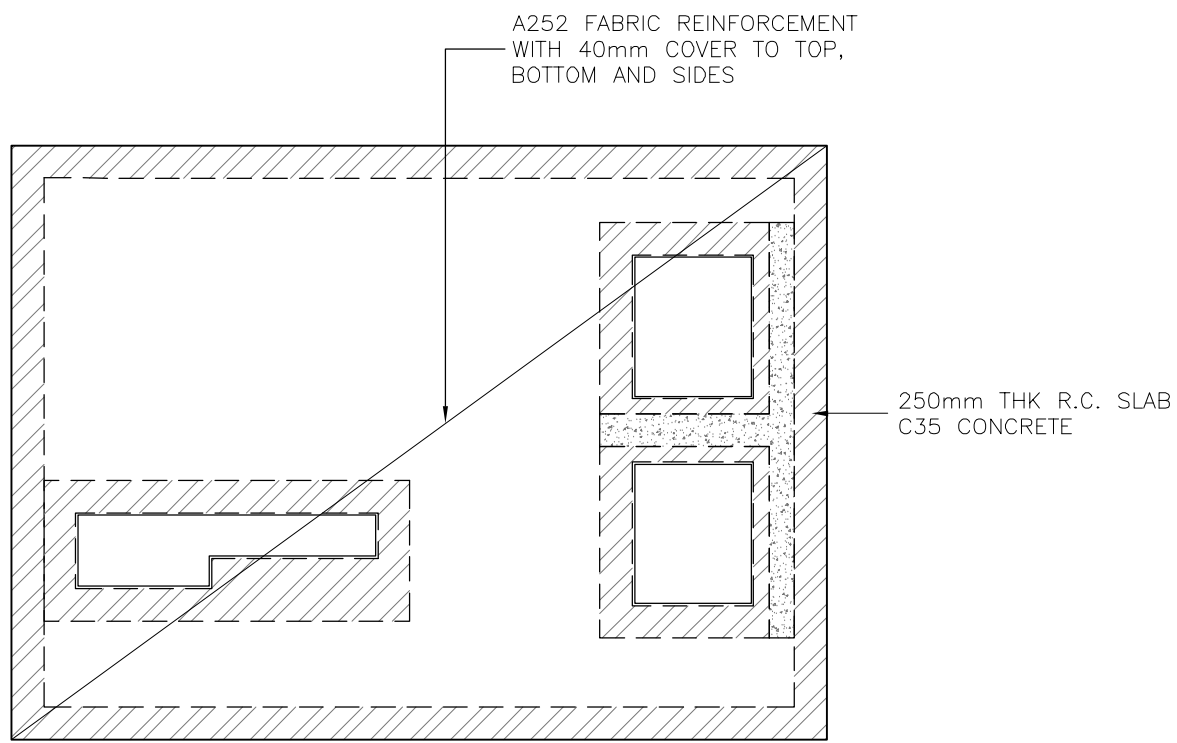
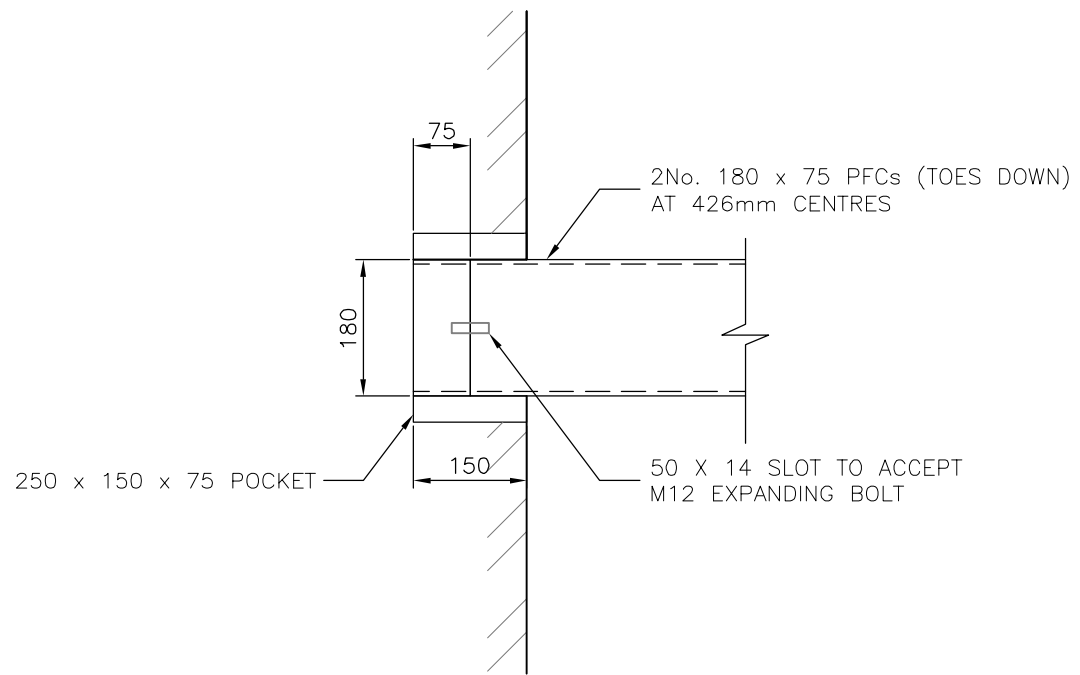


