





TABLE OF CONTENTS

REVISION HISTORY

Revision	Description	Date	Ву	Checked
P1	Initial Issue	22/02/2021	TMD	TMD
P2	Reissued for Planning	03/03/2021	TMD	JE

CONTENTS

1.0 Introduction

2.0 Existing Site

3.0 Observations

4.0 Conclusions

5.0 Proposed Structural Scheme



1.0 Introduction

Symmetrys have been instructed on behalf of the building owner, H Company 6 Limited, to undertake the structural engineering design of 67 Charlotte Street, W1T 4PH. This report highlights the existing condition of the structure and then goes on to summarise the proposed structural interventions and how these interface with the existing retained structure.

Symmetrys visited site on the following dates:

- 9th December 2020;
- 13th January 2021, and;
- 3rd February 2021.

2.0 Existing Site

- 2.1 67 Charlotte street is a five-storey terrace property with a single storey of basement. A single storey rear extension to the rear of the property covers the majority of the site.
- The building appears to have been constructed around the 1900's.
- 2.3 The property was previously divided between a restaurant at ground floor and basement with apartments on the upper floors.
- 2.4 The property immediately adjoins the public footpath and there is a front lightwell that provides direct access to the basement along the front elevation.
- 2.5 The footpath is predominantly flat, as is the surrounding area.
- 2.6 Construction is traditional for a property of this age with solid masonry front and rear walls with solid masonry Party Walls along the two flank elevations. The front façade has is open at ground floor to create a shopfront and the façade above is supported on an existing timber beam at first floor level.
- 2.7 The rear façade has also been opened at ground floor level to connect to the historic rear extension and is likely supported on a similar beam to the front; although, this was not open for inspection at the time of our visits. There is a bay window of timber construction on the southern half of the rear elevation.
- 2.8 The roof to the main building is pitched with two ridges and a central valley. The roofs to the historic rear extensions are flat and on two different levels.

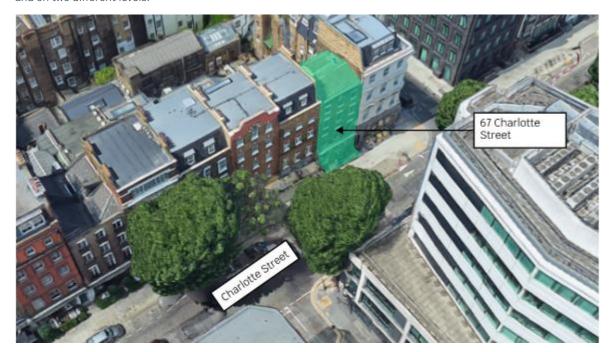


Figure 1 - Aerial view of site

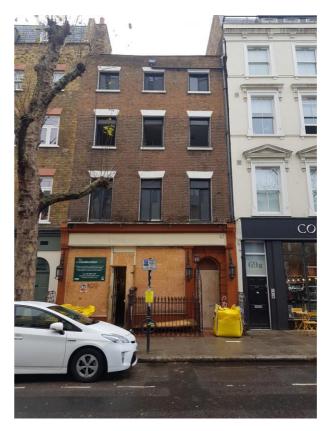


Figure 2 - View of front facade





3.0 **Observations**

The following section of this report summarises the observations and provides commentary on the extent of degradation observed during the visual inspection.

Front Facade

The following defects were observed:

- Dropped front façade (Figure 3)
- Undermined pier to south façade (Figure 8);
- Existing LO1 timber beam supporting 3 storeys of façade and existing mansard (Figure 9); Cracking throughout front façade masonry piers (Figure 4, Figure 5 and Figure 6); Poorly bonded brickwork internally at a number of locations (Figure 7);

- Front parapet poorly bonded brickwork (
- Cracking internally and externally along north party wall (Figure 4, Figure 5 and
- Figure 10);



Figure 3 - Front Facade - Note drop in brick coursing above centre window



Figure 4 - Cracking of LO1 South Party Wall - Note undermined pier



Figure 5 - Cracking of LO1 North Party Wall



Figure 7 – Poor bonding of front façade brickwork at LO1



Figure 6 - Cracking of L01 centre pier



Figure 8 – Undermined pier and timber beam at L01 South Party Wall









Figure 9 – LO1 front façade timber beam from underside

Figure 10 - Front parapet poorly bonded brickwork potential past movement - also note cracking along Party Wall behind rain water pipe



Figure 11 - Summary of front facade defects

3.2 Rear façade

The following defects were observed:

- Bulging brickwork at LO3 (Figure 12 and Figure 13); Dropped brickwork at LO1 (Figure 14);

- Parapet leaning (Figure 15);
 Cracking of internal brickwork adjacent to bay windows (Figure 16).



