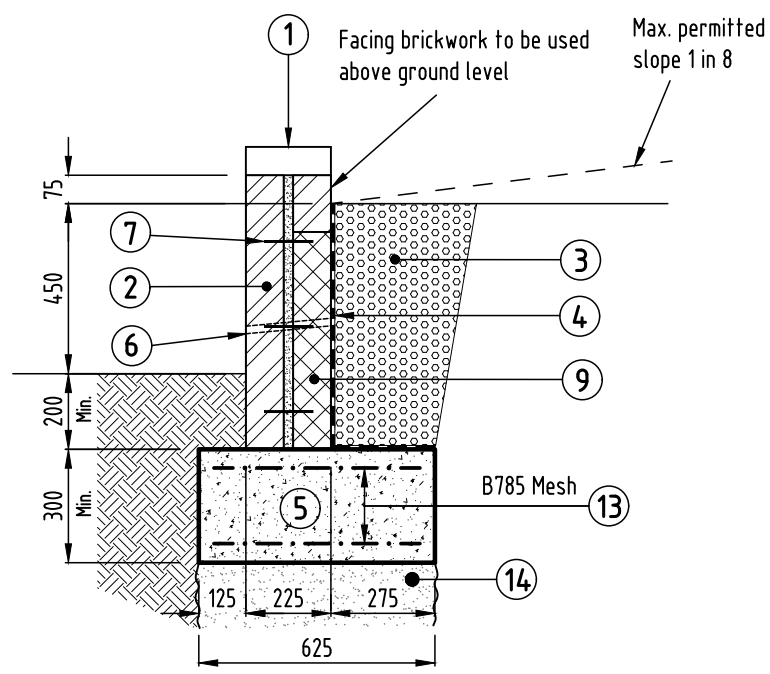
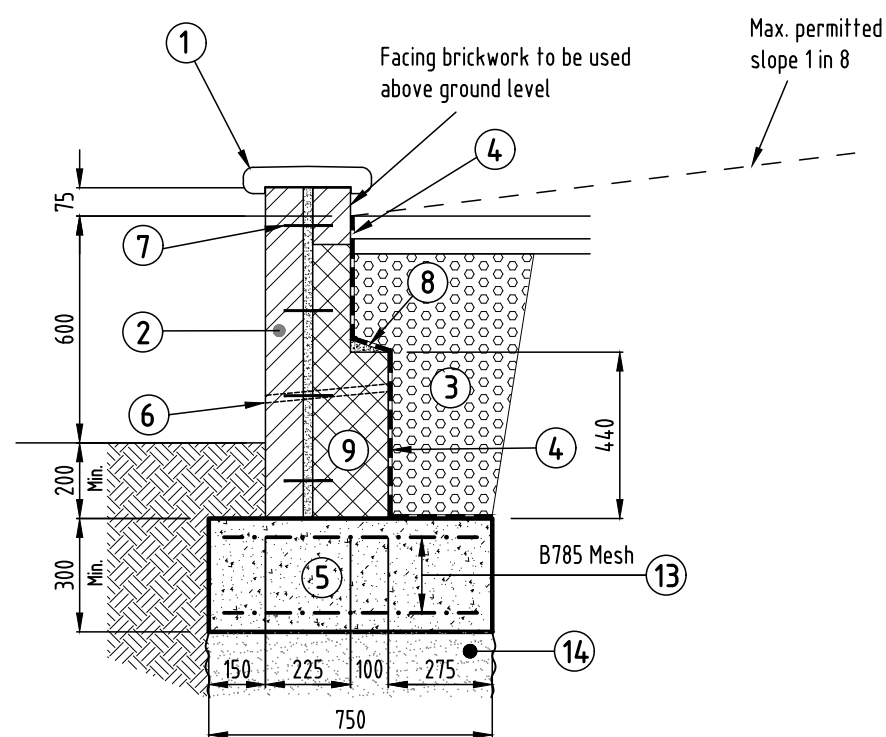
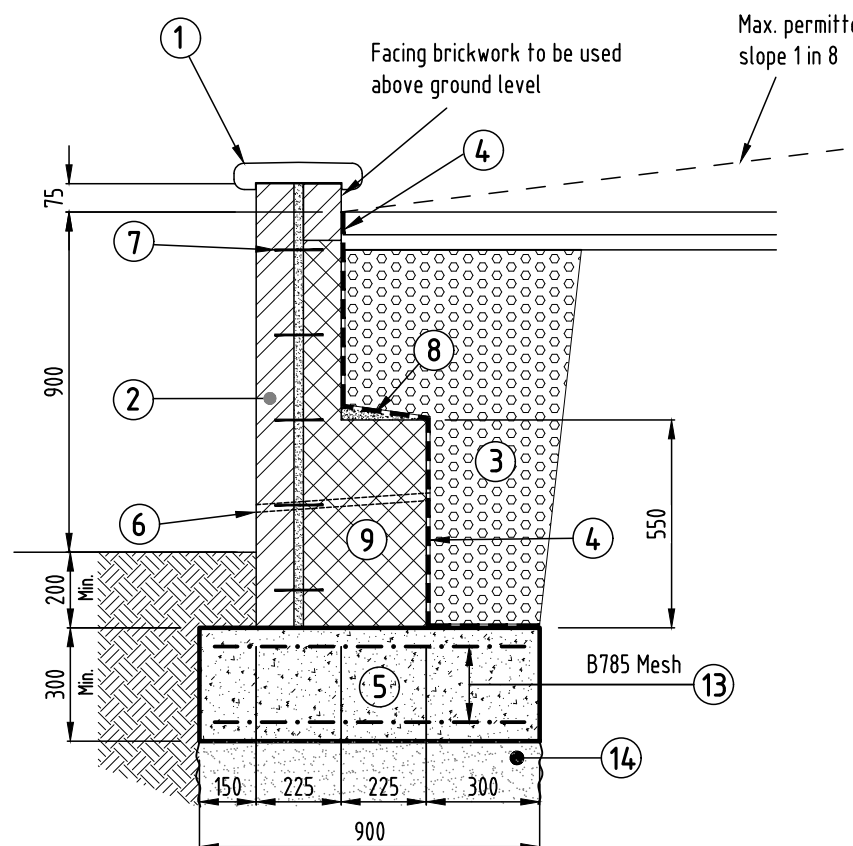




