

## Walls

Exposed face: 102.5mm facing brickwork to match existing laid in MK (III) mortar with Expanding bedwork breasted top in MK (III) mortar.

Clear cavity as existing (50mm minimum) internal face and perforate walls: 100mm Thinsul dense concrete blocks to BS 6070 (or similar approved) laid in MK (III) mortar.

Wall ties in new wall construction are to be stainless steel and of length to comply with the Building Regulations Part A, Table 5, with a minimum embedment of 50mm into each existing wall and 25mm into the new wall. Concrete and masonry shall be protected by a minimum of 25mm of render. All corners and end joints shall be should be spaced at maximum 300mm centres vertically and within 250mm of the edge of the masonry panel. Wall ties shall be laid or sloping towards the outside, with any dips pointing downwards.

During construction the difference in height between two courses of a cavity wall shall never exceed 150mm. On wall finish both sides shall be built up together to avoid bridging the gap.

The concrete in a cavity wall shall not be placed below finished ground level or 250mm below the lower edge of the cavity wall. The mix shall be indicated where special foundations such as rills are used.

Internal face of external walls shall be finished to finished surface and adequately with pointing over alternate courses where walls are of the same type or type with wall tie, expanded metal or equivalent at maximum 300mm c/c vertically where walls are of dissimilar materials.

Internal masonry walls: 100mm bedwork (or similar approved) laid in MK (III) mortar. Unless noted otherwise on the drawing masonry construction locally below final bearings to be minimum of 25 Nimur blocks or 10.2 Nimur blocks laid in class MK (III) mortar in accordance with BS 5202.

All masonry below ground level to be suitable for purpose, as designated by the block manufacturer, laid in class MK (III) mortar. Concrete blocks should not be used below ground where there are substances in the ground, unless specially confirmed by the manufacturer. Bed in class MK (III) mortar. Concrete blocks shall be laid in accordance with BS 5202. For quality walls of externally rendered masonry Sedgwick Building Products Cement (SBPC) to be used for the mortar.

All brick joints to be fully bonded to the masonry using header bricks. Under no circumstances should joints be constructed separately and tied to the main wall with wall ties.

Bedwork bond/breast shown on details are for illustration purposes only.

### Movement Joints

Such noted otherwise on the drawing vertical movement joints shall be provided at the following locations: At all corners and end joints. At all changes in wall height and/or construction. At all changes in wall thickness. At all changes in wall material. At all changes in wall finish. At all changes in wall exposure. At all changes in wall finish. At all changes in wall exposure. At all changes in wall finish. At all changes in wall exposure.

Management plans to be submitted to the contractor at commencement. 10mm of movement joint sealant thickness of joint filler. Be bonded behind concrete components where possible and be finished externally with poly-sulphide sealant, minimum 10mm deep to ensure a good bond, and colour to match brickwork/stone. Perks other side of joints shall be tied together with ties at 500mm c/c vertically with one end up/down.

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## Electrical System

To be designed and installed by a suitably qualified Electrical Engineer. Design and installation shall comply with Building Regulations Part P, and BS 7671.

Project design, installation, inspection and testing of electrical installations is required to protect persons from fire or injury.

Electrical installations to be inspected and tested during and at the end of installation, before they are taken into service. Test certificates to be issued to Building Control on completion of the works.

All sockets and switches are to be situated at appropriate heights between 450mm and 1300mm above finished floor level. Sockets and switches shall be 100mm to be situated back-to-back.

## General

This drawing is to be read in conjunction with Sedgwick standard contract documentation and all other relevant documents, unless alternative arrangements have been agreed with the Contract Administrator.

Do not scale the drawings except for plotting purposes. The Contractor shall check all dimensions and levels on site prior to demolition of the existing structure. Any discrepancies shall be notified immediately to the Contract Administrator and the Design Engineer. All dimensions shown include finishes.

Layout of the works is to remain unaltered unless otherwise agreed with the Contract Administrator and the Design Engineer.

Contractor shall issue all notices (including permitted) prior to commencement of any works on site and shall use the Contract Administrator.

All temporary works are to be designed and detailed by the Contractor, including the provision for pumping, shoring & propping. Design to be undertaken by a suitably qualified professional. All excavations and exposed foundations are to be adequately supported and protected by the Contractor at all times in accordance with health & safety requirements.

