

Retaining Wall Notes

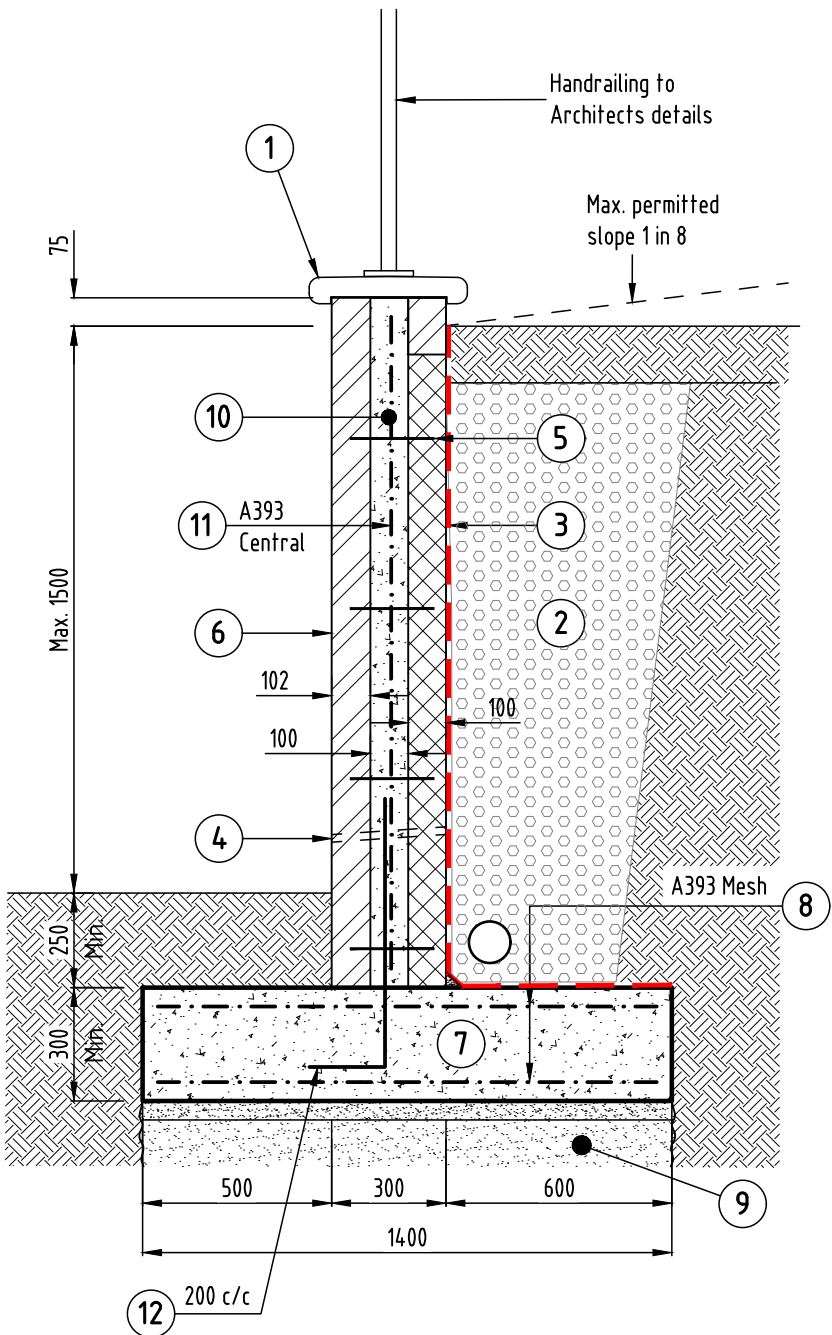
- 1. Foundations for retaining walls in some areas of fill (embankments) to be constructed in max. 6.0m lengths and have 1 layer of A393 or B785 mesh reinforcement in top and bottom of foundation. Concrete to be grade C28/35 (RC35).
- 2. Batter slopes to back of retaining walls to vary from horizontal to a max. of 1 in 8.0 unless otherwise stated.
- 3. Materials to back of retaining walls to be carefully placed and lightly compacted. No site traffic to traverse behind completed retaining wall.
- 4. Top surface of foundation to be cleaned to remove all traces of cement laitence and extraneous material prior to constructing wall. Ensure clean surface and good bond between masonry and concrete foundation.
- 5. Backfill materials behind completed walls are to be placed not sooner than 3 days after building of the wall.

