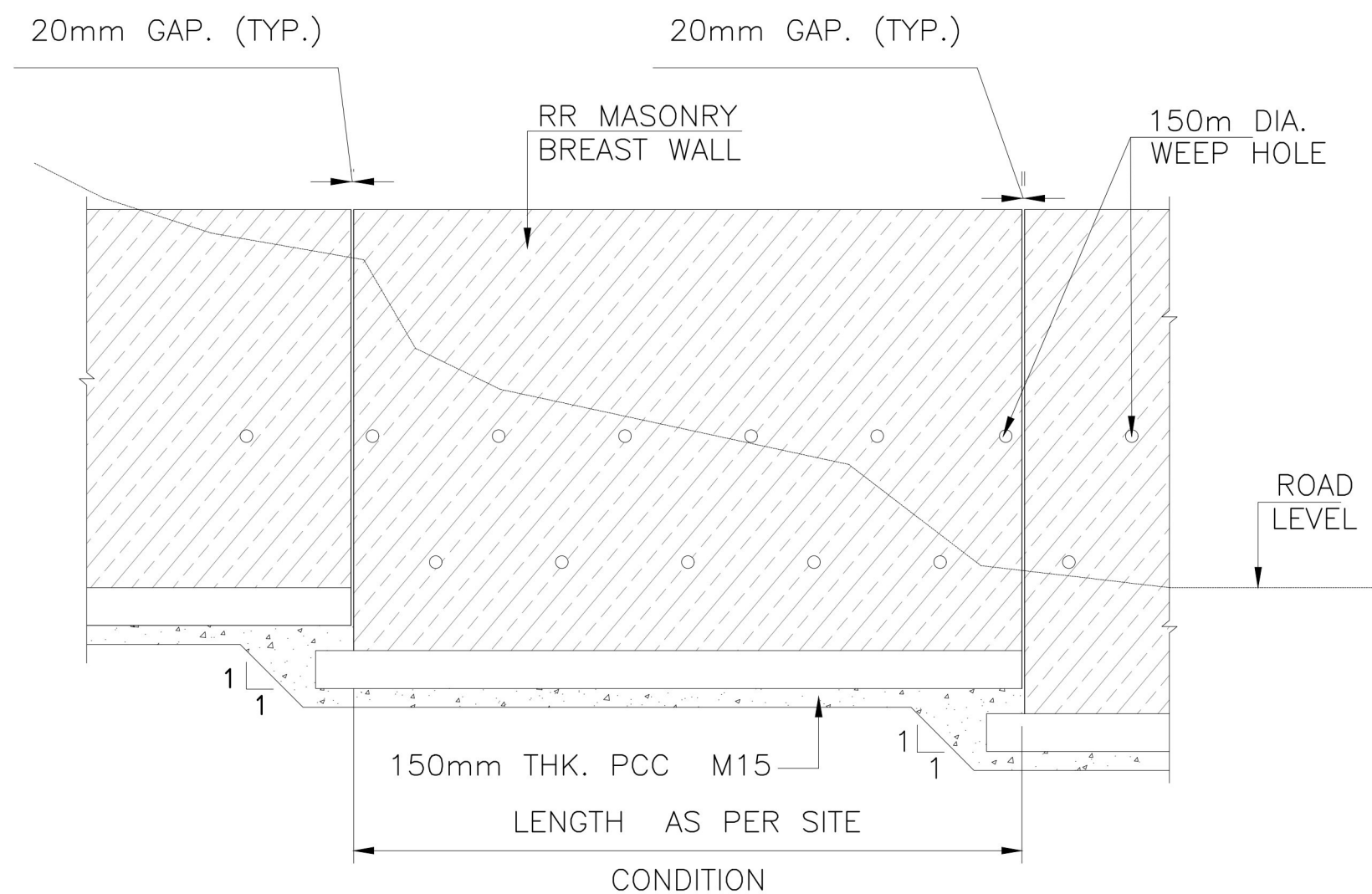


Breast Wall (1.5M Height)