Figure 12 – Rear Facade – Note bulging brickwork at eave Figure 13 – Close up of bulging brickwork of bay window



Figure 14 – Rear Façade – LO1 brickwork dropped above window





Figure 15 - Rear facade - LO3 parapet leaning towards mansard







Figure 16 - Cracking of pier adjacent to LO2 bay window



Figure 17 - Summary of rear facade defects

3.3 Internal floors

The following defects were observed:

- Dropped ground floor joists (Figure 18); Water-stained timber joists and rafters (Figure 18, Figure 19, Figure 20 and Figure 23); Joists with full loss of section at supports (Figure 20 and Figure 21);
- Bowing of internal floors (Figure 22);



Figure 18 – Ground floor joists dropped – note gap between floor boards and joists



Figure 20 – LO2 timber joist with full loss of section



Figure 19 – First floor bressummer and joists from below



Figure 21 - Close up LO2 timber joist with full loss of section

67 CHARLOTTE STREET





Figure 22 – Third floor bressummer from underside – note visible bowing



Figure 23 – Water stained timber likely due to water ingress at roof level

3.4 Rear extensions

The following defects were observed:

- Water-stained timber joists and rafters (Figure 24 and Figure 26);
- Corroded steelwork and delamination at the supports (Figure 24 and Figure 27);



Figure 24 – Corroded beams at rear roof adjacent to Party Wall



Figure 25 – Temporary measures to prevent further water ingress at rear roof



Figure 26 – Rear building ground floor joists from below, note water staining



Figure 27 – Corroded beams at ground floor adjacent to Party Wall – note delamination of bottom flange

4.0 Conclusions

- Structural defects have been observed throughout the building that are consistent with long-term water ingress. Water staining is present throughout, all observed steelwork shows signs of corrosion and in places water damage had resulted in significant loss of timber section. The front and rear facades show signs of movement and cracking at numerous locations and the bonding of the existing brickwork is in a poor condition. The existing timber beams that support the facades are liable to water damage and long-term deflection, these are considered as being the primary cause of the movement observed in the facades.
- 4.2 These defects have compromised the structural integrity of the building and require immediate intervention to stabilise the structure and prevent further movement. Further movement could result in defects worsening, damage to adjacent structures or potentially even collapse.

67 CHARLOTTE STREET



5.0 Proposed Structural Scheme

5.1 Strategic approach

An initial appraisal was undertaken to assess the viability of retaining the existing facades and undertaking insitu repairs in conjunction with the contractor and their temporary works engineer. To achieve this, a full system of needle props would have been required along the front elevation to relieve the existing timber beam of load such that new steelwork could be installed to support the existing façade.

The front façade would need to be transferred to temporary works and then back to new permanent structure. Even with robust design and careful sequencing, this would result in further movement of the facade. Given the poor bonding of the existing brickwork and numerous defects present, this approach was considered to increase the risk of potential collapse of the front façade which would present a safety concern to both the contractor and public. It was concluded that the approach that carried the lowest risk to the existing structure and surrounding buildings was to carefully deconstruction and rebuild the masonry from a new steel beam at first floor level to replace the existing timber beam.

The rear façade is largely comprised of the timber bay, due to the movement that has occurred around this and the water ingress, the timber needs to be replaced. The remaining masonry defects extend down to below the first floor and historic repairs are apparent; however, they have not addressed the movement that has occurred. Given the failed historic repairs, these areas require the deconstruction and reconstruction of the affected areas.

5.2 Temporary works

Interim temporary propping has been installed on site to mitigate further movement prior to the contractor taking possession of site. The contractor will be installing a scaffold and temporary works to facilitate the permanent works and safeguard the existing structure as well as the buildings adjacent. The full details of the temporary works scheme are still in development by the contractor at the time of writing.

5.3 Permanent works

The below provides a summary of the main works, for a full description of the proposed structural works drawings can be found in Appendix A.

- 5.4 The proposed scheme is to replace any water damaged elements of timber, bressummer beams are to be replaced with steelwork and joists replaced with comparable new joists. Beams will be supported on new padstones to better distribute stresses within the walls and protect the existing brickwork.
- 5.5 The front and rear façades are to be rebuilt from a sound point below their lowermost defect.

5.5.1 Front façade

The existing timber beam at first floor level is the likely cause of the movement and this is to be replaced with a new steel beam. The façade will therefore be carefully deconstructed and reconstructed, reusing existing brickwork where possible.

5.5.2 Rear façade

The masonry has dropped above the half landing window opening between ground and first floor. The façade will therefore be carefully deconstructed and reconstructed, reusing existing brickwork where possible.

5.6 Roc

The roof is to be temporarily supported by temporary beams until the façade is rebuilt and support reinstated.

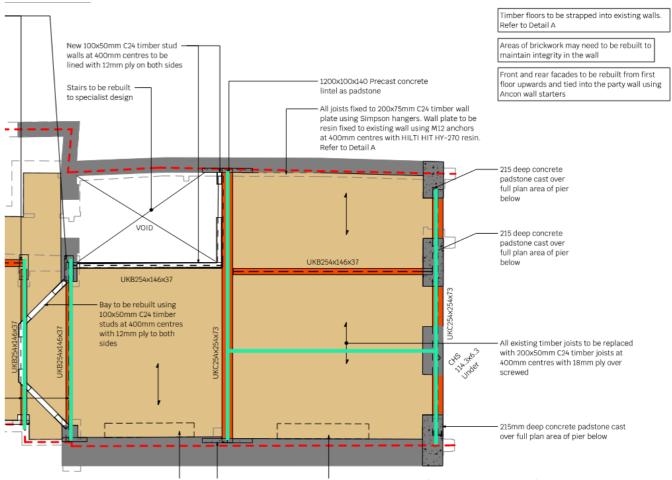


Figure 28 – Proposed First Floor Plan - existing timber bressummers shown in green (layouts similar above)