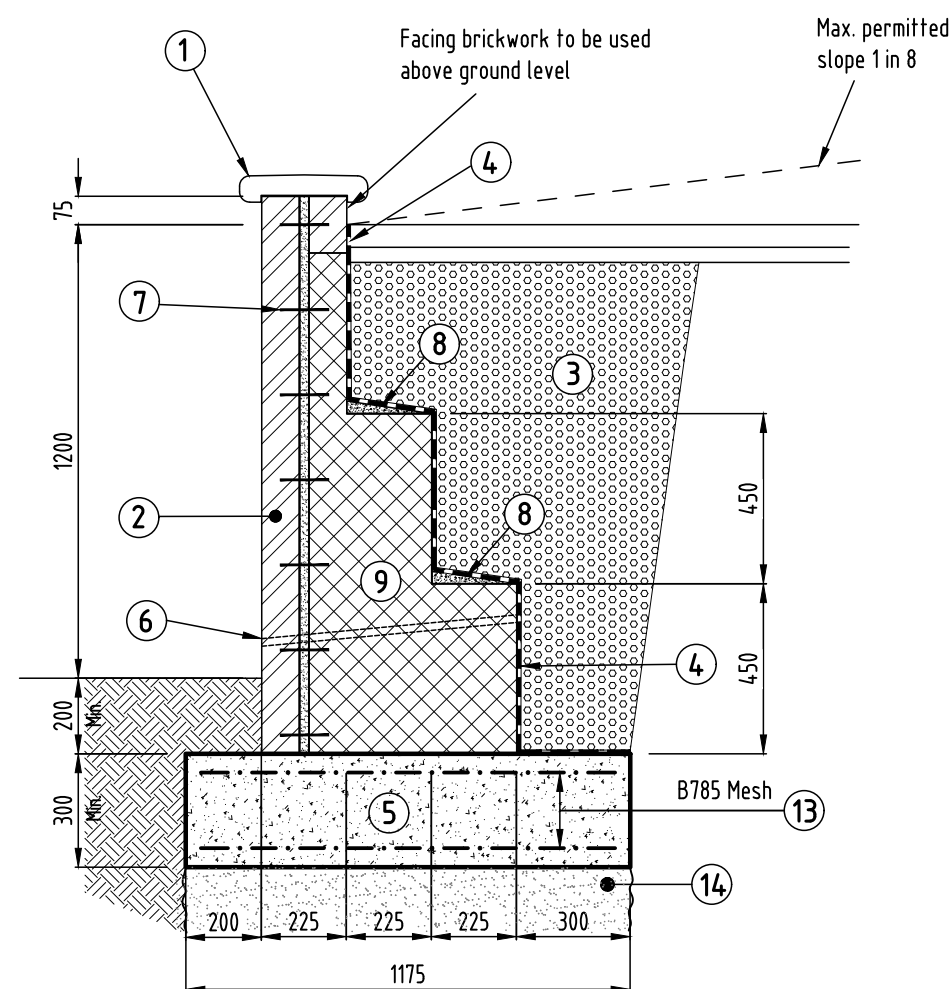
Type 'A' Retaining Wall:-
Max. retained height 0.45m.
Scale 1:20