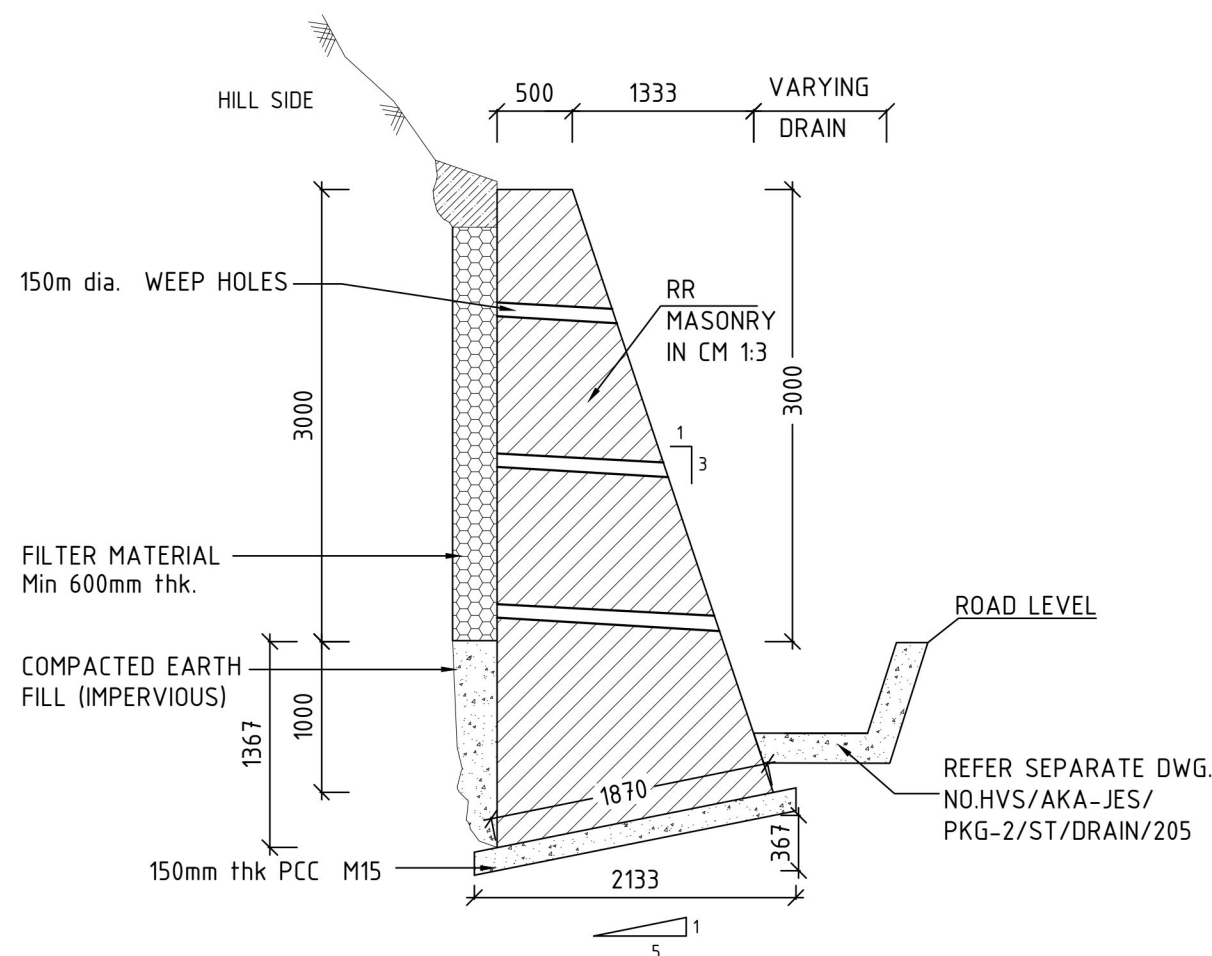


Breast Wall (2M Height)



**TYPICAL ARRANGEMENT OF BREAST WALL
FOR RR MASONRY WITH CEMENT MORTAR
(1:3)**

(SCALE-1:80)



Breast Wall (3M Height)

NOTE: FOR INTERMEDIATE HEIGHT KINDLY
REFER THE HIGHER VALUE.

