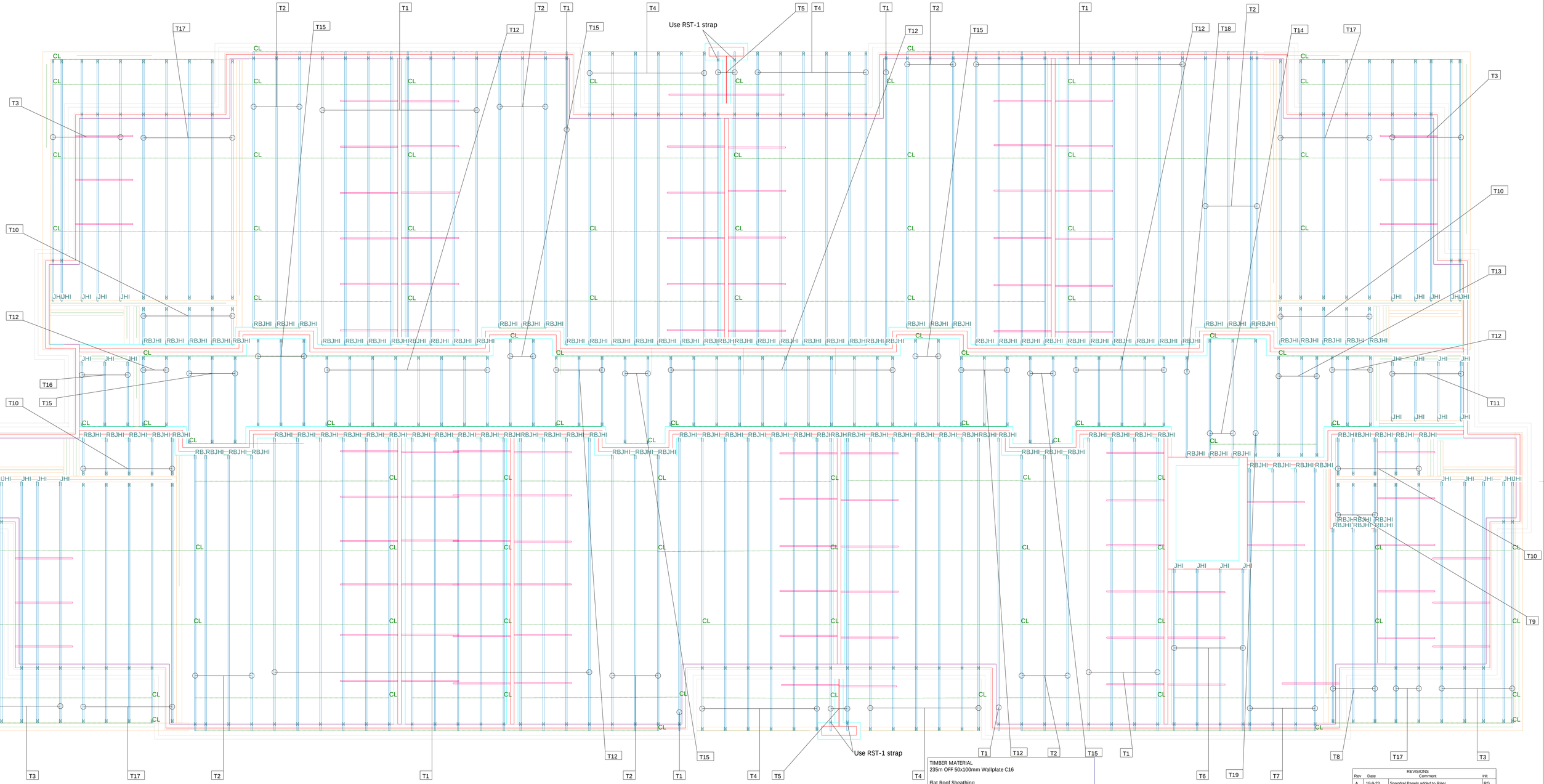
WOLF SYSTEMS LTD
WolfPlan 5.47

BLOCK B - CEILING TIE LEVEL

Wyckham Blackwell
timber engineering
Since 1884



1. This drawing is to be read in conjunction with all Architect's, Engineer's and Wyckham Blackwell drawings, specifications and standard details.

2. It is assumed that the work will be carried out and supervised by experienced, competent personnel and that exhaustive detail is not required.

3. The full specification for each Trussed Rafter's design is shown on the Trussed Rafter profile and calculation sheets, which are to be read in conjunction with this drawing.

4. Section of sizes of timber are generally nominal.

5.Multi-ply girders are factory nailed unless specifically requested otherwise. We do not advocate site fixing of multi ply girder trusses.

6. Wind Bracing - wind bracing systems are not designed to provide restraint to the walls underneath the roof. The walls below the trusses are assumed to be totally self supporting. Unless specifically noted otherwise the bracing systems shown on this drawing have been designed to provide stability to the trusses only.

