

**DESIGN BASED RESIDUAL HAZARD**

Design based hazards are actively eliminated where possible in the design process.  
Where hazards cannot be eliminated, this symbol on the drawing with an attached note means:

1. Design based hazards exist within this project.
2. Action is required by the person supervising the work to mitigate the design hazards during construction.

**GENERAL NOTES**

**Permit:**  
This drawing is confidential and is the property of Optima Scaffold Designs LLP. No unauthorised use, copy or disclosure is to be made without written permission.  
**CDE Regulations 2007**  
The Construction (Design & Management) Regulations 2007, regulation 11 & 16, require that we issue the client owners of their duties imposed by the regulations.  
Guidance on your duties are detailed within The Construction (Design & Management) Regulations 2007.


**Basis of Design**  
This drawing has been prepared from information supplied to us by, or on behalf of the contractor, who should check that his requirements have been correctly interpreted and that all loading, dimensions, lift heights, bay sizes, erection/working requirements etc. are as required and practicable.  
This drawing has been prepared in accordance with the following:  
NASC TGD01:08 BS EN 12811-1  
BS 5975:2008-A1:2011 Code of practice for temporary works procedures and the permissible stress design of fallwork.  
BS EN 1991-1-3: 2003 Snow Loads  
BS EN 1991-1-4: 2005 Wind Actions  
All scaffolding materials forming this structure are to comply with NASC TGD001 & BS EN 12811-1.  
Scaffold tube takes as BS EN 38 type 4 'A' new condition.  
All scaffold fittings form as load-bearing class A fittings unless stated otherwise.  
All proprietary equipment must be used in accordance with the manufacturer's information.  
Scaffolding structure to be erected by competent operators in accordance with SG4-10 and Work at Height Regulations.  
Scheme to be read in conjunction with the scaffold contractors quotation, risk assessment and method statement for which the scaffold contractor is solely responsible.

**Design Levels**  
This scaffold has been designed for the following platform levels:  
1. No. L4th with a platform loading 5.0kN/m<sup>2</sup>, but capable of withstanding 15.0kN point loads  
Total No. of boarded lifts = 6th.  
**Wind Loads**  
This scaffold has been designed for the following wind load:  
Cp = 0.44 (side)  
Scaffold to be erected by competent personnel after all adverse weather conditions prior to works proceeding.  
**Working Platforms**  
All working platforms must comply with the statutory regulations at all times.  
All scaffold boards are to be restrained against uplift using proprietary fixings.  
**Foundations/Supports**  
The contractor must prepare all foundations and ensure that they are capable of taking the imposed scaffold loads without undue deflection.  
Maximum leg load = 25.0 kN.  
Where equipment is supported or suspended from an existing structure the contractor must ensure that the existing structure is adequate to safely support the imposed scaffold loads.  
**Ties**  
The contractor is responsible for ensuring the existing structure is capable of safely withstanding the scaffold tie loads.  
Tie selection should be made by the contractor using guidance from TGA.  
TGA Section Summary:  
Base Material: Anchor Types:  
Concrete: Drop-in expansion anchor, Self-tapping screws, Nylon anchors with screw-in eyes, Resin anchors.  
Brickwork & Stonework: Self-tapping screws, Self-tapping screws with resin, Nylon anchors with screw-in eyes, Resin anchors.  
Concrete Enclosure: Self-tapping screws, Nylon anchors, Resin anchors.  
Timber: Screw-in eyes, Self-tapping screws.  
Steelwork: Self-drilling & tapping screws, Bolts for hollow sections.  
Anchors should be fixed and tested in accordance with TGA.  
All ties tubes to be fixed with load-bearing couplers.  
The contractor is to ensure that no ties are removed without the approval of Optima Scaffold Designs LLP.  
Maximum anchor load = 6.1 kN (M20), 3.3 kN (M16).  
**Shoring Work**  
Optima Scaffold Designs LLP cannot and will not pass comment on the building being shored as the reviewer remains beyond our knowledge. It is the contractors responsibility to ensure that the existing structure and safety span between our supports, and can be safely shored in the way indicated.  
**Temporary Roofs**  
No temporary roof can be made watertight.  
Where ventridge or anchorage is specified on the drawing, it must be installed prior to erection of the scaffold above the 1st lift.  
For mono-pitch temporary roofs, the minimum slope angle of the roof sheeting is 5° when using CI sheets. For all roof systems the manufacturers recommendations should be followed.  
**Stranding/Ties**  
No wind protection, sheeting or fans etc. are to be added to the scaffolding structure unless otherwise stated on this drawing.  
**Handledge**  
Where a scaffold requires handledge for stability, the handledge should be placed in position prior to erection of the scaffold above the 1st lift.  
**Modifications**  
No alterations are to be made to the scaffold structure detailed on this drawing without written permission from Optima Scaffold Designs LLP.  
**Dimensions**  
Written dimensions shall take precedence over scaled dimensions.  
The contractor should verify all site dimensions and notify Optima Scaffold Designs LLP of any discrepancies.  
The contractor is responsible for accurately setting the position of the scaffold structure.