1
2
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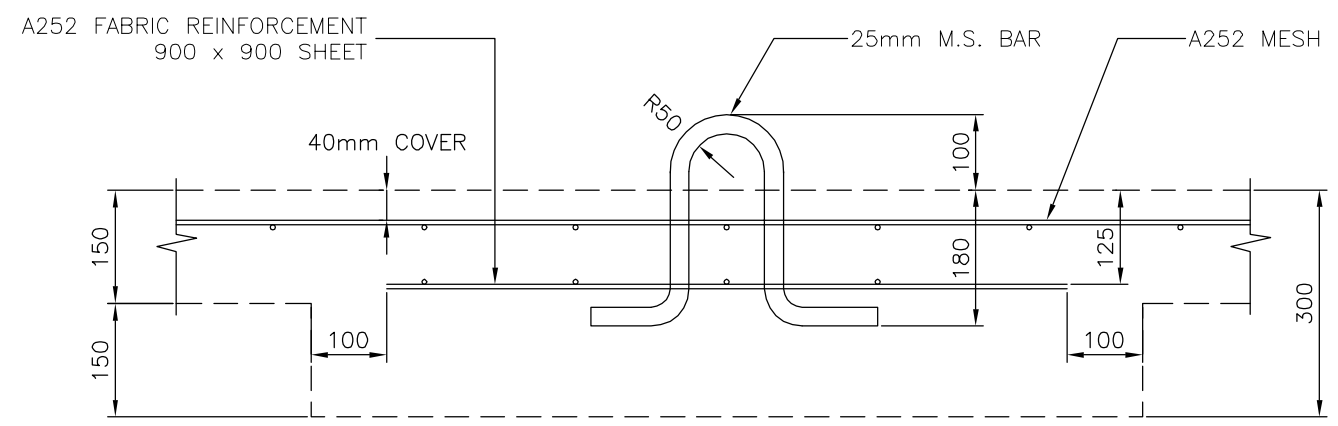
A B C D UNSUITABLE FOR SCALING E F G H