All materials to be fit for purpose and all works, whether specified or implied, to be in accordance with the Building Regulations, British Standards, Codes of Practice and accepted good building practice.

All proprietary products are to be finished strictly in accordance with the manufacturers recommendations.

On completion of the works the Contractor shall be responsible for reinstating the surrounding ground finished surface to their original state.

The structural design has been prepared in accordance with the CDM Regulations. In addition to the usual files associated with building works and materials the Contractor should also ensure:

that demolition, excavation, cutting, cutting out the existing structures or materials be carried out carefully in close proximity to any adjacent structures.

that all items to be demolished or removed, eg walls, beams, slabs etc, are assessed for any loadbearing or stability function and temporary propping provided as necessary that any safety structure or material to be added, cut, or otherwise designed, be checked for asbestos content and appropriate action taken.

## Concrete Topping Specification

Concrete mix specification for in situ reinforced concrete topping

Minimum thickness of topping 60mm

Concrete Strength Class of Concrete C25/30

Maximum aggregate size: 10mm

Maximum free water / cement ratio 0.55

Chalks content class: < 0.020

Concrete class: S2, L2, L2.5

Temperature of concrete at placement: 5 to 20°C

Maximum temperature of fresh concrete: < 50°C

Minimum temperature of fresh concrete: > 5°C

Maximum temperature of fresh concrete: < 25mm

Exposure class: < X1

Reinforcement

A142 steel mesh Grade S500B conforming to BS 4449:2005 placed centrally within thickness of topping & fixed from formwork using steel or with 50mm gap cover & topping is more than 50mm thick.

Alternative use of polypropylene fibres at a density of 0.50kg/m<sup>3</sup> of concrete instead of the A142 steel mesh.

Surface Finish of Topping

The required finish of the top surface of the topping can be achieved by trowelling to an even texture with no ridges or dips. Sudden irregularities of levels is not permitted and a maximum deviation level of level of more over a 2m straight edge is to be achieved.

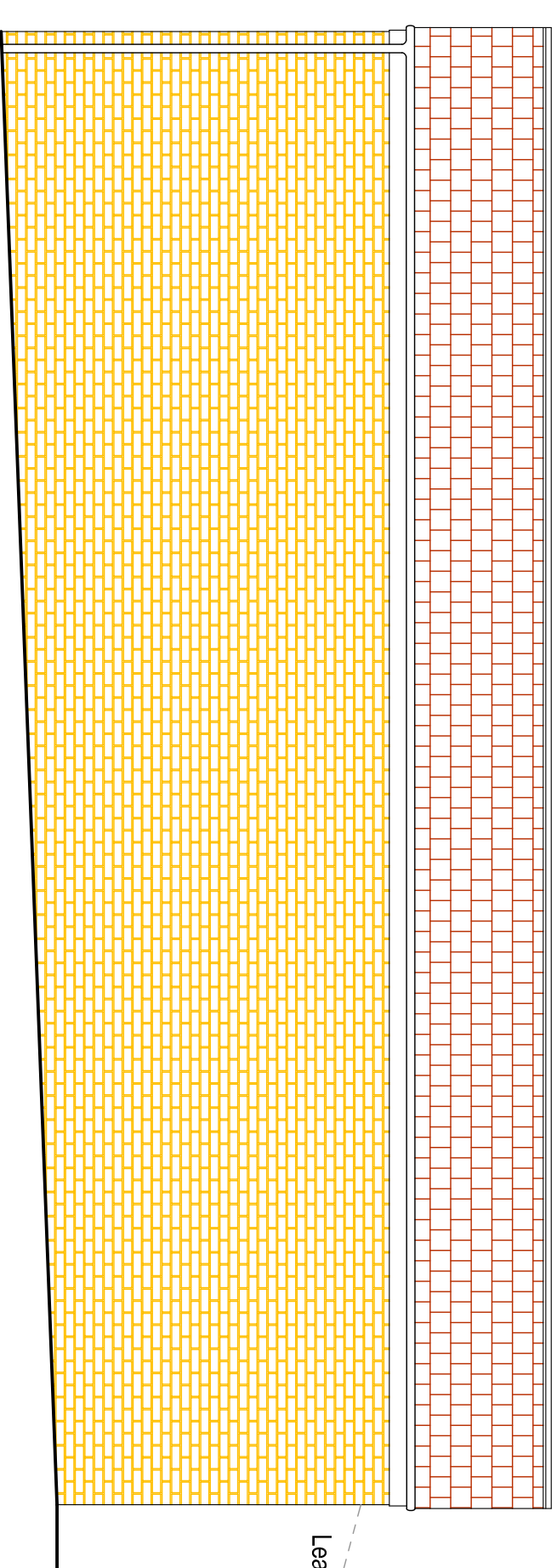
The topping should be cured in accordance with the recommendations of BS8110 part 1:1997 4.6.2.3.

