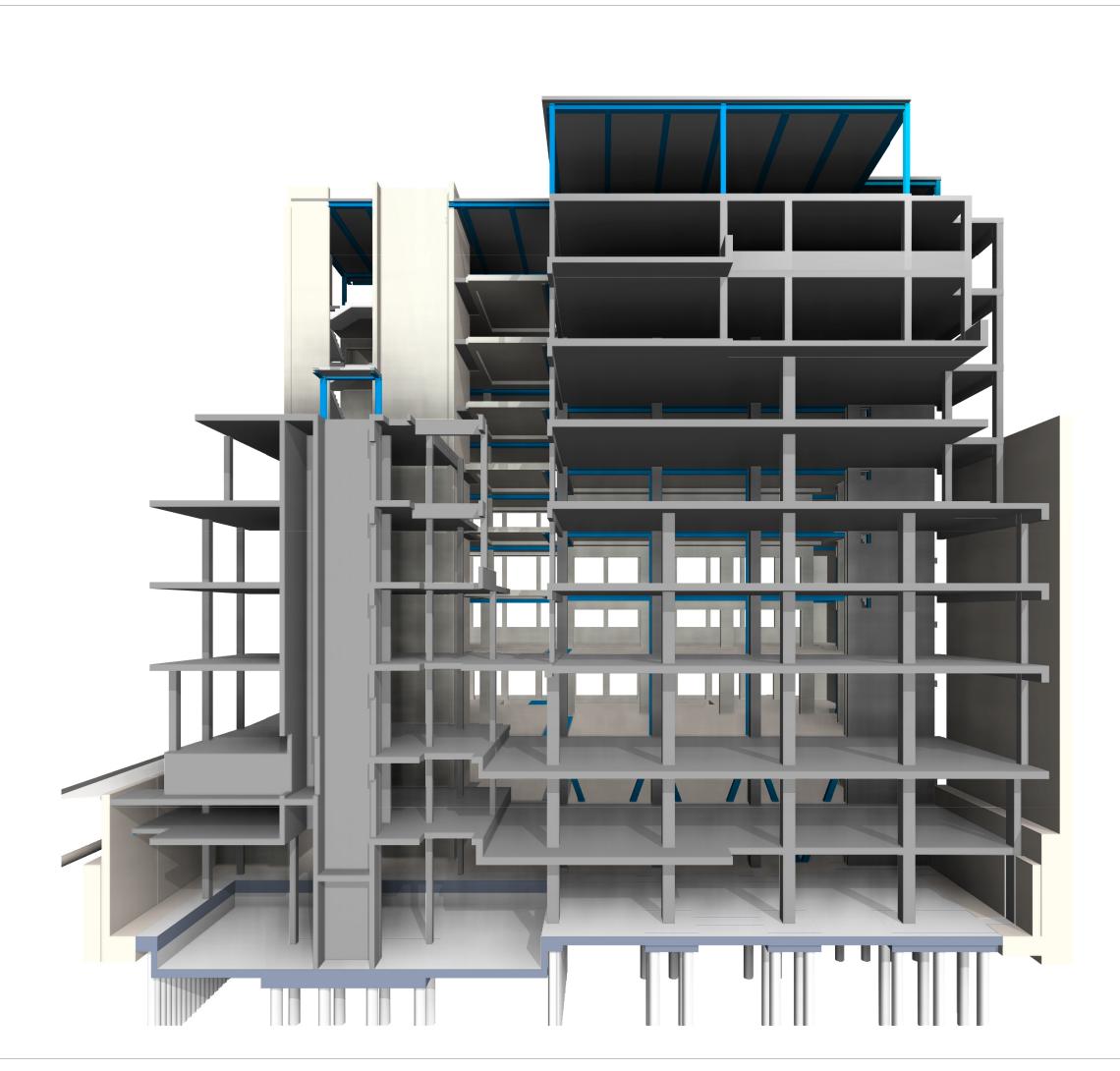
# **APPENDIX B**

Proposed Development Plans



- 1 This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- 2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm
- 3 All new concrete in contact with the ground to be water resistant concrete C40/50
- 4 All waterproofing and insulation details to architect's specifications
- 5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

This is not a formal drawing issue and as such may contain un-coordinated or incomplete information. Full drawing issue to follow

P1 ??.??.?? DV DT Preliminary Issue

Rev Date By Eng Amendments



STRUCTURAL ENGINEERS

hts.uk.com

Arthur Stanley House

Proposed Perspective Section

Purpose of Issue **Preliminary** Scale at A1

Drg No 1431, P010

- 2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm

1 This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings

- 3 All new concrete in contact with the ground to be water resistant concrete C40/50
- 4 All waterproofing and insulation details to architect's specifications
- 5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

#### Column Schedule

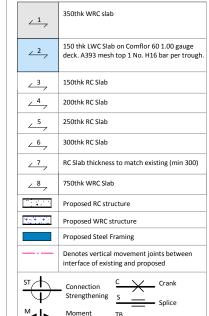
and specifications.

