

### 2 Britannia Street, London WC1X 9JE

### Facade Retention - Method Statement

### London

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### Norwich

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Ref: 140408 / I Prentice / G McLachlan

Date: 30 Jun 2015

Revision: 2







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### 1.0 INTRODUCTION

- 1.1 The proposed development of 2 Britannia Street consists of the conversion of an existing Victorian public house into residential flats. The existing rendered brick facade is to be retained however the existing internal structure is to be demolished, the basement lowered and a new internal, steel frame structure erected.
- 1.2 This document outlines a proposed sequence of construction / methodology for retaining the facade whilst the demolition of the existing structure takes place and the new works are constructed. This document should be read in conjunction with Conisbee drawings TW01 and TW02 which are appended to this document. Reference should also be made to Conisbee drawings S100, S101, S102, S103, S104, S105, S200, S201, S400, S410 and S420 which show the proposed structural works.

### 2.0 EXISTING BUILDING

- 2.1 The existing four storey (including basement) Victorian era public house is constructed of solid, load bearing, rendered brick external walls with timber floors and a flat roof. The internal structure is supported on steel beams which in turn are supported on columns or load bearing walls. The building has been heavily altered over its life with the roof, for example, being completely replaced. To the west of the building is a small enclosed courtyard.
- 2.2 The foundations consist of corbelled brick footings bearing on concrete strips. Site investigation works consisting of a borehole and trial pits have found the underlying strata to consist of fill over clay and gravel over clay to depth.

### 3.0 PROPOSALS

- 3.1 The proposals are to convert the property into residential flats. The facade is to be retained and a new internal, load bearing steel frame with composite metal deck floor slabs installed within it. The basement is to be lowered to provide suitable head room and an additional storey constructed by introducing a mansard type roof.
- 3.2 The retained walls are to be underpinned and a new reinforced concrete raft slab constructed to form the new foundation to the frame. A new basement plant room is to be constructed and above / adjacent to this the existing courtyard is to be in-filled with a three-storey, steel framed structure with composite metal deck floor slabs and roof. This will be supported on piled foundations.

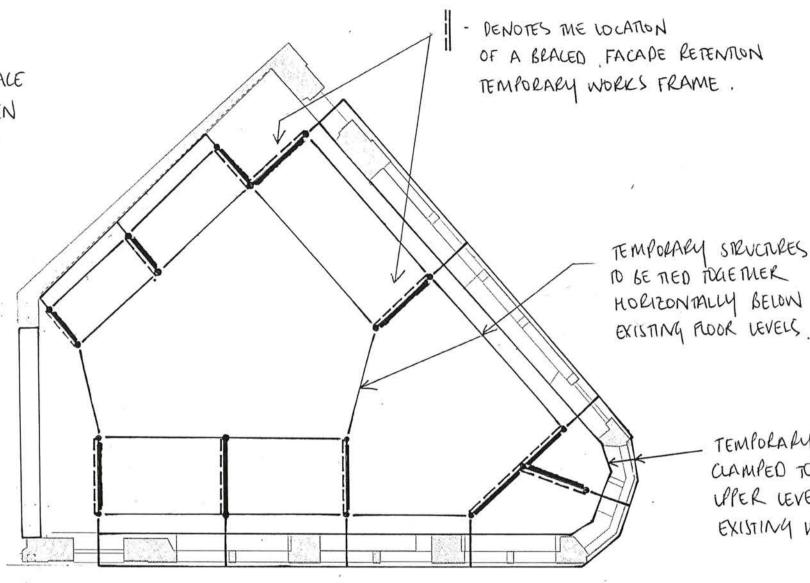


### 4.0 METHOD STATEMENT

The following outlines a method for retention of the existing facade to 2 Britannia Street and the construction of the new permanent works.

- 1. Carry-out soft strip.
- Underpin the existing facade, party wall and vault walls to a depth below the
  proposed formation level of the new foundation refer to stage 1 of drawing TW02.
   Underpinning is to be carried out in a controlled sequence in bays not greater than
  1m in length.
- 3. Carry out remedial repairs to the facade as necessary and install temporary timber cross bracing to windows / openings etc.
- 4. Install temporary pad foundations at the locations of the proposed facade retention frames see drawing TW01.
- 5. Install temporary propping to basement walls in the form of wallings and diagonal props off of the temporary pad foundations refer to stage 1 of drawing TW02.
- 6. Reduce level of remainder of existing basement down to the formation level of the new foundations.
- Install facade retention temporary works- these are to consist of vertical braced steel frames with continuous wallings clamped to the facade at each floor and at roof level - refer to stage 2 of drawing TW02.
- 8. Cast new RC raft slab and new retaining walls at basement level refer to stage 3 of drawing TW02 and S100.
- Carefully remove existing internal structure from roof down refer to stage 3 of drawing TW02.
- Install new internal steel frame then cast new concrete / metal deck composite slabs sequentially from ground to third floor level - refer to stage 4 of drawing TW02 and drawings S100 – S105.
- 11. Tie the existing facade to the new steel frame refer to drawing S410 for typical tie details.
- 12. Once the facade is tied to the new frame, the temporary works can be removed along with the basement wall props refer to stage 5 of drawing TW02.

NOTE: REFER TO DRAWING TWO 2 FOR PROPOSED SEQUENCE FOR THE FACADE RETENTION TEMPORARY WORKS. FACADE RETENTION TO REMAIN IN-PLACE UNTIL NEW STEEL STRUCTURE MAS BEEN ELECTED, COMPOSITE FLOOR SLAB CAST AND FACADE THE GACK TO THE NEW STEVETLEE.



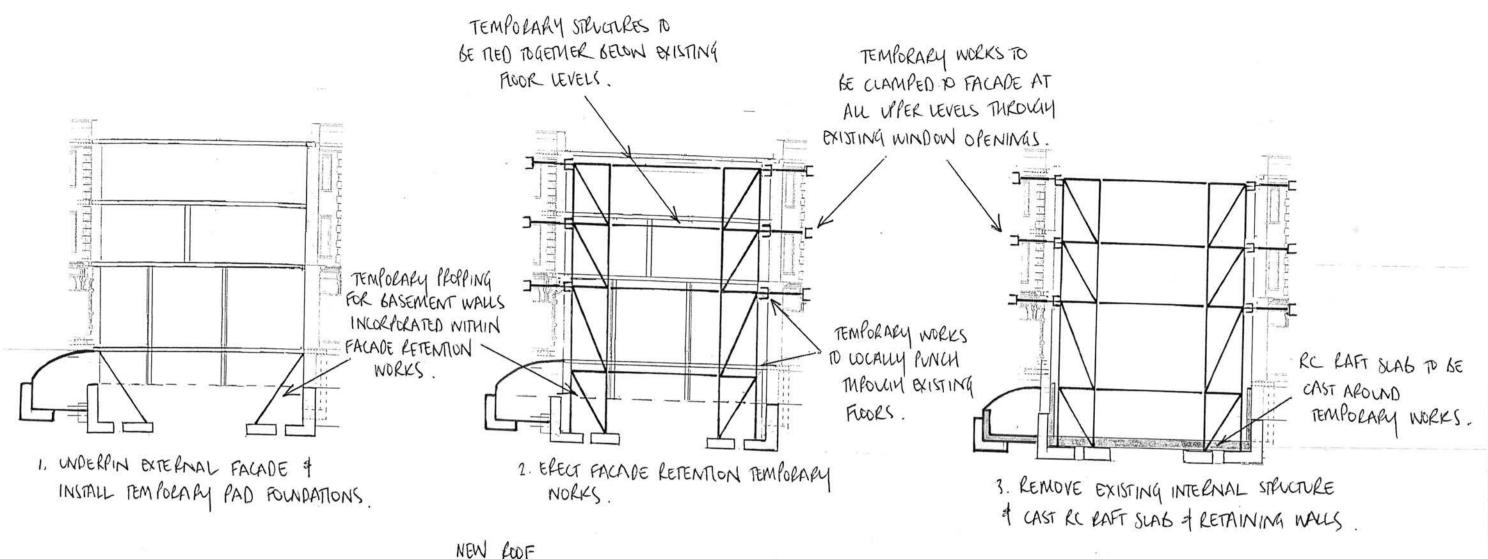
10 be TIED TOUR THER HORIZONTALLY BELOW EXISTING PLOOR LEVELS.

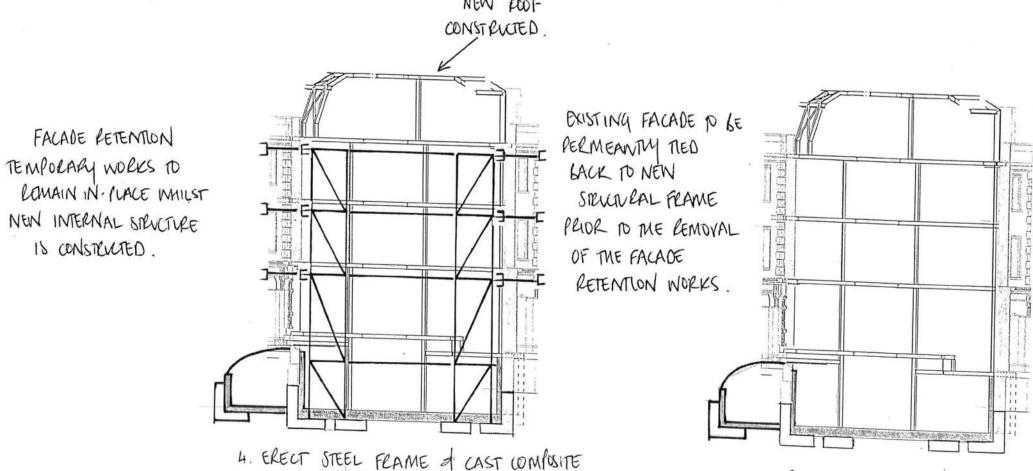
> TEMPORARY WORKS TO BE CLAMPED TO FACADE AT ALL LPPER LEVELS MEDICAL EXISTING WINDOW OFENINGS.

NOTE: THIS DRAWING INDICATES A SUGGESTED TEMPORARY WOLKS SCHEME ONLY. THE MAIN COMPAGOR' IS RESPONSIBLE FOR THE PREPARATION. DESIGN & INSTALLATION OF ANY TEMPORARY WORKS (INCUIDING FACADE RETENTION WORKS) . THE CONTRACTOR MUST SUBMIT TO THE SPENGURAL ENGINEER, IN ADVANCE OF THE WORKS STARTING, DETAILS OF THEIR PROPOSED FACADE RETENTION SCHEME TO ENABLE COMMENT WHICH IS TO INCLUDE ALL LELEVANT DRAWINGS & CALCUATIONS AS WELL AS A SEQUENCE OF WORKS AND METHOD STATEMENT.

Consulting Structural Engineers
Consulting Civil Engineers

Project	JOB NO. 14040X
2 BRITANNIA ST.	Drg. No. TWO!
TITLE PROPOSED SCHEME FOR	Scale NR.
PACADE RETENTION TEMP.	Date 11 6 15.
WOEKS - PLAN.	Drawn GW .
Status LEUMINARY.	Checked





METAL DECK FLOORS.