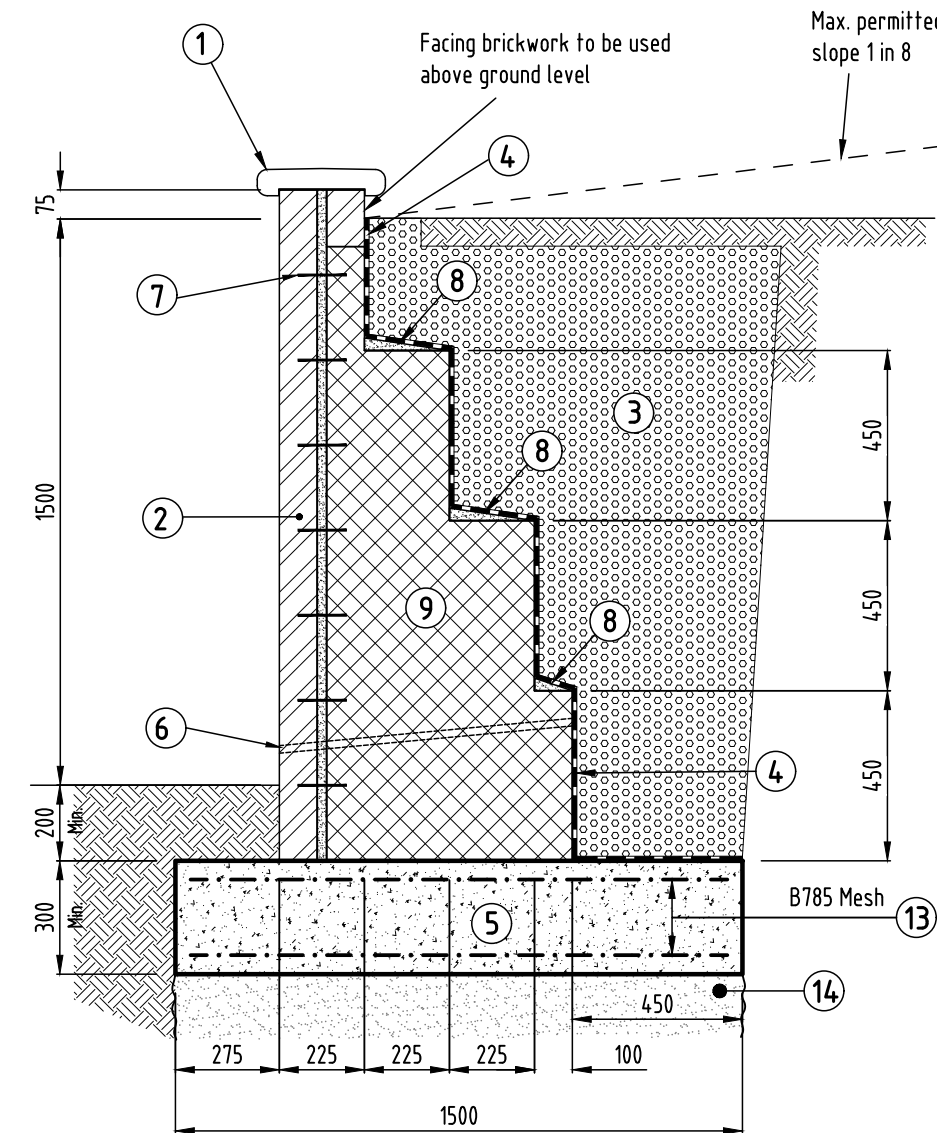
Type 'B' Retaining Wall:-
Max. retained height 0.60m.
Scale 1:20



