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Martin Brennan

08.02.17

Scaffolding Information Sharing
Skill Requirements
Getting it Right First Time

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Working Group established to develop a system for managing hop up movements on site.

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John Forster (Chair)	Chairman	Forster Group
Maureen Douglas (NT)	HR Director	Forster Group
Neil McIvor	Construction Director	Forster Group
Deryck Schendel	Health & Safety	Taylor Wimpey
Jim Stewart	Construction Safety Specialist	CMIST
Scott Reid	SHE Advisor	Miller
Frank Gibb	Operations Manager	Pyreoy
Ron Sutherland	Construction Manager	A J Stephens
Steve Foley	Health & Safety	Avant
Andy Borland	Construction Manager	Bellway
Kevin Dineen	Area Construction Manager	Bett
Steven Shiells	Area Construction Manager	Bett
Colin Black	Health & Safety Manager	Oregon
Martin Brennan	Health & Safety Manager	Cala

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What Information should be Provided to your Scaffold Companies

Site Topography Information

Site Layout Drawing

Gable Spacing Information

Specific Section Drawings

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NOTE : COMMERCIAL & TECHNICAL DEPARTMENTS USE REFERENCE BELOW FOR GABLE SPACING REQUIREMENTS

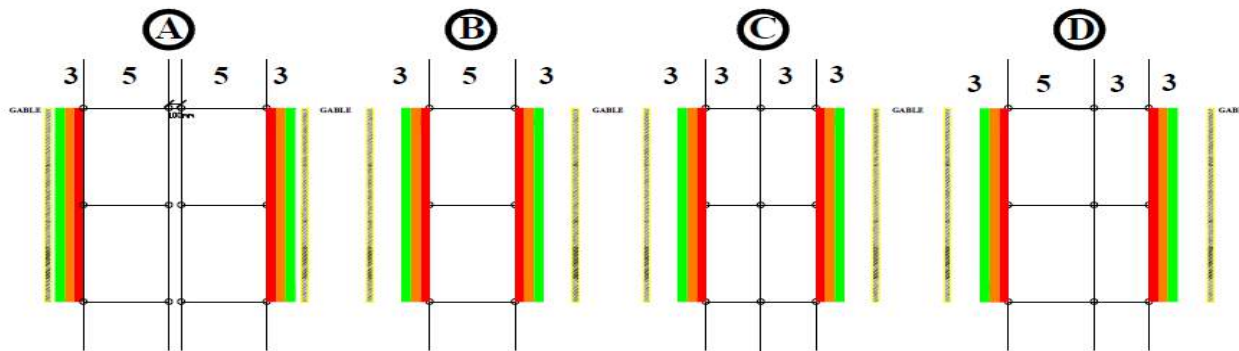
KWIK STAGE	A = 3.67m	B = 2.32m	C = 2.63m	D = 3.10m
CUPLOK	A = 3.91m	B = 2.50m	C = 2.81m	D = 3.31m

KWIK STAGE GABLE REQUIREMENTS

0.81 TRANSOM 1=250mm HOPUP
1.28 TRANSOM 2=500mm HOPUP
3=725mm HOPUP

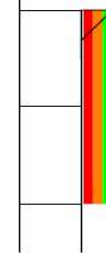
CUPLOK STAGE GABLE REQUIREMENTS

0.81 TRANSOM 1=260mm HOPUP
1.31 TRANSOM 2=585mm HOPUP
3=815mm HOPUP



KWIK STAGE	A = 3.99m	B = 2.64m	C = 2.95m	D = 3.42m
CUPLOK	A = 4.23m	B = 2.82m	C = 3.13m	D = 3.63m

HOP UP DETAIL



100mm Spacing Required From Hop Up To Kit

3BOARD HOP UP FOR TIMBER KIT
2BOARD HOP UP FOR BRICK LAYERS
1BOARD HOP UP + HAND RAIL SYSTEM FOR ROUGHCASTERS

NOTE : 3 BOARD SCAFFOLDS DO NOT PROVIDE SUFFICIENT ROOM FOR ADEQUATE ACCESS & ARE NOT CLASSED AS AN ADEQUATE WORKING PLATFORM



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SEE I
SORT
REPORT

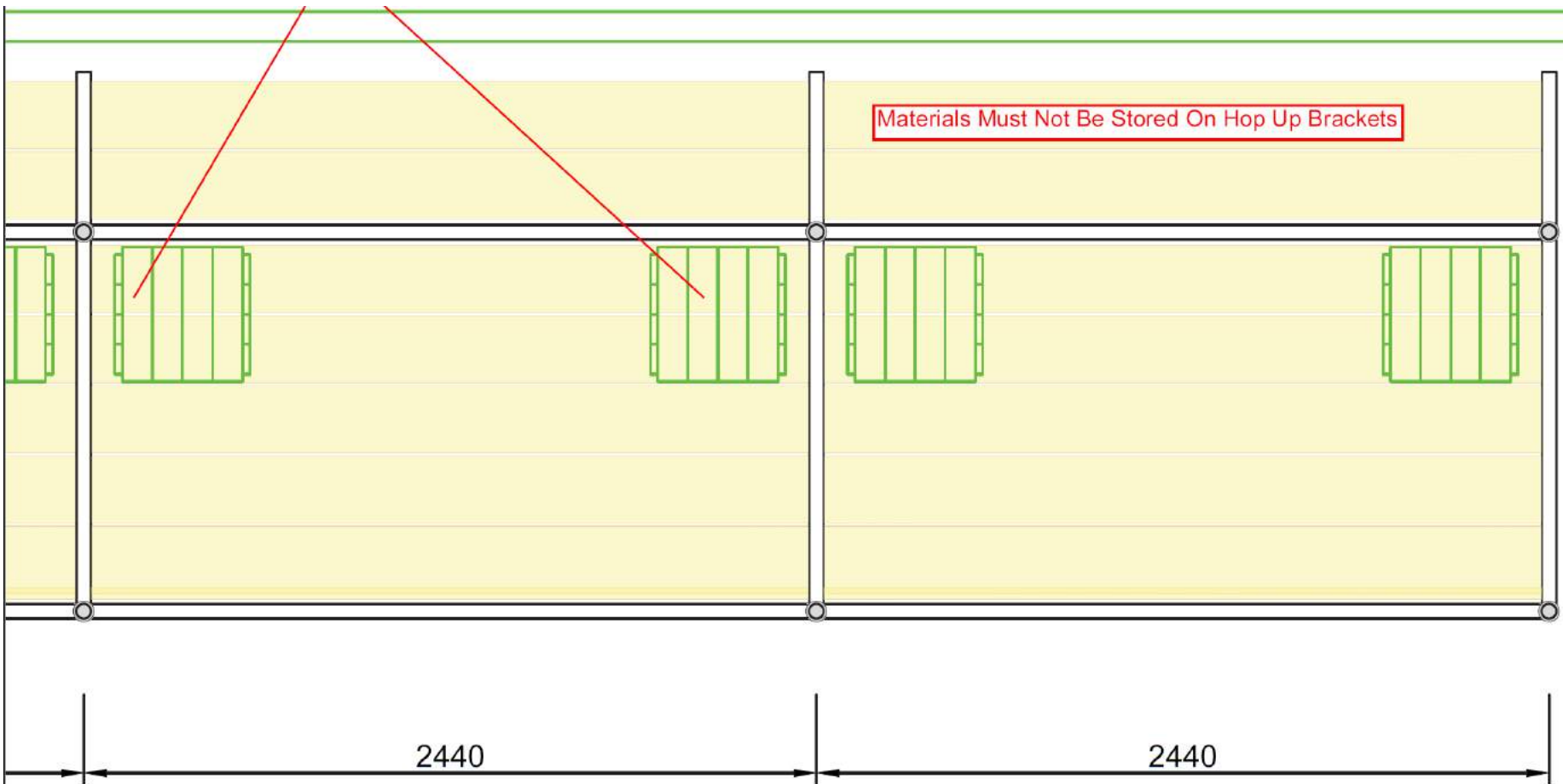
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Working Platform Safe Working Loads