R1	300x300x16.0 SHS	CC3	200x800 RC Colum
C1	150x150x10.0 SHS	CC4	300x300 RC Column
	(TBC)	CC6	250x250 RC Column
C2	200x90x30 PFC	CC9	200x200 RC Column
C3	203x203x46 UC	CC10	200x400 RC Column
C10	SHS100x100x8	CC11	200x600 RC Column
CC2	500x500 RC Column	CC12	175x300 RC Column
		CC14	300x500 RC Column

### Beam Schedule

	B1	203x203x86 UC	CB2	860d x 300w RC
	B2	203x203x60 UC	CB3	600d x 175w RC
	В3	203x133x25 UB	CB5	500d x 300w RC
	B4	254x254x167 UC	CB7	800dp x 300w RC Upstan
	B5	203x203x71 UC	CB9	600d x 175w RC Upstand
	В6	203x203x46 UC	CB10	875dp x 300w RC Upstan
	B10	254x254x89 UC	CB13	650d x 200w RC
	B12	254x254x73 UC	CFRP	CFRP strips
	B14	254x254x73 UC	EA1	100x100x10 EA fixed to
	B15	UC305x305x137		perimeter
	CB1	650d x 300w RC	EA2	EA fixed to perimeter
	1		FB1	305x102x33 UB Top /
				254x254x73 UC Btm USFI

#### Legend



Rev Date By Eng Amendments HEYNE TILLETT STEEL

# **STRUCTURAL ENGINEERS**

BR Break in bean

hts.uk.com

# Arthur Stanley House

P7 | ??.??.?? | DV | DT | Revised Preliminary issue P6 01.08.17 DV DT Revised Preliminary issue P5 20.07.17 DV DT Issued for Planning

P4 05.07.17 DV DT Revised Preliminary Issue P1 19.04.17 DV DT Preliminary Issue

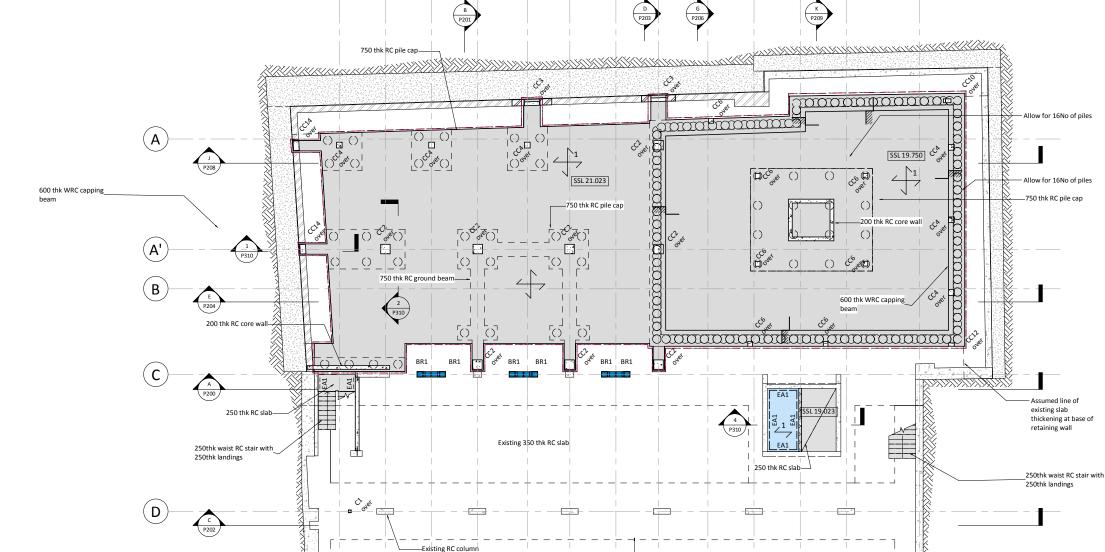
Drawing Title

# Proposed Plan Lower Basement

Purpose of Issue Planning Scale at A1 1:100 Rev P7

Drg No 1431 P080

Work In Progress
Date / Time Printed 03/11/2017 15:47:16



Feature folded plate steel -stair supported on stringers TBC

Existing 350 thk RC slab

(5)

(6)

7

(8)

(9)

Existing 1400 thk RC slab

(10)

(11)

(12)

(13)

**(2**)

Stair resin anchored onto existing slab (3)

4

(13)

7

(A)

(A')

(c)

(8)

(9)

220mm Nominal thk WRC

liner wall

(10)

( Oue

Code

(11)

(12)

Coner Ones

200 thk RC core wall

liner wall

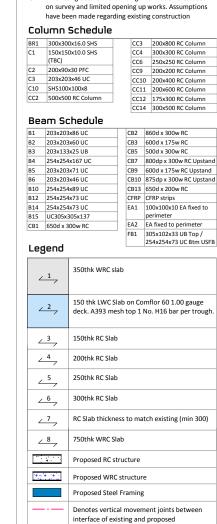
 $(\widehat{\phantom{a}})$ 

----750 thk RC pile cap

1

350 thk WRC slab SSL 19.750

7 P330



P1 | ??.??.?? | DV | DT | Preliminary Issue Rev Date By Eng Amendments



**STRUCTURAL ENGINEERS** 

Break in beam

hts.uk.com

Arthur Stanley House

Drawing Title

Proposed Plan **Dropped Lower Basement** 

Purpose of Issue **Planning** Scale at A1 1:50 Rev P6

Drg No 1431 P081

Work In Progress
Date / Time Printed 03/11/2017 15:47:17

450 ø hard / soft secant

piles at 340 crs

- 1 This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- 2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm
- 3 All new concrete in contact with the ground to be water resistant concrete C40/50
- 4 All waterproofing and insulation details to architect's specifications
- 5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