Type 'C' Retaining Wall:-
Max. retained height 0.90m.
Scale 1:20

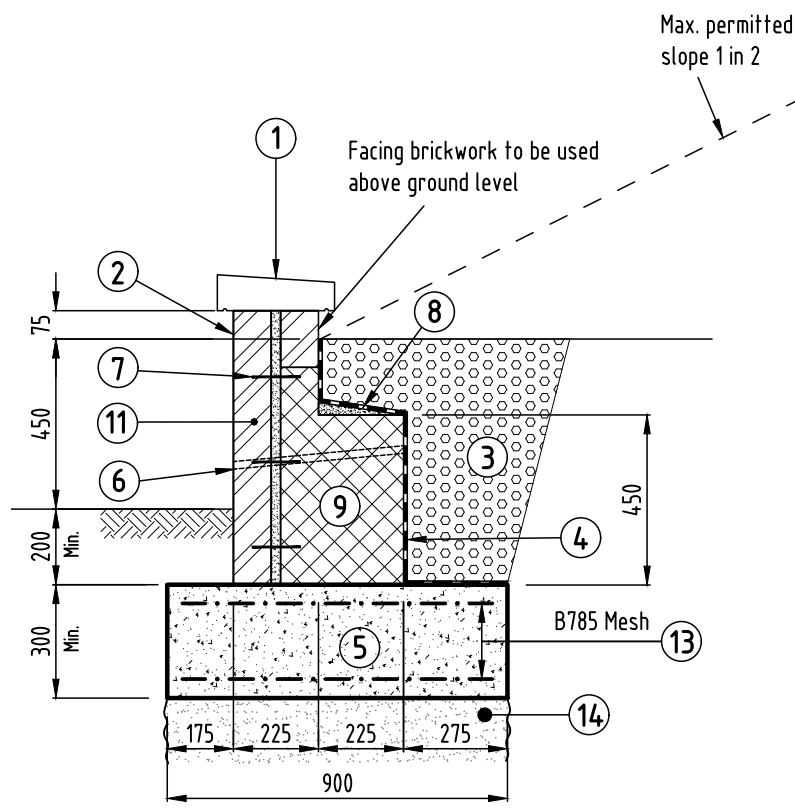


Type 'D' Retaining Wall:-
Max. retained height 1.20m.
Scale 1:20

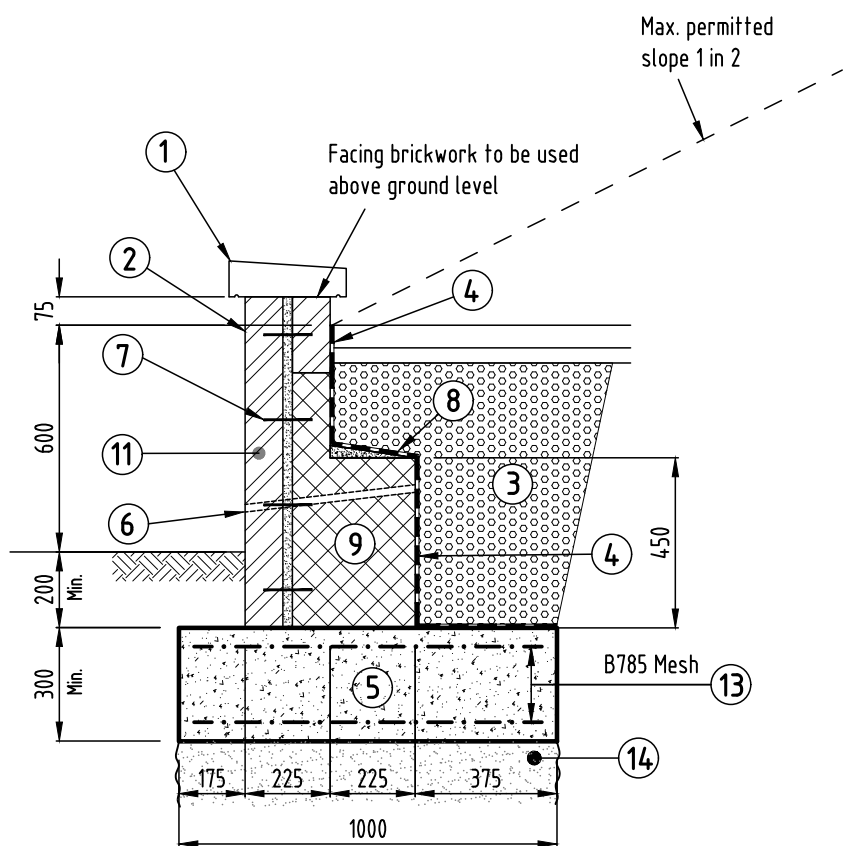


Type 'E' Retaining Wall:-
Max. retained height 1.50m.
Scale 1:20