On completion of placing the topping, curing and protection of the finished top surface has to be maintained for a minimum of 7 days.

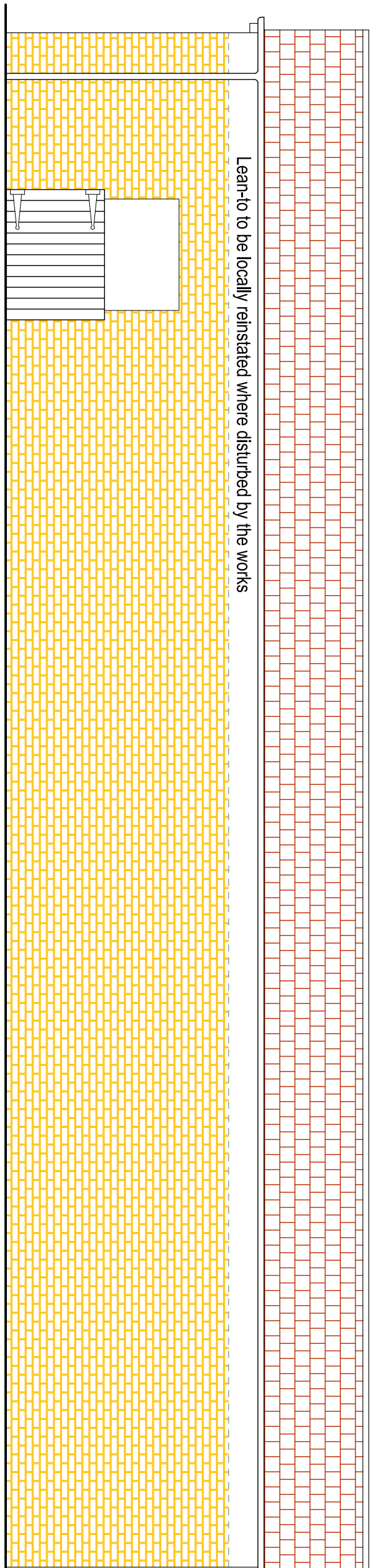
The required finish of the top surface of the topping can be achieved by trowelling to an even texture with no ridges or dips. Sudden irregularities of levels is not permitted and a maximum deviation level of level of more over a 2m straight edge is to be achieved.

On average 4 days should be allowed for curing of the topping, depending on a surface temperature being maintained between 5 and 10 degrees C.