Scaffold Handover Certificates
Must Stipulate SWL

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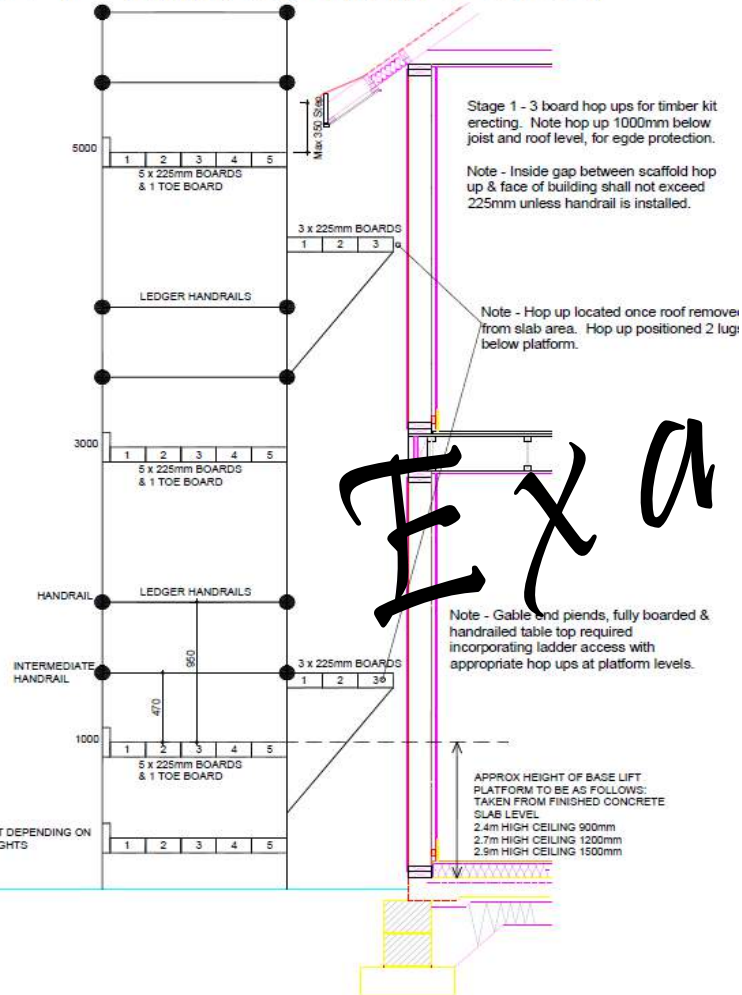
Scaffold Hop Up Management Challenges

HOP UP MANAGEMENT CONTROL

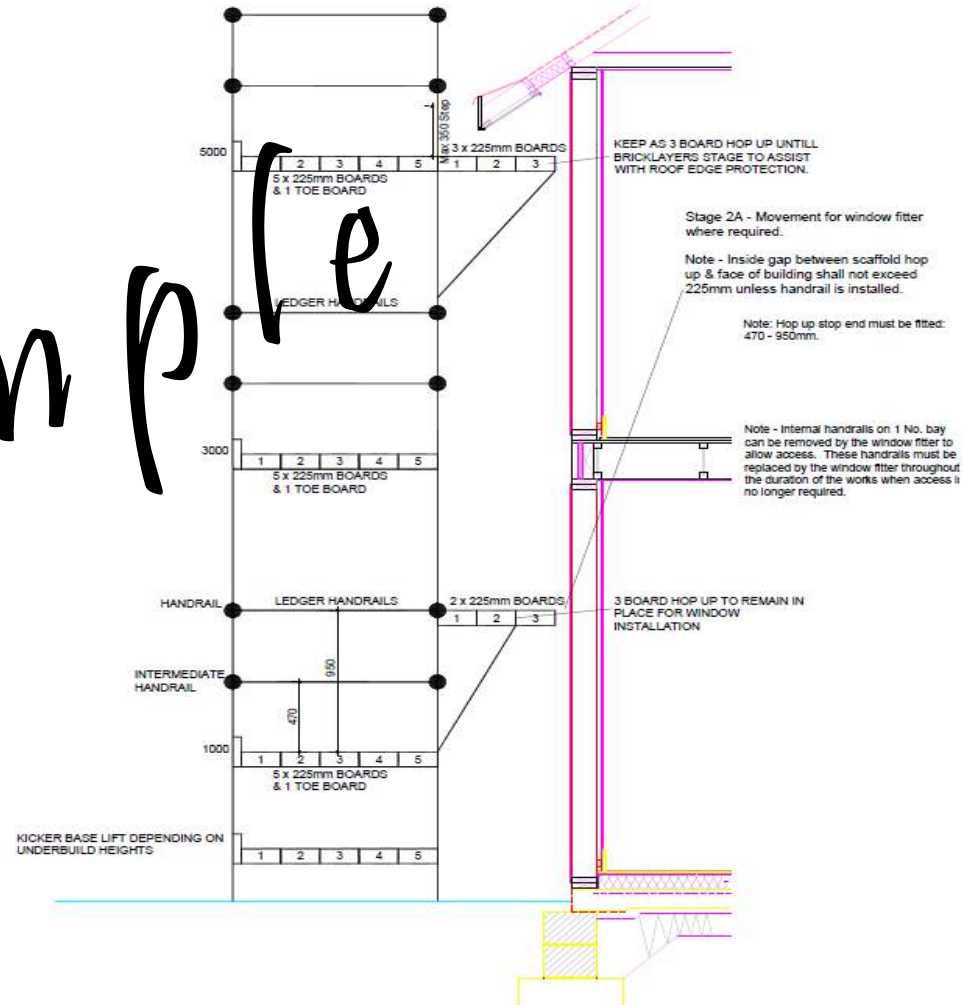
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STAGE 1 - TIMBER FRAME ERECT