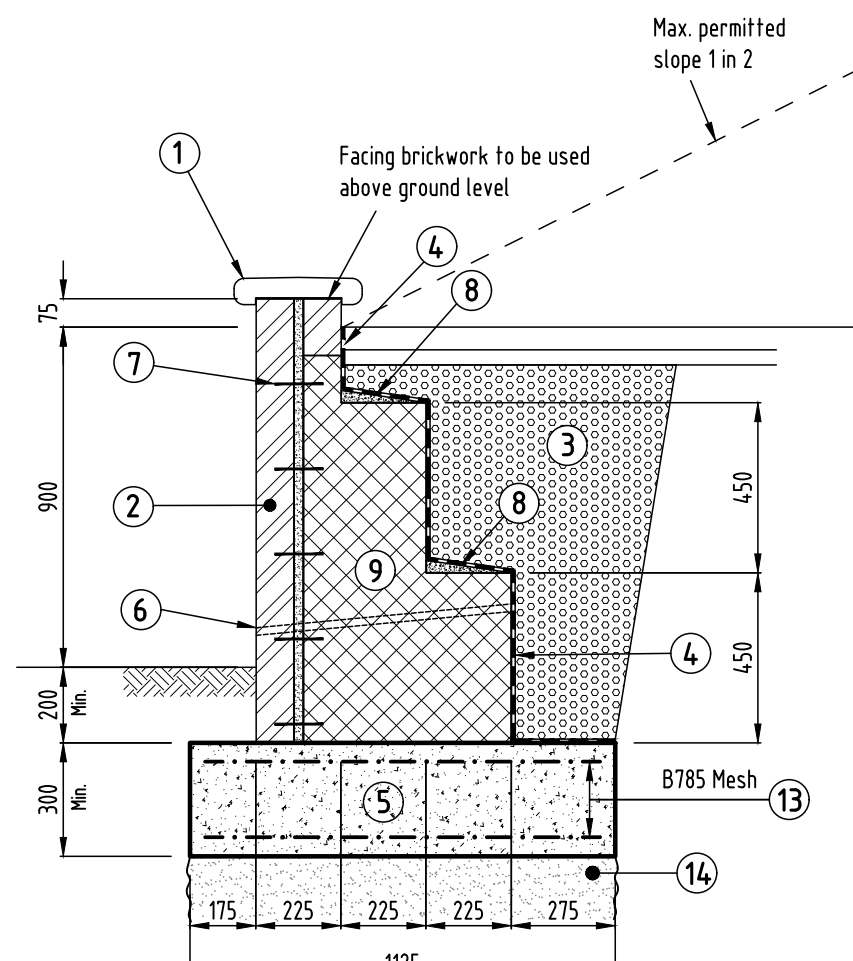
Retaining Walls 1 in 8 batter behind



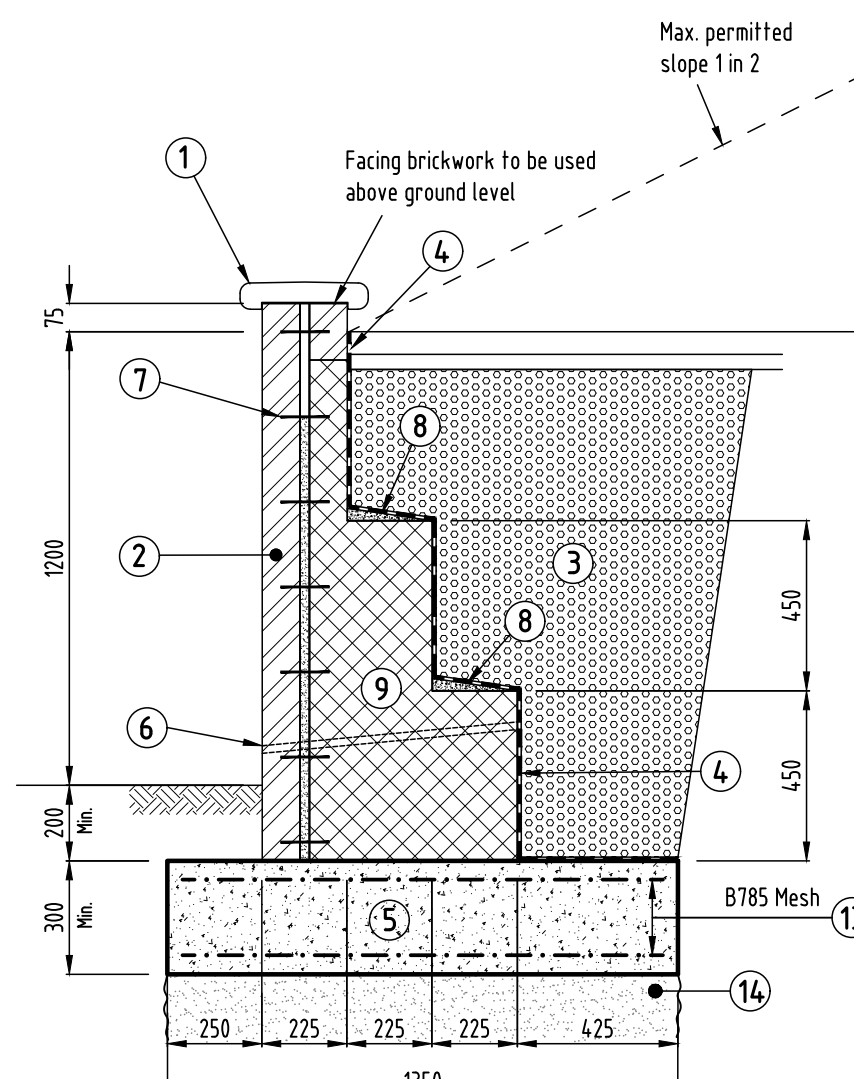
Type 'A1' Retaining Wall:-
Max. retained height 0.45m.
Scale 1:20



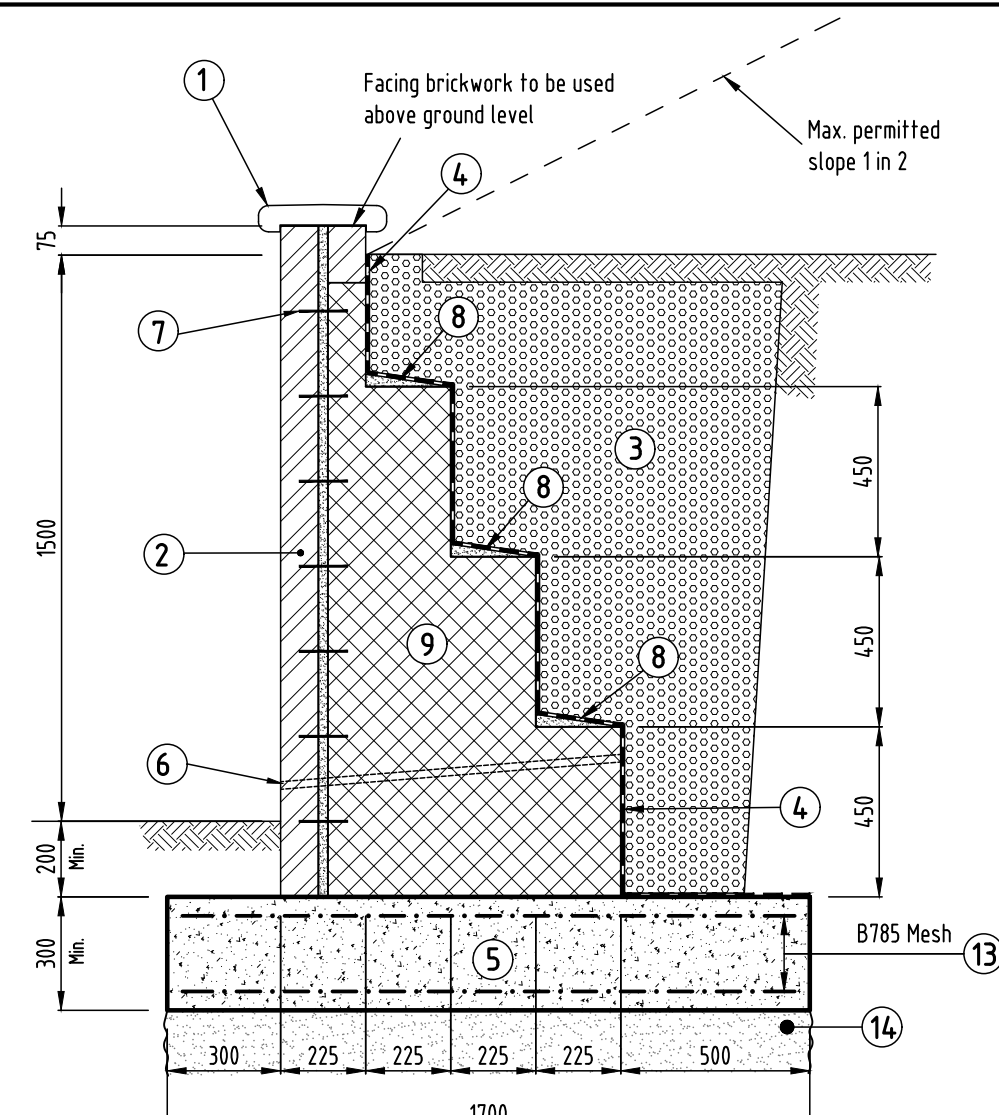
Type 'B1' Retaining Wall:-
Max. retained height 0.60m.
Scale 1:20