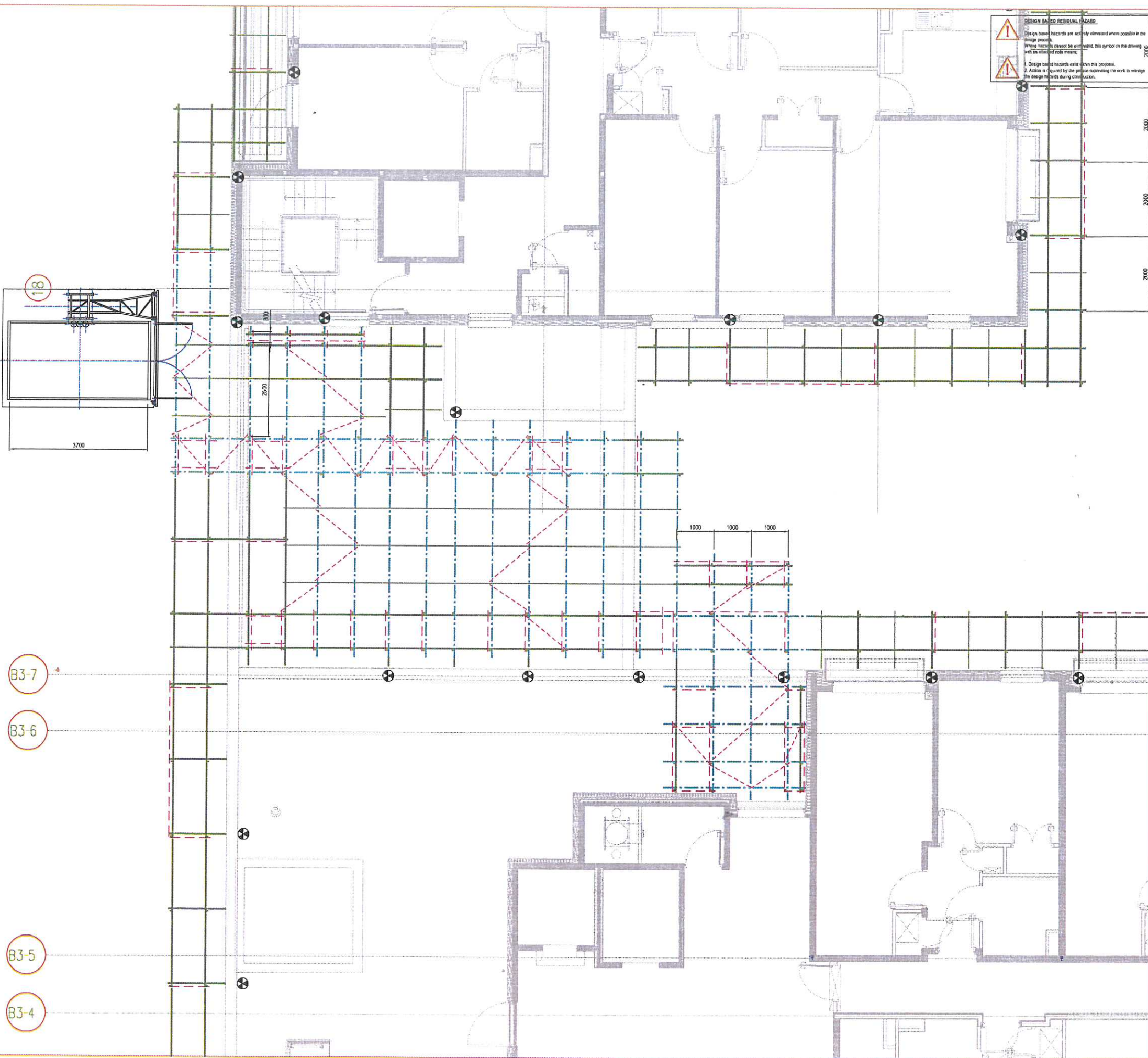


SECTION B ——— B.



Revision	Date	Description	Prepared by	Checked by
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Client: <b>BCM Scaffolding</b>				
Job Title: <b>Streatham Hub</b>				
Drawing Title: <b>Access to Residential Flats - North Elevation</b>				
Scale: 1:100	Date: 19/02/2013	Drawing Number: 12/OPT/L-338-19	Revision: -	
Prepared by: OS / DS	Checked by: KH			

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**DESIGN BASED RESIDUAL HAZARD**

Design based hazards are actively eliminated where possible in the design process.

Where hazards cannot be eliminated, this symbol on the drawing with an associated code must:

1. Design based hazards exist upon this proposal.
2. Action is required by the person supervising the work to mitigate the design hazards during construction.

**GENERAL NOTES**

**PERMITS:**  
This drawing is confidential and is the property of Optima Scaffold Designs LLP. No unauthorized use, copy or disclosure is to be made without written permission.

**CON REGULATIONS 2007:**  
The Construction (Design & Management) Regulations 2007, regulations 11 & 12, require that we make the client aware of their duties imposed by the regulations.