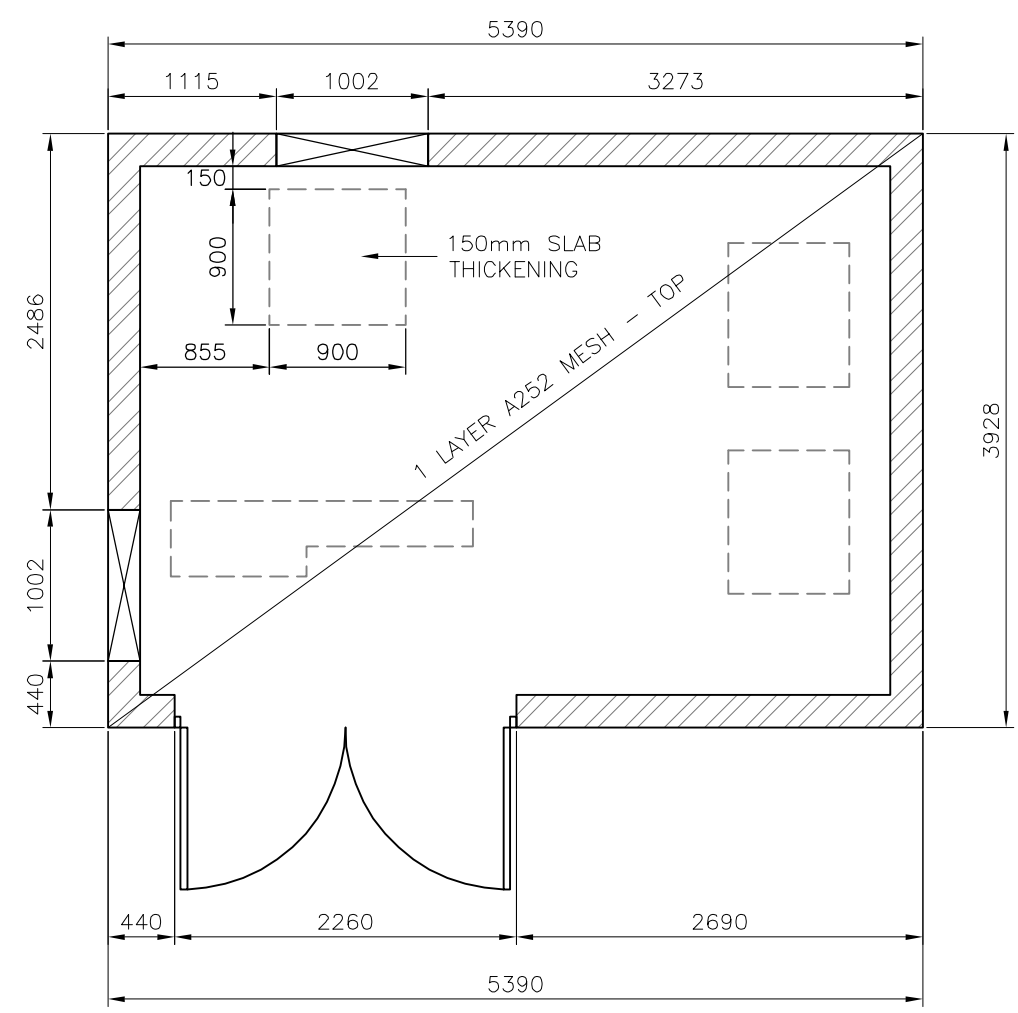
Foundation Plan
(Scale 1:50)