#### Column Schedule

BR1	300x300x16.0 SHS	CC3	200x800 RC Column
C1	150x150x10.0 SHS	CC4	300x300 RC Column
	(TBC)	CC6	250x250 RC Column
C2	200x90x30 PFC	CC9	200x200 RC Column
C3	203x203x46 UC	CC10	200x400 RC Column
C10	SHS100x100x8	CC11	200x600 RC Column
CC2	500x500 RC Column	CC12	175x300 RC Column
		CC14	300x500 RC Column

#### Beam Schedule

B1	203x203x86 UC	CB2	860d x 300w RC
B2	203x203x60 UC	CB3	600d x 175w RC
В3	203x133x25 UB	CB5	500d x 300w RC
B4	254x254x167 UC	CB7	800dp x 300w RC Upstand
B5	203x203x71 UC	CB9	600d x 175w RC Upstand
B6	203x203x46 UC	CB10	875dp x 300w RC Upstand
B10	254x254x89 UC	CB13	650d x 200w RC
B12	254x254x73 UC	CFRP	CFRP strips
B14	254x254x73 UC	EA1	100x100x10 EA fixed to
B15	UC305x305x137		perimeter
CB1	650d x 300w RC	EA2	EA fixed to perimeter
		FB1	305x102x33 UB Top /
			254x254x73 UC Btm USFB

#### Legend

_ 1	350thk WRC slab
<u>/ 2</u>	150 thk LWC Slab on Comflor 60 1.00 gauge deck. A393 mesh top 1 No. H16 bar per trough.
<u></u>	150thk RC Slab
_ 4	200thk RC Slab
_ 5	250thk RC Slab
<u> </u>	300thk RC Slab
<u> </u>	RC Slab thickness to match existing (min 300)
<u> </u>	750thk WRC Slab
*	Proposed RC structure
(#) (#) (#).	Proposed WRC structure
	Proposed Steel Framing
	Denotes vertical movement joints between interface of existing and proposed
ST	Connection C Crank