STAGE 2 - WINDOW INSTALLATION

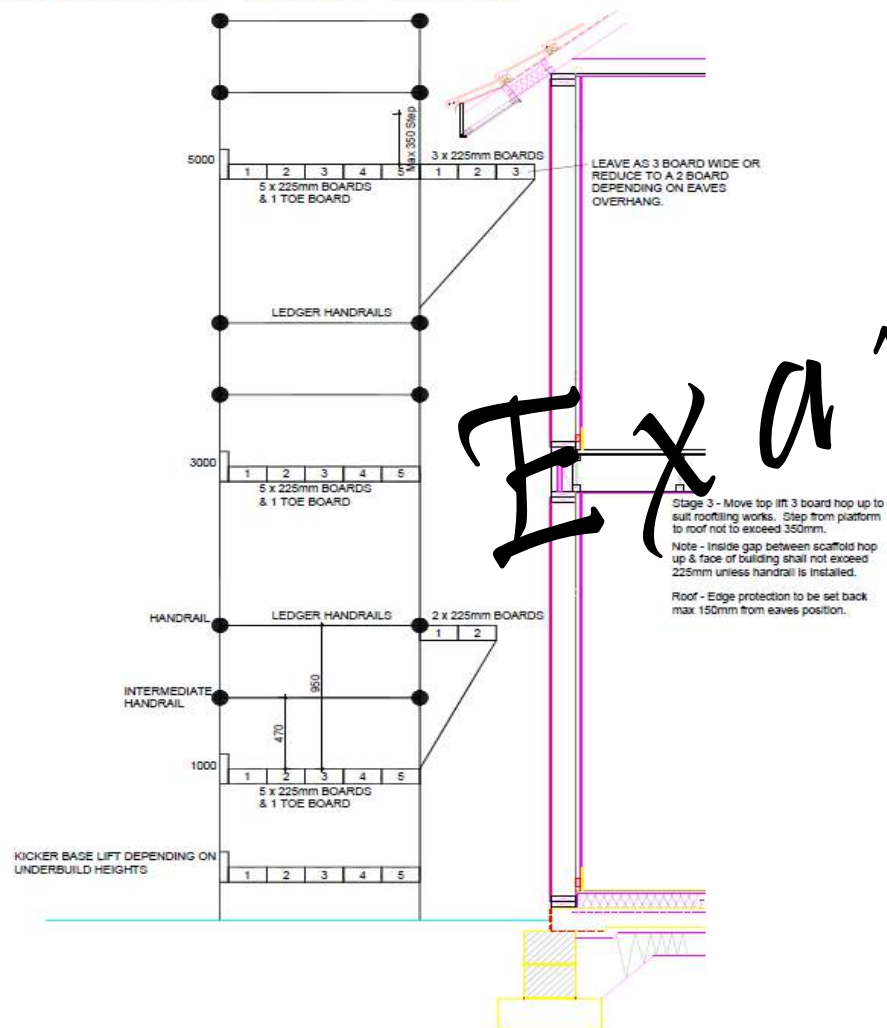


Example

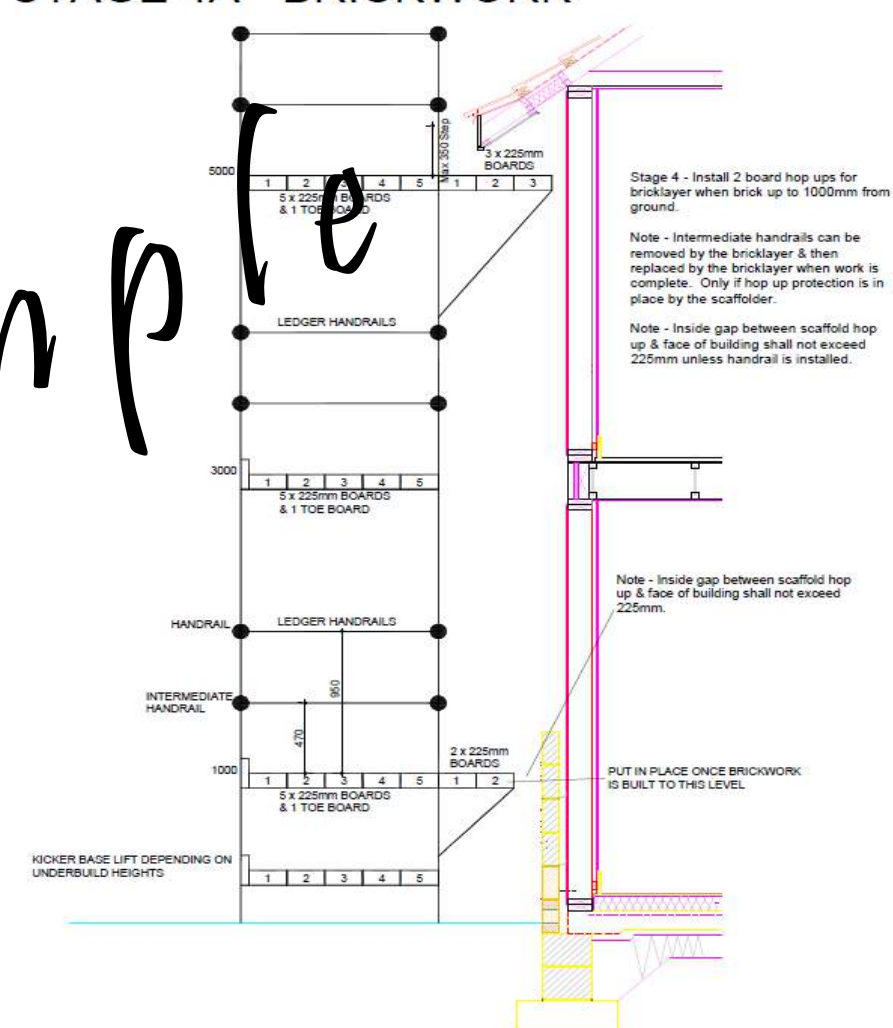
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STAGE 3 - ROOFTILER



