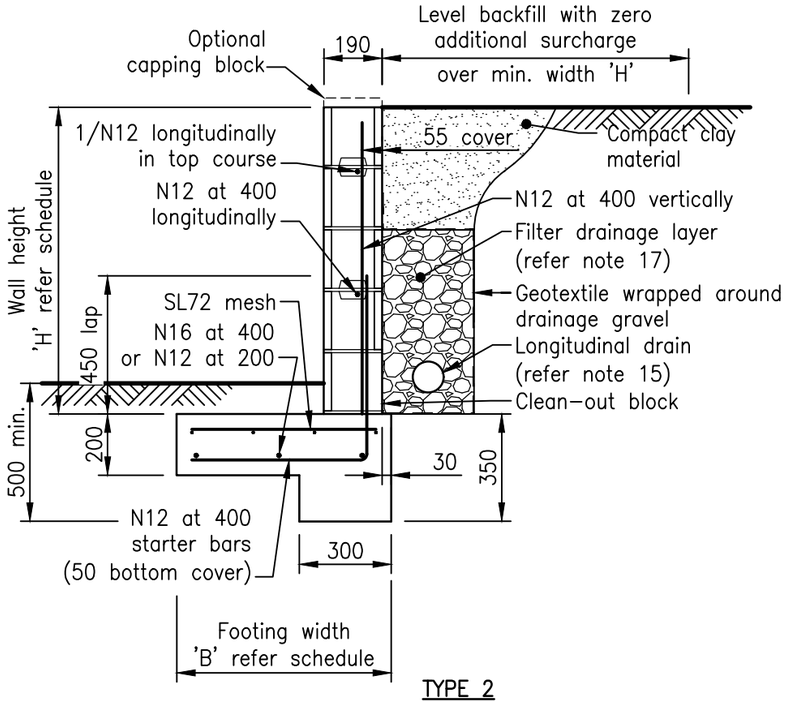

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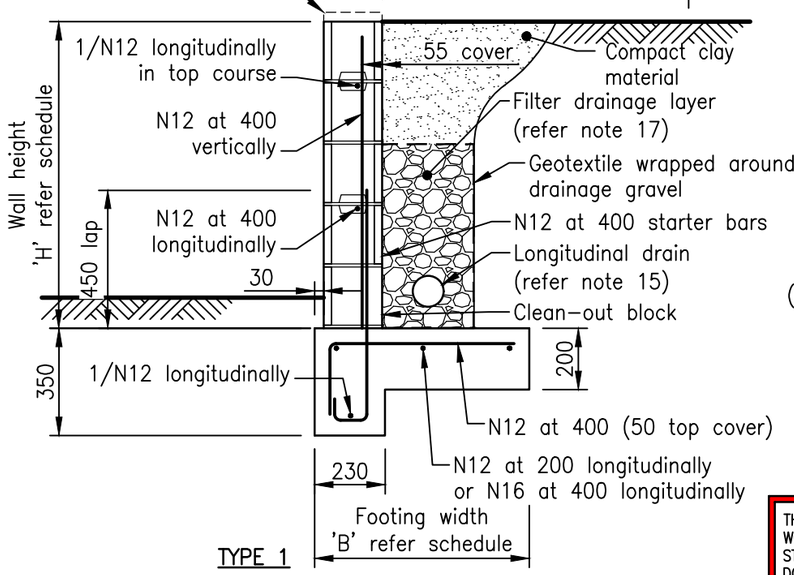
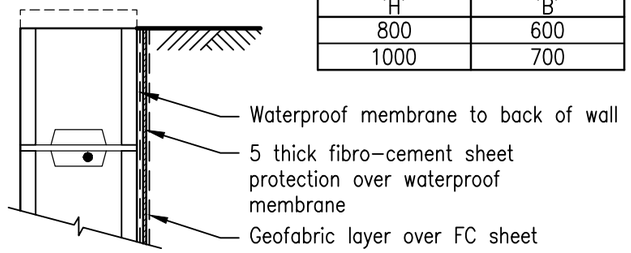


TYPE 1

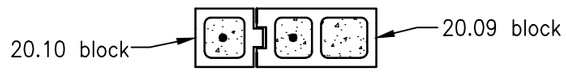
TYPICAL SECTION (800 to 1000 MAX. HIGH)

Scale A



WATERPROOF MEMBRANE SECTION

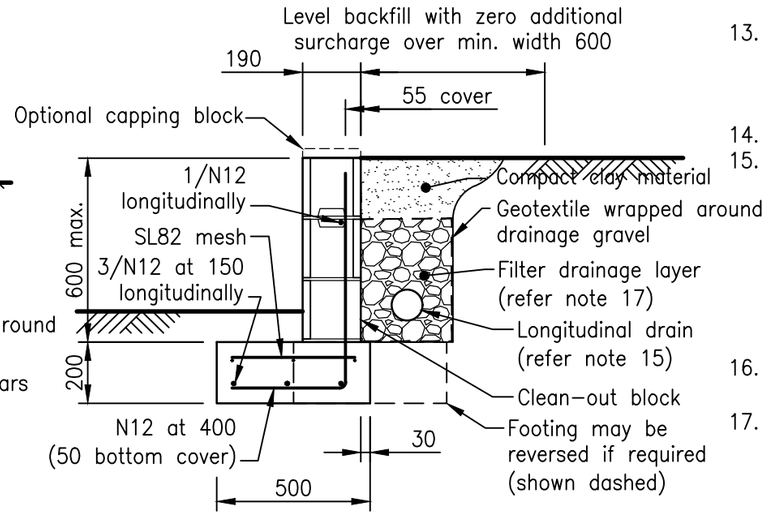
Scale B



Note: Blockwork control joints required at 6000 max. centres

TYPICAL CONTROL JOINT DETAIL

Scale A



TYPICAL SECTION (600 MAX. HIGH)