5.7 Summary of proposals

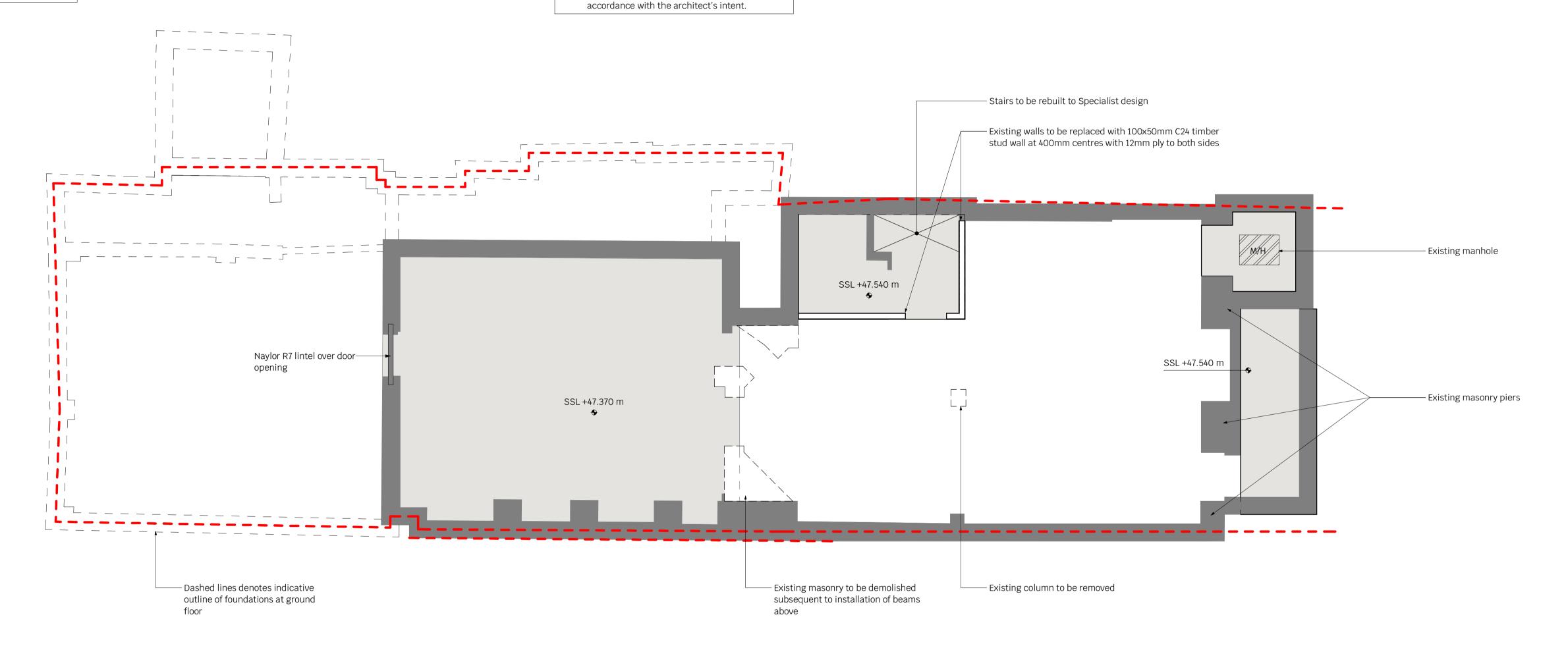
The existing facades and internal structure have suffered significant degradation due to water ingress, undermining of structures and general degradation over time. Due to the level of movement, debonding of brickwork and removal of section of sections it has been concluded that temporarily supporting the facades presents an additional risk of collapse. The proposal is therefore to carefully deconstruct and rebuild masonry wherever possible and to provide new support structures to prevent future movements.



APPENDIX A STRUCTURAL DRAWINGS

1.0 General Notes 2.0 Foundations 3.0 Demolition 6.0 Steelwork 1.1. Do not scale from these drawings. use only the 2.1 The contractor is responsible for ground 3.1 Suitable care should be taken during 6.1 All steelwork to be grade s335jo water control on site. demolition to ensure the retained structure is not 6.2 Design of all steel-to-steel connections by dimensions shown. 1.2. All structural drawings are to be read in 2.2 All excavations are to be kept free from water damaged. fabricator. 6.3 All steelwork in the external walls to be conjunction with the Architects and Service until below ground works are complete. suitable Engineers details, drawings and specifications. mitigation measures to ensure watercourses are 4.0 Masonry galvanised (125 microns) 1.3 All proprietary products are to be used in strict not polluted with silt laden water should be 4.1 All new load bearing masonry walls to be built 6.4 The fabricator to conduct a survey/site visit accordance with the manufacturers' in 15N/mm compressive strength brick and grade prior to any fabrication to obtain site accurate implemented. recommendations and details. 2.3 The contractor is to be responsible for dimensions in order to ensure correct fit. 1.4 The contractor is responsible for establishing ensuring that excavations and associated 6.5 Ends of all steel beams that bear onto and checking the setting out of gridlines, levels and operations do not compromise the integrity of 5.0 Concrete masonry walls to be grouted into the wall adjacent structures and to ensure the stability of 5.1 Ground beams, underpinning and slabs - min datums. Any discrepancies between the structural drawings and with other design consultants should all excavations. grade c32/40 7.0 Fire Protection immediately be brought to the attention of all 5.2 Cover to ground beams -75mm all sides 7.1 Refer to the Architect's drawings and relevant parties. 5.3 Cover to slabs specifications for all fire protection details 1.5 The information shown on Symmetrys drawings 50mm Bottom and sides relating to the existing structure is based on limited 35mm Top 8.0 Structural Timber 8.1 All structural timber to be C24 exploratory works, the contractor is to check and notify any discrepancies. 1.6 Waterproofing and DPM requirements to 9.0 Staircase fabricator architects and/or specialist's details and 9.1 staircase design and the production of

specification.