P1	??.??.??	DV	DT	Preliminary Issue
Rev	Date	Rv	Fng	Amendments



STRUCTURAL **ENGINEERS** 

hts.uk.com

1:50

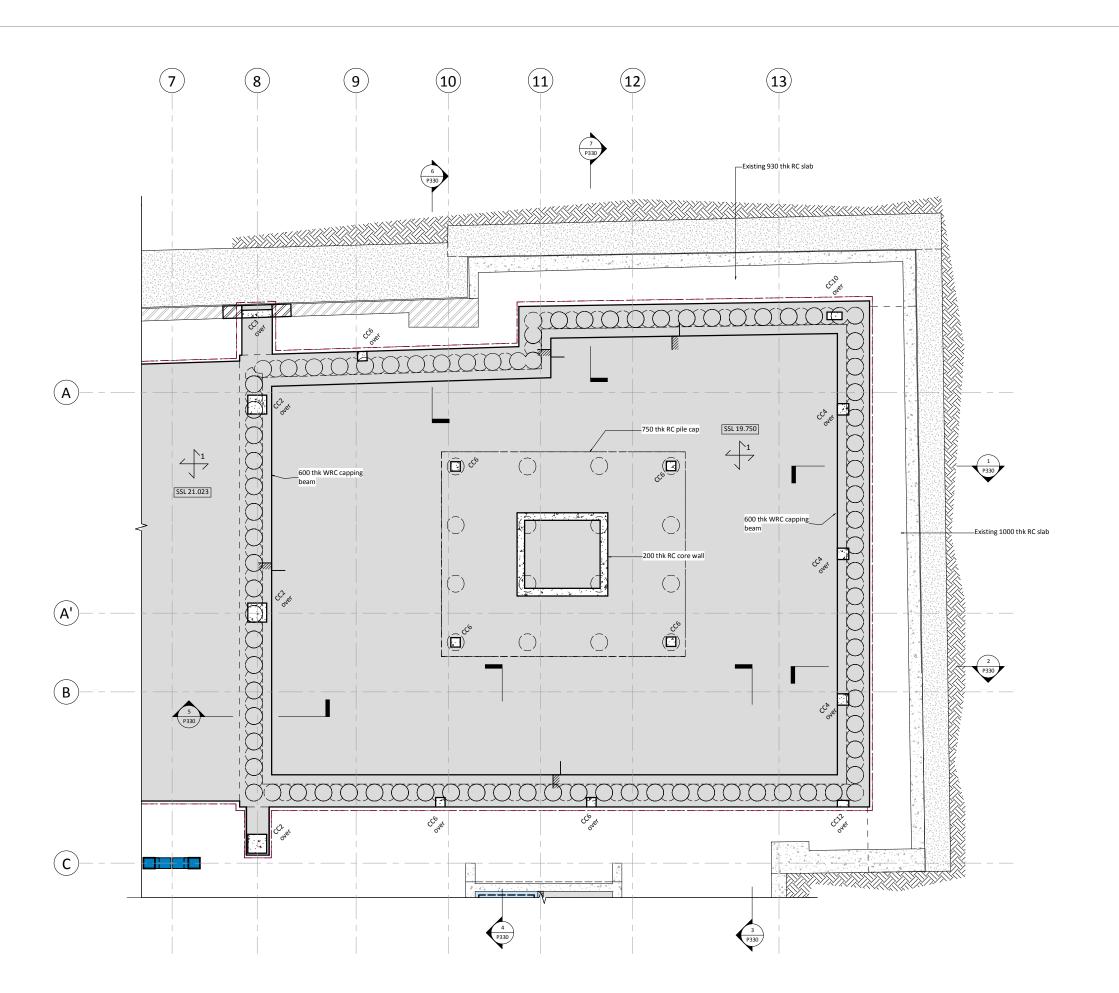
Arthur Stanley House

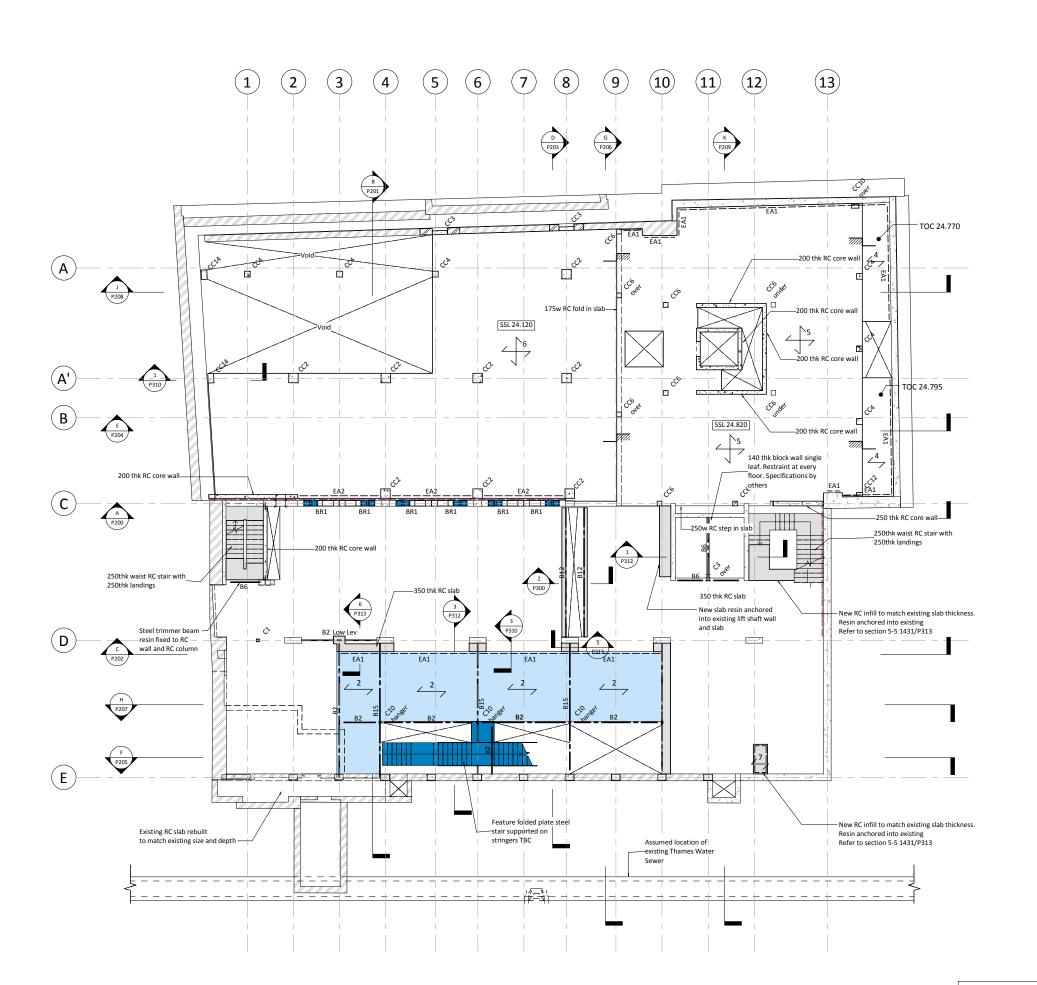
Drawing Title

Work In Progress
Date / Time Printed 03/11/2017 15:47:17

Proposed Plan Lower Basement Residential Building

Drg No 1431, P082





- 1 This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- 2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm
- 3 All new concrete in contact with the ground to be water resistant concrete C40/50
- 4 All waterproofing and insulation details to architect's specifications
- 5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

#### Column Schedule

BR1	300x300x16.0 SHS	CC3	200x800 RC Colum
C1	150x150x10.0 SHS	CC4	300x300 RC Colum
	(TBC)	CC6	250x250 RC Colum
C2	200x90x30 PFC	CC9	200x200 RC Colum
C3	203x203x46 UC	CC10	200x400 RC Colum
C10	SHS100x100x8	CC11	200x600 RC Colum
CC2	500x500 RC Column	CC12	175x300 RC Colum
		CC14	300x500 RC Colum

#### Beam Schedule

B1	203x203x86 UC	CB2	860d x 300w RC		
B2	203x203x60 UC	CB3	600d x 175w RC		
В3	203x133x25 UB	CB5	500d x 300w RC		
B4	254x254x167 UC	CB7	800dp x 300w RC Upstand		
B5	203x203x71 UC	CB9	600d x 175w RC Upstand		
В6	203x203x46 UC	CB10	875dp x 300w RC Upstand		
B10	254x254x89 UC	CB13	650d x 200w RC		
B12	254x254x73 UC	CFRP	CFRP strips		
B14	254x254x73 UC	EA1	100x100x10 EA fixed to		
B15	UC305x305x137		perimeter		
CB1	650d x 300w RC	EA2	EA fixed to perimeter		
	<u> </u>		305x102x33 UB Top /		
1			254x254x73 UC Btm USFB		
Ledend					