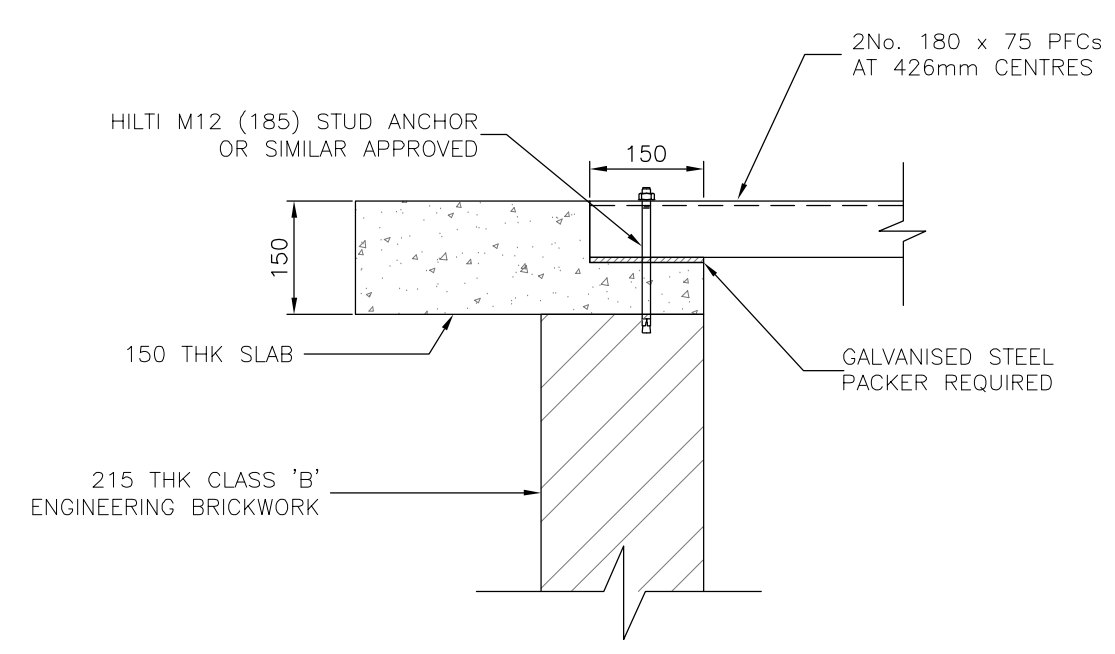
Section Plan
(Scale 1:10)



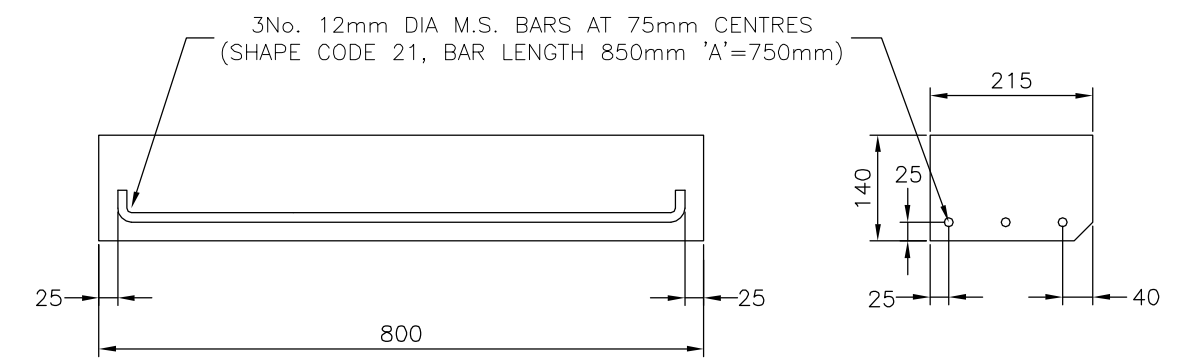
Detail of haulage eye (1No. required)
(Scale 1:10)



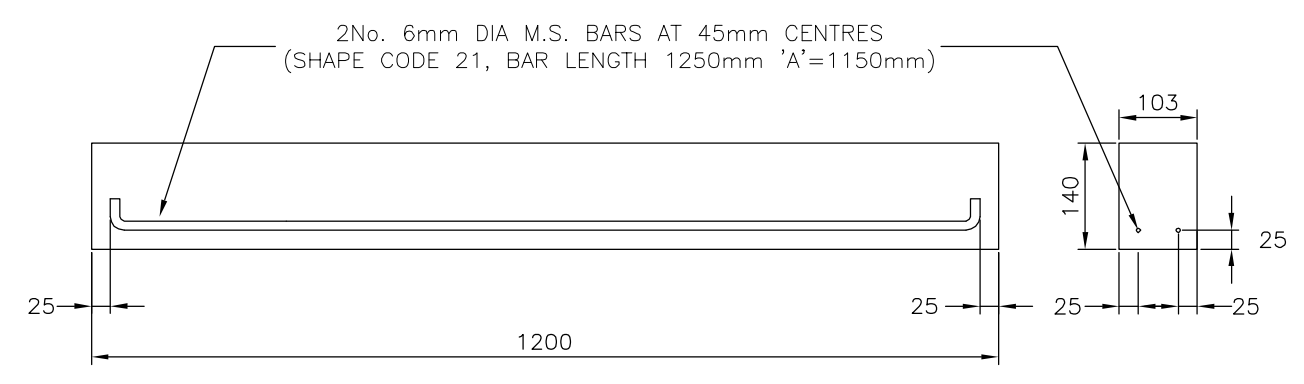
Floor Slab Plan
(Scale 1:50)