S. REMOVE TEMPORARY WORKS.

conisbee

Consulting Structural Engineers Consulting Civil Engineers

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Project	Job No. 140 408
2 BUTANNIA ST.	Drg. No. 7W 02.
Title PLOPOJED SCHEME FOR	Scale M3.
FACADE RETENTION TEMP.	Date 11/6/15
NOCK - SEQUENCE OF WORKS	Drawn QM
Status PLEUMINARY.	Checked

#### STEELWORK NOTES CONCRETE NOTES STRUCTURAL ALTERATION WORKS TO EXISTING TERRACES AND PUBLIC HOUSE 1. ALL STEEL TO BE GRADE \$275 EXCEPT CIRCULAR / BOX SECTION COLUMNS WHICH ARE TO BE GRADE \$355. CONCRETE FOR ALL REINFORCED FOUNDATIONS & GROUND FLOOR SLABS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500. 1. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY WORKS, THEIR PROPOSALS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER SUFFICIENTLY IN ADVANCE OF THE WORKS STARTING TO PERMIT COMMENT. LINDER NO CIRCUMSTANCES SHOULD ANY STRUCTURAL ALTERATIONS BE CARRIED OUT PRIOR TO THE STRUCTURAL ENGINEER COMMENTING ON THE CONTRACTORS TEMPORARY WORKS PROPOSALS. 2. REFER TO STRUCTURAL SPECIFICATION FOR DETAILS OF PAINT FINISHES TO STEELWORK. FOUNDATIONS TO EXISTING PARTY WALL AND EXTERNAL WALL TO KINGS CROSS ROAD UNDERPINNED. WIDTH OF UNDERPINNING TO MATCH WIDTH OF EXISTING FOOTINGS. ALLOW FOR REMOVING EXISTING BRICKWORK) AND REPLACE WITH UNDERPINNIG. REFER TO SECTIONS FOR DETAILS 2. CONCRETE FOR UNDERPINNING / MASS CONCRETE FOUNDATIONS TO BE FND 3. DESIGNATED MIX TO BS 8500. 3. ALL 'BEAM TO BEAM' AND 'BEAM TO COLUMN' CONNECTIONS ARE TO BE FORMED USING A MINIMUM OF 2No. M16 GRADE 8.8 BOLTS. 3. CONCRETE FOR SUPER STRUCTURE WORKS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500. 4. ALL WELDED CONNECTIONS ARE TO BE FORMED USING 6mm FILLET WELD AS A MINIMUM. 4. ALL REINFORCEMENT INCLUDING MESH TO BE HIGH YIELD GRADE 500 C TO BS 4449:2005. 5. ALL STEEL TO STEEL AND BASEPLATE CONNECTIONS ARE TO BE DESIGNED AND DETAILED BY THE SPECIALIST SUBCONTRACTOR. REFER TO THE SPECIFICATIONS FOR FURTHER DETAILS. IN ADDITION TO GRAVITY AND WIND LOADS 6tc. ALL CONNECTIONS ARE TO BE DESIGNED TO RESIST TIE FORCE LOADS IN ACCORDANCE WITH THE BUILDING REGULATIONS REQUIREMENTS FOR PROGRESSIVE COLLAPSE. FOR TENDER PURPOSES ALLOW FOR AN UNFACTORED LOAD OF 75kN. 5. REFER TO SPECIFICATION FOR DETAILS OF CONCRETE TESTING. D' H 6. ALL WATERPROOFING TO ARCHITECTS DETAILS. 9 NEW 250mm THICK R.C. RETAINING WALL UP TO UNDERSIDE OF GROUND FLOOR LEVEL (8) 6. CONNECTION LOADS/MOMENTS - FOR TENDER PURPOSES ASSUME THE FOLLOWING: (ALL LOADS & MOMENT ARE FACTORED). UNDERPINNING TO BE CARRIED OUT IN 1M SECTIONS (MAX.) FINAL SQUENCE TO BE AGREED. MOMENT SHEAR AXIAL (T/C) 7 \$201 7. FIRE PROTECTION TO STEELWORK TO ARCHITECTS DETAILS. 8. ALL WATERPROOFING AND TANKING TO ARCHITECTS DETAILS. 10 300mm dia. SHORT BORE CFA PILES; STAIRCASE DESIGNED — AND DETAILED BY OTHERS - REFER TO ARCHITECTS DRAWINGS FOR DETAILS. EXISTING BASEMENT LEVEL LOWERED AND NEW 500mm THICK R.C. RAFT SLAB CAST AS NEW FOUNDATION TO BUILDING MAX. VERTICAL LOAD MAX. HORIZONTAL LOAD ALL LOADS UNFACTORED 6 INFILL EXISTING OPENING IN SOLID BRICKWORK 250mm THICK R.C. RETAINING WALL UP TO UNDERSIDE OF GROUND FLOOR LEVEL (11) 0 (12) (G' (F) 500mm THICK RC RAFT SLAB SSL +11.030 0 NOTE: REFER TO CONISBEE DRAWING C100 FOR DETAILS OF BELOW GROUND DRAINAGE - STAIRCASE DESIGNED AND DETAILED BY OTHERS - REFER TO ARCHITECTS DRAWINGS FOR DETAILS. 275mm THICK R.C. WALLS -TO NEW PLANTROOM 300mm THICK RAFT SLAB 0 SSL +11.030 4 STEEL BOX FRAMES TO NEW OPENING IN WALL 0 WALL PROFILE / THICKNESS T.B.C. ON SITE 1 3 3 2 (5) 3 0 (E' EXISTING BASEMENT VAULT TO BE BROKEN OUT AND REPLACED WITH NEW CONCRETE STRUCTURE TO FORM BASEMENT PLANT ROOM. 250mm THICK RC SLAB SSL +11.030 ALLOW FOR REMOVING EXISTING BRICK VAULT WALLS (2) (5) (3) FOUNDATIONS TO EXISTING FLANK WALLS FOUNDATIONS TO EXISTING FLANK WALLS UNDERPINIBLE WIDTH OF UNDERPINING TO MATCH WIDTH OF EXISTING FOOTINGS. ALLOW FOR REMOVING EXISTING WEAK CONCRETE FOOTING (BELOW EXISTING BRICKWORK) AND REPLACE WITH UNDERPINNING. REFER TO SECTIONS FOR DETAILS 225 THICK P.C. RETAINING WALLS AROUND PERIMETER OF VAULT (16) В CONSTRUCT NEW CROSS -WALLS USING CLASS B ENGINEERING BRICKWORK NOTE: WALL THICKNESS SHOWN IS INDICATIVE ONLY. EXACT WIDTH T.B.C. ON SITE. C 5000 1350 4710 3350 FOUNDATIONS TO EXISTING VAULT WALLS AND EXTERNAL WALL TO BRITANNIA STREET UNDERPINNED. WIDTH OF UNDERPINNING TO MATCH WIDTH OF EXISTING FOOTINGS. 1 2 3 5 ALLOW FOR REMOVING EXISTING WEAK CONCRETE FOOTING (BELOW EXISTING BRICKWORK) AND REPLACE WITH UNDERPINNING. REFER TO SECTIONS FOR DETAILS

#### GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS
- DO NOT SCALE FROM THIS DRAWING IN EITHER PAPER OR DIGITAL FORM, USE WRITTEN DIMENSIONS ONLY,

STRUCTURAL COLUMN SCHEDULE		
MARK	DESCRIPTION	
C1	UC152x152x37	
C2	UC203x203x60	
C3	UC254x254x107	
C4	UC203x203x46	
C5	CHS139 7x10	

STRUCT	URAL BEAM SCHEDULE
MARK	DESCRIPTION
B1	UC203x203x60
B2	UC305x305x97
B3	UC254x254x89
B4	UB203x133x30
B5	UC203x203x86
B6	UB305x127x37
B7	UC203x203x46
B8	200x90x30 PFC
Do.	PU\$200×120×10.0

- DENOTES CRANKED BEAM

NOTE: 12mm THICK PLATE TO BE WELDED TO UNDERSIDE OF ALL BEAMS SUPPORTING R.C, COMPOSITE SLABS - PLATES TO BE 200mm WIDER THAN WIDTH OF BEAM.

STRUCTUR	RAL BRACING SCHEDU
MARK	DESCRIPTION
BR1	10x100mm FLAT

### LEGEND

STEP	STEP IN LEVEL
В	DENOTES STEEL BEAM
<del></del>	DENOTES MOMENT CONNECTION BETWEEN STEEL MEMBERS
_ BR _	DENOTES STEEL CROSS BRACING
<u>" "</u>	DIRECTION OF SPAN OF 200mm THICK COMPOSITE RC, SLABS CONSTRUCTED USING RC 40 CONCRETE AND KINGSPAN MD80 V2 1.1mm THICK DECKING WITH 1 LAYER A193 MESH AND 1 no. H12 BAR PER TROUGH.
	DIRECTION OF SPAN OF 200x50mm C16 TIMBER JOISTS @ 400mm c/c SHEATHED IN 18mm PLYWOOD
$\leftarrow$	DIRECTION OF SPAN OF 250mm THICK CAST IN-SITU R.C. SLAB
$\leftarrow$	DIRECTION OF SPAN OF 125x50mm C16 TIMBER JOISTS @ 400mm c/c

EXISTING MASONRY STRUCTURE

EXISTING MASONRY MADE GOOD

NEW BRICKWORK NEW BLOCKWORK

CONNECTION POINT OF MANSARD ROOF BEAMS

### NOT FOR CONSTRUCTION

T2	30.06.15	REVISED AS CLOUDED	KDE	IP
T1	22.06.15	ISSUED FOR TENDER	KDE	IP
Rev	Date	Description	Drawn	Check



1-5 Offord St London N1 1DH Tel 020 7700 6666 Fax 020 7700 6686 www.conisbee.co.uk

Drawing Status	Date JAN 2015	
TENDER	Scale	1:50
Project	Drawn	KDE
2 Britannia Street,	Engineer	IP
London WC1X 9JE	Project No	,

140408 Drawing No

S100

T2

GENERAL ARRANGEMENT -BASEMENT

1. ALL STEEL TO BE GRADE \$275 EXCEPT CIRCULAR / BOX SECTION COLUMNS WHICH ARE TO BE GRADE \$355.

2. REFER TO STRUCTURAL SPECIFICATION FOR DETAILS OF PAINT FINISHES TO STEELWORK.

3. ALL 'BEAM TO BEAM' AND 'BEAM TO COLUMN' CONNECTIONS ARE TO BE FORMED USING A MINIMUM OF 2No. M16 GRADE 8.8 BOLTS.

4. ALL WELDED CONNECTIONS ARE TO BE FORMED USING 6mm FILLET WELD AS A MINIMUM.

5. ALL STEEL TO STEEL AND BASEPLATE CONNECTIONS ARE TO BE DESIGNED AND DETAILED BY THE SPECIALIST SUB-CONTRACTOR. REFER TO THE SPECIFICATIONS FOR FURTHER DETAILS. IN ADDITION TO GRAVITY AND WIND LOADS stc. ALL CONNECTIONS ARE TO BE DESIGNED TO RESIST TIE FORCE LOADS IN ACCORDANCE WITH THE BUILDING REGULATIONS REQUIREMENTS FOR PROGRESSIVE COLLAPSE. FOR TENDER PURPOSES ALLOW FOR AN UNFACTORED LOAD OF 75kN.