Scale A

DIMENSION SCHEDULE

Wall height 'H'	Footing width 'B'
800	600
1000	700

THIS DRAWING IS FOR COUNCIL CONSTRUCTION WORKS ONLY.
STANDARD DRAWINGS FOR RETAINING WALLS DO NOT PROVIDE ALL ADOPTED OPTIONS FOR USE WITHIN THE MBRC REGION ALTERNATE STYLES AND DESIGNS MAY BE CONSIDERED

The structural work shown on this drawing is considered to be structurally sound, and suitable for the design loads.

All construction to be as per current Australian Standards and Building Codes, in accordance with MBRC requirements, and in a professional and tradesmanlike manner

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RPEQ 3333
Date : 13/09/2017

NOTES:

1. The retaining wall design provided assumes the following design loads.
   (i) Equivalent fluid density of soil – 6.7kN/m³ (maximum)
   (ii) Safe bearing capacity of soil – 100kPa (minimum)
   Seek advice from a suitably qualified RPEQ where site conditions differ from that shown.
2. Concrete blocks to be grade 15 in accordance with AS1122.
3. Mortar to be grade M3 in accordance with AS3700.
4. Concrete footings to be grade N25 in accordance with AS1379.
5. Grout to be grade N20 in accordance with AS3700 with 10mm aggregate and a slump of 230±30.
6. Reinforcement symbols
   (i) N Hot rolled deformed bar fsy=500MPa
   The number following the symbol for a bar, is the diameter of the bar in millimetres.
   (ii) SL Hard drawn wire fabric (square) fsy=500MPa
7. Provide minimum 50mm cover to all reinforcement unless noted otherwise.
8. Provide clean-out block at bottom of each vertical pour.
9. Vertical reinforcement to be tied in its correct position to the bottom starter bars via the clean-out openings and held in position at the top.
10. Mortar fins protruding into cores to be removed before grouting.
11. All cores to be filled with grout, whether reinforced or not. Grout shall be rodded to ensure that the cores are completely filled.
12. For halts in placing, the level of the grout shall be located at least 50mm from any horizontal joint in the blockwork.
13. Install weepholes in addition to the longitudinal drain for maintenance and overflow purposes. Weepholes to be a vertical joint void of mortar on the lower half of the joint, spaced at approximately 1000 max. centres and positioned at a constant height of approximately 200 above ultimate ground level.
14. All compact clay material to be suitably selected non-dispersive.
15. Longitudinal drain shall be 300 x 50 megaflow to 100 dia. corrugated perforated polyethylene pipe, encased with geofabric (BIDIM A20 or equivalent). The invert of the longitudinal drain shall be 100 below the invert of the weephole inlet. Preferably the longitudinal drain shall outlet to the a suitable location as determined by MBRC superintendent at a minimum slope of 1 in 250 and at 25m intervals. Where such an outlet is not achievable, the inverts of the longitudinal drain and the weephole inlet shall be aligned to allow direct discharge via the weephole.
16. All connections, including the joining of lengths of strip drain shall be made using manufacturers fittings.
17. 300mm thick, free draining filter sand/gravel layer separated from insitu material by a type 2 geofabric layer. Alternatively, drainage layer for full height and length of wall to be cordrain or equivalent with geofabric (BIDIM A29 or equivalent) adhered to both sides.
18. Backfill shall be free draining, non-plastic predominately granular material with minimum friction angles of 38° and 27° where founding materials are sand or other materials respectively. Do not place backfill behind the wall until at least 10 days after wall construction and grouting.
19. Provide rendered capping only where capping to the top of wall is specified.
20. All Council retaining walls are to be constructed in the road reserve where possible. Private wall including footing to be contained wholly within private property.
21. All dimensions in millimetres.
22. Plain concrete finished retaining walls are unacceptable. Appropriate finish to be specified in construction documents.
23. Waterproofing membrane installed to all block walls in accordance with AS4654.

REVISIONS		INIT	DATE
E			
D			
C			
B	Approved by Structural Engineer	TC	7/17
A	Add note – Council construction works only	BW	08/16
X	ORIGINAL ISSUE	BW	07/16

SCALES
A 0mm 100 200 300 400 1:20
B 0mm 50 100 150 200 1:10

Drawn	BW	Date	07/16
Coordinator	PP	Date	07/16

AUTHORISED
SYD JERRAM
07/07/16
Manager Integrated Transport Planning & Design
RPEQ 6872

RETAINING WALLS
CONCRETE BLOCK TYPE 1 AND TYPE 2 FOOTINGS

Moreton Bay Regional Council

DRG No. SL-1040

ORIGINAL SIZE A3

REVISION B

File name: L:\User_Group\Design_Services\Projects\MBRC Standard Drawings\AutoCAD Files\03 - Streetscape and Landscape\SL-1040B - Retaining Wall - Concrete Block Type 1 and Type 2 Footings.dwg Date: Sep 28, 2017 - 12:07pm