**Methodology For construction of RR
Masonry Breast wall in Hill Roads**

1. SINCE THESE WALLS ARE USUALLY PROVIDED AGAINST WET HILL SLOPES, THEY HAVE TO BE STRONGER THAN RETAINING WALLS AND ARE USUALLY COMPARATIVELY LESS STABLE. THEY ARE USUALLY PROVIDED IN STONE MASONRY IN CEMENT MORTAR THOUGH Banded AND DRY MASONRY CONSTRUCTION MAY BE DONE WHERE HILL SLOPE IS NOT WET. WEEP HOLES HAVE TO BE PROVIDED LIBERALLY IN BREAST WALLS.
2. FRONT BATTER IS USUALLY KEPT 1:3 AS SHOWN IN DRAWING.
3. CONSTRUCTION SEQUENCES STAGE WISE AS SHOWN IN DRAWING.

NOTES-

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METRES, UNLESS SPECIFIED OTHERWISE.
2. THIS DESIGN IS APPLICABLE WHERE GOOD FOUNDATION CONDITIONS (COMPACTED EARTH / ROCK ETC IS AVAILABLE) AND WITH WELL-DRAINED BACKFILL WITH GRANULAR MATERIAL. WHERE WELL-DRAINED BACKFILL IS NOT POSSIBLE, FILTER MEDIA OR GEOCOMPOSITE MEMBRANE SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS. FILTER MEDIA OR GEOCOMPOSITE MEMBRANE IS NOT REQUIRED IF ROCK IS ENCOUNTERED.
3. CONSULT DESIGNER - FOR LOCATIONS WHERE BREAST WALLS OF RETAINED HEIGHTS OF MORE THAN 5M ARE REQUIRED.
4. CONSULT DESIGNER - FOR BREAST WALLS WHERE EARTH FACE SLOPES OR SURCHARGE SLOPE ANGLES, FALLS OUTSIDE THE LIMITS SHOWN IN THE DRG.
5. WHERE EVER REQUIRED OTHER MEASURES LIKE CHECK DRAINS, TURFING, BENCHING OF CUT SLOPES IN SOFT ROCKS, SEALING OF CRACKS, ETC.ARE TO BE ADOPTED AS PER OTHER DRAWINGS AND DETAILS.
6. BREAST WALL CAN BE CONSTRUCTED IN STAGES IN HEIGHT RANGING FROM 500mm TO 1000mm FOR EACH STAGE DEPENDING UPON THE SITE CONDITIONS ENSURE PROPER BACK FILLING FOR PRECEDING STAGE BEFORE TAKING UP CONSTRUCTION OF NEXT STAGE.
7. 150 DIA WEEP HOLES WITH SLOPE 1 IN 20 SHALL BE PROVIDED AT SPACING OF 1000 C/C BOTH HORIZONTALLY AND VERTICALLY (STAGGERED) IN FULL HEIGHT OF THE RETAINING WALL WITH BOTTOM MOST ROW 150mm ABOVE G.L. AS PER MORTH 2706 5th REVISION
8. BACK FILLING AND FILTER MEDIA BEHIND THE BREAST WALL SHALL BE PROVIDED WITH SELECTED EARTH CONFORMING TO IRC:78-2014 HAVING PROPERTIES $\phi = 30^\circ$, $C=0$
9. SET STONE ALONG FOUNDATION BED USE LONG BOND STONE HAND PACKED STONE IN BACK FILL.
10. DESIGN AS PER INDIAN CODE REFERENCE -IS 14458 (PART-1): 1998, TABLE NO-2 (CLAUSE 3.1).
11. FILTER MEDIA OR GEOCOMPOSITE MEMBRANE SHALL BE PROVIDED BEHIND BREAST WALL AS PER MORTH SPECIFICATIONS.

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DESIGN BASE PRESSURE :

H MAX. (m)	1.5	2.0	3.0
Base Pressure (T/m ²)	10.0	12.0	18.0

*BASE PRESSURE AT FOUNDING LEVEL SHALL NOT BE LESS THAN AS SHOWN ABOVE.