STAGE 4A - BRICKWORK

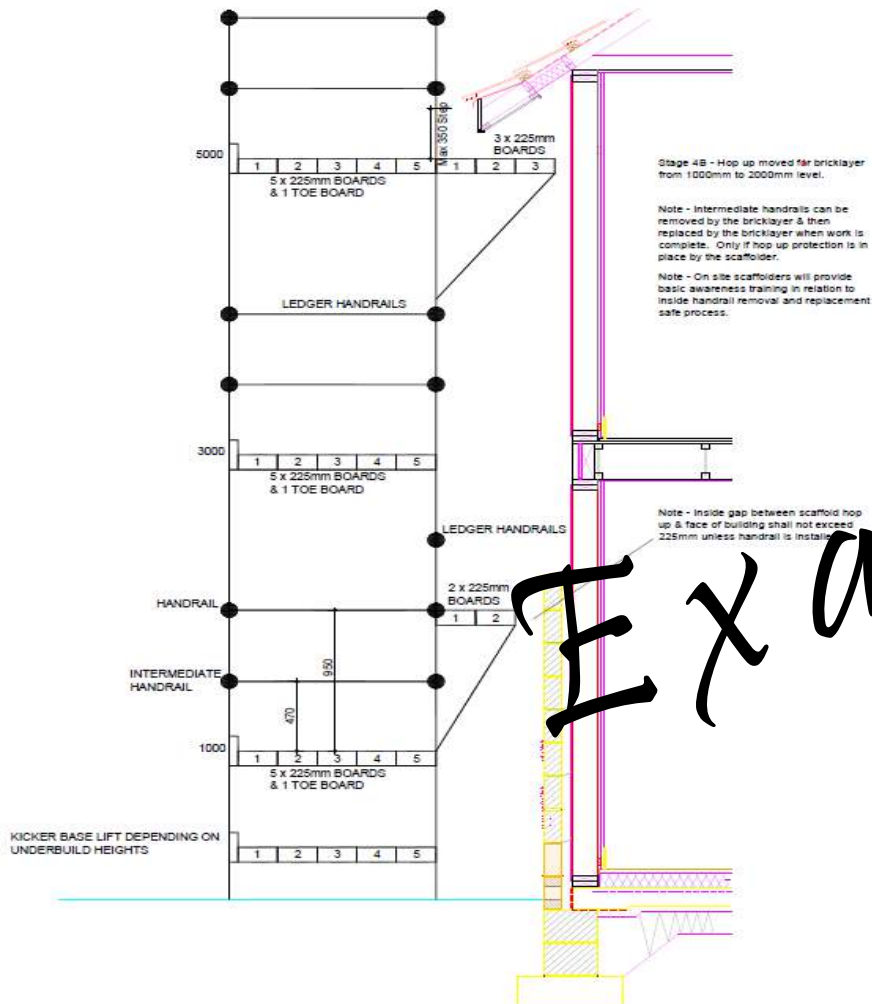


Example

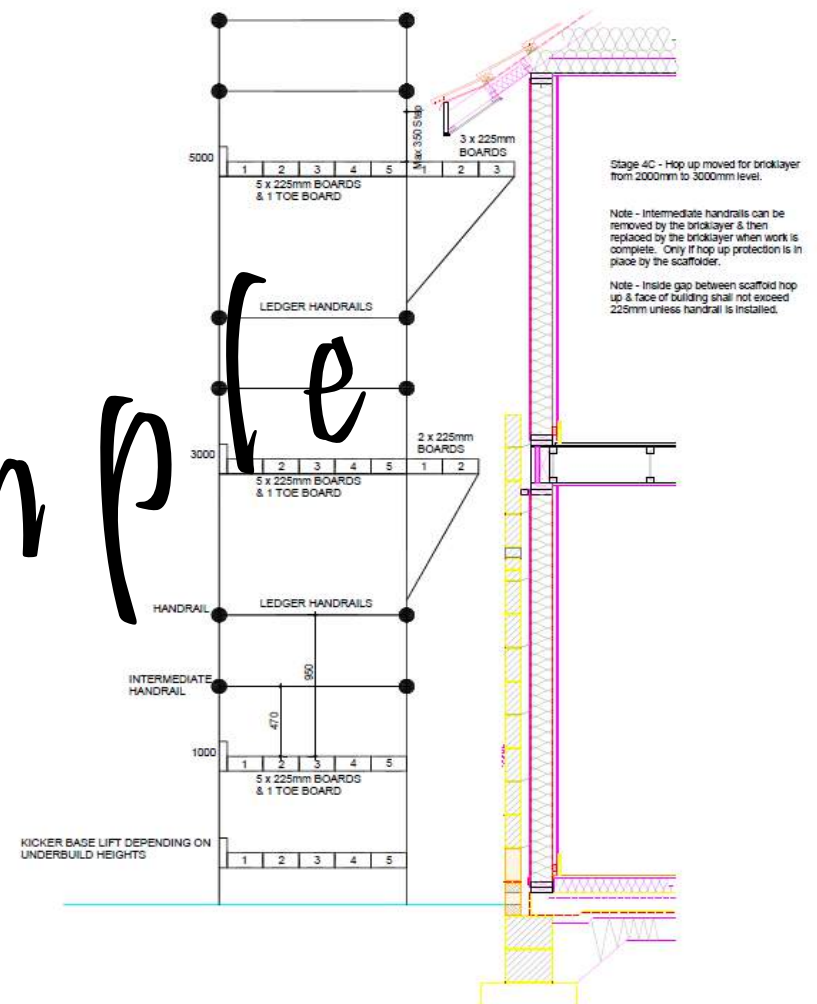
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STAGE 4B - BRICKLAYER



