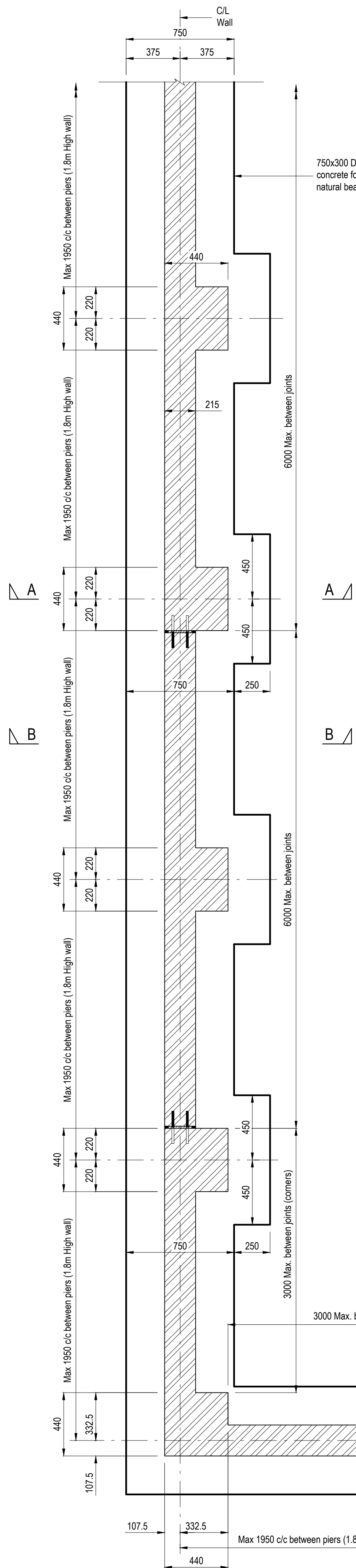
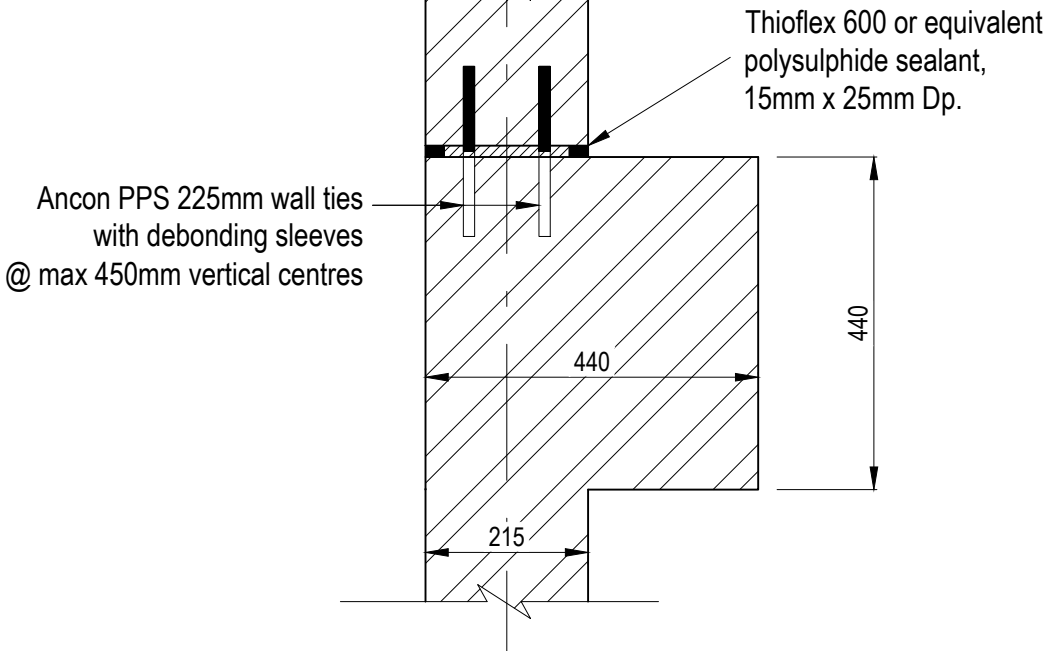