**Guidance on your duties are detailed within The Construction (Design & Management) Regulations 2007.**

**THIS DRAWING HAS BEEN PREPARED FROM INFORMATION SUPPLIED TO US BY, OR ON BEHALF OF THE CONTRACTOR, WHO SHOULD CHECK THAT HIS REQUIREMENTS HAVE BEEN CORRECTLY INTERPRETED AND THAT ALL DIMENSIONS, HEIGHTS, BAY SIZES, ERECTING SEQUENCES ETC. ARE AS REQUIRED AND PRACTICABLE.**

**THIS DRAWING HAS BEEN PREPARED IN ACCORDANCE WITH THE FOLLOWING:**

**Standards of Design:**  
This drawing has been prepared in accordance with the following:  
NASC TG20:08 BS EN 12811-1  
BS 5975:2006-A1:2011 Code of practice for temporary works procedures and the permissible stress design of formwork.  
BS EN 1991-1-3: 2003 Snow Loads  
BS EN 1991-1-4: 2003 Wind Actions

All scaffolding materials forming the structure are to comply with NASC TG20:08 & BS EN 12811-1.

Scaffold loads shall be as BS EN 12811-1:2003 'as used' condition.

All scaffold fittings shall be as load bearing class A fittings unless stated otherwise.

All proprietary equipment must be used in accordance with the manufacturer's information.

Scaffolding structure to be erected by competent operatives in accordance with SGE 10 and Work at Height Regulations.

Scheme to be read in conjunction with the scaffold contractors quotation, risk assessment and method statement for which the scaffold contractor is totally responsible.