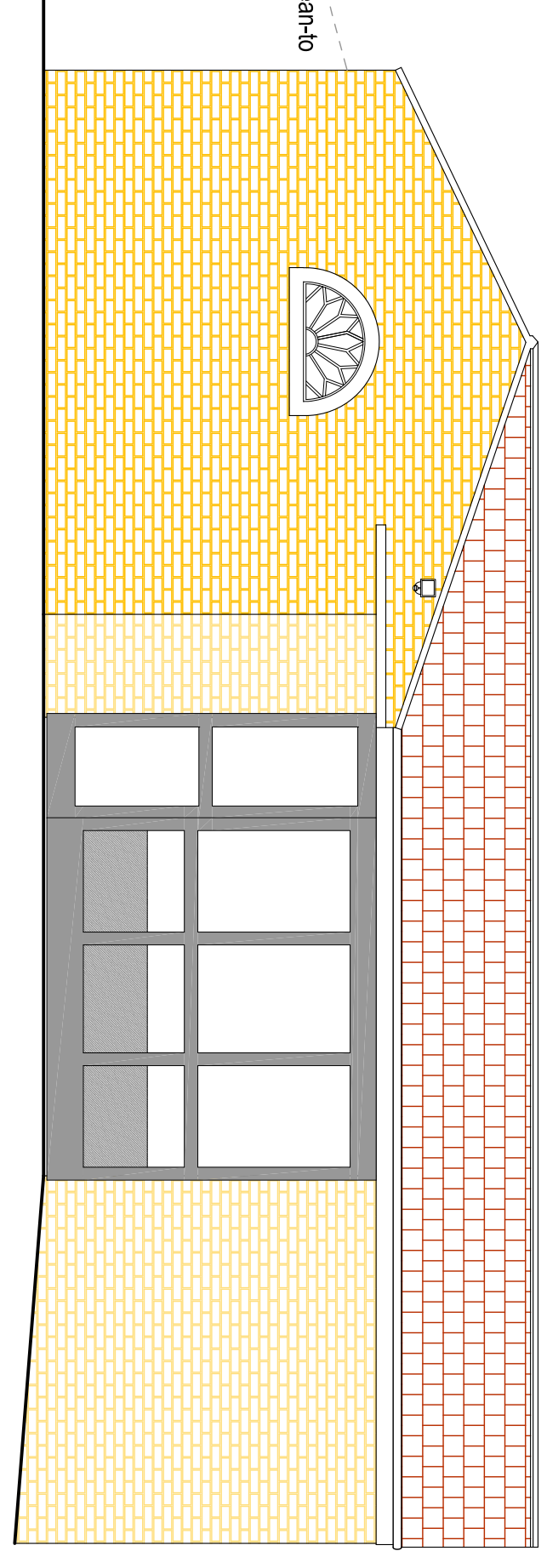
Protection to the surface of the topping during the curing time can be by an impermeable membrane (Polythene) or spraying the surface with an efficient curing membrane or a damp absorbent material (freshair or similar).