Legena							
	350thk WRC groundbearing slab						
<u>/ 2</u> /	150 thk LWC Slab on Comflor 60 1.00 gauge deck. A393 mesh top 1 No. H16 bar per trough.						
<u></u>	150thk RC Slab						
4	200thk RC Slab						
	250thk RC Slab						
<u> </u>	300thk RC Slab						
<u></u>	RC Slab thicknes	s to match exi	sting (min 300)				
140 T.	Proposed RC stru	ucture					
a#4#4#	Proposed WRC s	tructure					
	Proposed Steel F	raming					
	Denotes vertical interface of exist						
ST	Connection Strengthening	<u>c</u> ×	Crank				
M			• Splice				
<b>→</b>	Moment connection	<del>™</del> ⊢	• Thermal Break				
B1 [ 25mm	] Pre-camber	BR →	• Break in beam				

P6	01.08.17	DV	DT	Revised Preliminary issue
P5	20.07.17	DV	DT	Issued for Planning
P4	05.07.17	DV	DT	Revised Preliminary Issue
P1	19.04.17	DV	DT	Preliminary Issue
Rev	Date	Ву	Eng	Amendments



STRUCTURAL **ENGINEERS** 

hts.uk.com

1:100

Arthur Stanley House

Drawing Title Proposed Plan

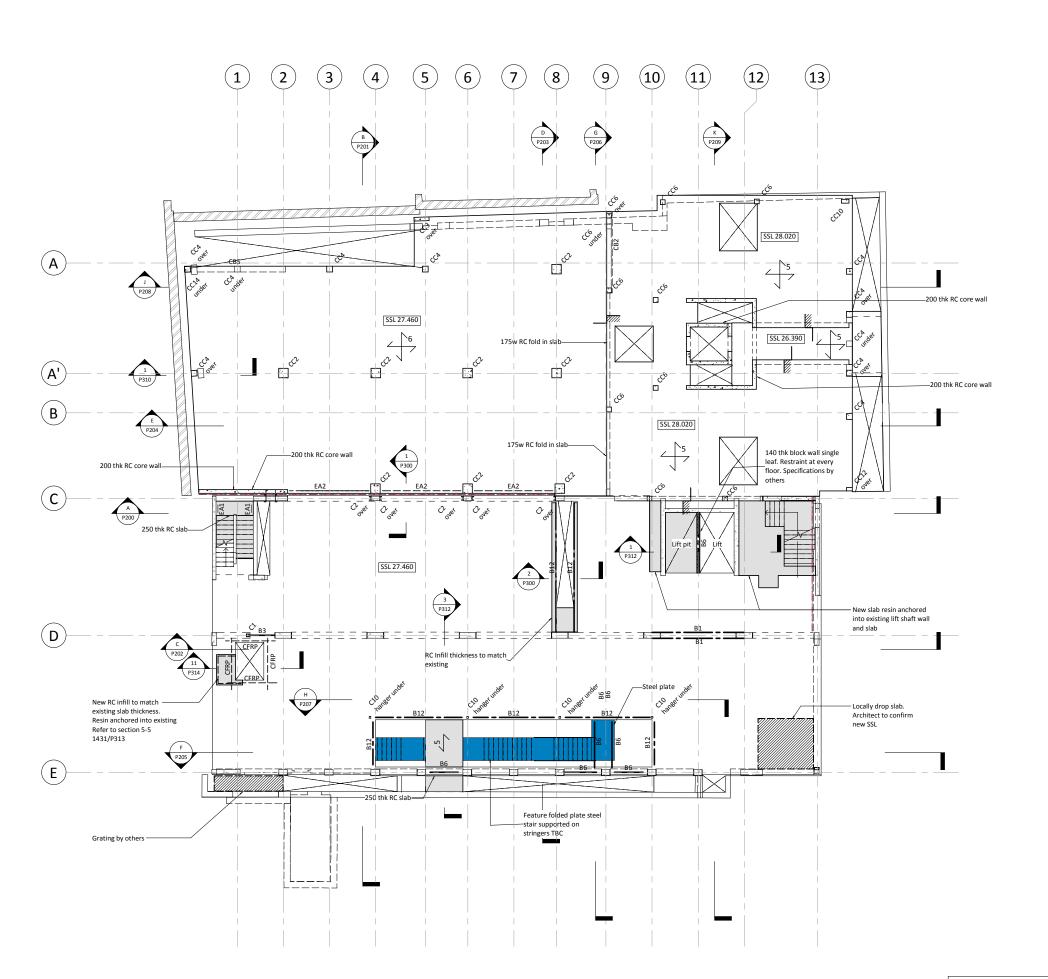
Purpose of Issue Planning

Basement

Drg No 1431 P090

Rev P6

Scale at A1



- This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- 2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm
- 3 All new concrete in contact with the ground to be water resistant concrete C40/50
- 4 All waterproofing and insulation details to architect's specifications
- 5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

#### Column Schedule

1	300x300x16.0 SHS	CC3	200x800 RC Colu
1	150x150x10.0 SHS	CC4	300x300 RC Colu
	(TBC)	CC6	250x250 RC Colu
C2	200x90x30 PFC	CC9	200x200 RC Colu
C3	203x203x46 UC	CC10	200x400 RC Colu
C10	SHS100x100x8	CC11	200x600 RC Colu
CC2	500x500 RC Column	CC12	175x300 RC Colu
		CC14	300x500 RC Colur