construction drawings by staircase fabricator in

Basement Plan

1:50

Notes

 This drawing is to be read in conjunction with all relevant architects & engineers drawings and specifications

2. Do not scale from this drawing

The contractor shall be responsible for the design, installation and sequencing of all temporary works and must ensure that the stability of the structure is not compromised during the works

Sub Contractor/Specialist Design Elements

1. All temporary works

2. All reinforcement drawings and bar bending schedules

3. Design of all steelwork connections, the fabricator is to submit their calculations to building approval

4. Design of all tanking/waterproofing

5. Steel fabrication drawings

6. All stairs by others to support 5kN/m² imposed load



Rev Date Drwn Chkd Amendments

Drawing status

Stage 3



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Job Title

67 Charlotte Street W1T 4PH

London

Drawing Title

Basement Plan

Project Company Zones Level Type Role Number

20304 - SYM - ZZ - B1 - DR - S - 0990

Scale: 1:50 @ A1 Drawn by: NF
Date: JAN 2021 Checked: TMD

VNo E072122 VAT Degistration No. 90/2000

1.0 General Notes 2.0 Foundations 3.0 Demolition 6.0 Steelwork 1.1. Do not scale from these drawings. use only the 2.1 The contractor is responsible for ground 6.1 All steelwork to be grade S335JO 3.1 Suitable care should be taken during 6.2 Design of all steel-to-steel connections by dimensions shown. water control on site. demolition to ensure the retained structure is not 2.2 All excavations are to be kept free from water 1.2. All structural drawings are to be read in damaged. fabricator. conjunction with the Architects and Service until below ground works are complete. suitable 6.3 All steelwork in the external walls to be Engineers details, drawings and specifications. mitigation measures to ensure watercourses are 4.0 Masonry galvanised (125 microns) 1.3 All proprietary products are to be used in strict not polluted with silt laden water should be 4.1 All new load bearing masonry walls to be built 6.4 The fabricator to conduct a survey/site visit accordance with the manufacturers' in 15N/mm compressive strength brick and grade implemented. prior to any fabrication to obtain site accurate recommendations and details. 2.3 The contractor is to be responsible for dimensions in order to ensure correct fit. 1.4 The contractor is responsible for establishing ensuring that excavations and associated 6.5 Ends of all steel beams that bear onto and checking the setting out of gridlines, levels and operations do not compromise the integrity of 5.0 Concrete masonry walls to be grouted into the wall 5.1 Ground beams, underpinning and slabs - min adjacent structures and to ensure the stability of datums. Any discrepancies between the structural all excavations. grade c32/40 7.0 Fire Protection drawings and with other design consultants should immediately be brought to the attention of all 5.2 Cover to ground beams -75mm all sides 7.1 Refer to the Architect's drawings and 5.3 Cover to slabs specifications for all fire protection details relevant parties. 1.5 The information shown on Symmetrys drawings 50mm Bottom and sides relating to the existing structure is based on limited 8.0 Structural Timber 35mm Top exploratory works, the contractor is to check and 8.1 All structural timber to be C24 notify any discrepancies. 1.6 Waterproofing and DPM requirements to 9.0 Staircase fabricator 9.1 staircase design and the production of architects and/or specialist's details and specification. construction drawings by staircase fabricator in accordance with the architect's intent.

Ground Floor Plan

Refer to Detail A TBC if wall is to be retained - Stairs to be rebuilt to specialist design - Existing walls to be replaced with 100x50mm C24 timber stud wall at 400mm centres with 12mm ply to both sides New beams to be taken into rear wall as future development shows no pier. On 600x100x140 1200x100x140 Precast concrete concrete padstone lintel as padstone 600x100x140 -- Dashed lines denotes extent of Concrete padstone Existing steel beam to be removed basement walls below and replaced with 254x146x37 UB New pier to be built or post to be installed ._____ Pier to be retained or rebuilt -UKB254x146x37 Works to be confirmed -- 600x100x140 SSL +49.870 m SSL +48.660 m Concrete padstone SSL +50.130 m - Existing CHS column to be replaced with 114.3x6.3 CHS. 215mm deep UKB254x146x37 concrete padstone to be installed over UKB254x146x37 full area of pier below. Refer to Detail B 215 deep concrete padstone to be installed over full area of pier New beams to be taken into party All existing timber floor joists to be replaced below wall as future development shows with 200x50mm C24 timber joists at 400mm 600x100x140 -600x100x140 no pier. On 600x100x140 centres with 18mm ply over screwed using Concrete padstone Concrete padstone concrete padstone 5mm wood screws at 200mm centres 1200x100x140 Precast concrete — — All joists fixed to 200x75mm C24 timber wall All existing timber joists to be lintel as padstone plate using Simpson hangers. Wall plate to be replaced with 200x50mm C24 resin fixed to existing wall using M12 anchors timber joists at 400mm centres at 400mm centres with HILTI HIT HY-270 resin.

Notes

 This drawing is to be read in conjunction with all relevant architects & engineers drawings and specifications

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Sub Contractor/Specialist Design Elements

1. All temporary works

2. All reinforcement drawings and bar bending schedules

3. Design of all steelwork connections. the fabricator is to submit their calculations to building approval

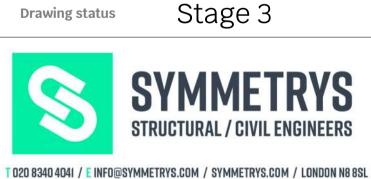
4. Design of all tanking/waterproofing

5. Steel fabrication drawings

Timber floors to be strapped into existing walls.