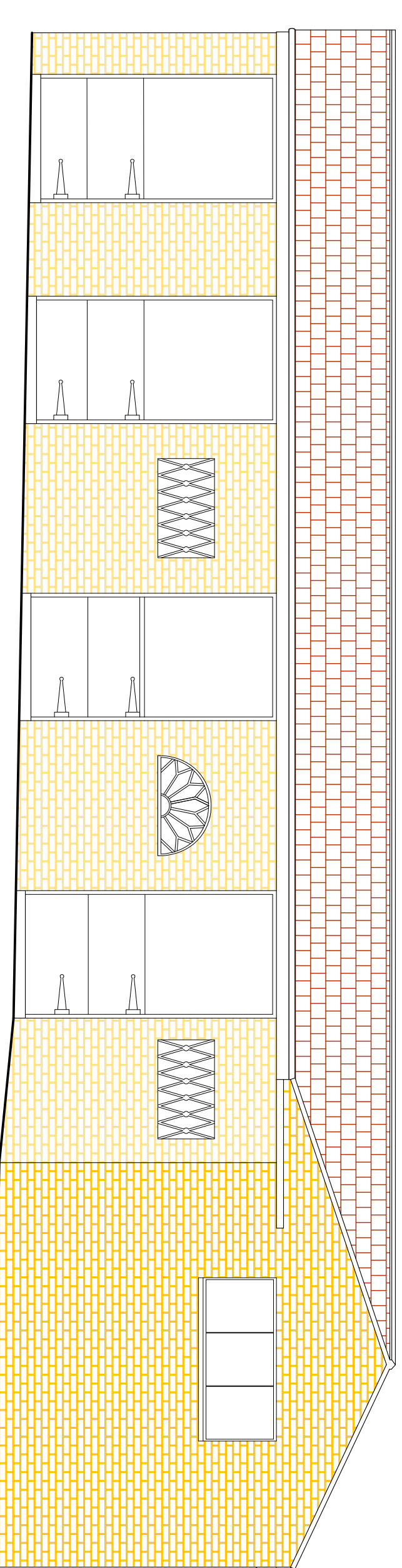
Elevation D



Elevation C

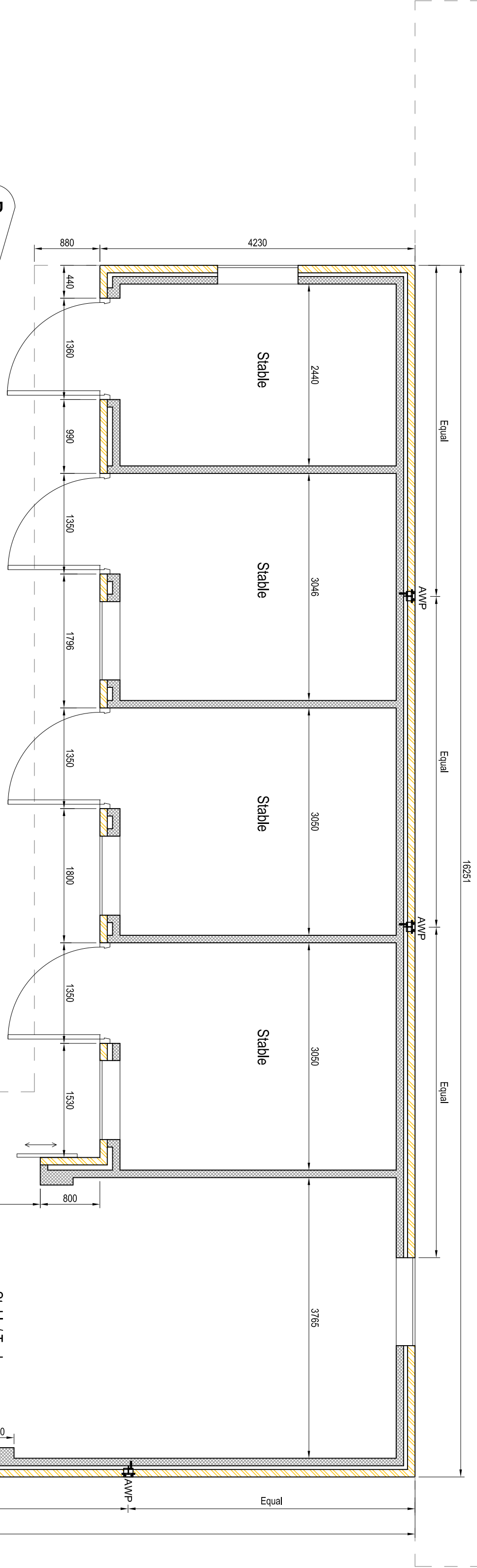


Elevation B

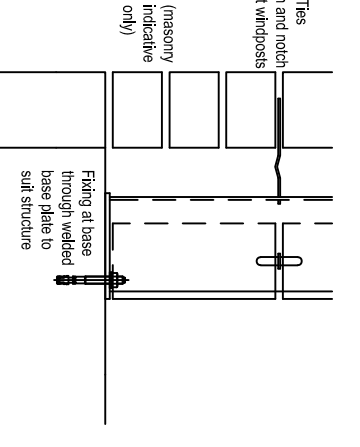
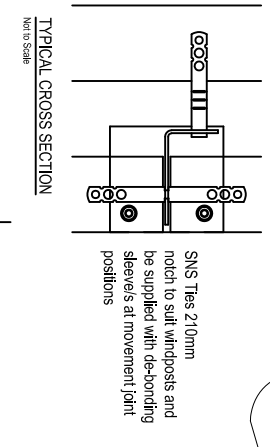


Elevation A

Lean-to to be locally reinstated where disturbed by the works, re-using existing foundations, slab and flings.



Layout Plan



Typical Foundation Section Scale 1:20

PROJECT	Demolition and Reconstruction of Stables.		
DRAWING TITLE	Proposed Layout Plan & Elevations		
INITIAL DNG DATE	March 2022	DRAWN BY	HD
SCALE	1:50	DNG SIZE	A1
REFERENCE	9034195	DNG NO.	102
		REV.	A
SITE ADDRESS	The Stable Block, The Orchards, Pallance Gate, Newport PO30 5UA		
JOB ID	Margham		
CONTRACTOR	Sedgwick		
CONTRACTOR ADDRESS	Repair Solutions Design Office, Solent House, 1460 Parkway, Whiteley, Hampshire PO15 7AF		
CONTRACTOR CONTACT	Margham		