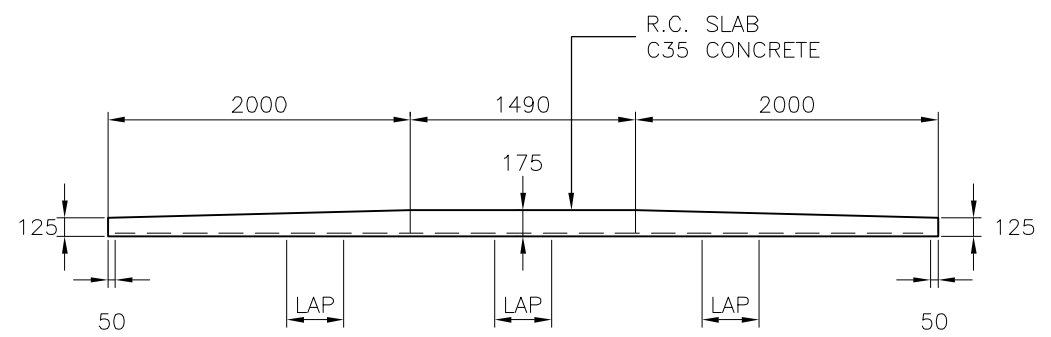
Detail 1
(Scale 1:10)



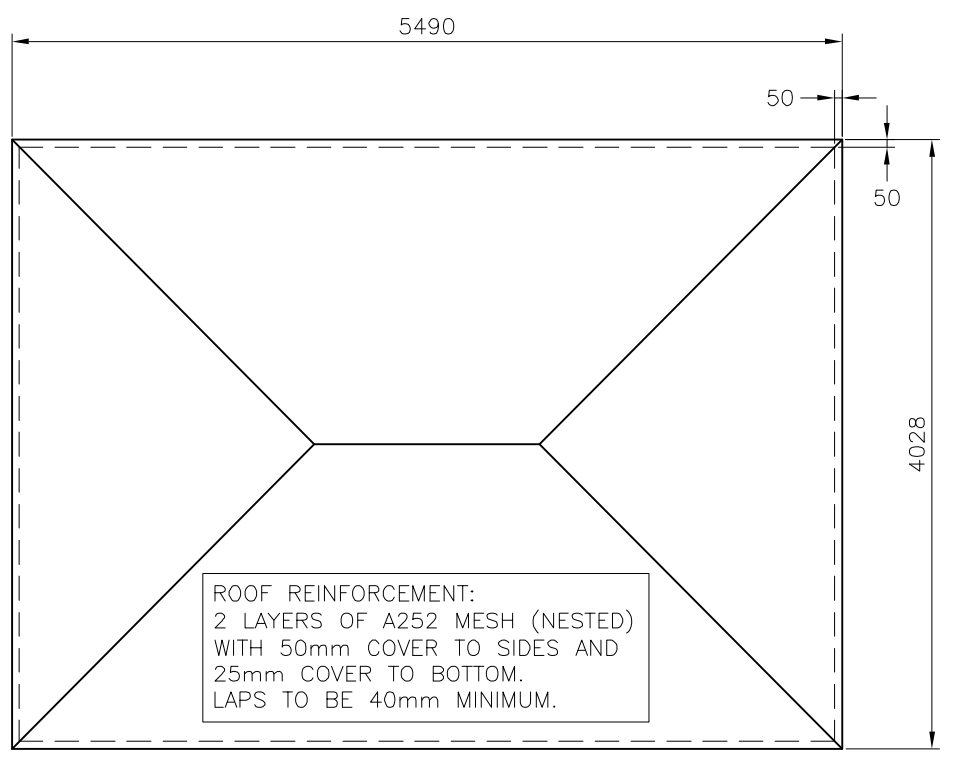
Lintel to cable slot
(Scale 1:10)