6. CONNECTION LOADS/MOMENTS - FOR TENDER PURPOSES ASSUME THE FOLLOWING: (ALL LOADS & MOMENT ARE FACTORED).

MOMENT SHEAR AXIAL (T/C)

7. FIRE PROTECTION TO STEELWORK TO ARCHITECTS DETAILS.

8. ALL WATERPROOFING AND TANKING TO ARCHITECTS DETAILS.

CONCRETE NOTES STRUCTURAL ALTERATION WORKS TO EXISTING TERRACES AND PUBLIC HOUSE 1. CONCRETE FOR ALL REINFORCED FOUNDATIONS & GROUND FLOOR SLABS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500.

2. CONCRETE FOR UNDERPINNING / MASS CONCRETE FOUNDATIONS TO BE FND 3. DESIGNATED MIX TO BS 8500.

3. CONCRETE FOR SUPER STRUCTURE WORKS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500.

4. ALL REINFORCEMENT INCLUDING MESH TO BE HIGH YIELD GRADE 500 C TO BS 4449:2005.

5. REFER TO SPECIFICATION FOR DETAILS OF CONCRETE TESTING.

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DIAGONAL STABILITY BRACE

9

STRUCTURAL GROUND BEAM SCHEDULE MARK DESCRIPTION D' H)

8

EXISTING DOOR OPENING INCREASED IN WIDTH, ALLOW FOR STITCHING IN NEW BRICKWORK MAKING GOOD REVEALS AND FOR

GROUND BEAM

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   THE PAPER OF THE PAPER. DIMENSIONS ONLY.

STRUCTUR	RAL COLUMN SCHED
MARK	DESCRIPTION
C1	UC152x152x37
C2	UC203x203x60
C3	UC254x254x107
C4	UC203x203x46
C5	CHS139 7v10

IARK	DESCRIPTION
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B5	UC203x203x86
B6	UB305x127x37
B7	UC203x203x46
B8	200x90x30 PFC
B9	RHS200x120x10.0

### - DENOTES CRANKED BEAM

NOTE:
12mm THICK PLATE TO BE
WELDED TO UNDERSIDE OF ALL
BEAMS SUPPORTING R.C.
COMPOSITE SLABS - PLATES TO
BE 200mm WIDER THAN WIDTH
OF BEAM OF BEAM

STRUCTURAL BRACING SCHEDULE	
MARK	DESCRIPTION
BR1	10x100mm FLAT

### LEGEND

STEP IN LEVEL

DENOTES STEEL BEAM

DENOTES MOMENT CONNECTION BETWEEN STEEL MEMBERS

DENOTES STEEL CROSS BRACING

DIRECTION OF SPAN OF 200mm THICK COMPOSITE R.C. SLABS CONSTRUCTED USING R.C. 40 CONCRETE AND KINGSPAN MD80 V2 1.1mm THICK DECKING WITH 1 LAYER A193 MESH AND 1no. H12 BAR PER TROUGH.

DIRECTION OF SPAN OF 200x50mm C16 TIMBER JOISTS @ 400mm c/c SHEATHED IN 18mm PLYWOOD

DIRECTION OF SPAN OF 250mm THICK CAST IN-SITU R.C. SLAB

DIRECTION OF SPAN OF 125x50mm C16 TIMBER JOISTS @ 400mm c/c

EXISTING MASONRY STRUCTURE

//////// EXISTING MASONRY MADE GOOD

11/1/1// NEW BRICKWORK NEW BLOCKWORK

CONNECTION POINT OF MANSARD ROOF BEAMS

### NOT FOR CONSTRUCTION

		REVISED AS CLOUDED	KDE	IP
T1	22.06.15	ISSUED FOR TENDER	KDE	IP
Rev	Date	Description	Drawn	Check



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Drawing Status **TENDER** 

Date JAN 2015 Scale 1:50 Drawn KDE

2 Britannia Street London WC1X 9JE

Engineer IP 140408

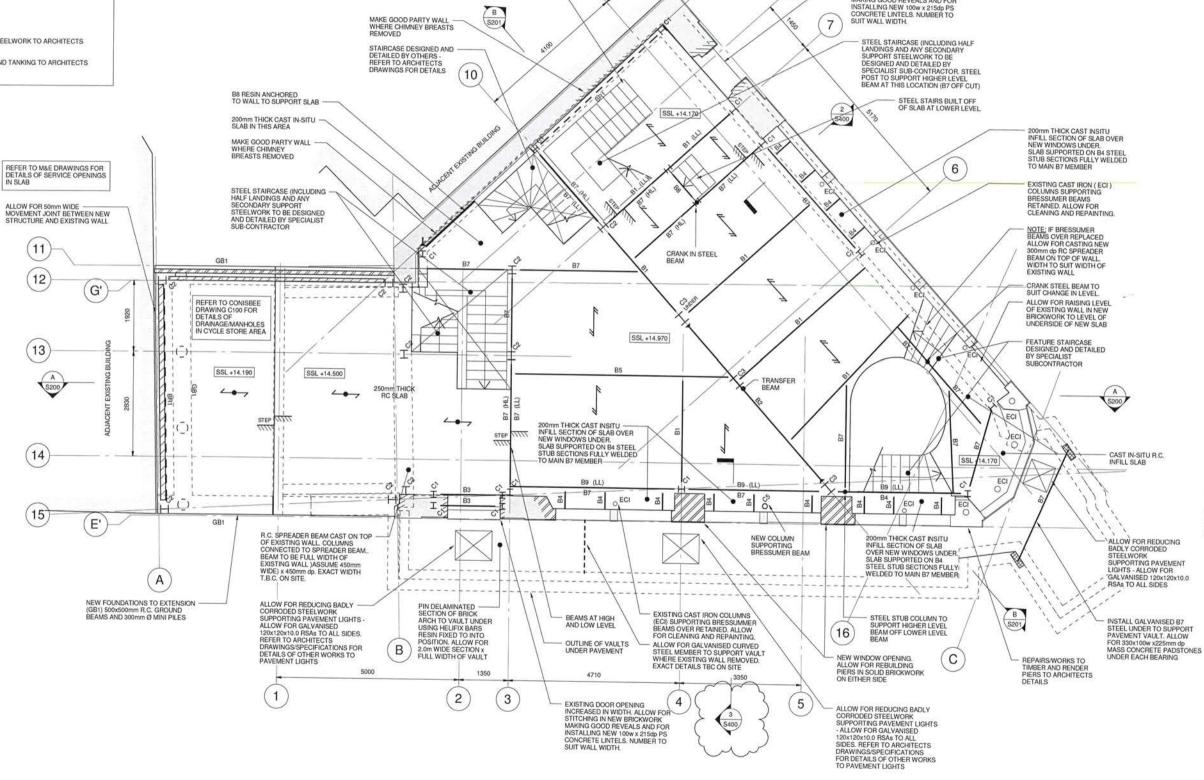
Title

Project

GENERAL ARRANGEMENT -**GROUND FLOOR** 

Drawing No S101

Revision T2



1. ALL STEEL TO BE GRADE \$275 EXCEPT CIRCULAR / BOX SECTION COLUMNS WHICH ARE TO BE GRADE \$355.

2. REFER TO STRUCTURAL SPECIFICATION FOR DETAILS OF PAINT FINISHES TO STEELWORK.

3. ALL 'BEAM TO BEAM' AND 'BEAM TO COLUMN' CONNECTIONS ARE TO BE FORMED USING A MINIMUM OF 2No. M16 GRADE 8.8 BOLTS.

4. ALL WELDED CONNECTIONS ARE TO BE FORMED USING 6mm FILLET WELD AS A MINIMUM.

5. ALL STEEL TO STEEL AND BASEPLATE CONNECTIONS ARE TO BE DESIGNED AND DETAILED BY THE SPECIALIST SUB-CONTRACTOR. REFER TO THE SPECIFICATIONS FOR FURTHER DETAILS. IN ADDITION TO GRAVITY AND WIND LOADS etc. ALL CONNECTIONS ARE TO BE DESIGNED TO RESIST THE FORCE LOADS IN ACCORDANCE WITH THE BUILDING REGULATIONS REQUIREMENTS FOR PROGRESSIVE COLLAPSE. FOR TENDER PURPOSES ALLOW FOR AN UNFACTORED LOAD OF 75KN.

6. CONNECTION LOADS/MOMENTS - FOR TENDER PURPOSES ASSUME THE FOLLOWING: (ALL LOADS & MOMENT ARE FACTORED).

MOMENT SHEAR AXIAL (T/C)

7. FIRE PROTECTION TO STEELWORK TO ARCHITECTS DETAILS.

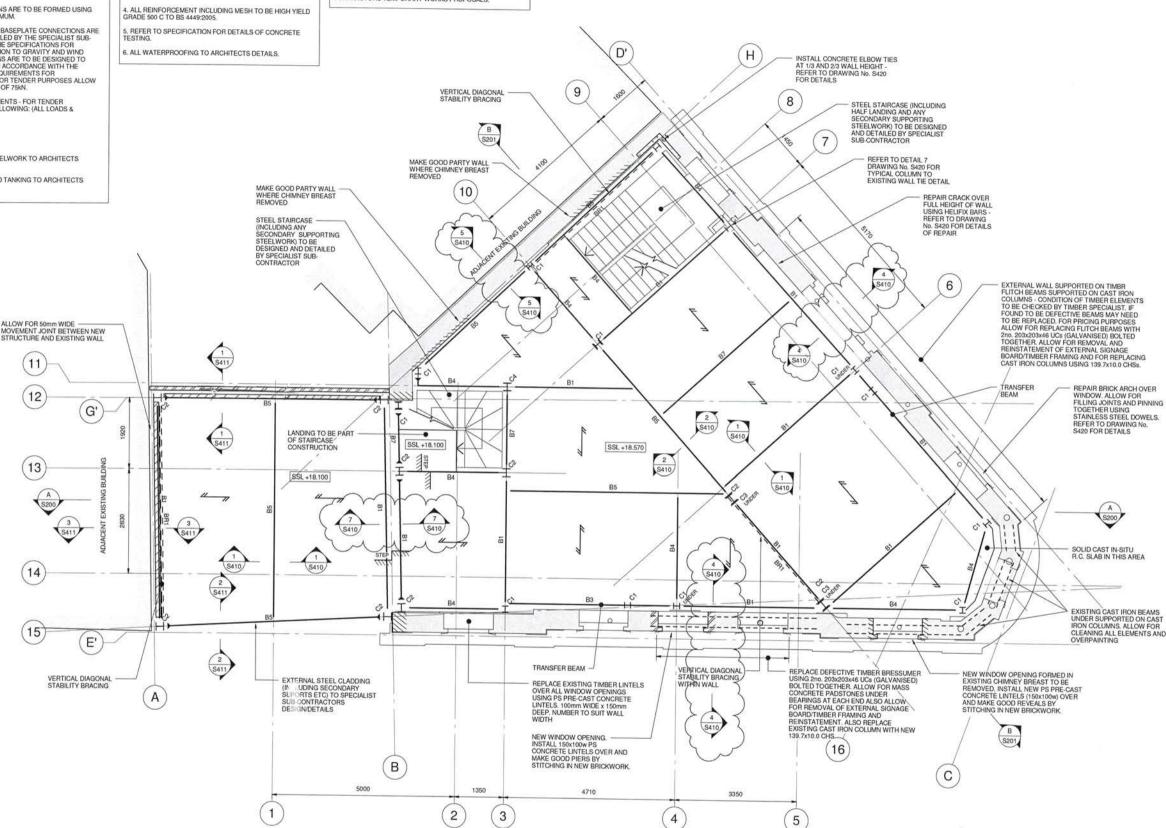
8. ALL WATERPROOFING AND TANKING TO ARCHITECTS DETAILS.