Refer to Detail A

6. All stairs by others to support 5kN/m² imposed load



For Tender

For Tender

Amendments

Job Title

67 Charlotte Street

or charlotte stre

W1T 4PH

London

T2 | 22.02.21 | SDR | TMD

T1 05.02.21 NF TMD

Rev Date Drwn Chkd

Drawing Title

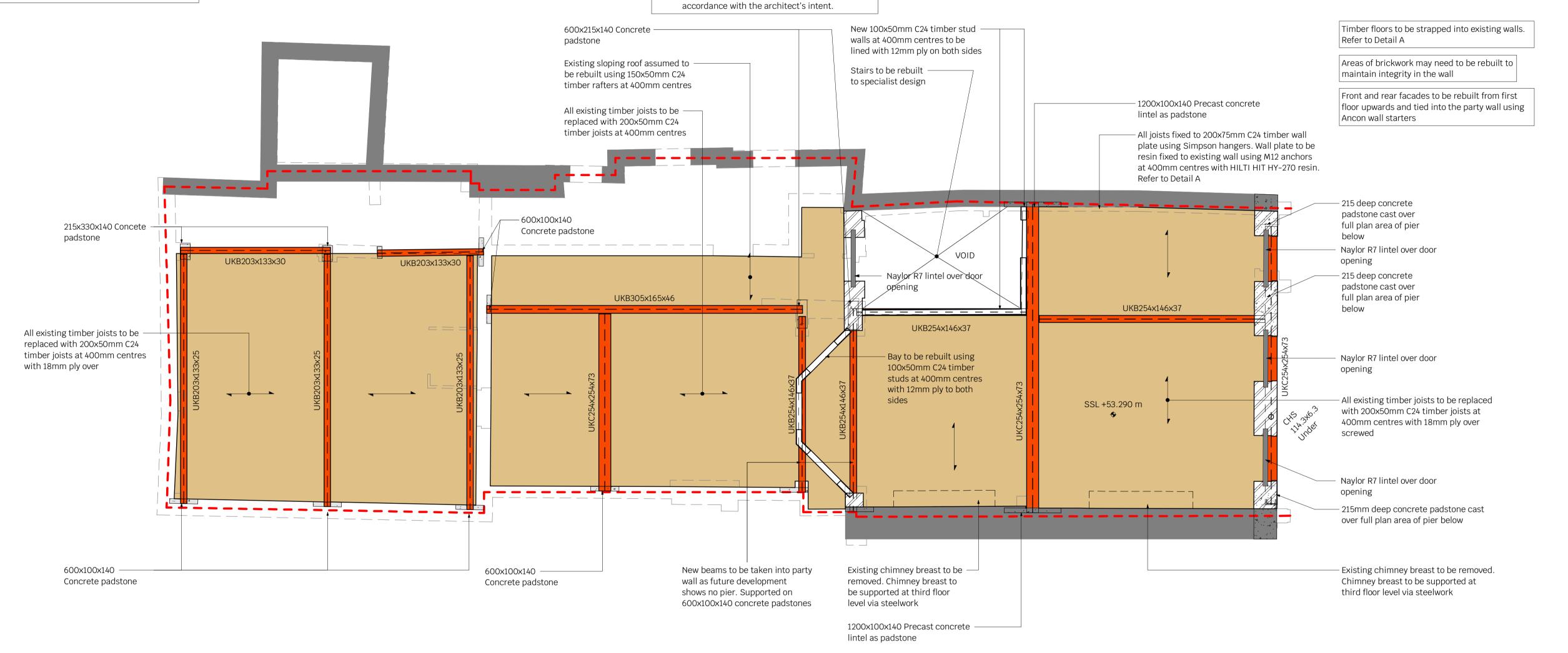
Ground Floor Plan

Project Company Zones Level Type Role Number

20304 - SYM - ZZ - 00 - DR - S - 1000 Scale: 1:50 @ A1 Drawn by: NF Revision:

Date: JAN 2021 Checked: TMD T2

1.0 General Notes 2.0 Foundations 3.0 Demolition 6.0 Steelwork 2.1 The contractor is responsible for ground 6.1 All steelwork to be grade S355J0 1.1. Do not scale from these drawings. use only the 3.1 Suitable care should be taken during dimensions shown. water control on site. 6.2 Design of all steel-to-steel connections by demolition to ensure the retained structure is not 2.2 All excavations are to be kept free from water 1.2. All structural drawings are to be read in damaged. fabricator. until below ground works are complete. suitable 6.3 All steelwork in the external walls to be conjunction with the Architects and Service mitigation measures to ensure watercourses are 4.0 Masonry Engineers details, drawings and specifications. galvanised (125 microns) 1.3 All proprietary products are to be used in strict not polluted with silt laden water should be 6.4 The fabricator to conduct a survey/site visit 4.1 All new load bearing masonry walls to be built in 15N/mm compressive strength brick and grade accordance with the manufacturers' implemented. prior to any fabrication to obtain site accurate 2.3 The contractor is to be responsible for recommendations and details. dimensions in order to ensure correct fit. 1.4 The contractor is responsible for establishing ensuring that excavations and associated 6.5 Ends of all steel beams that bear onto operations do not compromise the integrity of 5.0 Concrete and checking the setting out of gridlines, levels and masonry walls to be grouted into the wall 5.1 Ground beams, underpinning and slabs - min datums. Any discrepancies between the structural adjacent structures and to ensure the stability of all excavations. grade c32/40 7.0 Fire Protection drawings and with other design consultants should 5.2 Cover to ground beams -75mm all sides immediately be brought to the attention of all 7.1 Refer to the Architect's drawings and 5.3 Cover to slabs specifications for all fire protection details relevant parties. 1.5 The information shown on Symmetrys drawings 50mm Bottom and sides relating to the existing structure is based on limited 8.0 Structural Timber 35mm Top exploratory works, the contractor is to check and 8.1 All structural timber to be C24 notify any discrepancies. 1.6 Waterproofing and DPM requirements to 9.0 Staircase fabricator architects and/or specialist's details and 9.1 staircase design and the production of specification. construction drawings by staircase fabricator in