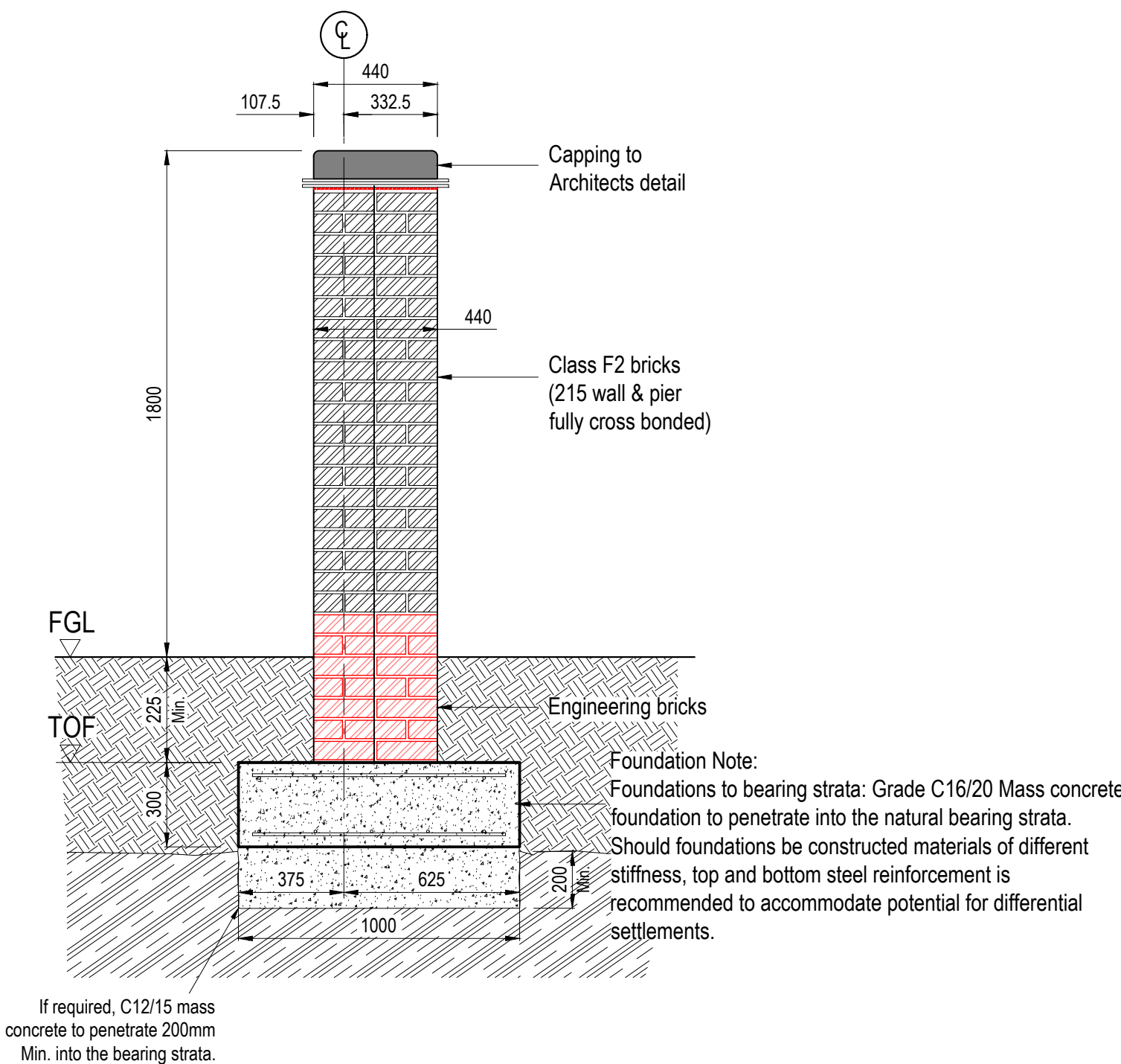


Plan - Screen Wall Corner detail (215mm With piers) Wall height 1800mm from FGL
Scale 1:20