### Beam Schedule

B1	203x203x86 UC	CB2	860d x 300w RC
B2	203x203x60 UC	CB3	600d x 175w RC
В3	203x133x25 UB	CB5	500d x 300w RC
B4	254x254x167 UC	CB7	800dp x 300w RC Upstan
B5	203x203x71 UC	CB9	600d x 175w RC Upstand
В6	203x203x46 UC	CB10	875dp x 300w RC Upstan
B10	254x254x89 UC	CB13	650d x 200w RC
B12	254x254x73 UC	CFRP	CFRP strips
B14	254x254x73 UC	EA1	100x100x10 EA fixed to
B15	UC305x305x137		perimeter
CB1	650d x 300w RC	EA2	EA fixed to perimeter
		FB1	305x102x33 UB Top /
			254x254x73 UC Btm USFI

### Legend

- 0 -						
_1	350thk WRC groundbearing slab					
<u>/ 2</u> /	150 thk LWC Sla deck. A393 mesl		0 1.00 gauge 5 bar per trough.			
_ 3	150thk RC Slab					
<u> </u>	200thk RC Slab					
_ 5	250thk RC Slab					
∠ 6	300thk RC Slab					
<u> </u>	RC Slab thicknes	s to match exis	sting (min 300)			
147 T.	Proposed RC str	ucture				
4.14.14.1	Proposed WRC s	tructure				
	Proposed Steel F	Framing				
	Denotes vertical interface of exist					
ST	Connection Strengthening	<u>c</u> ×	Crank			
M.I.	Moment	TB	Splice			
<b>→</b>	connection	$\neg$ $\vdash$	Thermal Break			
B1 [ 25mm ]	Pre-camber	BR <b>→</b>	Break in beam			

P6	01.08.17	DV	DT	Revised Preliminary issue
P5	20.07.17	DV	DT	Issued for Planning
P4	05.07.17	DV	DT	Revised Preliminary Issue
P1	19.04.17	DV	DT	Preliminary Issue
Rev	Date	Ву	Eng	Amendments



STRUCTURAL **ENGINEERS** 

hts.uk.com

Arthur Stanley House

Drawing Title

# Proposed Plan Ground Floor

Purpose of Issue **Planning** Scale at A1 1:100

Drg No 1431 P100

- 1 This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- 2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm
- 3 All new concrete in contact with the ground to be water resistant concrete C40/50
- 4 All waterproofing and insulation details to architect's specifications
- 5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

#### Column Schedule

BR1	300x300x16.0 SHS	CC3	200x800 RC Colum
C1	150x150x10.0 SHS	CC4	300x300 RC Colum
	(TBC)	CC6	250x250 RC Colum
C2	200x90x30 PFC	CC9	200x200 RC Colum
C3	203x203x46 UC	CC10	200x400 RC Colum
C10	SHS100x100x8	CC11	200x600 RC Colum
CC2	500x500 RC Column	CC12	175x300 RC Colum
		CC14	300x500 RC Colum

#### Beam Schedule

B1	203x203x86 UC	CB2	860d x 300w RC
B2	203x203x60 UC	CB3	600d x 175w RC
В3	203x133x25 UB	CB5	500d x 300w RC
B4	254x254x167 UC	CB7	800dp x 300w RC Upstand
B5	203x203x71 UC	CB9	600d x 175w RC Upstand
В6	203x203x46 UC	CB10	875dp x 300w RC Upstand
B10	254x254x89 UC	CB13	650d x 200w RC
B12	254x254x73 UC	CFRP	CFRP strips
B14	254x254x73 UC	EA1	100x100x10 EA fixed to
B15	UC305x305x137		perimeter
CB1	650d x 300w RC	EA2	EA fixed to perimeter
		FB1	305x102x33 UB Top /
			254x254x73 UC Btm USFB

Legena	
<u></u>	350thk WRC slab
	150 thk LWC Slab on Comflor 60 1.00 gauge deck. A393 mesh top 1 No. H16 bar per trough.
_ 3	150thk RC Slab
	200thk RC Slab
	250thk RC Slab
<u> </u>	300thk RC Slab
<u> 7</u>	RC Slab thickness to match existing (min 300)
<u> </u>	750thk WRC Slab
<u>"} \$7.73</u>	Proposed RC structure
464 (4)	Proposed WRC structure
	Proposed Steel Framing
	Denotes vertical movement joints between interface of existing and proposed
ST	Connection C Crank Strengthening S

Р3	20.07.17	DV	DT	Issued for Planning
P2	05.07.17	DV	DT	Revised Preliminary Issue
P1	22.05.17	DV	DT	PRELIMINARY ISSUE
Rev	Date	Ву	Eng	Amendments



STRUCTURAL **ENGINEERS** 

hts.uk.com

Arthur Stanley House

Proposed Section E-E

Purpose of Issue **Planning** Scale at A1 1:100

Drg No 1431 P204

- This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- 2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm
- 3 All new concrete in contact with the ground to be water resistant concrete C40/50
- 4 All waterproofing and insulation details to architect's specifications
- 5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

#### Column Schedule

BR1	300x300x16.0 SHS	CC3	200x800 RC Colum
C1	150x150x10.0 SHS	CC4	300x300 RC Colum
	(TBC)	CC6	250x250 RC Colum
C2	200x90x30 PFC	CC9	200x200 RC Colum
C3	203x203x46 UC	CC10	200x400 RC Colum
C10	SHS100x100x8	CC11	200x600 RC Colum
CC2	500x500 RC Column	CC12	175x300 RC Colum
		CC14	300x500 RC Colum