First Floor Plan

Notes

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2. Do not scale from this drawing

The contractor shall be responsible for the design, installation and sequencing of all temporary works and must ensure that the stability of the structure is not compromised during the works

Sub Contractor/Specialist Design Elements

1. All temporary works

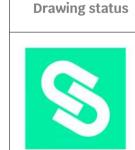
2. All reinforcement drawings and bar bending schedules

3. Design of all steelwork connections. the fabricator is to submit their calculations to building approval

4. Design of all tanking/waterproofing

5. Steel fabrication drawings

6. All stairs by others to support 5kN/m² imposed load



T2 | 22.02.21 | SDR | TMD

T1 05.02.21 NF TMD

Rev Date Drwn Chkd

Stage 3

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67 Charlotte Street

W1T 4PH London

Drawing Title

First Floor Plan

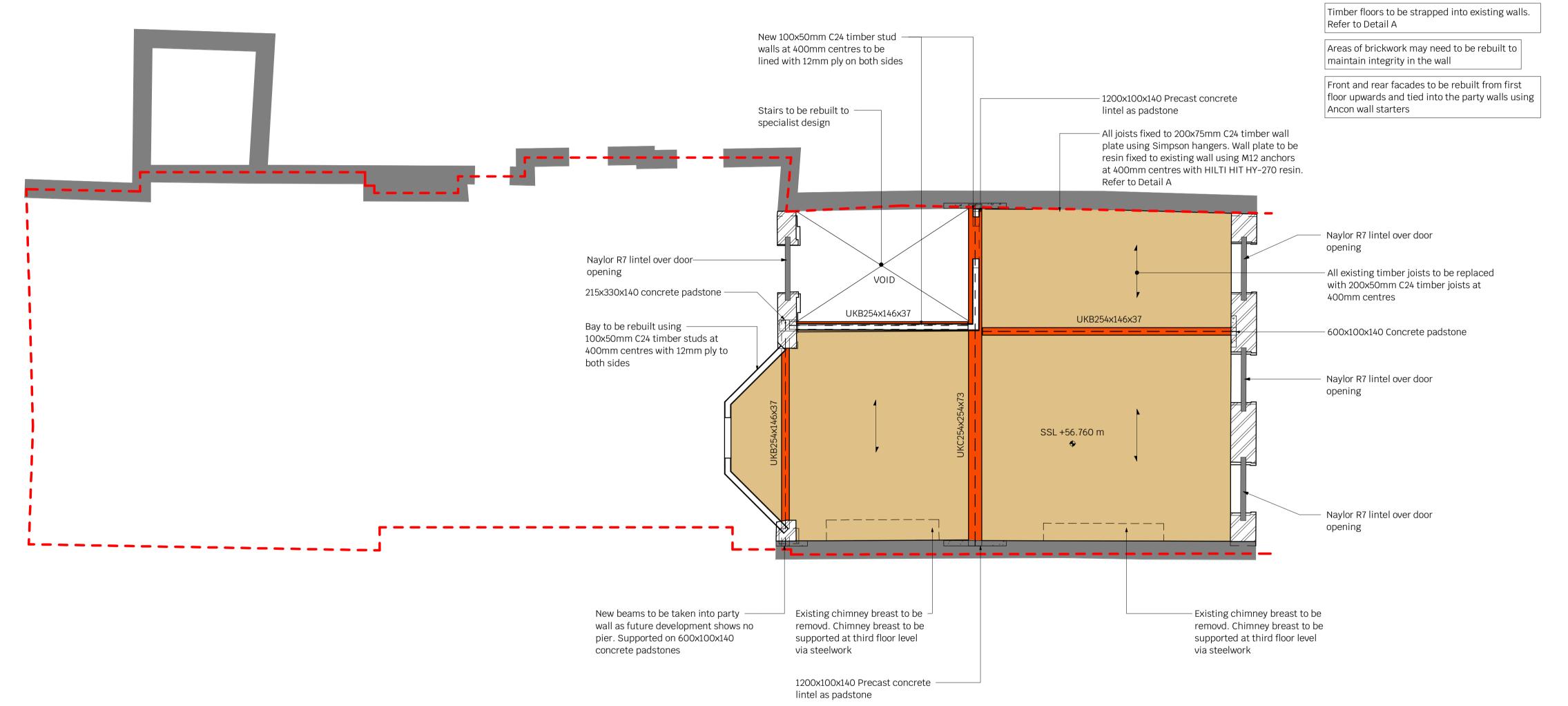
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Project Company Zones Level Type Role Number

Scale: 1:50 @ A1 Date: JAN 2021

Drawn by: NF Checked: TMD

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construction drawings by staircase fabricator in

accordance with the architect's intent.