**Detail Limits:**  
This scaffold has been designed for the following platform loads:  
1 No. Lits with blanket loading: 5.0kN/m<sup>2</sup>, but capable of withstanding 15.0kN pallet loads  
Total No. of boarded lits = five

**Wind Loads:**  
This scaffold has been designed for the following wind load:  
Qp = 0.448 kN/m<sup>2</sup>

**Working Platform:**  
Scaffold to be erected by competent personnel after all adverse weather conditions prior to works proceeding.

All working platforms must comply with the statutory regulations at all times.

All scaffold boards are to be restrained against uplift using proprietary frangs.

**Foundations/Supports:**  
The contractor must prepare all foundations and ensure that they are capable of taking the imposed scaffold loads without undue deflection.

Maximum leg load = 25.0 kN  
Where equipment is supported or suspended from an existing structure the contractor must ensure that the existing structure is adequate to safely support the imposed scaffold loads.

**TIE:**  
The contractor is responsible for ensuring the existing structure is capable of safely withstanding the scaffold tie loads.  
Tie selection should be made by the contractor using guidance from TGA.

**TGA Selection Summary:**

Base Material:	Anchor Types:
Concrete:	Drop-in expansion anchor, Self-tapping screws, Nylon anchors with screw-in eyes, Resin anchors.
Brickwork & Blockwork:	Self-tapping screws, Self-tapping screws with resin, Nylon anchors with screw-in eyes, Resin anchors.
Concrete Blockwork:	Self-tapping screws, Nylon anchors, Resin anchors.
Tiebar:	Screw-in eyes, Self-tapping screws.
Steelwork:	Self-tapping & tapping screws, Bolts for rafter sections.

Anchors should be fixed and tested in accordance with TGA.  
All tie wires to be fixed with end-bearing couplers.

The contractor is to ensure that no ties are removed without the approval of Optima Scaffold Designs LLP.

Maximum anchor load = 6.1 kN Pull-Out, 0.3 kN Shear.

**Shoring/Walks:**  
Optima Scaffold Designs LLP cannot and will not pass comment on the building being shored as this involves matters beyond our knowledge. It is the contractor's responsibility to ensure that the existing structure will safely span between our supports, and can be safely shored in the way indicated.

**Temporary Works:**  
No temporary roof can be made watertight.  
When kerledge or anchorage is specified on the drawing, it must be installed prior to erection of the scaffold above the 1st fl.  
For mono-pitch temporary roofs, the minimum slope angle of the roof sheeting is 5° when using CI sheets. For all roof systems the manufacturer's recommendations should be followed.

**Sheeting/Fans:**  
No wind protection, sheeting or fans etc. are to be added to the scaffolding structure unless otherwise stated on this drawing.

**Kerledge:**  
Where a scaffold requires kerledge for stability, the kerledge should be placed in position prior to erection of the scaffold above the 1st fl.

**Modifications:**  
No alterations are to be made to the scaffold structure detailed on this drawing without written permission from Optima Scaffold Designs LLP.

**Dimensions:**  
Written dimensions shall take precedence over scaled dimensions.  
The contractor should verify all site dimensions and notify Optima Scaffold Designs LLP of any discrepancies.  
The contractor is responsible for accurately setting the position of the scaffold structure.

**APPROVAL DRAWING**

Revision	Date	Description	Prepared by	Checked by
B	15/02	Scale & building changed. Additional beams added	OS / DS	CH
A	15/02	Updated	OS	CH

**OPTIMA**  
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Frame Size = ISO A1 Min x 594mm

Client: **BCM Scaffolding**

Job Title: **Streatham Hub**

Drawing Title: **Access to Residential Flats - Plan View**

Scale: **1:150** Date: **07/02/2013** Drawing Number: **12/OPT/L-338-14** Revision: **B**

Prepared by: **OS / DS** Checked by: **KH**