CONCRETE NOTES STRUCTURAL ALTERATION WORKS TO EXISTING TERRACES AND PUBLIC HOUSE 1. CONCRETE FOR ALL REINFORCED FOUNDATIONS & GROUND FLOOR SLABS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500.

2. CONCRETE FOR UNDERPINNING / MASS CONCRETE FOUNDATIONS TO BE FND 3. DESIGNATED MIX TO BS 8500.

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  SPECIFICATIONS
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MARK	DESCRIPTION
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C4	UC203x203x46
C5	CHS139.7x10

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B6	UB305x127x37
B7	UC203x203x46
88	200x90x30 PFC
B9	RHS200x120x10.0

- DENOTES CRANKED BEAM

NOTE: 12mm THICK PLATE TO BE WELDED TO UNDERSIDE OF ALL BEAMS SUPPORTING R.C. COMPOSITE SLABS - PLATES TO BE 200mm WIDER THAN WIDTH OF BEAM.

STRUCTUR	RAL BRACING SCHEDULE
MARK	DESCRIPTION
BR1	10x100mm FLAT

### LEGEND

STEP /////	STEP IN LEVEL
B	DENOTES STEEL BEAM
-	DENOTES MOMENT CONNECTION BETWEEN STEEL MEMBERS
_ BR _	DENOTES STEEL CROSS BRACING
"	DIRECTION OF SPAN OF 200mm THICK COMPOSITE R.C. SLABS CONSTRUCTE! USING RC 40 CONCRETE AND KINGSPA MD80 V2 1.1mm THICK DECKING WITH 1 LAYER A193 MESH AND 1no. H12 BAR PER TROUGH.
$\leftarrow$	DIRECTION OF SPAN OF 200x50mm C16 TIMBER JOISTS @ 400mm c/c SHEATHEI IN 18mm PLYWOOD
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TV SV	EXISTING MASONRY STRUCTURE
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	NEW BRICKWORK
7////	NEW BLOCKWORK

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Rev	Date	Description	Drawn	Check
Ti	22.06.15	ISSUED FOR TENDER	KDE	IP
		REVISED AS CLOUDED	KDE	IP

CONNECTION POINT OF MANSARD ROOF BEAMS



London N1 1DH Tel 020 7700 6666 Fax 020 7700 6686 design@conisbee.co.u www.conisbee.co.uk

Date JAN 2015

Drawing Status **TENDER** Project

Scale 1:50 Drawn KDE Engineer IP

2 Britannia Street London WC1X 9JE

140408 Drawing No

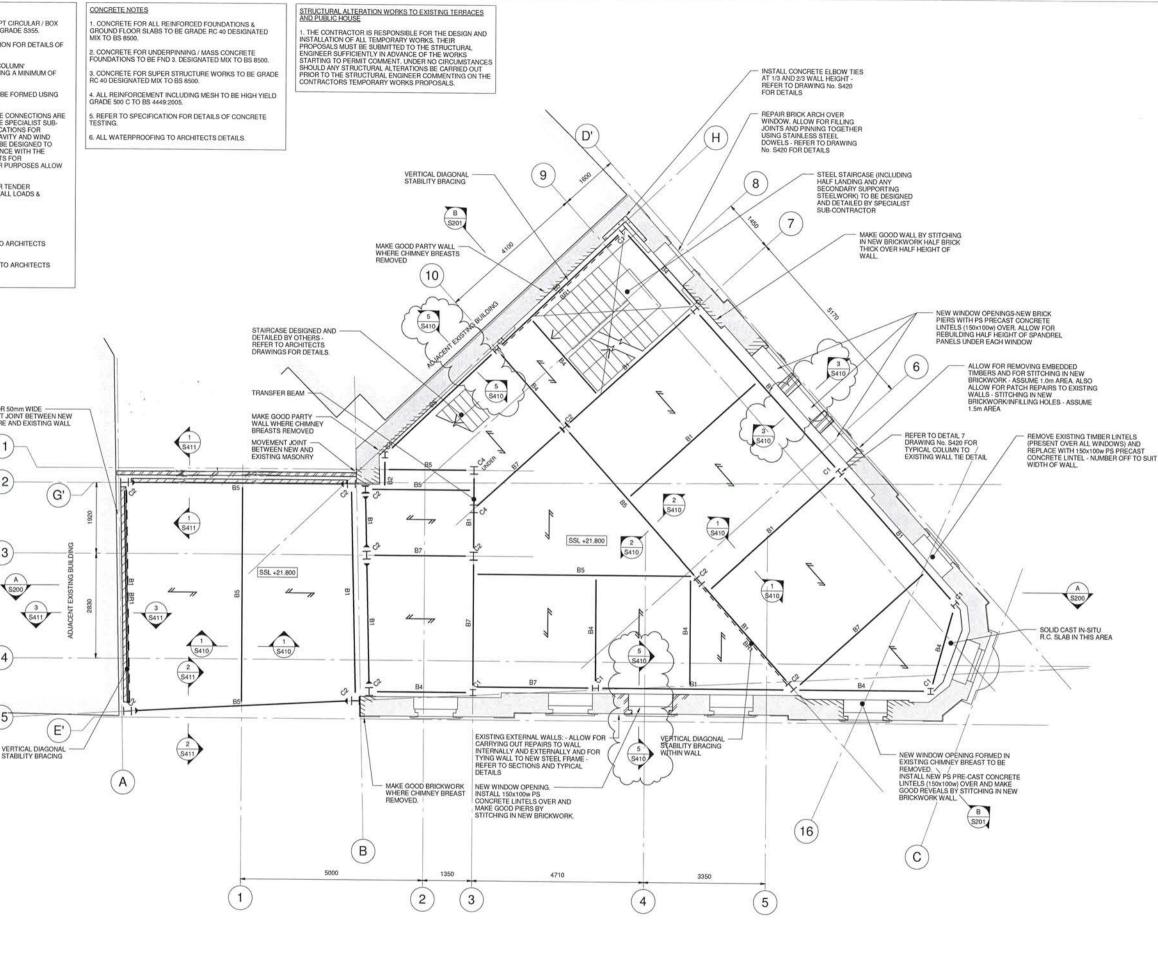
GENERAL ARRANGEMENT FIRST FLOOR

S102 Revision T2

# STEELWORK NOTES 1. ALL STEEL TO BE GRADE \$275 EXCEPT CIRCULAR / BOX SECTION COLUMNS WHICH ARE TO BE GRADE \$355. 2. REFER TO STRUCTURAL SPECIFICATION FOR DETAILS OF PAINT FINISHES TO STEELWORK. 3. ALL 'BEAM TO BEAM' AND 'BEAM TO COLUMN' CONNECTIONS ARE TO BE FORMED USING A MINIMUM OF 2No. M16 GRADE 8.8 BOLTS, 4. ALL WELDED CONNECTIONS ARE TO BE FORMED USING 6mm FILLET WELD AS A MINIMUM. S. ALL STEEL TO STEEL AND BASEPLATE CONNECTIONS ARE TO BE DESIGNED AND DETAILED BY THE SPECIALIST SUB-CONTRACTOR. REFER TO THE SPECIFICATIONS FOR FURTHER DETAILS. IN ADDITION TO GRAVITY AND WIND LOADS etc. ALL CONNECTIONS ARE TO BE DESIGNED TO RESIST TIE FORCE LOADS IN ACCORDANCE WITH THE BUILDING REGULATIONS REQUIREMENTS FOR PROGRESSYE COLLAPSE. FOR TENDER PURPOSES ALLOW FOR AN UNFACTORED LOAD OF 75KN. 6. CONNECTION LOADS/MOMENTS - FOR TENDER PURPOSES ASSUME THE FOLLOWING: (ALL LOADS & MOMENT ARE FACTORED). SHEAR = 120kN AXIAL (T/C) = 20kN 7. FIRE PROTECTION TO STEELWORK TO ARCHITECTS DETAILS. 8. ALL WATERPROOFING AND TANKING TO ARCHITECTS DETAILS. ALLOW FOR 50mm WIDE — MOVEMENT JOINT BETWEEN NEW STRUCTURE AND EXISTING WALL (11)

(12)

CONCRETE NOTES



#### GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIFICATIONS
- DO NOT SCALE FROM THIS DRAWING IN EITHER PAPER OR DIGITAL FORM. USE WRITTEN DIMENSIONS ONLY.

MARK	DESCRIPTION
C1	UC152x152x37
C2	UC203x203x60
C3	UC254x254x107
C4	UC203x203x46
C5	CHS139.7x10

MARK	DESCRIPTION
B1	UC203x203x60
B2	UC305x305x97
B3	UC254x254x89
B4	UB203x133x30
B5	UC203x203x86
B6	UB305x127x37
B7	UC203x203x46
B8	200x90x30 PFC
B9	RHS200x120x10.0

### DENOTES CRANKED BEAM

NOTE: 12mm THICK PLATE TO BE WELDED TO UNDERSIDE OF ALL BEAMS SUPPORTING R.C. COMPOSITE SLABS - PLATES TO BE 200mm WIDER THAN WIDTH OF BEAM.

STRUCTUR	RAL BRACING SCHEDULE
MARK	DESCRIPTION
DD1	10v100mm ELAT

STEP IN LEVEL

### LEGEND STEP NTTT

11111	STEP IN LEVEL
В	DENOTES STEEL BEAM
-	DENOTES MOMENT CONNECTION BETWEEN STEEL MEMBERS
_ BR _	DENOTES STEEL CROSS BRACING
"	DIRECTION OF SPAN OF 200mm THICK COMPOSITE R.C. SLABS CONSTRUCTE USING RC 40 CONCRETE AND KINGSPA MD80 V2 1.1mm THICK DECKING WITH 1 LAYER A193 MESH AND 1 no. H12 BAR PER TROUGH.
$\leftarrow$	DIRECTION OF SPAN OF 200x50mm C16 TIMBER JOISTS @ 400mm c/c SHEATHEI IN 18mm PLYWOOD
<del></del>	DIRECTION OF SPAN OF 250mm THICK CAST IN-SITU R.C. SLAB
$\leftarrow$	DIRECTION OF SPAN OF 125x50mm C16 TIMBER JOISTS @ 400mm c/c
	EXISTING MASONRY STRUCTURE
////////	EXISTING MASONRY MADE GOOD
	NEW BRICKWORK
7////	NEW BLOCKWORK

### NOT FOR CONSTRUCTION

CONNECTION POINT OF MANSARD ROOF BEAMS

Rev	Date	Description	Drawn	Check
T1	22.06.15	ISSUED FOR TENDER	KDE	IP
		REVISED AS CLOUDED	KDE	IP

conisbee London N1 10H Tel 020 7700 6666 Fax 020 7700 6666

Drawing Status Date JAN 2015 **TENDER** Project Drawn KDE Engineer IP 2 Britannia Street London WC1X 9JE Project No

> 140408 Drawing No.