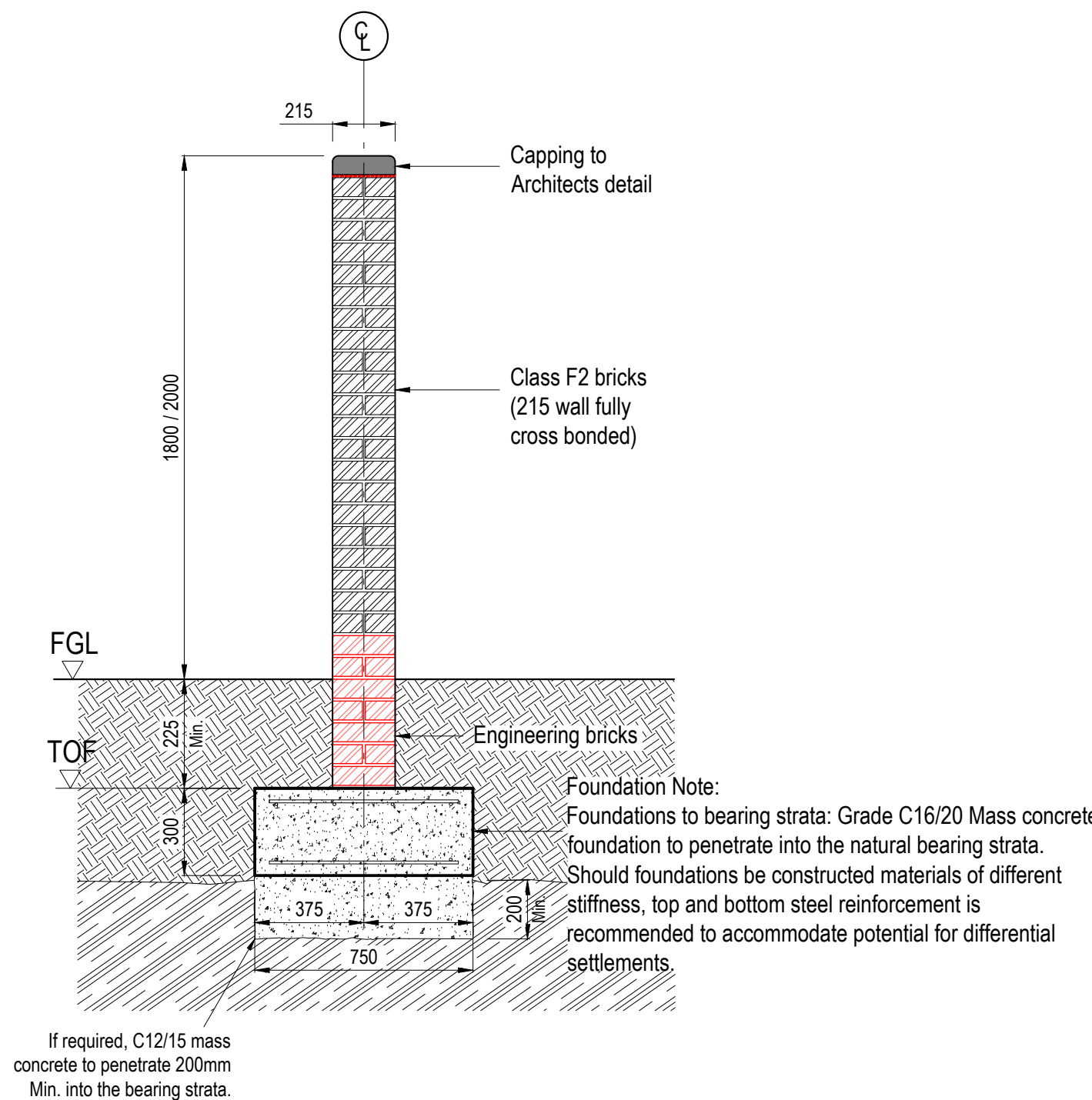
Movement Joint:
Joints to be provided at 6m Max. and Max. 3m from corners.
Joint to be 15mm wide filled with Hydrocell or equivalent cellular polyethylene joint filler.
Masonry tied together at joints 450mm centres vertically.



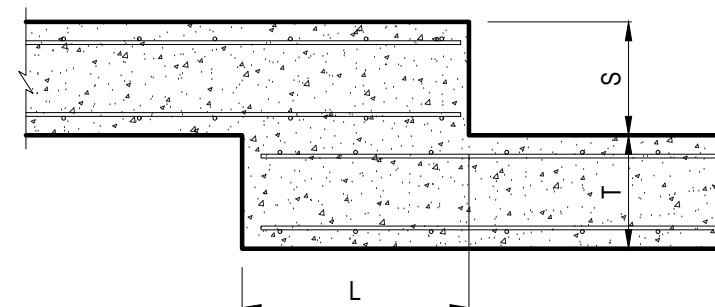
Movement Joint Detail
Scale 1:10



Section A - A
Scale 1:20



Section B - B
Scale 1:20



Foundation Step Detail
Scale 1:20

Strip Foundation (T Less than 500mm Dp.)
The overlap (L) should be not less than:-
• 2 x S, or
• T (Max. 500mm), or
• 300mm, Whichever is largest.