STAGE 4C - BRICKLAYER



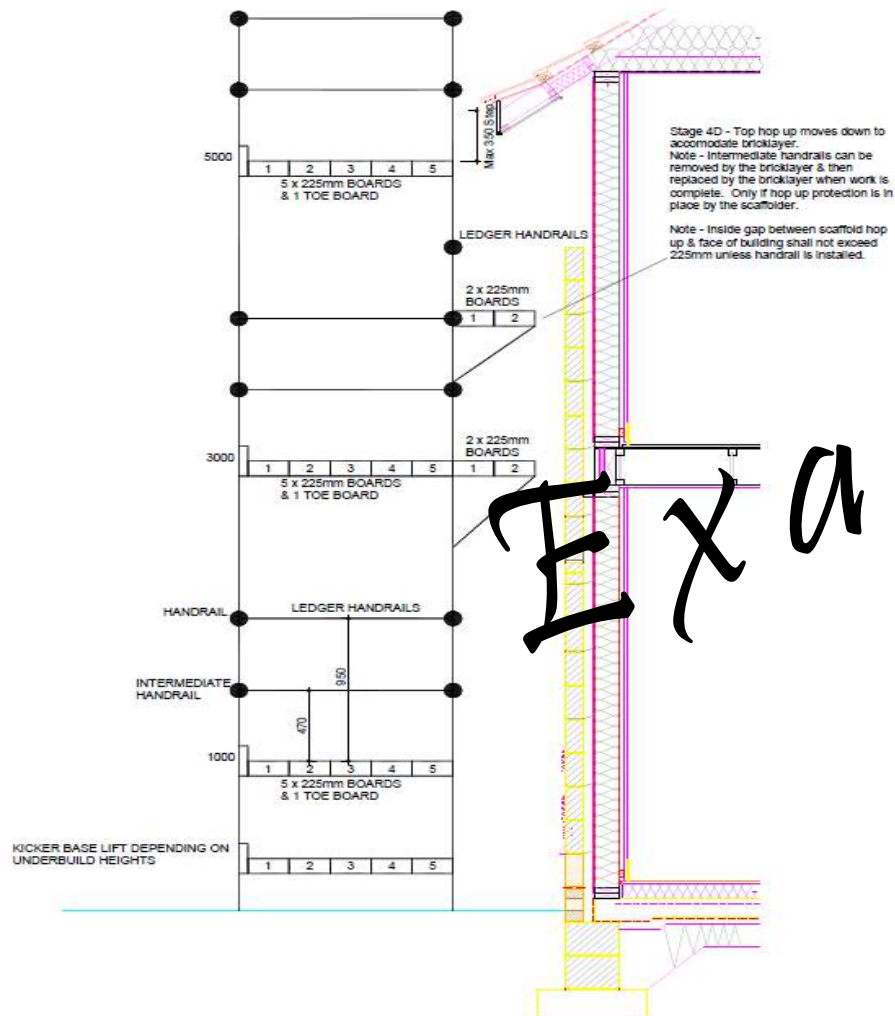
Example

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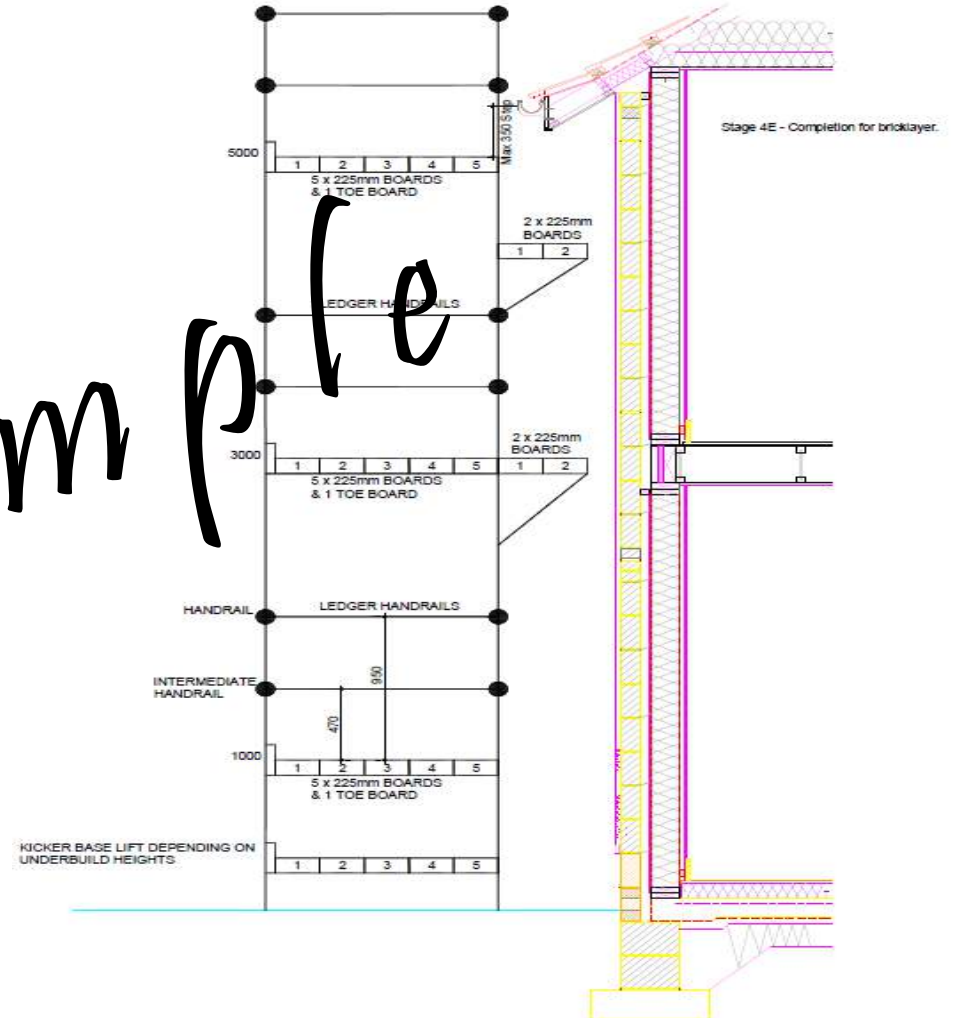