> > T2

GENERAL ARRANGEMENT -SECOND FLOOR

S103 Revision

2. REFER TO STRUCTURAL SPECIFICATION FOR DETAILS OF PAINT FINISHES TO STEELWORK.

3. ALL 'BEAM TO BEAM' AND 'BEAM TO COLUMN' CONNECTIONS ARE TO BE FORMED USING A MINIMUM OF 2No. M16 GRADE 8.8 BOLTS.

4. ALL WELDED CONNECTIONS ARE TO BE FORMED USING 6mm FILLET WELD AS A MINIMUM.

5. ALL STEEL TO STEEL AND BASEPLATE CONNECTIONS ARE TO BE DESIGNED AND DETAILED BY THE SPECIALIST SUB-CONTRACTOR. REFER TO THE SPECIFICATIONS FOR FURTHER DETAILS. IN ADDITION TO GRAVITY AND WIND FORTHER DETAILS. IN ADDITION TO GRAVITY AND WIND LOADS (e. ALL CONNECTIONS ARE TO BE DESIGNED TO RESIST TIE FORCE LOADS IN ACCORDANCE WITH THE BUILDING REGULATIONS REQUIREMENTS FOR PROGRESSIVE COLLAPSE. FOR TENDER PURPOSES ALLOW FOR AN UNFACTORED LOAD OF 75kN.

6. CONNECTION LOADS/MOMENTS - FOR TENDER PURPOSES ASSUME THE FOLLOWING: (ALL LOADS & MOMENT ARE FACTORED).

MOMENT SHEAR AXIAL (T/C)

7. FIRE PROTECTION TO STEELWORK TO ARCHITECTS DETAILS.

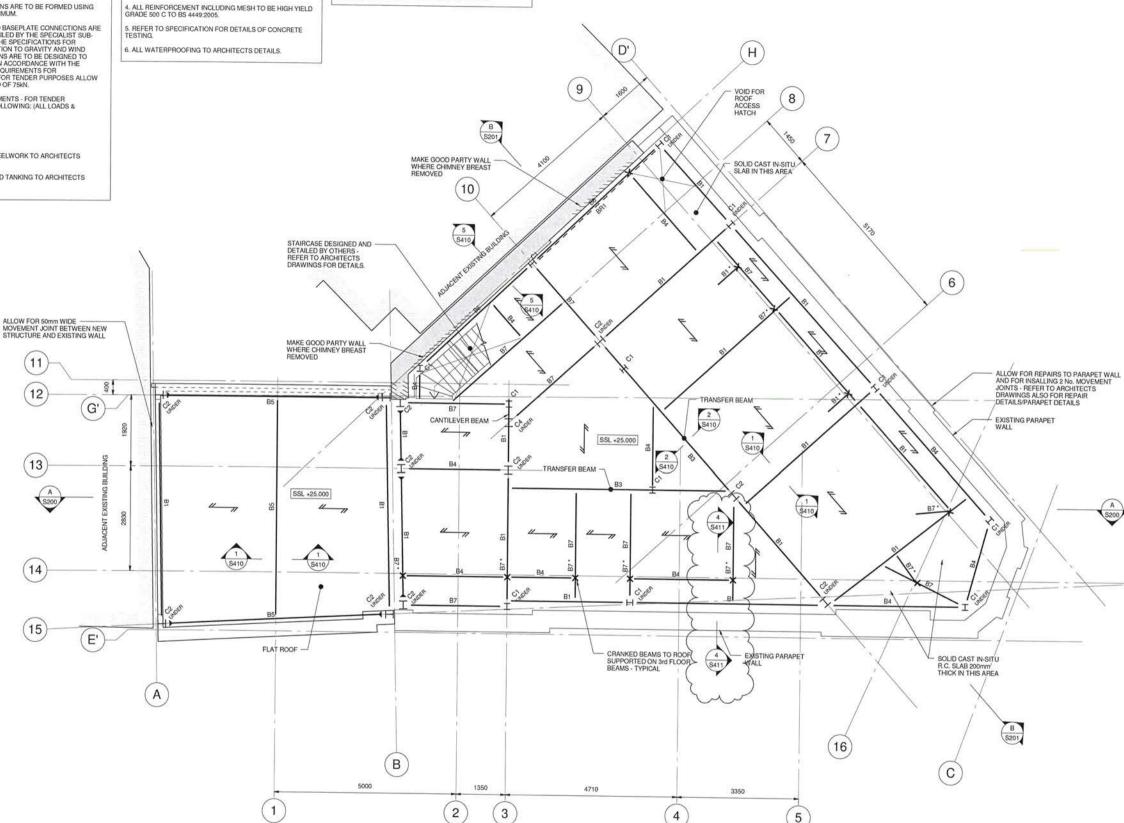
8. ALL WATERPROOFING AND TANKING TO ARCHITECTS DETAILS.

CONCRETE NOTES STRUCTURAL ALTERATION WORKS TO EXISTING TERRACES AND PUBLIC HOUSE 1. CONCRETE FOR ALL REINFORCED FOUNDATIONS & GROUND FLOOR SLABS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500.

2. CONCRETE FOR UNDERPINNING / MASS CONCRETE FOUNDATIONS TO BE FND 3. DESIGNATED MIX TO BS 8500.

3. CONCRETE FOR SUPER STRUCTURE WORKS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500.

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY WORKS, THEIR PROPOSALS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER SUFFICIENTLY IN ADVANCE OF THE WORKS STARTING TO PERMIT COMMENT. UNDER NO CIRCUMSTANCES SHOULD ANY STRUCTURAL ALTERATIONS BE CARRIED OUT PRIOR TO THE STRUCTURAL ENGINEER COMMENTING ON THE CONTRACTORS TEMPORARY WORKS PROPOSALS.



#### GENERAL NOTES

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STRUCTUR	RAL COLUMN SCHEDULE
MARK	DESCRIPTION
C1	UC152x152x37
C2	UC203x203x60
C3	UC254x254x107
C4	UC203x203x46
C5	CHS139.7x10

MARK	DESCRIPTION
B1	UC203x203x60
B2	UC305x305x97
B3	UC254x254x89
B4	UB203x133x30
B5	UC203x203x86
B6	UB305x127x37
B7	UC203x203x46
B8	200x90x30 PFC
B9	RHS200x120x10.0

DENOTES CRANKED BEAM

NOTE: 12mm THICK PLATE TO BE WELDED TO UNDERSIDE OF ALL BEAMS SUPPORTING R.C. COMPOSITE SLABS - PLATES TO BE 200mm WIDER THAN WIDTH OF BEAM.

STRUCTURAL BRACING SCHEDULE	
MARK	DESCRIPTION
DD1	10v100mm FLAT

### LEGEND

STEP TTTT STEP IN LEVEL

DENOTES STEEL BEAM

DENOTES MOMENT CONNECTION BETWEEN STEEL MEMBERS DENOTES STEEL CROSS BRACING

DIRECTION OF SPAN OF 200mm THICK COMPOSITE R.C. SLABS CONSTRUCTED USING RG 40 CONCRETE AND KINGSPAN MD80 V2 1.1mm THICK DECKING WITH 1 LAYER 4193 MESH AND 1no. H12 BAR PER TROUGH.

DIRECTION OF SPAN OF 200x50mm C16 TIMBER JOISTS @ 400mm c/c SHEATHED IN 18mm PLYWOOD

DIRECTION OF SPAN OF 250mm THICK CAST IN-SITU R.C. SLAB

DIRECTION OF SPAN OF 125x50mm C16 TIMBER JOISTS @ 400mm c/c

EXISTING MASONRY STRUCTURE

11111111 EXISTING MASONRY MADE GOOD

11111111 NEW BRICKWORK NEW BLOCKWORK

CONNECTION POINT OF MANSARD ROOF BEAMS

### NOT FOR CONSTRUCTION

T2	30.06.15	REVISED AS CLOUDED	KDE	IP.
T1	22.06.15	ISSUED FOR TENDER	KDE	IP
Rev	Date	Description	Drawn	Check



London N1 1DH Tel 020 7700 6666 Fax 020 7700 6686 www.conisbee.co.uk

Date JAN 2015

1:50

KDE

Drawing Status TENDER

Drawn 2 Britannia Street,

Engineer IP Project No 140408

Scale

London WC1X 9JE

GENERAL ARRANGEMENT -THIRD FLOOR

Drawing No. S104 Revision

**T2** 

THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DRAWINGS. DO NOT SCALE FROM THIS DRAWING.

1. ALL STEEL TO BE GRADE \$275 EXCEPT CIRCULAR / BOX SECTION COLUMNS WHICH ARE TO BE GRADE \$355.

2. REFER TO STRUCTURAL SPECIFICATION FOR DETAILS OF PAINT FINISHES TO STEELWORK.

3. ALL 'BEAM TO BEAM' AND 'BEAM TO COLUMN' CONNECTIONS ARE TO BE FORMED USING A MINIMUM OF 2No. M16 GRADE 8.8 BOLTS.

4. ALL WELDED CONNECTIONS ARE TO BE FORMED USING 6mm FILLET WELD AS A MINIMUM.

5. ALL STEEL TO STEEL AND BASEPLATE CONNECTIONS ARE TO BE DESIGNED AND DETAILED BY THE SPECIALIST SUB-CONTRACTOR. REFER TO THE SPECIFICATIONS FOR FURTHER DETAILS. IN ADDITION TO GRAVITY AND WIND LOADS etc. ALL CONNECTIONS ARE TO BE DESIGNED TO RESIST TIE FORCE LOADS IN ACCORDANCE WITH THE BUILDING REGULATIONS REQUIREMENTS FOR PROGRESSYE COLLAPSE. FOR TENDER PURPOSES ALLOW FOR AN UNFACTORED LOAD OF 75KN.