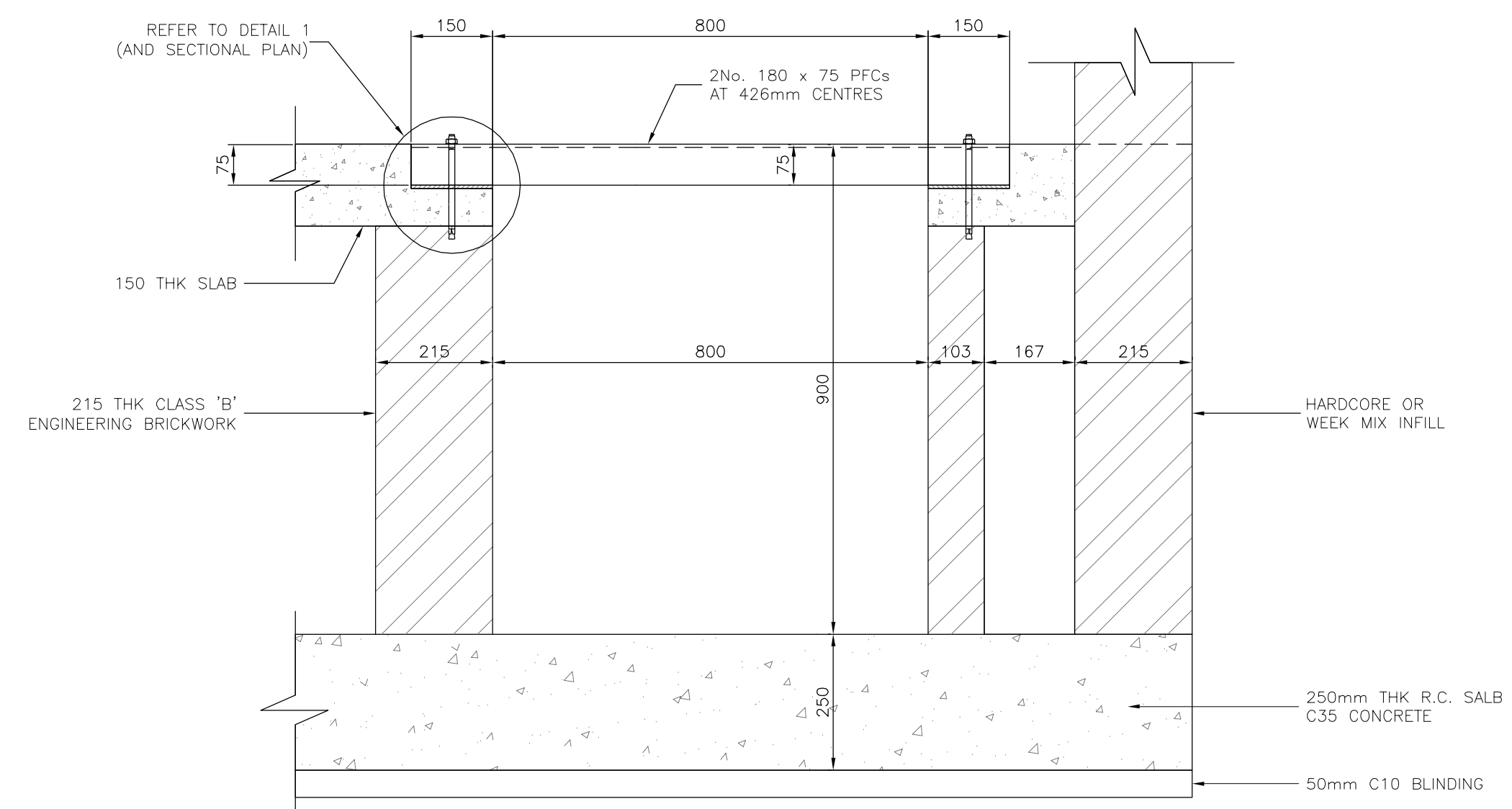
Lintel to vent opening
(Scale 1:10)