Second Floor Plan

specification.

Notes

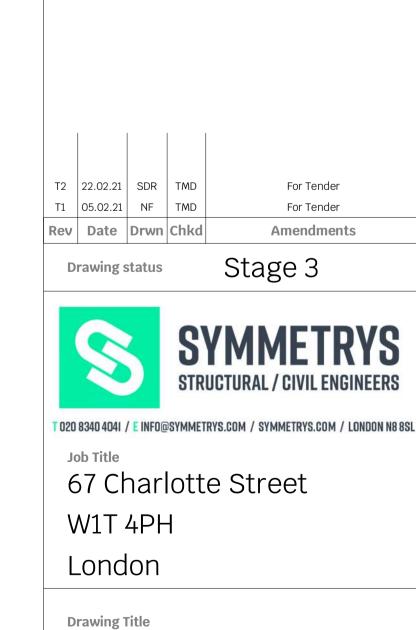
1. This drawing is to be read in conjunction with all relevant architects & engineers drawings and specifications

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Sub Contractor/Specialist Design Elements

- 1. All temporary works
- 2. All reinforcement drawings and bar bending schedules
- 3. Design of all steelwork connections. the fabricator is to submit their calculations to building approval
- 4. Design of all tanking/waterproofing
- 5. Steel fabrication drawings
- 6. All stairs by others to support 5kN/m² imposed load



Second Floor Plan

Project Company Zones Level Type Role Number 20304 - SYM - ZZ - 02 - DR - S - 1020

Scale: 1:50 @ A1 Date: JAN 2021

Drawn by: NF Checked: TMD

Company No. 5873122 VAT Registration No. 894 2993 61

Registered In England And Wales

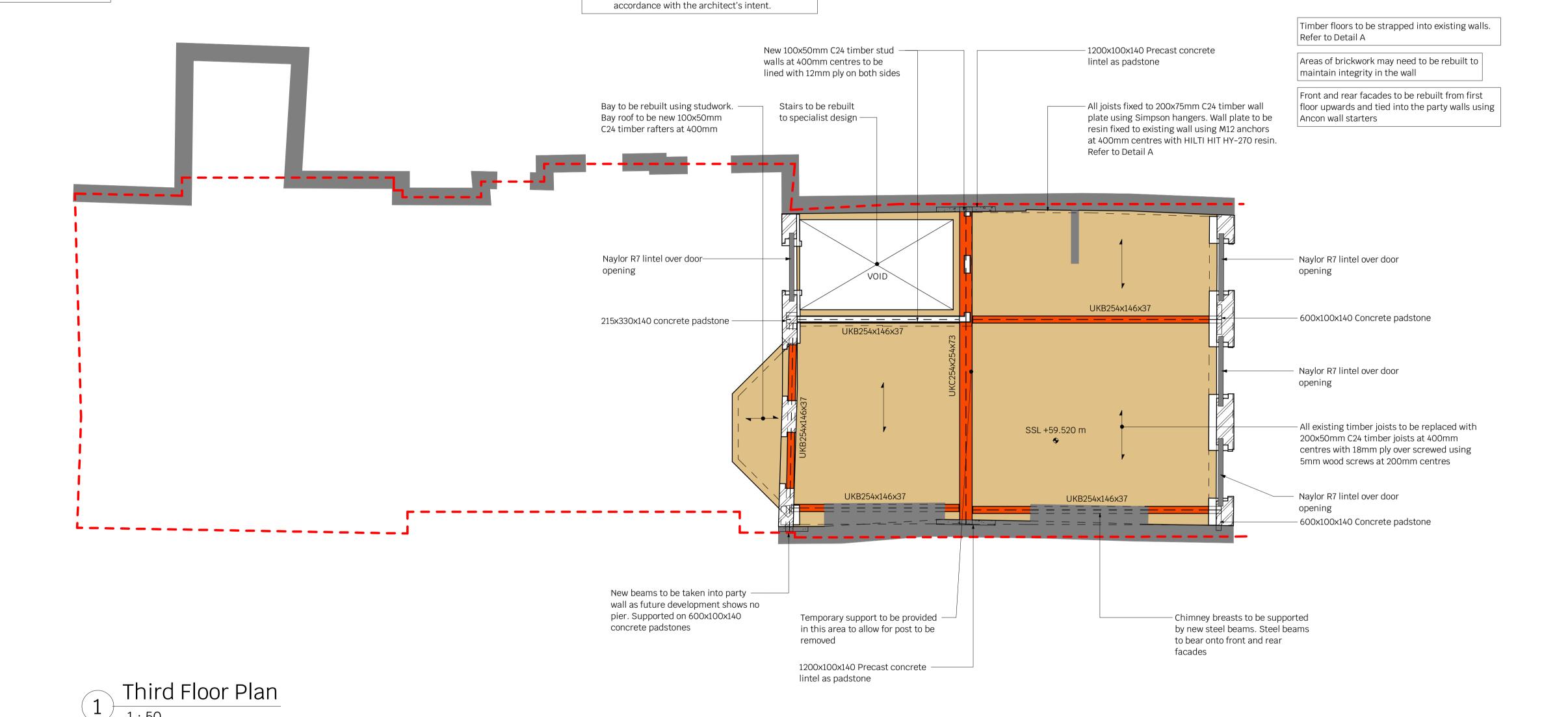
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specification.