6. CONNECTION LOADS/MOMENTS - FOR TENDER PURPOSES ASSUME THE FOLLOWING: (ALL LOADS & MOMENT ARE FACTORED).

MOMENT = 50kNm SHEAR = 120kN AXIAL (T/C) = 20kN

7. FIRE PROTECTION TO STEELWORK TO ARCHITECTS DETAILS.

8. ALL WATERPROOFING AND TANKING TO ARCHITECTS DETAILS.

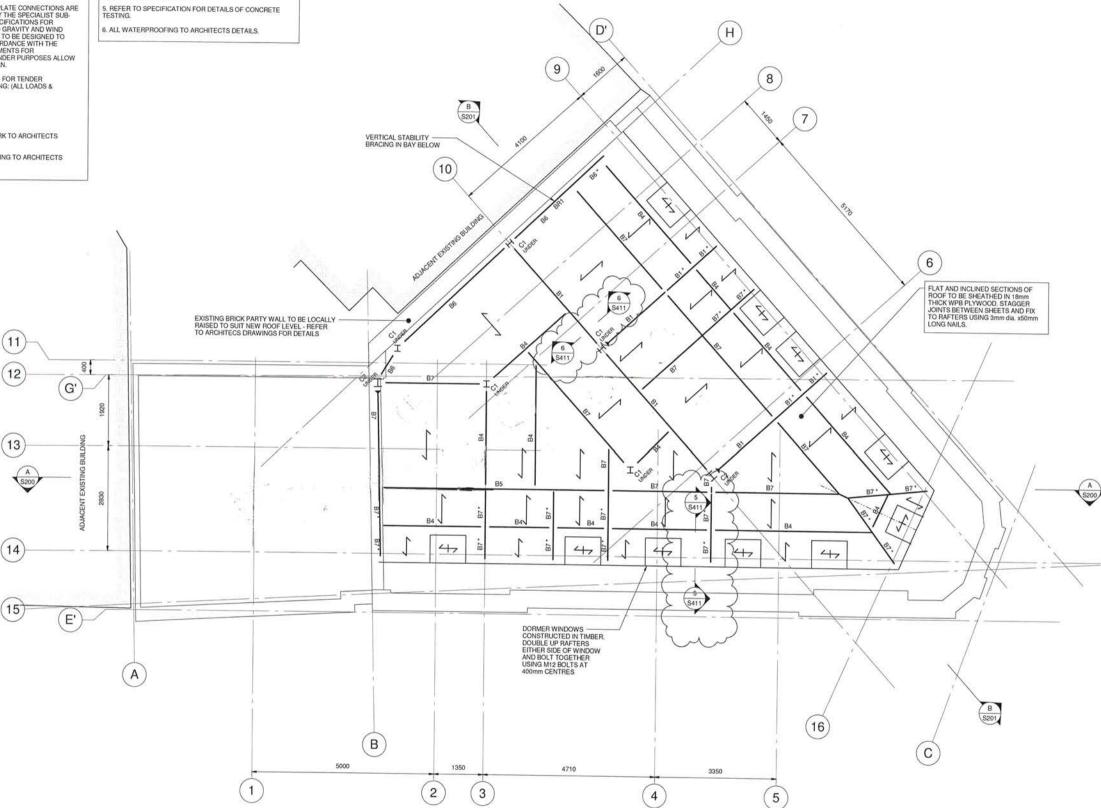
CONCRETE NOTES STRUCTURAL ALTERATION WORKS TO EXISTING TERRACES AND PUBLIC HOUSE 1. CONCRETE FOR ALL REINFORCED FOUNDATIONS & GROUND FLOOR SLABS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500.

2. CONCRETE FOR UNDERPINNING / MASS CONCRETE FOUNDATIONS TO BE FND 3. DESIGNATED MIX TO BS 8500.

3. CONCRETE FOR SUPER STRUCTURE WORKS TO BE GRADE RC 40 DESIGNATED MIX TO BS 8500.

4. ALL REINFORCEMENT INCLUDING MESH TO BE HIGH YIELD GRADE 500 C TO BS 4449:2005.

THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY WORKS, THEIR PROPOSALS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER SUFFICIENTLY IN ADVANCE OF THE WORKS STARTING TO PERMIT COMMENT. UNDER NO CIRCUMSTANCES SHOULD ANY STRUCTURAL ALTERATIONS BE CARRIED OUT PRIOR TO THE STRUCTURAL ENGINEER COMMENTING ON THE CONTRACTORS TEMPORARY WORKS PROPOSALS.



#### GENERAL NOTES

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MARK	DESCRIPTION
C1	UC152x152x37
C2	UC203x203x60
C3	UC254x254x107
C4	UC203x203x46
C5	CHS139.7x10

STRUCT	URAL BEAM SCHEDULE
MARK	DESCRIPTION
B1	UC203x203x60
B2	UC305x305x97
B3	UC254x254x89
B4	UB203x133x30
B5	UC203x203x86
B6	UB305x127x37
B7	UC203x203x46
88	200x90x30 PFC
B9	RHS200x120x10.0

- DENOTES CRANKED BEAM

NOTE:
12mm THICK PLATE TO BE
WELDED TO UNDERSIDE OF ALL
BEAMS SUPPORTING R.C.
COMPOSITE SLABS - PLATES TO
BE 200mm WIDER THAN WIDTH
OF BEAM.

STRUCTURAL BRACING SCHEDULE			
MARK	DESCRIPTION		
BR1	10v100mm ELAT		

LEGEND	
STEP	STEP IN LEVEL
В	DENOTES STEEL BEAM
-	DENOTES MOMENT CONNECTION BETWEEN STEEL MEMBERS
_ BR _	DENOTES STEEL CROSS BRACING
<i>"-"</i>	DIRECTION OF SPAN OF 200mm THICK COMPOSITE R.C. SLABS CONSTRUCTE! USING R.C. 40 CONCRETE AND KINGSPA MD80 V2 1.1mm THICK DECKING WITH 1 LAYER A193 MESH AND 1no. H12 BAR PER TROUGH.
$\leftarrow$	DIRECTION OF SPAN OF 200x50mm C16 TIMBER JOISTS @ 400mm c/c SHEATHEI IN 18mm PLYWOOD
<del></del>	DIRECTION OF SPAN OF 250mm THICK CAST IN-SITU R.C. SLAB
$\leftarrow$	DIRECTION OF SPAN OF 125x50mm C16 TIMBER JOISTS @ 400mm c/c
	EXISTING MASONRY STRUCTURE
////////	EXISTING MASONRY MADE GOOD
	NEW BRICKWORK

### NOT FOR CONSTRUCTION

Rev	Date	Description	Drawn	Check
11	22.06.15	ISSUED FOR TENDER	KDE	ΙP
		REVISED AS CLOUDED	KDE	IP

NEW BLOCKWORK



London N1 1DH Tel 020 7700 6666 Fax 020 7700 6686 design@conisbee.co.uk

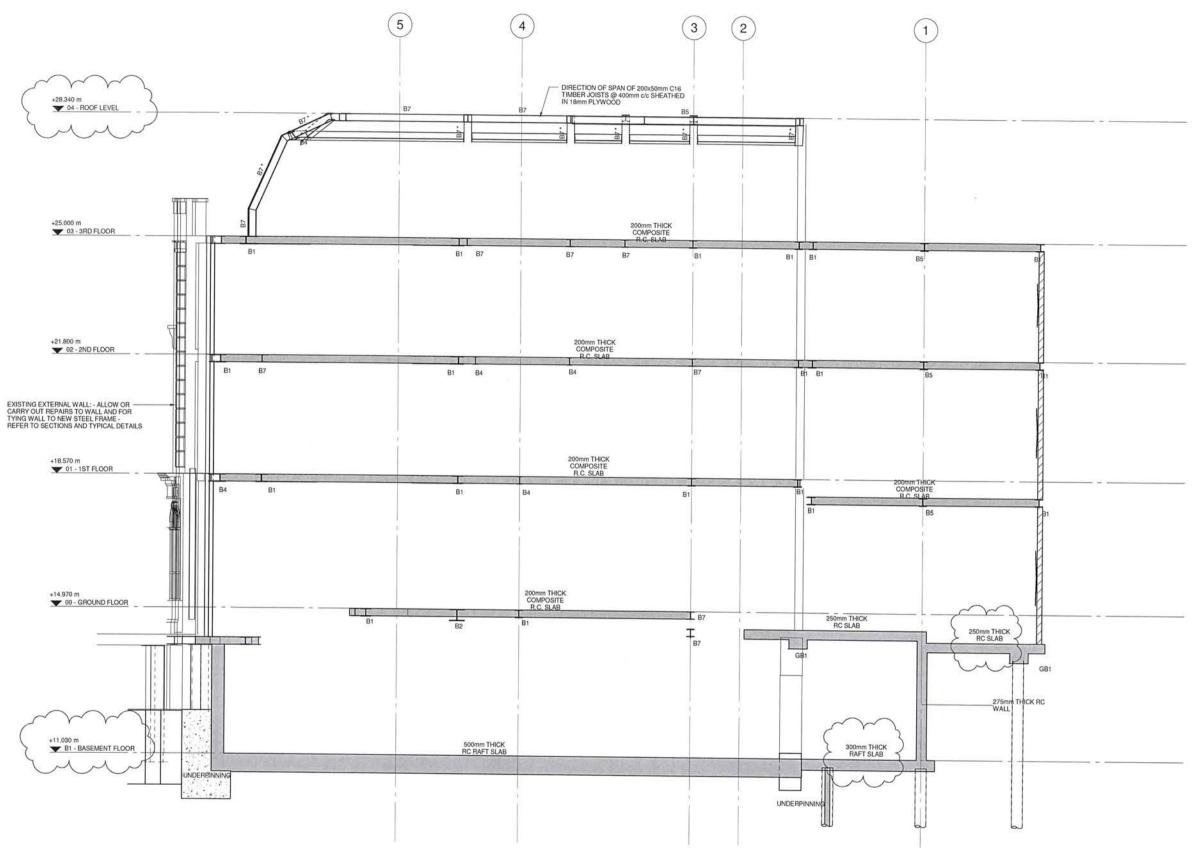
Drawing Status	Date JA	N 2015
TENDER	Scale	1:50
Project	Drawn	KDE
2 Britannia Street,	Engineer	IP
London WC1X 9JE	Drainet N	io

Project No.

GENERAL ARRANGEMENT -ROOF LEVEL

140408 Drawing No S105

Revision T2



A Section A

### GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION
  WITH ALL RELEVANT ARCHITECTS, ENGINEERS
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MARK	DESCRIPTION
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B8	200x90x30 PFC
B9	RHS200x120x10.0

### \* - DENOTES CRANKED BEAM

NOTE: 12mm THICK PLATE TO BE WELDED TO UNDERSIDE OF ALL BEAMS SUPPORTING R.C. COMPOSITE SLABS - PLATES TO BE 200mm WIDER THAN WIDTH OF BEAM.