STAGE 4D - BRICKLAYER

STAGE 4E - BRICKLAYER



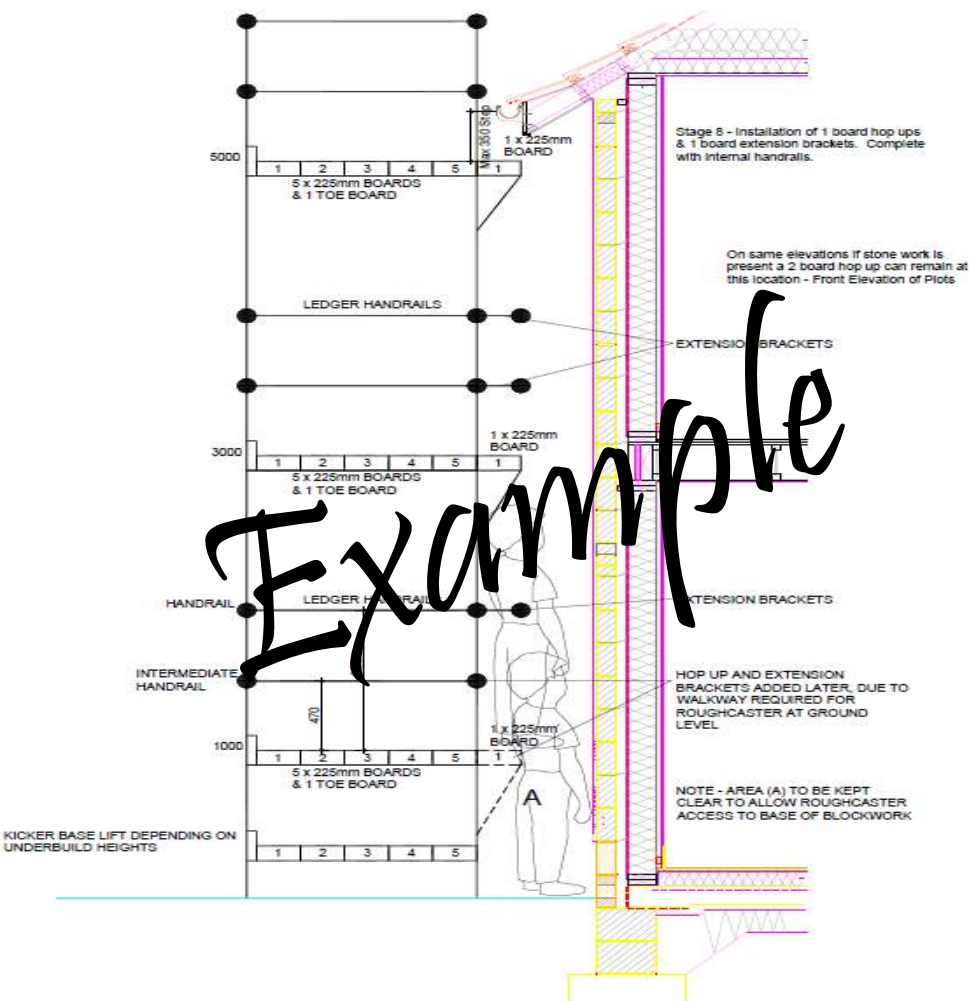
Example



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STAGE 5 - ROUGHCASTER



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How Do You Manage and Control
your Hop Up Movements?

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CALA HOMES SUMMARY STAGE BRACKET PLACEMENTS & ADJUSTMENTS

Plot no:.....

House Type:.....

On-hire date:.....

Off-hire date:.....

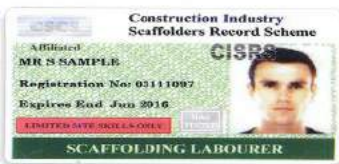
Description	Nr Stage moves	Date carried out	SVO/HOC NO	EXECUTED BY	CHECKED BY
STAGE 1 PLACEMENT 3 BOARD STAGE BRACKETS	LEVEL 1				
	LEVEL 2				
STAGE 3 Roofer move	LEVEL 3				
STAGE 2 Change 3-2 boards this should be carried out at window fitter stage	LEVEL 1				
	LEVEL 2				
Stage 4 Bricklayer moves	LEVEL 1 STAGE A				
	LEVEL 1.5 STAGE B				
	LEVEL 2 STAGE C				
	LVEL 2.5 STAGE D				
STAGE 5 2-1 boards Render	LEVEL 1				
	LEVEL 2				

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Scaffolder Skill Requirements

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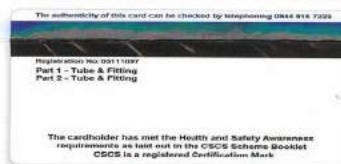


Scaffolding Labourer

The holder of this card can only carry out labouring duties, in support of scaffolding operations.

If working off the ground they must do so from a completed, fully boarded and double guard railed section of the scaffold platform.

They must not erect, dismantle or alter scaffold structures in anyway.



Trainee Scaffolder

The holder of this card is currently undergoing the completion of CISRS training and assessment. They are entitled to work as part of a scaffold gang under the direct supervision of a CISRS Scaffolder or Advanced Scaffolder.

NOTE an operative is considered a Trainee until they have completed Part 1 and 2 training, S/NVQ Level 2, CISRS assessment/skills test and a recognised Health and Safety test.

Look on the rear of the card to discover training carried out by the card holder and their route to qualification.

Part 1 and 2 courses can be completed in either tube and fitting or systems scaffold. Make sure the card held reflects the equipment the holder is using.



Scaffolder

The holder of this card has successfully reached Scaffolder status, this enables him to lead or partake in scaffolding operations covered by his training and assessment, including Independents, towers, birdcages, fans, gantry, beam work etc.

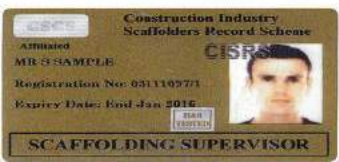
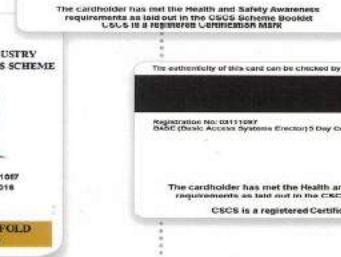
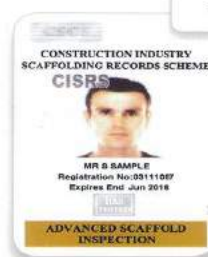
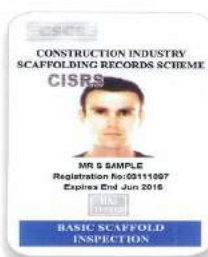
Scaffolders who have qualified via the tube and fitting route can attend Systems Scaffold Product Training Scheme (SSPTS) 2 day courses, and have these qualifications endorsed on the rear of the card. Check the rear of the card to confirm that they have received training in the system they are using.

Scaffolders who qualified via a systems route e.g. Part 1 Cuplok, Part 2 Cuplok are only eligible to work with that particular system unless they undergo further training.



Advanced Scaffolder

The holder of this card has successfully reached Advanced Scaffolder status, this enables him to lead or partake in all types Basic and Complex scaffolding operations including but not restricted to suspended scaffolds, temporary roofs, support structures.



Scaffolding Supervisor

The holder of this card has successfully completed the CISRS 5 Day Supervisors course, the content is similar to SMSTS (Site Manager Safety Training Scheme) but scaffold specific and covers Health and Safety Legislation, Performance standards, Employment basics, Supervisory Skills, Commercial essentials. Delegates are required to sit a written test on each subject and also submit a project which contributes to the overall assessment.

Scaffold Inspection

The holder of the **Basic Scaffold Inspection** card is qualified to carry out statutory inspections of Basic structures, independent scaffolds, scaffold towers, birdcage scaffolds etc.

The **Advanced Scaffold Inspection** card allows the holder to carry out statutory inspections on both basic and complex structures e.g. suspended scaffolds, temporary roofs etc.

Basic Access Systems Erector (Base)

This is a limited skills card for non scaffolding operatives who may be required to erect dismantle or alter simple system scaffold structures.