Rafter Diagonal (RD) .....
Rafter Longitudinal (RL) —·—·—
C / Tie Longitudinal (CL) – – – – –
C / Tie Diagonal (CD) – – – – –
Web Diagonal (WD) ———
Web Longitudinal (WL) ———
TB - Tee Brace

All Bracing members should be 25x100 unless noted otherwise and are to be nailed with 2No. 3.5mm dia. x75mm long galvanised round wire nails to every Trussed Rafter they cross. Lap joints may be provided, the overlap to be nailed to at least two Trussed Rafters.

N.B For Clarity, Web and Tee braces may only appear on profile dwgs.

Buckling restraint - tiling battens, fixed at current standards, should be provided at no more than 400mm centres. Special attention should be given where tiling battens are not normally installed e.g under valleys.

Trussed Rafters to be securely fixed to the wallplate with Truss Clips for singles and Framing Anchors for multiply trusses. In the event of uplift or potential spread being critical, alternative fixings may be required.

Unless noted otherwise, it is assumed that all gable and party walls will be provided with restraint straps at 2 metre centres max. Solid timber noggings should be fixed under the straps, between each truss and the wall, in accordance with good building practice.

TRUSSES MAY NOT BE NOTCHED, DRILLED OR CUT WITH THE EXCEPTION OF OVERHANGS, WITHOUT THE EXPRESS PERMISSION OF THE ROOF TRUSS MANUFACTURE.

ALL 22X100mm WIND BRACING MUST BE INSTALLED AS SHOWN ON THIS DRAWING AND AS SHOWN ON THE RELEVANT TRUSS PROFILE. ALL WEB LONGITUDINAL BRACES, WEB CHEVRON BRACES AND WEB DIAGONAL BRACES MUST BE INSTALLED AS SHOWN ON PROFILE DRAWINGS. ANY QUERIES, PLEASE ASK

TIMBER MATERIAL
235m OFF 50x100mm Wallplate C16

Flat Roof Sheathing
75 sheets OFF 18mm x 2400mm x 1200mm Plywood

Timber ledger to Party Spandrel Panel
34 lengths OFF 47x72x4200 TR26

Strap Noggins
70 lengths OFF 35x97x3600 TR26

Chimney loose Rafters
Jack Rafters : 35x 97 T26
10 lengths OFF 35x97x3300 TR26

Lift Shaft Loose Rafters
Jack Rafters : 35x 97 T26
Purlins 35x122 T26
6 lengths OFF 35x97x3600 TR26
1 length OFF 35x122x3000 TR26

METALWORK
TC38 35O OFF 38mm Truss Clip. (TC-38)
JHI 35 OFF 39mm JHI 300. (JHI-39-300)
T6x4 T3x20 T11x8 T16x3
RBJHI 125 OFF 39mm RB-JHI 300 (no masonry above). (RB-JHI-39-300)
T1x41 T2x23 T4x24 T5x4 T7x4 T8x3 T9x3 T10x20
T13x1 T14x2
RST 4 OFF 100mm High Load Truss Clip. (RST-1)
T5x4
PFS 120 OFF 1500/100 Pre-Formed Strap. (PFS-1500-100 B)
PFS 115 OFF 1200 Flat Strap (PFS-1200-F)
VRS 130 OFF 900/100 Vertical Restraint Strap (VRS 900/100)

BLOCK B - BRACING LENGTHS
RAFTER 1170 metres
CEILING TIE 613 metres
WEB 636 metres
TOTAL 2419 metres

SUPPLIED 2450lm OF 22x100 BRACING TIMBER

ROOF PROFILE OUTSIDE SCOPE OF
PD 6693-1 STANDARD BRACING

THIS INFORMATION IS SUPPLIED IN GOOD FAITH BUT WITHOUT LIABILITY. IT IS THE BUILDING DESIGNERS RESPONSIBILITY TO ENSURE THE STABILITY OF THE OVERALL STRUCTURE.

Truss overhangs left long to allow tolerance on site

Design Loads
Rafter Dead: 685N/m²
Snow: 671N/m²
Ceiling Tie Dead: 250N/m²
Ceiling Tie Live: 250N/m²
Standard Water Tank 230ltr

No allowance for Solar Panels
No allowance for Hoist Load
No allowance for wind post load

REVISIONS			
Rev	Date	Comment	Init
A	18-9-23	Spandrel Panels added to Riser walls. T17, T18 and T19 added Issued For Construction	RG
B	25-10-23		RG

Construction

WYCKHAM BLACKWELL - TIMBER ENGINEERING,Tel 01675 442233,Fax 01675 442227

SITE :Granville Care Village, Donnington Telford

LOADS:Tiles=685 N/m2 Snow=671 N/m2

SPACING :600mm

Drawn : Ranjit Gill

Checked :

DATE : 25-10-2023

PROJECT : BLOCK B

DRG NO : 74490 CEILING TIE LEVEL [BL B