Cavity Retaining Walls Legend

- 1 Coping to architects details.
- 2 Single sized clean stone (Nominal 40mm).
- 3 RIW painted cold applied bitumen based waterproofing system to manufacturer's detail or equal approved for waterproofing to retaining walls.
- 4 75mm UPVC weep holes at 2.0m centres.
- 5 Stainless steel wall ties at Max. 900 centres Horiz. & 450mm centres vertical.
- 6 Facing brickwork, Min. Brick strength 20 N/mm.
- 7 Grade C28/35 (RC35) Concrete foundation.
- 8 A393/B785 Mesh in top & bottom of foundation 40mm cover, 400mm laps.
- 9 50mm Blinding concrete (NHBC 3.1.11) or Mass concrete grade GEN1 concrete fill 200mm into bearing strata. Also where localised soft spots have been removed, replace with blinding concrete.
- 10 Cavity filled with grade C28/35 (RC35) concrete. To be fully compacted.
- 11 Mesh reinforcement: B785 or B1131 Mesh as noted. 500mm Lap with starter bar.
- 12 Starter bars - H12's @ 100/200 Centres.

MOVEMENT JOINTS TO BE PROVIDED AT 6.0m MAX CENTRES IN MASONRY RETAINING WALLS.
MORTAR TO BE CEMENT/SAND MORTAR (1:3).

Note:
Retaining walls to be have
RIW painted cold applied bitumen based
waterproofing system to manufacturer's
detail or equal approved as waterproofing
Indicated by - - - - -