#### Beam Schedule

Lodood			FB1	305x102x33 UB Top / 254x254x73 UC Btm USFB
CB1	650d x 300w RC		EA2	EA fixed to perimeter
B15	UC305x305x137			perimeter
B14	254x254x73 UC		EA1	100x100x10 EA fixed to
B12	254x254x73 UC		CFRP	CFRP strips
B10	254x254x89 UC		CB13	650d x 200w RC
В6	203x203x46 UC		CB10	875dp x 300w RC Upstand
B5	203x203x71 UC		CB9	600d x 175w RC Upstand
B4	254x254x167 UC		CB7	800dp x 300w RC Upstand
В3	203x133x25 UB		CB5	500d x 300w RC
B2	203x203x60 UC		CB3	600d x 175w RC
B1	203x203x86 UC		CB2	860d x 300w RC

#### Legend

Legeno	
	350thk WRC slab
<u> </u>	150 thk LWC Slab on Comflor 60 1.00 gauge deck. A393 mesh top 1 No. H16 bar per trough.
_ 3	150thk RC Slab
4	200thk RC Slab
	250thk RC Slab
<u> </u>	300thk RC Slab
_ 7	RC Slab thickness to match existing (min 300)
<u> </u>	750thk WRC Slab
TERM	Proposed RC structure
40.41	Proposed WRC structure
	Proposed Steel Framing
	Denotes vertical movement joints between interface of existing and proposed
ST	Connection C Crank Strengthening S Snlice

	P1	??.??.??	DV	DT	Issued for Planning
	Do.	Data	Dv.	Eng	Amandments



**ENGINEERS** hts.uk.com

STRUCTURAL

Arthur Stanley House

Proposed Section J-J

Purpose of Issue **Planning** Scale at A1 1:100

Drg No 1431 P208

- 1 This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- 2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar should be 100mm
- 3 All new concrete in contact with the ground to be water resistant concrete C40/50
- 4 All waterproofing and insulation details to architect's specifications
- 5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

#### Column Schedule

BR1	300x300x16.0 SHS	CC3	200x800 RC Colum
C1	150x150x10.0 SHS	CC4	300x300 RC Colum
	(TBC)	CC6	250x250 RC Colum
C2	200x90x30 PFC	CC9	200x200 RC Colum
C3	203x203x46 UC	CC10	200x400 RC Colum
C10	SHS100x100x8	CC11	200x600 RC Colum
CC2	500x500 RC Column	CC12	175x300 RC Colum
		CC14	300x500 RC Colum

#### Beam Schedule

	4aad		254x254x73 UC Btm USFB
		FB1	305x102x33 UB Top /
CB1	650d x 300w RC	EA2	EA fixed to perimeter
B15	UC305x305x137		perimeter
B14	254x254x73 UC	EA1	100x100x10 EA fixed to
B12	254x254x73 UC	CFRP	CFRP strips
B10	254x254x89 UC	CB13	650d x 200w RC
В6	203x203x46 UC	CB10	875dp x 300w RC Upstand
B5	203x203x71 UC	CB9	600d x 175w RC Upstand
B4	254x254x167 UC	CB7	800dp x 300w RC Upstand
В3	203x133x25 UB	CB5	500d x 300w RC
B2	203x203x60 UC	CB3	600d x 175w RC
B1	203x203x86 UC	CB2	860d x 300w RC

### Legend

Legeno	
	350thk WRC slab
<u>/ 2</u>	150 thk LWC Slab on Comflor 60 1.00 gauge deck. A393 mesh top 1 No. H16 bar per trough.
∠ 3	150thk RC Slab
_ 4	200thk RC Slab
_ 5	250thk RC Slab
<u> </u>	300thk RC Slab
_ 7	RC Slab thickness to match existing (min 300)
	750thk WRC Slab
*******	Proposed RC structure
44.44	Proposed WRC structure
	Proposed Steel Framing
	Denotes vertical movement joints between interface of existing and proposed
ST	Connection C Crank Strengthening S Snlice