There are limitations on height, type of structure, location and system used. Any Tube and Fitting scaffold or systems structures outside of those covered in the BASE course must be carried out by a CISRS qualified Scaffolder.

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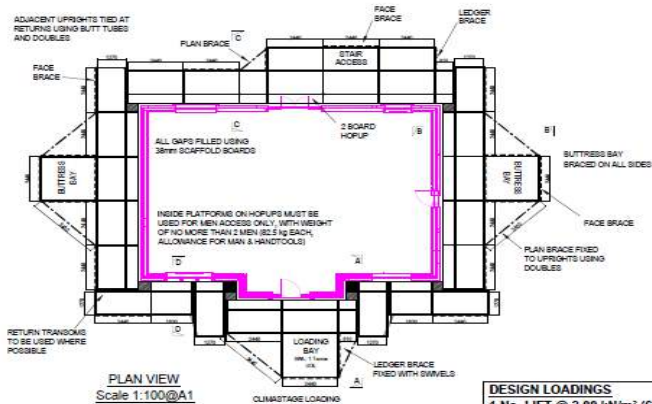
Typical Scaffold Design Layout

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PRELIMINARY DESIGN
BAY SIZES AND ARRANGEMENT MAY VARY DUE TO SITE CONDITIONS AND CLIENT'S REQUIREMENT. PLEASE CONTACT HIGHLAND TEMPORARY WORKS LTD FOR FURTHER DETAILS 07527 135487. ENGINEERING ADVICE MUST BE SOUGHT PRIOR TO ANY ALTERATIONS.

NOTES:

- DUE TO UNFORESEEN SITE CIRCUMSTANCES, THE SCAFFOLD ERECTED MAY DIFFER FROM THAT NOTED. IF IN ANY DOUBT CONTACT HIGHLAND TEMPORARY WORKS TO DISCUSS.
- ALL ALLOWABLE LOADS AND DETAILS ARE BASED ON THE USE OF EQUIPMENT WITH SWL RATINGS IN ACCORDANCE WITH GENUINE KIMSTAGE COMPONENTS.
- CLIENT TO ENSURE FIRM & LEVEL BASES CAPABLE OF SAFELY SUPPORTING LOAD FROM SCAFFOLD WITHOUT UNDEIR SETTLEMENT OR DEFLECTION.
- BUTTRESS & LOADING BAY TO BE ERECTED IN ACCORDANCE WITH EQUIPMENT USER MANUAL.
- ALL SCAFFOLD MATERIALS TO COMPLY WITH BS 1139.

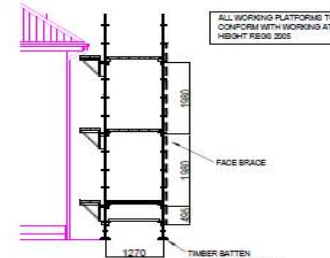
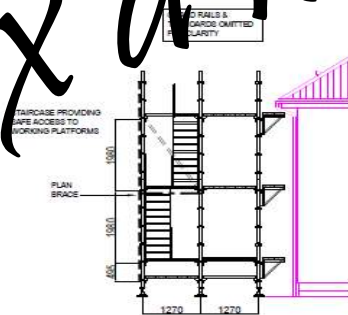
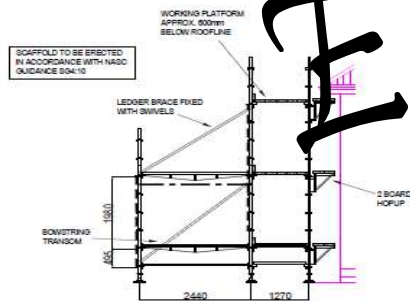
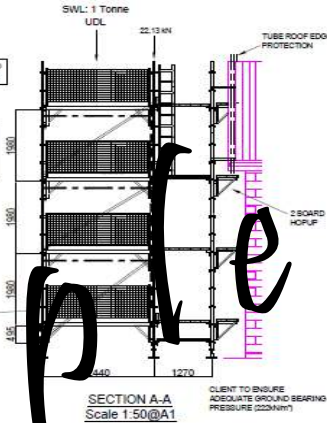


DESIGN LOADINGS

- 1 No. LIFT @ 2.00 kN/m² (632 kg UDL 2.44m bay) plus
- 1 No. LIFT ABOVE OR BELOW 2.44m bay
- 2.44m bay
- 316 kg UDL

ONLY 2 No. PLATFORMS TO BE LOADED AT ONE TIME

BRICK GUARD PANELS & LOADING BAY GATES WITH UPRIGHT RESTRAINT REQUIRED ON ALL WORKING LIFTS



GENERAL NOTES:

- This drawing is confidential and the exclusive property of Highland Temporary Works Ltd. No unauthorised use, copy or disclosure is to be made and it is to be returned upon request.
- Construct in full compliance with BS EN 12811-1 (2003) unless noted otherwise. Scaffold to be erected and dismantled in accordance with HSE guidance S04-10.
- Scaffold built from tubular materials and fittings conforming to BS 1139 - 1982 or type 4 tube to BS EN 36. All tube must be in 'no new condition'.
- Scaffold built with load bearing fittings, except intermediate bearers below platform level and boards fixed with non-load bearing fittings. All fittings to be torqued to 50 Nm.
- This drawing has been prepared from details supplied to us by the client, who should check that we have correctly interpreted their requirements and that all loadings, dimensions, details, erection and striking sequences are correct and practicable. No alteration in the loading may be made without prior reference.
- The client is to prepare and ensure that any foundations/supports are suitable for supporting the loads imposed upon it by scaffold including its working load.
- No shoring, netting or signage whatsoever, unless already shown, should be added to the scaffold without prior reference.
- It is the responsibility of the client/employer to ensure that adequate facilities for tying the scaffold are made available and that the building or structure is capable of withstanding the loads applied to it by the scaffold and its working load.
- No ties or braces to be removed or any modifications to be made to the scaffold without prior reference.
- The employer/client will be responsible for setting out and final levelling of scaffolding or similar equipment used as a system support.
- All dimensions are as stated or as calculated.
- This drawing has been prepared on the assumption that all loads will be applied axially to the tubes unless specifically stated.
- Wind loading taken in accordance with BS EN 1991-1-4:2005

DESIGN LOADS:

THIS SCAFFOLD HAS BEEN DESIGNED FOR THE FOLLOWING:-
1 NO. LIFTS @ 2.00 kN/m²
1 NO. LIFTS @ 1.00 kN/m²

THE CLIENT MUST ENSURE THAT NO LOADS IMPOSED ARE GREATER THAN THE ALLOWABLE STATED LOADS
MAX. LBD LOAD = 22.13 kN
22 kN/m² GROUND BEARING

THE SCAFFOLD STRUCTURE DETAILED ON THIS DRAWING HAS BEEN DESIGNED TO BE ERECTED USING ONLY MATERIALS SUPPLIED OR APPROVED BY HIGHLAND TEMP. WORKS LTD

CDM REGULATIONS 2007

THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2007, REGULATIONS 11 & 13 REQUIRE THAT WE MAKE OUR CUSTOMERS AWARE OF THEIR DUTIES IMPOSED BY THE REGULATIONS. GUIDANCE ON YOUR DUTIES IS PUBLISHED BY THE HSE IN THE FORM OF AN APPROVED CODE OF PRACTICE.