Trench Fill Foundation (T Over 500mm Dp.)
The overlap (L) should be not less than:-
• 2 x S, or
• 1000mm, Whichever is largest.

Strip/Trench Fill Foundations:

1. Site investigation information has been taken from SI Report No: 17309 by 'Terra Firma'.
2. Soils are confirmed as low volume potential, allowance is to be made for deeper foundations in the zone of tree influence to satisfy building regulations.
3. Underside (BOC) of foundations to be minimum 1000mm below Existing ground level.
4. Foundations to penetrate into 'Natural Ground' bearing strata as noted in the SI.
5. Foundations to be 300 Dp. Min. Grade C16/20 Design Class DS-1, ACEC Class AC-1 Mass concrete.
6. If trench fill foundations will exceed 2.5m then consult the engineer before proceeding.
7. Should foundations be founded on materials of different stiffness, top and bottom steel reinforcement is recommended to accommodate potential for differential settlements.
8. Reinforced foundations to be Grade C28/35 concrete and to be reinforced with B785 mesh top & bottom.

Note:

1. For general notes refer to drawing 2109/001.
2. This drawing must be checked against the latest engineering layout & Architects drawings to confirm:-
 - a) Slab level & extent/amount of underbuild & tanking.
 - b) Plot handing prior to foundation excavation
3. Any discrepancies or queries then inform & consult PHG Consulting before proceeding.
4. When working in excavations:-
 - a) Sides & ends of trenches to be prevented from collapse by battering to a safe angle or supporting them with proprietary support system, trench sheets or timber.
 - b) Suitable edge protection to be provided to prevent persons or material falling into the excavation.
 - c) Avoid surcharge close to trench edge.
 - d) Suitable means of access & egress to be provided.
 - e) Never work alone or ahead of the trench support.
5. Read drawing in conjunction with site plan drawings 2490/002.

Screen Wall Note:

1. Foundation/Walls: Suitable for non-retaining walls up to 1800mm Max. height screen wall.
2. Foundation design is based on 125 kN /m² bearing pressure.
3. Reinforcement: Foundations only need to be reinforced where founded off materials of different stiffness. (Provide 1 layer B785 mesh top & Bottom, Concrete grade C28/35).
4. Masonry:
Engineering bricks to be used below ground level. Class F2 bricks to be used Above (To have a water absorption less than 7%). For stone walls, refer to manufacturer for Specification.
5. Mortar: Bucket handle mortar joints to be used
Designation (i) Strength M12 Cement: Lime: Sand 1 : ¼ : 3
For engineering bricks.
Designation (ii) Strength M6 Cement: Lime: Sand 1 : ½ : 4½
For class F2 bricks.
6. Movement joints (Brickwork/Stone): To be provided at Max. 6m centres & 3m from corners/ends. Joint to be for the full height of the wall (not foundations). Confirm movement joint spacing for stone with the manufacturer.
7. Wall coping: function of copings and capping's is aesthetic as well as protective. The protective function is against vertical water penetration and in shedding rainwater clear of the face as effectively as possible.
The ideal coping should be durable, waterproof, weather the brickwork and constructed preferably with interlocking units. The overhang should include a throating recess or a drip not less than 13 mm wide, with the outer drip edge at least 40 mm from the face of the brickwork A minimum weight of 1.5 kN /m² is preferred for copings with concrete or stone units. Some brick manufacturers can supply their own capping system which incorporates a DPC.
8. Any boundary/screen wall built next to house or garage wall to have a movement joint.

Note:

For wall location, refer to architects site layout.

A	14/07/25	Construction issue.		WW	PG
REV.	DATE	DETAILS		BY	CHK.
AMENDMENTS					



Merthyr Housing
Where People Come First



Tai Merthyr
Use Your Right
to be Central



phg
CONSULTING ENGINEERS

PHG CONSULTING LTD
1077 COWBRIDGE ROAD EAST
CARDIFF, CF11 9AG.
T : +44(0)29 2020 2621
E : enquiries@phg-consulting.com
W : www.phg-consulting.com

 @PHG_consulting
 www.linkedin.com/company/phg-consulting-engineers

PROJECT: Springfield Rise Treharris

DRAWING TITLE: Freestanding Masonry Wall 1.8m High

DRAWN:	CHK:	STATUS:	SCALE AT 1:
WW	PHG	CONSTRUCTION	As Shown
DATE:	JOB NO:	DRG. NO:	REV:
Dec '24	2109	016	A