Type 'C1' Retaining Wall:-
Max. retained height 0.90m.
Scale 1:20

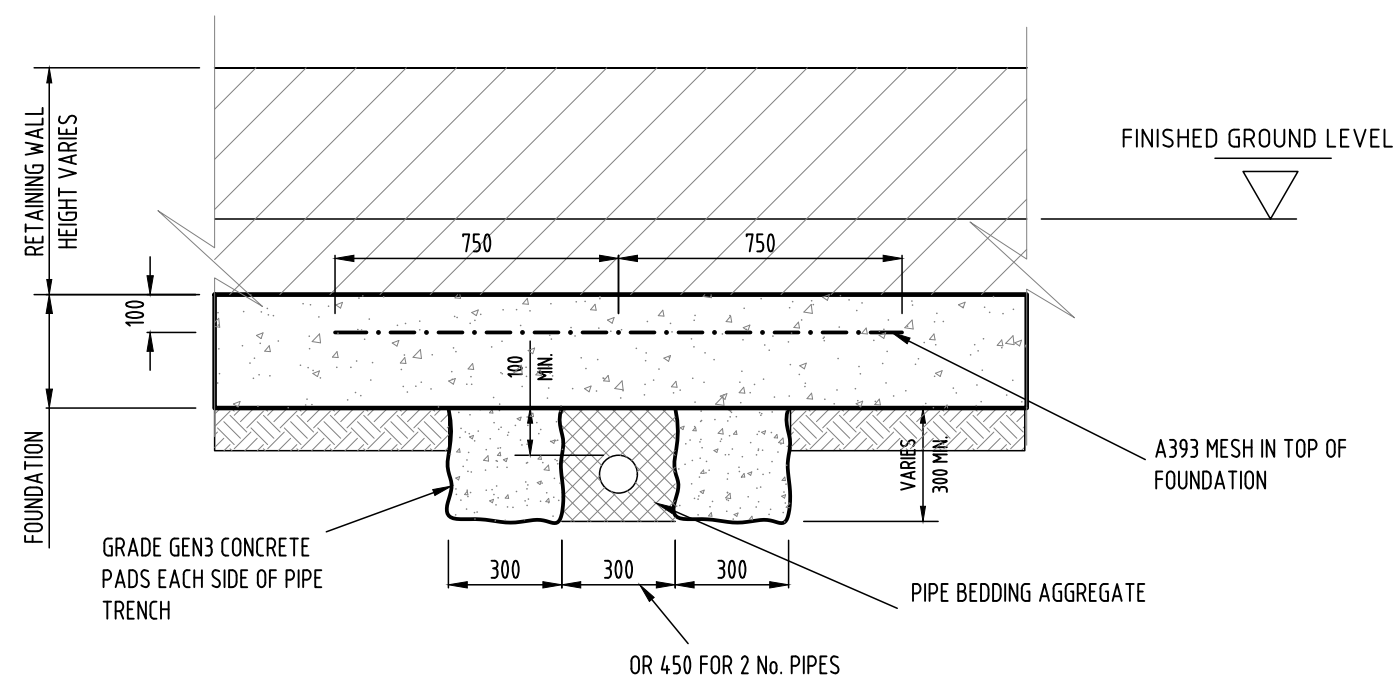


Type 'D1' Retaining Wall:-
Max. retained height 1.20m.
Scale 1:20

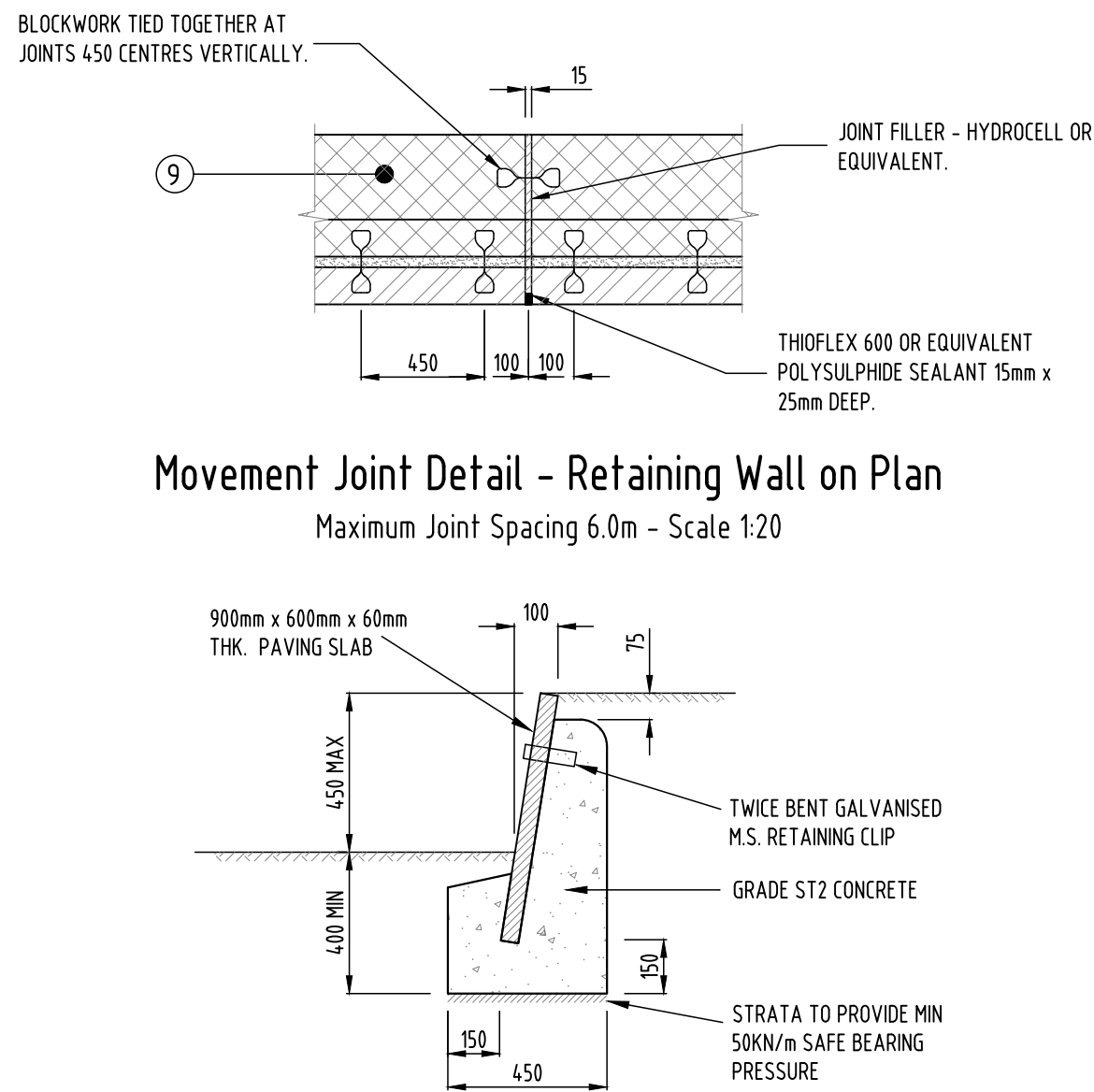


Type 'E1' Retaining Wall:-
Max. retained height 1.50m.
Scale 1:20

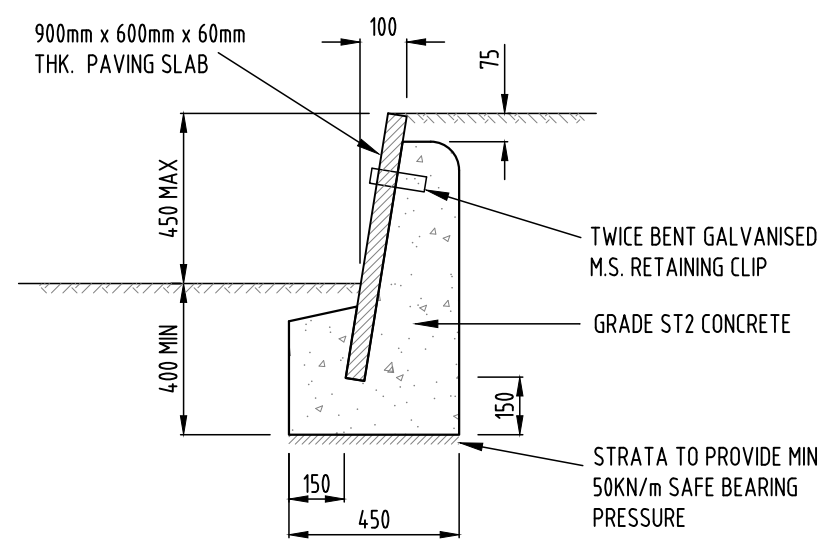
Retaining Walls 1 in 2 batter behind



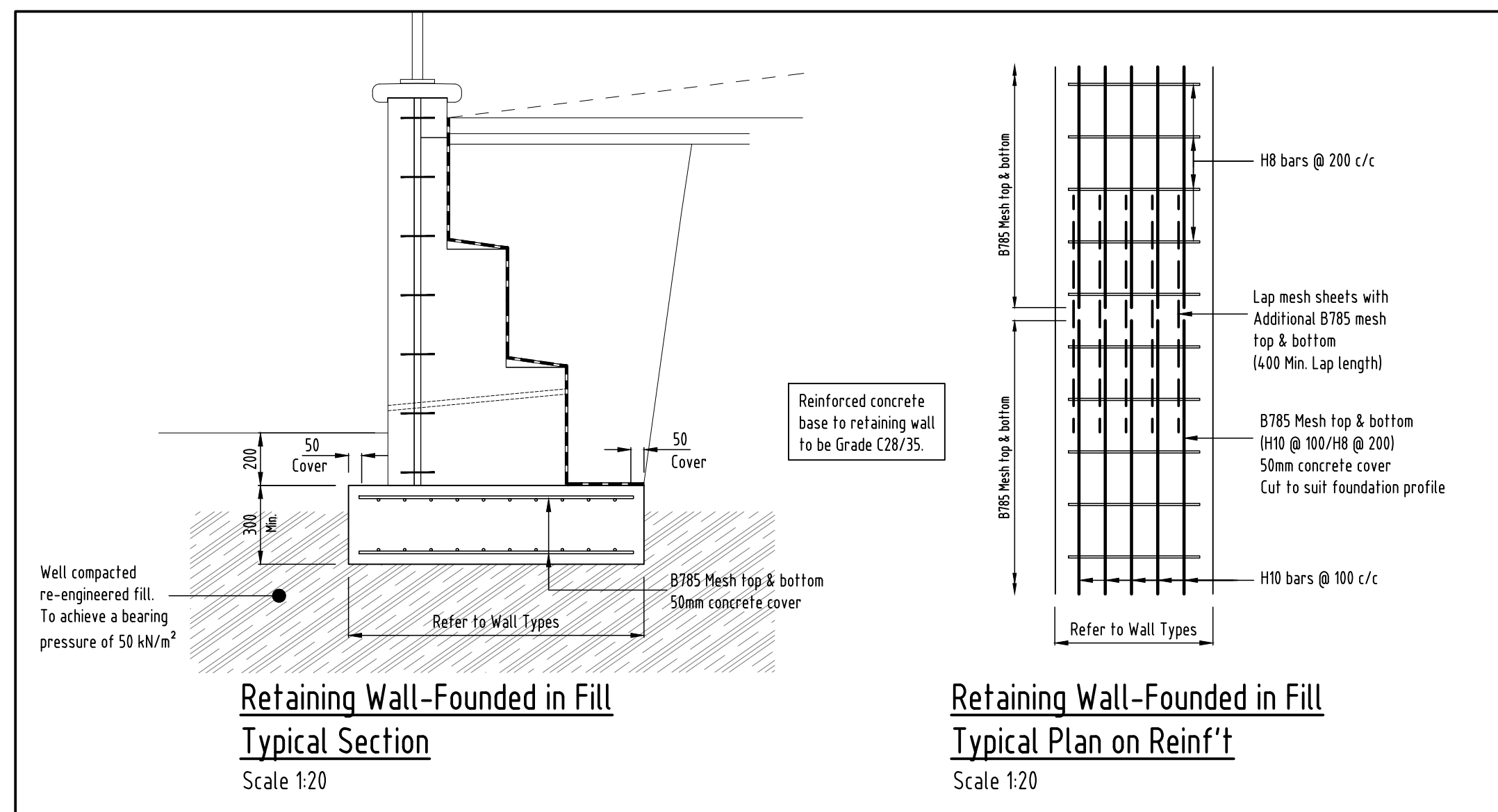
Detail for Sewers Passing under Retaining Wall:
Elevation on Retaining Wall.
Scale 1:20



Movement Joint Detail - Retaining Wall on Plan
Maximum Joint Spacing 6.0m - Scale 1:20



Paving Slab on Edge :
Retaining Wall Detail for Garden
Areas only up to 450mm Max.



Retaining Wall-Founded in Fill
Typical Section
Scale 1:20

Retaining Wall-Founded in Fill
Typical Plan on Reinf't
Scale 1:20

RETAINING WALLS LEGEND

- 1 COPEN TO ARCHITECTS DETAILS