STRUCTURAL BRACING SCHEDULE		
MARK	DESCRIPTION	
DD4	10-100 FLAX	

### LEGEND

STEP	STEP IN LEVEL
B	DENOTES STEEL BEAM
-	DENOTES MOMENT CONNECTION BETWEEN STEEL MEMBERS
_ BR _	DENOTES STEEL CROSS BRACING
" "	DIRECTION OF SPAN OF 200mm THICK COMPOSITE R.C. SLABS CONSTRUCTE USING RC 40 CONCRETE AND KINGSP/ MD80 V2 1.1mm THICK DECKING WITH LAYER A193 MESH AND 110. H12 BAR PER TROUGH.
$\leftarrow$	DIRECTION OF SPAN OF 200x50mm C16 TIMBER JOISTS @ 400mm c/c SHEATHE IN 18mm PLYWOOD
<del></del>	DIRECTION OF SPAN OF 250mm THICK CAST IN-SITU R.C. SLAB
$\leftarrow$	DIRECTION OF SPAN OF 125x50mm C16 TIMBER JOISTS @ 400mm c/c
	EXISTING MASONRY STRUCTURE
11111111	EXISTING MASONRY MADE GOOD
1111111	NEW BRICKWORK

## NOT FOR CONSTRUCTION

NEW BLOCKWORK

CONNECTION POINT OF MANSARD ROOF BEAMS

		REVISED AS CLOUDED	KDE	IP.
T1	22.06.15	ISSUED FOR TENDER	KDE	IP
Rev	Date	Description	Drawn	Check



London N1 1DH
Tel 020 7700 6666
Fax 020 7700 6686
design@contisbee.co.uk
www.contisbee.co.uk

Constituting Civil Engineers	www.conisbee.co.uk	
Drawing Status	Date JAN 2015	
TENDER	Scale 1:50	
Project	Drawn KDE	
2 Britannia Street,	Engineer IP	
London WC1X 9JE	Project No	
	140408	

Dráwing

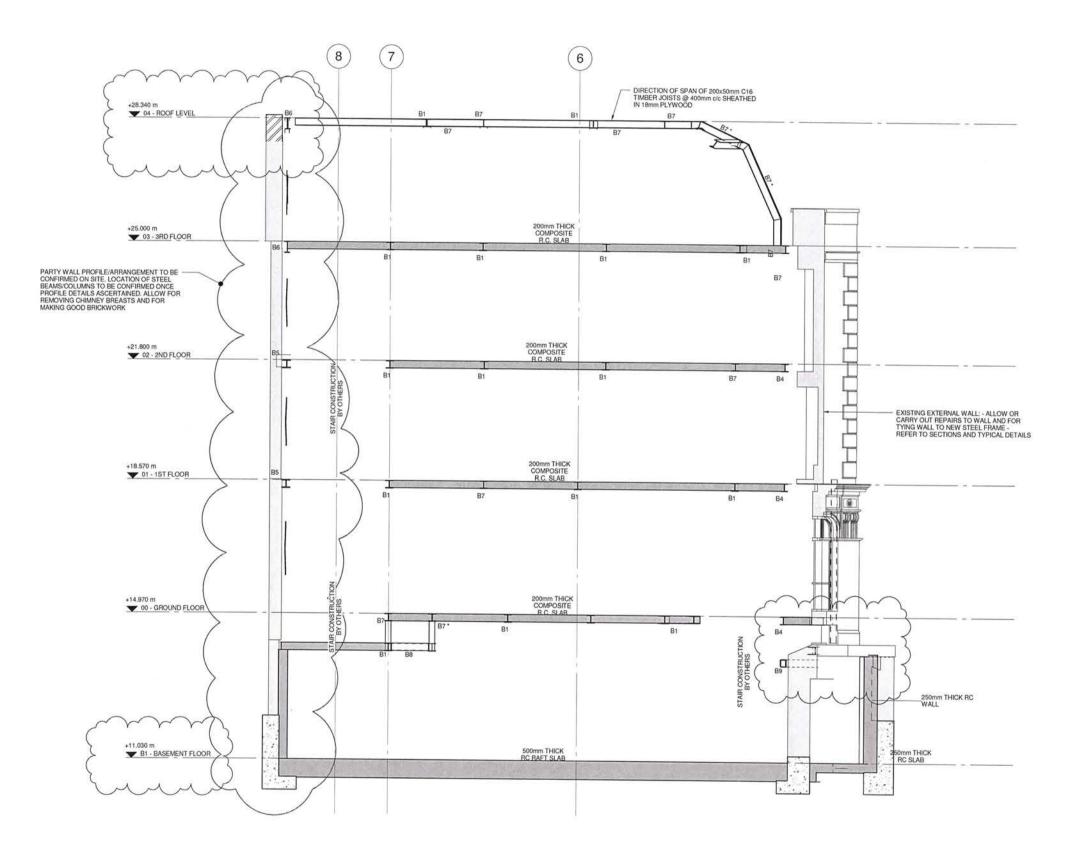
S200 Revision

T2

- ATTOCATES

SECTION - SHEET 1

THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DRAWINGS. DO NOT SCALE FROM THIS DRAWING. —



B Section B

GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS
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C1	UC152x152x37
C2	UC203x203x60
C3	UC254x254x107
C4	UC203x203x46
C5	CHS139,7x10

MARK	DESCRIPTION
B1	UC203x203x60
B2	UC305x305x97
B3	UC254x254x89
B4	UB203x133x30
B5	UC203x203x86
B6	UB305x127x37
B7	UC203x203x46
B8	200x90x30 PFC
B9	RHS200x120x10.0

- DENOTES CRANKED BEAM

NOTE: 12mm THICK PLATE TO BE WELDED TO UNDERSIDE OF ALL BEAMS SUPPORTING R.C. COMPOSITE SLABS - PLATES TO BE 200mm WIDER THAN WIDTH OF BEAM.

ST	RUCTUR	AL BRACING SCHEDULE
M	ARK	DESCRIPTION
E	BR1	10x100mm FLAT

### LECENID

LEGEND	
STEP	STEP IN LEVEL
В	DENOTES STEEL BEAM
-	DENOTES MOMENT CONNECTION BETWEEN STEEL MEMBERS
_ BR _	DENOTES STEEL CROSS BRACING
<i>""</i>	DIRECTION OF SPAN OF 200mm THICK COMPOSITE R.C. SLABS CONSTRUCT USING RG 40 CONCRETE AND KINGSF MD80 V2 1.1mm THICK DECKING WITH LAYER A193 MESH AND 1no. H12 BAR PER TROUGH.
<del></del>	DIRECTION OF SPAN OF 200x50mm C1 TIMBER JOISTS @ 400mm c/c SHEATH IN 18mm PLYWOOD
4	DIRECTION OF SPAN OF 250mm THICK CAST IN-SITU R.C. SLAB
$\leftarrow$	DIRECTION OF SPAN OF 125x50mm C1 TIMBER JOISTS @ 400mm c/c
NEET UNIT	EXISTING MASONRY STRUCTURE
7///////	EXISTING MASONRY MADE GOOD

//////// NEW BRICKWORK NEW BLOCKWORK

CONNECTION POINT OF MANSARD ROOF BEAMS

NOT FOR CONSTRUCTION

Rev	Date	Description	Drawn	Check
T1	22.06.15	ISSUED FOR TENDER	KDE	IP
		REVISED AS CLOUDED	KDE	IP

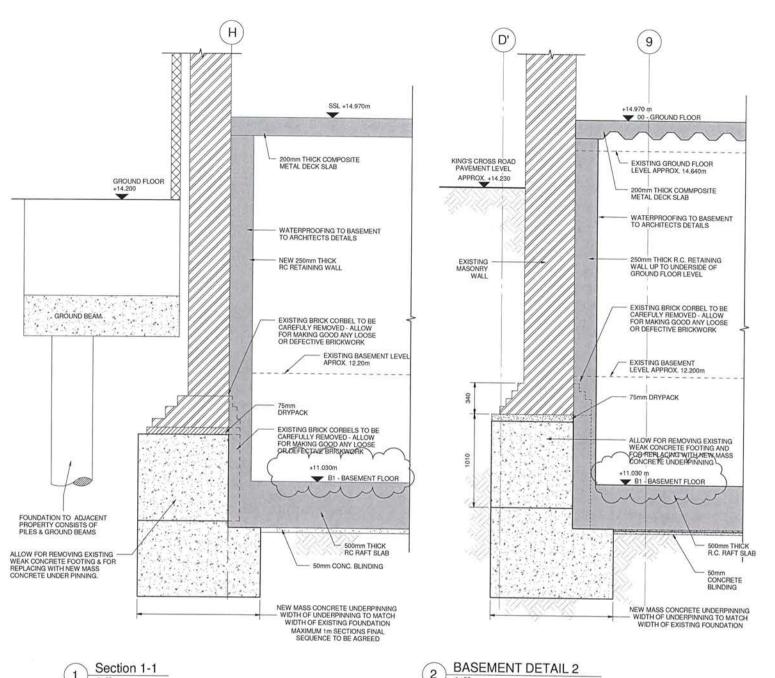


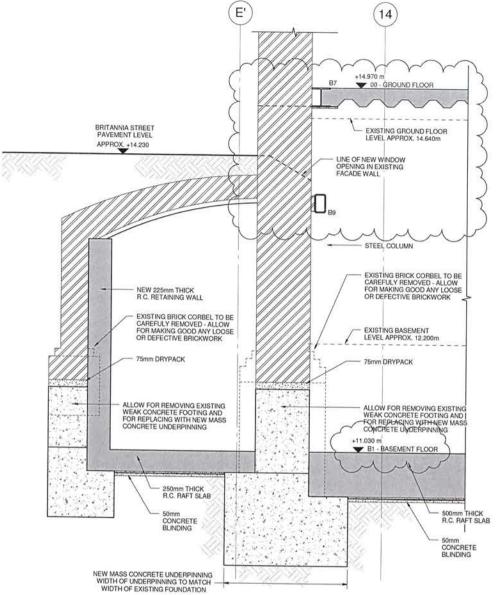
SECTION - SHEET 2

Title	Drawing No	
London WC1X 9JE	Project No 140408	
2 Britannia Street,	Engineer IP	
Project	Drawn KDE	
TENDER	Scale 1:50	
Drawing Status	Date JAN 2015	

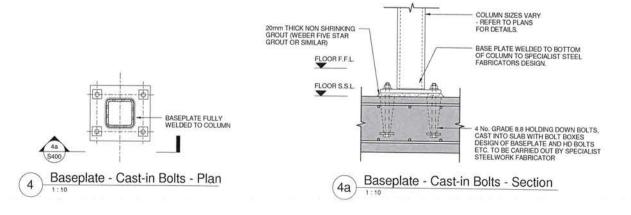
S201 Revision T2

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BASEMENT DETAIL 3 (3)



### NOT FOR CONSTRUCTION

Rev	Date	Description	Drawn	Check
11	22.06.15	ISSUED FOR TENDER	KDE	IP
		REVISED AS CLOUDED	KDE	IP