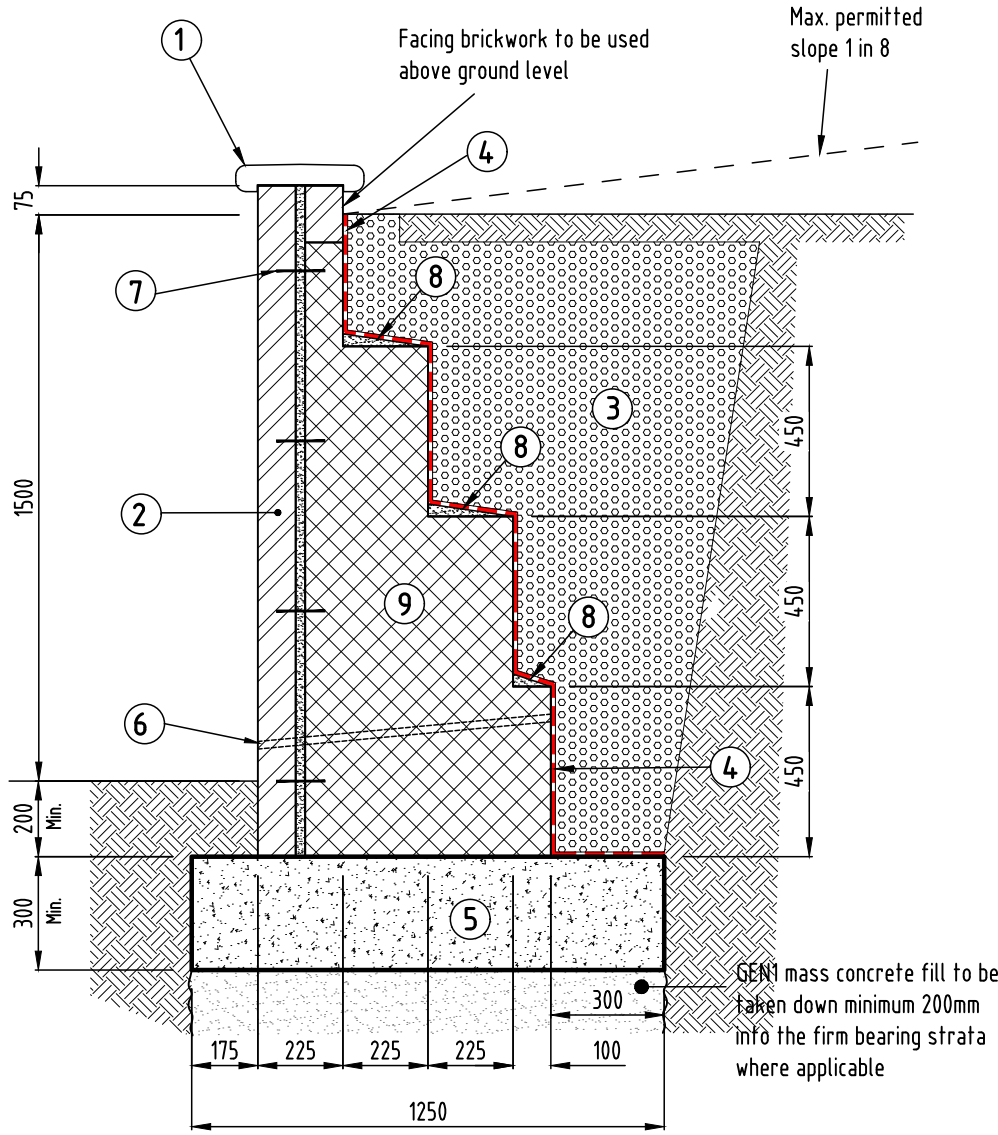


Retaining Wall: Cavity Fill
Max. Retained Height 1.50m
SCALE 1:20

Notes :-

General:

- 1. Do not scale from this drawing, use figured dimensions only.
- 2. All dimensions are in millimetres. all levels are in metres.
- 3. This drawing to be read in conjunction with the latest Architects, Engineers & specialists drawings & specifications.
- 4. For all Civil Engineering drainage & infrastructure refer to 100 drawing series.
- 6. Reinforcement of Foundations: It is unlikely that reinforcement will be required as the foundation formation is anticipated to be uniform. However, should variation of bedrock and cohesive strata be identified on the site in the foundation formation, it is recommended that foundations are suitably reinforced due to the potential for differential settlement across the foundation. (1 layer B785 mesh top & Bottom, Concrete grade C28/35).
- 7. All soft spots to be removed & replaced with lean mix concrete as directed by the engineer.
- 8. All compaction to be carried out in accordance with the D.O.T specification.



Retaining Wall (Alt. Construction):-
Max. retained height 1.50m.
Scale 1:20

Cavity Fill Wall Notes:

- 1. Walls should be built up to a maximum of 2.1m retained high.
- 2. Prior to infilling with concrete, debris should be removed from the cavity and the clean-out holes blocked off.
- 3. The concrete infill should be introduced no later than 3 days after the masonry is completed. The infill should be placed and compacted, usually in two lifts, with a one day curing time between successive lifts. Recompaction of the concrete in each lift may be necessary after initial settlement, due to water absorption by the masonry, but before setting.
- 4. Wall ties should be spaced at no greater than 900 mm centres horizontally and 225mm vertical centres, with each layer staggered by 450mm.

Retaining Walls (Alt. Construction) Legend

- 1 Coping to Architect's details
- 2 Facing brickwork with solid collar joint: Min. brick strength 20N/mm.
- 3 Single sized clean stone (nominal 40mm).
- 4 RIW painted cold applied bitumen based waterproofing system to manufacturer's detail or equal approved for waterproofing to retaining walls.
- 5 Grade GEN2 concrete foundation.
- 6 75mm UPVC weep holes at 2.0m centres.
- 7 Stainless steel wall ties at 450mm horizontal centres and 225mm vertical centres.
- 8 Mortar fillet.
- 9 Dense concrete blockwork 7N/mm strength, min. density 18kN/m , bonded into brickwork.

Movement joints to be provided at 6.0m max. centres in masonry retaining walls. mortar to be cement/sand mortar (1:3).

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CLIENT:				
				
				
CONSULTING ENGINEERS PHG CONSULTING LTD 107 COWBRIDGE ROAD EAST, CARDIFF CF11 9AG T : +44(0)29 2030 2521 E : enquiries@phg-consulting.com W: www.phg-consulting.co.uk @PHG_consulting www.linkedin.com/company/phg-consulting-engineers				
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