P1	??.??.??	DV	DT	Issued for Planning
Do.	Date	Dv.	Eng	Amandmants



STRUCTURAL **ENGINEERS** 

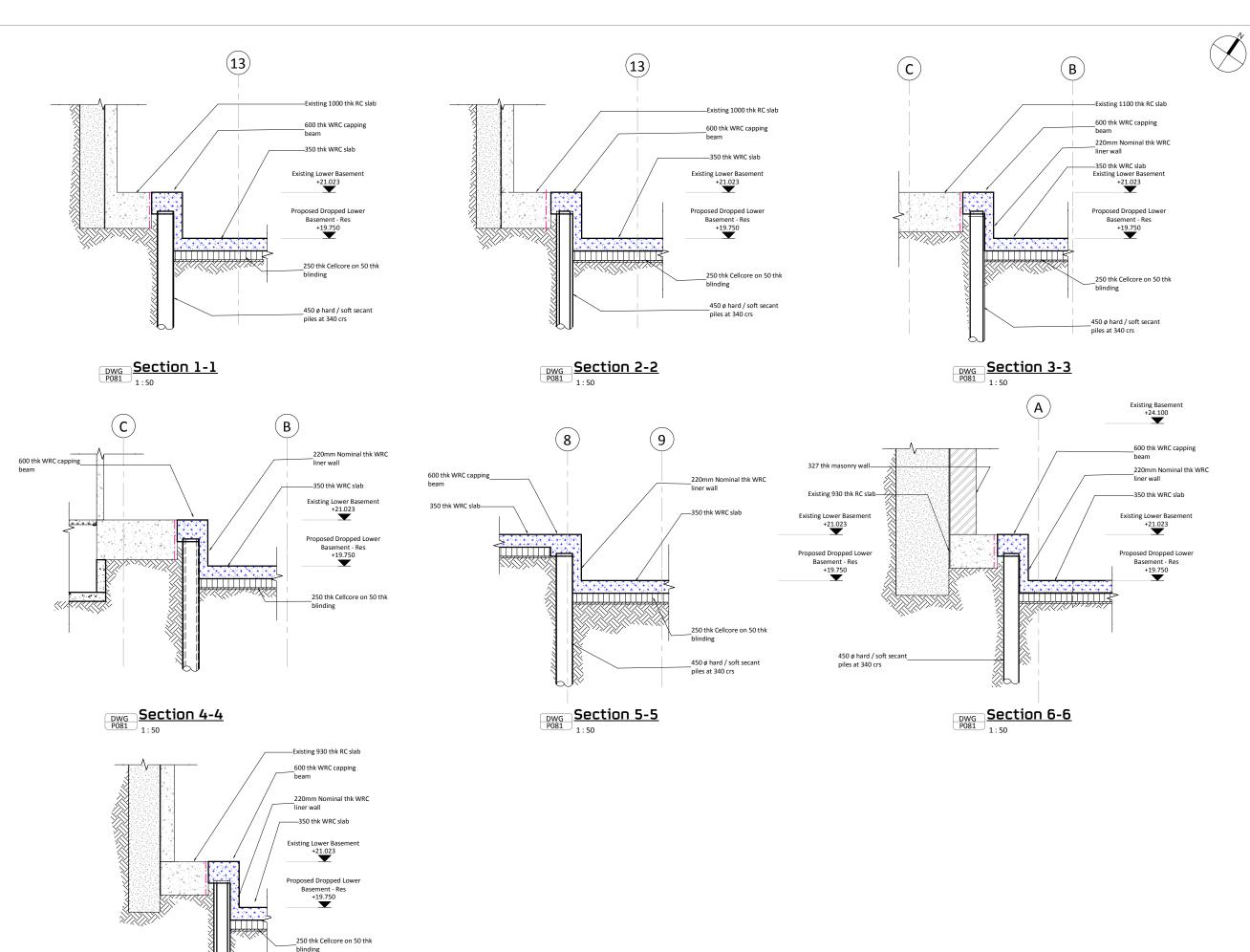
1:100

Arthur Stanley House

Proposed Section K-K

Purpose of Issue **Planning** Scale at A1

Drg No 1431 P209



450 ø hard / soft secant piles at 340 crs

 $\underbrace{\begin{array}{c} \text{DWG} \\ \text{P081} \end{array}}_{\text{1:50}} \underbrace{\text{Section 7-7}}_{\text{1:50}}$ 

Work In Progress
Date / Time Printed 03/11/2017 15:47:20

Proposed Plan Lower Basement

Sections

Drg No 1431 P330

This drawing is to be read in conjunction with all

2 Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check drawing has been printed to the intended scale the above bar

3 All new concrete in contact with the ground to be water resistant concrete C40/50

4 All waterproofing and insulation details to architect's

5 All existing details and building information are based on survey and limited opening up works. Assumptions have been made regarding existing construction

CC3 200x800 RC Column
CC4 300x300 RC Column

CC6 250x250 RC Column CC9 200x200 RC Column

CC10 200x400 RC Column CC11 200x600 RC Column

CC12 175x300 RC Column

CC14 300x500 RC Column

CB3 600d x 175w RC
CB5 500d x 300w RC
CB7 800dp x 300w RC Upstand

CB9 600d x 175w RC Upstand

CB10 875dp x 300w RC Upstano

FB1 305x102x33 UB Top / 254x254x73 UC Btm USFB

CB13 650d x 200w RC CFRP CFRP strips EA1 100x100x10 EA fixed to perimeter
EA2 EA fixed to perimeter

150 thk LWC Slab on Comflor 60 1.00 gauge

deck. A393 mesh top 1 No. H16 bar per trough

RC Slab thickness to match existing (min 300)

Denotes vertical movement joints between interface of existing and proposed

Break in beam

**STRUCTURAL** 

**ENGINEERS** 

1:50 Rev P6

and specifications.

should be 100mm

specifications

Column Schedule

150x150x10.0 SHS (TBC)

BR1 300x300x16.0 SHS C1 150x150x10.0 SHS

C2 200x90x30 PFC C3 203x203x46 UC

CC2 500x500 RC Column

Beam Schedule

254x254x167 UC

B1 203x203x86 UC

B14 254x254x73 UC B15 UC305x305x137

CB1 650d x 300w RC

350thk WRC slab

150thk RC Slab

200thk RC Slab

250thk RC Slab

300thk RC Slab

750thk WRC Slab Proposed RC structure

P1 ??.??.?? DV DT Preliminary Issue

**Arthur Stanley House** 

Rev Date By Eng Amendments

HEYNE

Drawing Title

TILLETT STEEL

Proposed WRC structure

Legend

\_2

\_ 3

4

\_ 8

relevant architects, engineers and specialists drawings