GENERAL NOTES

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Drawing Status TENDER

Project

2 Britannia Street. London WC1X 9JE Engineer IP 140408

London N1 1DH Tel 020 7700 6666 Fax 020 7700 6686

www.conisbee.co.uk

Date JAN 2015

Drawn KDE

Scale As indicated

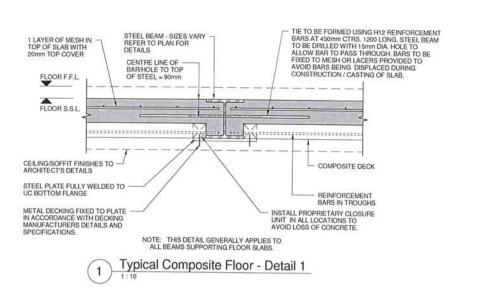
Title

BASEMENT AND GROUND FLOOR DETAILS

Drawing No. S400 Revision

T2

### THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DRAWINGS. DO NOT SCALE FROM THIS DRAWING.



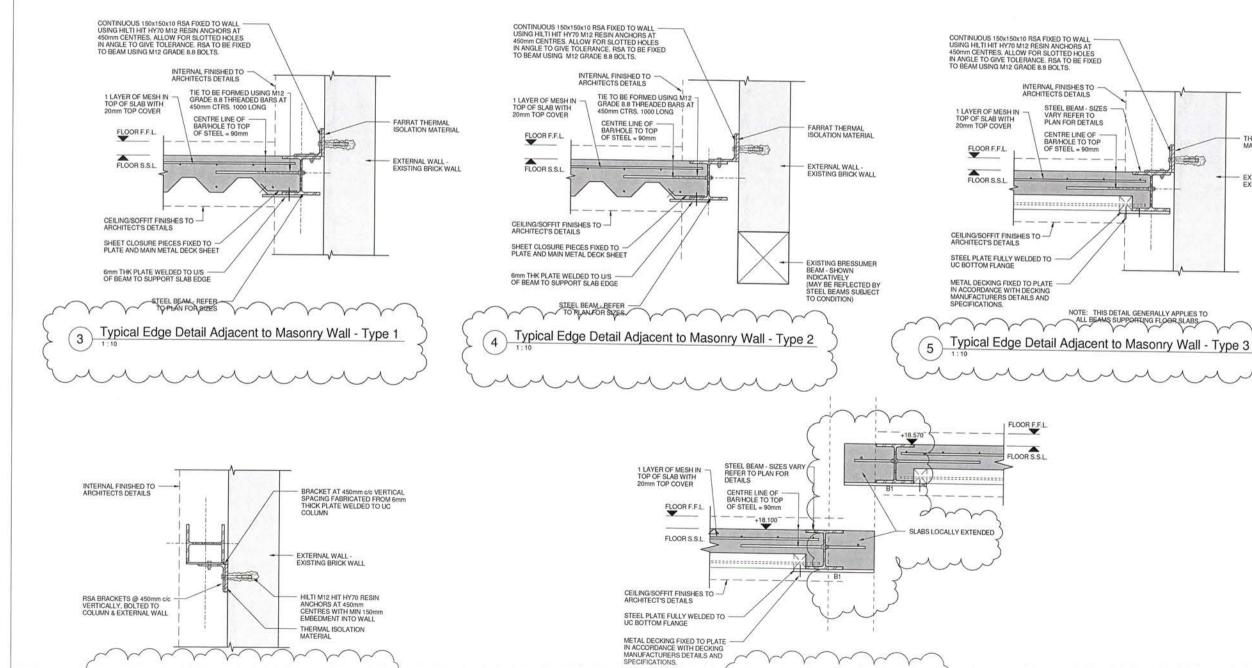
Typical External Wall to Column Restraint

6

TIE TO BE FORMED USING H12 REINFORCEMENT BARS AT 450mm CTRS. 1200 LONG. STEEL BEAM TO BE DRILLED WITH 15mm DIA. HOLE TO ALLOW BAR TO PASS THROUGH. BARS TO BE FIXED TO MESH OR LACERS PROVIDED TO AVOID BARS BEING DISPLACED DURING CONSTRUCTION / CASTING OF SLAB. TIE BEAM. SIZES VARIES -REFER TO PLANS FOR DETAILS CENTRE LINE OF -BAR/HOLE TO TOP OF STEEL = 90mm FLOOR F.F.L. FLOOR S.S.L CEILING/SOFFIT FINISHES TO -ARCHITECT'S DETAILS COMPOSITE DECK ALLOW FOR GALV. STEEL SHEET CLOSURE PIECES AND ALL RELEVANT FIXINGS AS NECESSARY WHERE BEAMS ARE PARALLEL WITH DECK SPAN. REINFORCEMENT BARS IN TROUGHS

Typical Composite Floor - Detail 2

Level 1 - Step in Level



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### NOT FOR CONSTRUCTION

27		ISSUED FOR TENDER	KDE	IP
Rev	Date	Description	Drawn	Check

London N1 1DH Tel 020 7700 6686 Fax 020 7700 6686 design@conisbee.co.uk

Drawing Status **TENDER** 

London WC1X 9JE

Project

THERMAL ISOLATION MATERIAL

EXTERNAL WALL -EXISTING BRICK WALL

Date JAN 2015 Scale 1:10

Drawn KDE Engineer IP 2 Britannia Street,

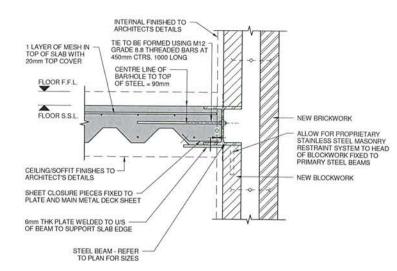
Project No. 140408

S410

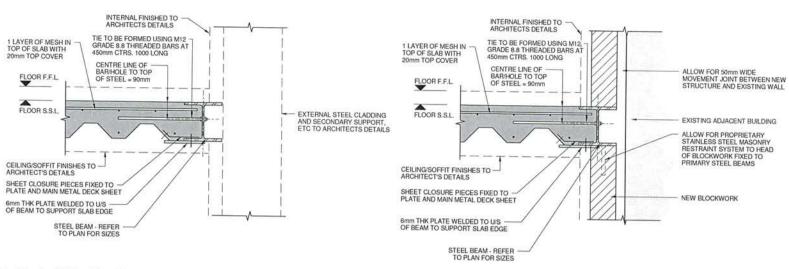
THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DRAWINGS. DO NOT SCALE FROM THIS DRAWING.

SUPERSTRUCTURE DETAILS -

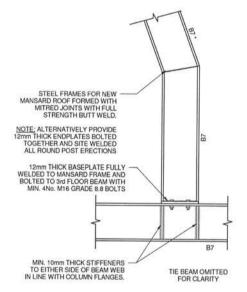
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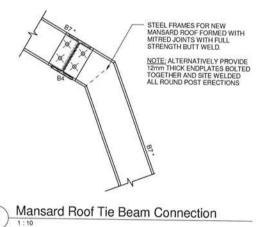
Typical Edge Detail with New Masonry Facade 1

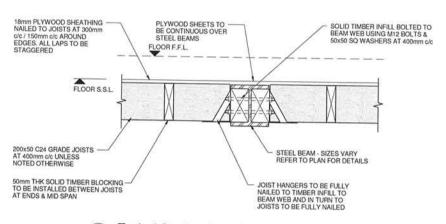


Typical Edge Detail with New Masonry Facade 2 Typical Edge Detail - Existing Building with New Masonry Facade



Mansard Roof Base Connection





Typical Section through Flat Roof Area 6

### NOT FOR CONSTRUCTION

T1	30,06.15	ISSUED FOR TENDER	KDE	IP
Rev	Date	Description	Drawn	Check

www.conisbee.co.uk Drawing Status

Date JAN 2015 Scale 1:10 Drawn KDE

London N1 1DH Tel 020 7700 6666 Fax 020 7700 6686 design@conisbee.co.uk

2 Britannia Street, London WC1X 9JE

TENDER

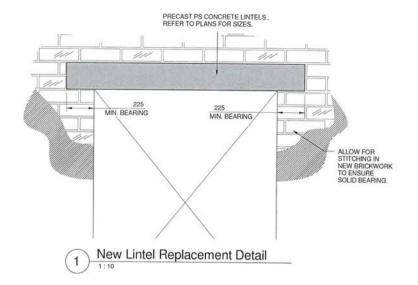
Engineer IP Project No

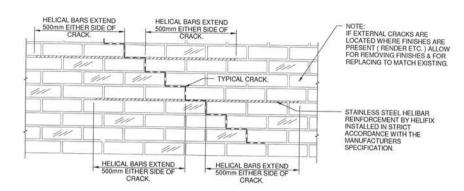
T1

140408 Drawing No S411

SUPERSTRUCTURE DETAILS -

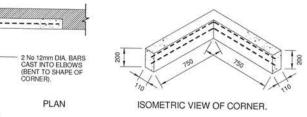
SHEET 2





Crack Repair Detail - Part Elevation

### EXISTING MASONRY WALL.

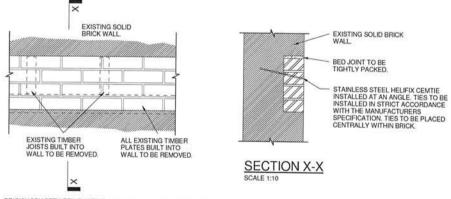


THE LENGTH OF THE LEGS MAY NEED TO BE INCREASED TO PROVIDE 450 mm ANCHORAGE BEYOND SEVERE FRACTURES REMOTE FROM THE CORNERS.

### SEQUENCE OF OPERATIONS

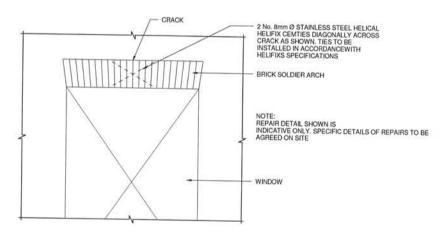
- 1. CORNER POCKET, 3 COURSES DEEP, CUT 110 mm IN TO ADJOINING WALLS.
  MINIMUM LENGTH 750 mm IN EACH WALL.
  2. POCKET CLEARED OF ALL LOOSE MORTAR AND DUST AND THOROUGHLY WETTED IMMEDIATELY BEFORE CONCRETEING.
  3. POCKET FILLED TO DEPTH OF 200 mm (WITH 1:1:2 CEMENT:SHARP SAND:10 mm PEA SHINGLE AND WATER, SO CONCRETE HAS CONSISTENCY OF PORRIDGE) AND WELL CONSOLIDATED AROUND 2 No 12 DIA. STEEL BARS IN POSITION.
  4. AFTER CONCRETE HAS HARDENED, REMOVE SHUTTERS AND GENTLY DRY PACK (1:2 CEMENT:SHARP SAND, MOIST) TO FILL REMAINING GAP ABOVE CONCRETE ELBOW.

Reinforced Concrete Corner Elbow Details (3)



BRICKWORK BETWEEN EXISTING JOISTS AND ANY VOIDS LEFT FROM REMOVAL OF EXISTING TIMBERS ARE TO BE REBUILT / INFILLED WITH NEW BRICKWORK FULLY BONDED TOGETHER AND PACKED TIGHT TO EXISTING. IF NECESSARY PROVIDE HELIFIX TIES TO FIX NEW BRICKWORK TO EXISTING.

Removal of Built in Timbers-Brickwork Repair Detail



Repair of Cracked Soldier Arch

### NOT FOR CONSTRUCTION

Rev	Date	Description	Drawn	Check
11	22.06.15	ISSUED FOR TENDER	KDE	IP.
		REVISED AS CLOUDED	KDE	IP

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GENERAL NOTES

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS

DO NOT SCALE FROM THIS DRAWING IN EITHER PAPER OR DIGITAL FORM. USE WRITTEN DIMENSIONS ONLY.

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Date JAN 2015

Drawn KDE

Scale As indicated

Drawing Status **TENDER** 

Project

2 Britannia Street, London WC1X 9JF

Engineer IP Project No 140408

Drawing No S420

THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DRAWINGS. DO NOT SCALE FROM THIS DRAWING.

Title

REMEDIAL WORKS DETAILS

Revision T2