- 2 FACING BRICKWORK WITH SOLID COLLAR JOINT: MIN. BRICK STRENGTH 20 N/mm.
- 3 SINGLE SIZED CLEAN STONE (NOMINAL 40mm).
- 4 1200 GAUGE VISQUEEN WITH 300mm LAPS, CUT VISQUEEN AROUND WEEP HOLES.
- 5 GRADE C28/35 (RC35) CONCRETE FOUNDATION.
- 6 75mm UPVC WEEP HOLES AT 2.0m CENTRES.
- 7 STAINLESS STEEL WALL TIES AT 450 CENTRES HORIZ. AND 225mm CENTRES VERTICAL.
- 8 MORTAR FILLET.
- 9 DENSE CONCRETE BLOCKWORK 7 N/mm STRENGTH, MIN. DENSITY 18 kN/m³, BONDED INTO BRICKWORK.
- 10 DENSE CONCRETE BLOCKWORK 7 N/mm STRENGTH, MIN. DENSITY 18 kN/m³.
- 11 FACING BRICKWORK, MIN. BRICK STRENGTH 20 N/mm.
- 12 GRADE C28/35 (RC35) CONCRETE FOUNDATION.
- 13 A393 or B785 MESH IN TOP & BOTTOM OF FOUNDATION 40mm COVER, 400mm LAPS.
- 14 GEN 1 MASS CONCRETE FILL TO BE TAKEN DOWN MINIMUM 200mm INTO THE FIRM BEARING STRATA WHERE APPLICABLE.
- 15 100/150 CAVITY FILLED WITH GRADE C28/35 (RC35) CONCRETE
- 16 MESH REINFORCEMENT: A393 OR B785 MESH AT CENTRE. 500mm LAP WITH STARTER BAR.
- 17 STARTER BARS - H12's @ 200 CENTRES.

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

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 MESH REINFORCEMENT IN THE BOTTOM OF THE WALL 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.

A	27/08/21	General update.	WW	PG
REV.	DATE	DETAILS	BY	CHK.
AMENDMENTS				
CLIENT:				
WDL Homes Making a house into your new home				
CONSULTING ENGINEERS PHG CONSULTING LTD 62A ALBANY ROAD CARDIFF CF24 3RR T: +44(0)29 2030 2521 E: enquiries@phg-consulting.co.uk W: www.phg-consulting.co.uk @PHG_consulting www.linkedin.com/company/phg-consulting-engineers				

PROJECT:			
WDL Homes Trefechan			
DRAWING TITLE:			
Masonry Retaining Walls Max. Retained Height 1.5m			
DRAWN:	CHK:	STATUS:	SCALE:
JR	DJT	Preliminary	As shown
DATE:	JOB NO.	DRG. NO.	REV.
30/04/20	1914	015	A