construction drawings by staircase fabricator in

Notes

1. This drawing is to be read in conjunction with all relevant architects & engineers drawings and specifications

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The contractor shall be responsible for the design, installation and sequencing of all temporary works and must ensure that the stability of the structure is not compromised during the works

Sub Contractor/Specialist Design Elements

1. All temporary works

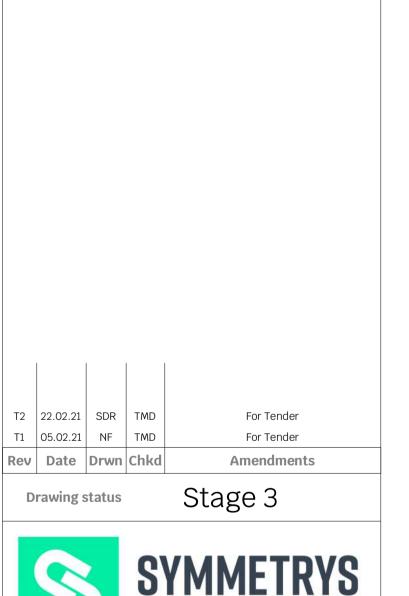
2. All reinforcement drawings and bar bending

3. Design of all steelwork connections. the fabricator is to submit their calculations to building approval

4. Design of all tanking/waterproofing

5. Steel fabrication drawings

6. All stairs by others to support 5kN/m² imposed load



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67 Charlotte Street

Third Floor Plan

W1T 4PH

London

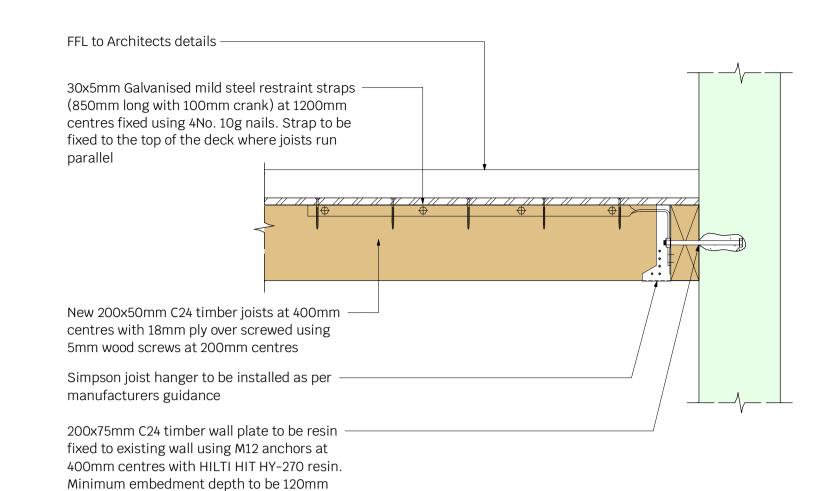
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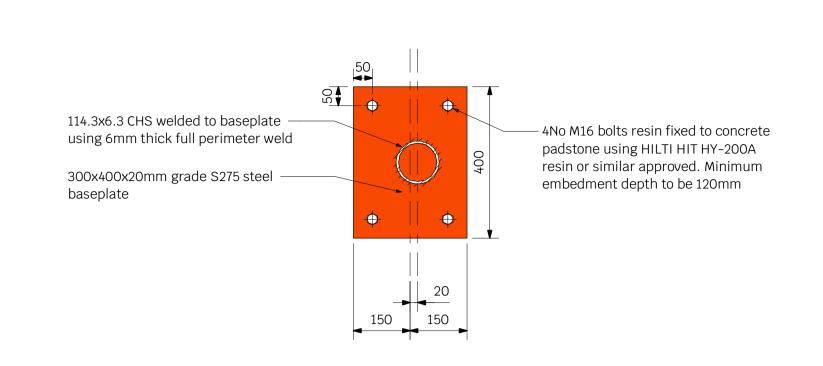
Project Company Zones Level Type Role Number

Date: JAN 2021 Checked: TMD

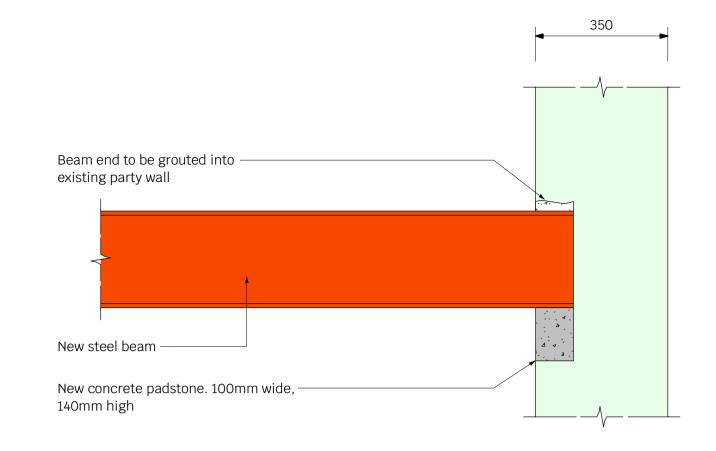
Drawn by: NF











C Beam to Party Wall Detail

Notes

- This drawing is to be read in conjunction with all relevant architects & engineers drawings and specifications
- 2. Do not scale from this drawing



Drawing status

Stage 3



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67 Charlotte Street

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Drawing Title

Typical Detail Sheet 1

Project Company Zones Level Type Role Number

20304 - SYM - ZZ - XX - DR - S - 1060

Scale: 1:10 @ A1 Dr
Date: FEB 2021 Ch

Checked: TMD