PRELIMINARY DRAWING
FOR QUOTATION PURPOSES

KIMSTAGE ACCESS SCAFFOLD MADRAE HOUSE TYPE MORRIS, CULTER	
GEORGE MOIR SCAFFOLDING	
HIGHLAND Temporary Works Ltd	
Richard Taylor (Mr) BEng (1st) Hons) MSc A: 228 Longman Drive Inverness RH1 1SL M: 07527 135487 E: info@hscscaffolding.co.uk	
AS SHOWN	18/10/12
PLANNED	08
H78-0423-002	
P1	

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Training Trades to Operate Loading Bay Gates Correctly

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Lapped Boards How Do You Secure Them?







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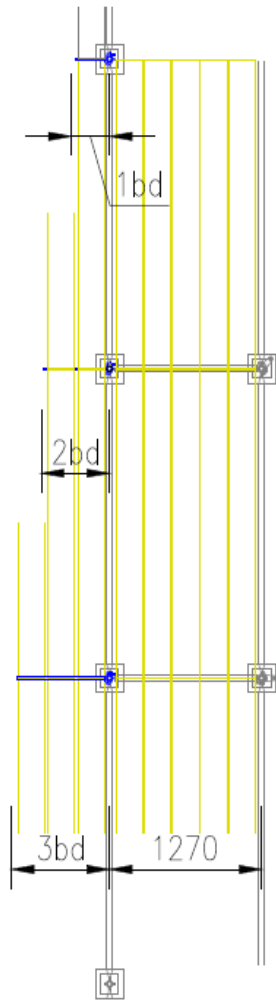


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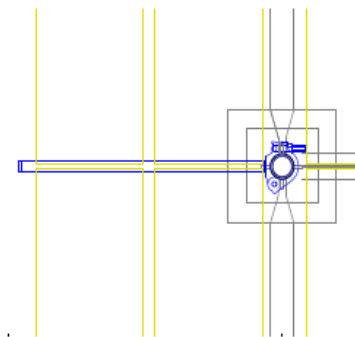


This drawing details the proposed use of these brackets only
It does not guarantee the strength or efficacy of the proposed brackets
Such guarantees should be supplied by the designer and/or manufacturer 

DESIGN BASED RESIDUAL RISK
 
The designer shall ensure that the proposed brackets are used in accordance with the design and construction details.
 
The designer shall ensure that the proposed brackets are used in accordance with the design and construction details.
 

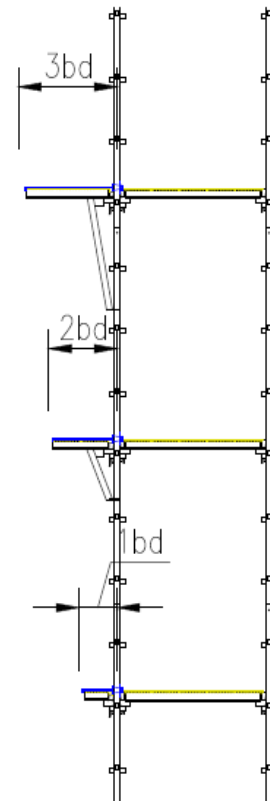
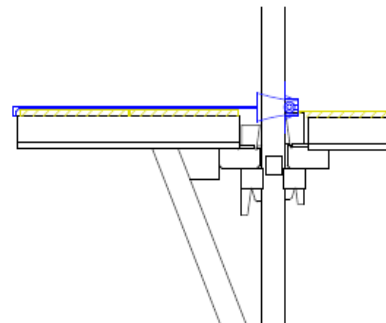


Typical Plan Detail



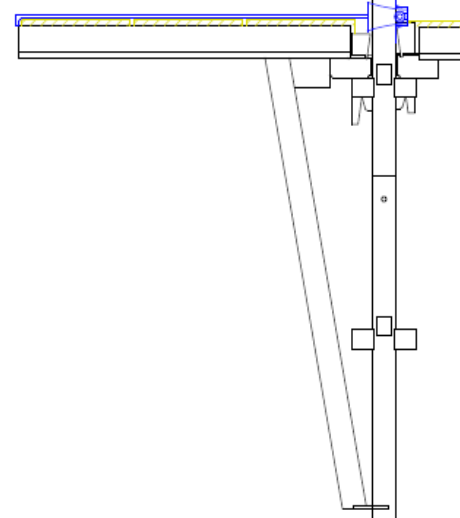
2 Board Bracket Plan Detail
1 & 3 board brackets similar scale 1:5

2 Board Bracket Detail scale 1:5

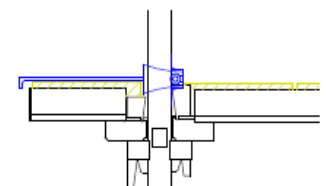


Typical Section
Showing 1, 2 & 3bd brackets scale 1:20

3 Board Bracket Detail scale 1:5



1 Board Bracket Detail scale 1:5



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Guidance for Setting Scaffold Structures off at the Correct Height

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SCAFFOLD SET OFF HEIGHTS FROM CONCRETE FLOOR SLAB FOR ALL HOUSE TYPES WITH 2.4MTR, 2.7MTR AND 2.9MTR.

Specific House Types with **2.4 metre Ceiling Heights**, scaffold to be set off at **900mm** from concrete floor slab.

Allan = Arthur = Avon = Bargower = Barrie = Blair = Bryce = Cleland = Colville = Crathie
= Crichton Darroch = Dewar = Elliot

Specific House Types with **2.7 metre Ceiling Heights**, scaffold to be set off at **1200mm** from concrete floor slab.

Garvie = Kennedy = Laird = Lewis = Logan = Lowther = Macrae = Melville = Moncrief
= Ramsay = Ranald = Roxburgh = Waverley

Specific House Types with **2.9 metre Ceiling Heights**, scaffold to be set off at **1500mm** from concrete floor slab.

Westbrooke

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SHB

Scottish House Builders
Health & Safety Forum



CALA
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Any Questions?