Section through roof
(Scale 1:50)



Roof Plan
(Scale 1:50)



Recess detail for switchgear support
(Scale 1:10)

1. This drawing is to be read in conjunction with all relevant architect's, engineer's and mechanical and electrical engineer's drawings, specifications etc.
2. All dimensions to be checked on site.
3. Any discrepancies, contradictions to be notified to project architect/engineer.
4. Concrete
The concrete is to be in accordance with the specification and attain the relevant cube crushing strength at 28 days.
5. Foundations (Concrete 35N/mm² 28 day cube strength).
Foundations are to be set on undisturbed organic strata that provide the required minimum design safe ground bearing capacity.
6. Floor (Concrete 35N/mm² 28 day cube strength).
A flat, level and smooth floor surface is essential for installation of plant. Tolerance to finished level expressed as a maximum permissible deviation beneath a straight edge with feet placed anywhere on the floor shall not exceed 1mm in 1M or 3mm in 3M. Floors to be cured, prepared and painted with 2No. coats of non-slip floor paint on completion.
7. Brickwork
All brickwork below D.P.C. to be H.D. category 1 min. 75N/mm² mean compressive strength and max 7% M.A. and durability designation F2 S2 (Ex-engineering brickwork class B) in english bond except for exposed faces. External facing bricks to be H.D. category 1 min. 20N/mm² mean compressive strength, maximum 12% M.A. and durability designation F1 S1 or better. Internal bricks to be fair faced smooth textured solid concrete bricks, size to match external facing bricks and with a mean compressive strength of not less than 20N/mm².
8. Walls
Leaves of collar jointed double stretcher walls to be tied together by means of 4mm min dia. stainless steel double-triangle ties (or better) laid in every 4th course at 375mm centres and set back 38mm from outer face, ties are to be staggered. Where cavity wall construction is proposed the constructor shall confirm by structural design calculation to the satisfaction of energy networks that the proposed cavity wall panel construction has equivalent lateral strength or better than that detailed on this drawing (e.g. stainless steel windposts or other stainless steel reinforcement system).
9. Roof
Internal/External faces of concrete to be fair faced. All external faces to be cured, prepared, primed and finished with a two coat high-performance (Aliphatic) polyurethane waterproofing system (flat roof grade) with glass fibre mat reinforcement to initial coat E.C.

1No. coat of LPL bonding primer the
2No. coats of LPL decathane

or equal system

All finishes to be applied strictly in accordance with the manufacturers recommendations. Where a superimposed pitched roof is proposed, the concrete sub-roof shall have a waterproof coating and provision must be made to shed rainwater from the roof slab externally in the event of a failure of the pitched roof. All proposals regarding construction of the pitched roof must be submitted to energy networks for comment before work commences.
10. Ventilation unit opening sizes for 1000kVA transformers shall be a minimum 1002 x 450mm. Typical ventilation indicated may not be adequate in certain supply conditions which might require additional or alternative ventilation arrangements.
11. Foundation and floor layout details indicated are typical for substation buildings housing indoor equipment and would not therefore be applicable to unit substation equipment of H.V. switching station layouts.

WORK REQUEST NO. WR 246915											
DEVELOPER:											
Drawn	Initials	Date	Rev	Date	Drn	Chkd	App				
Checked	GNR	27.07.12									
Approved											
Authorised											
Drawing type:			Status:								
SUBSTATION			PRELIMINARY								
Title											
X-TYPE SUBSTATION – IDNO 2 x RMU DUAL ACCESS SOKKOR SUBSTATION (2 of 2) JUNC 4, M57, KNOWSLEY SCHOOL LANE, L34 9EN											
Location KNOWSLEY											
Drawing Number					Scale						
246915-XTYPE-IDNO-02					1:50@A1						
 SP ENERGY NETWORKS			SP Network Connections Limited. Lister Drive Liverpool Merseyside L13 7HJ Telephone: 0151 2212110								

