

STEEL BEAM SCHEDULE

- STEELS SB1 UNO
- SB1 = 203x133x25ub
 - SB2 = 203uc60
 - SB3 = 203uc52
 - SB4 = 203uc46
 - SB5 = 254uc89
 - SB6 = 254uc73
 - SB7 = 203x133x30ub
 - SB8 = 203uc71
 - SB9 = 356x368uc153
 - SB10 = 305x305uc97
 - SB11 = Westok 704x229/229x140 CB 400 dia cells @750crs
 - SB12 = Westok 544x191/191x74 CB 400 dia cells @750crs
 - SB13 = 152uc37
 - SB14 = 254x146x31ub
 - SB15 = 457x191x74ub
 - SB16 = 457x152x52ub

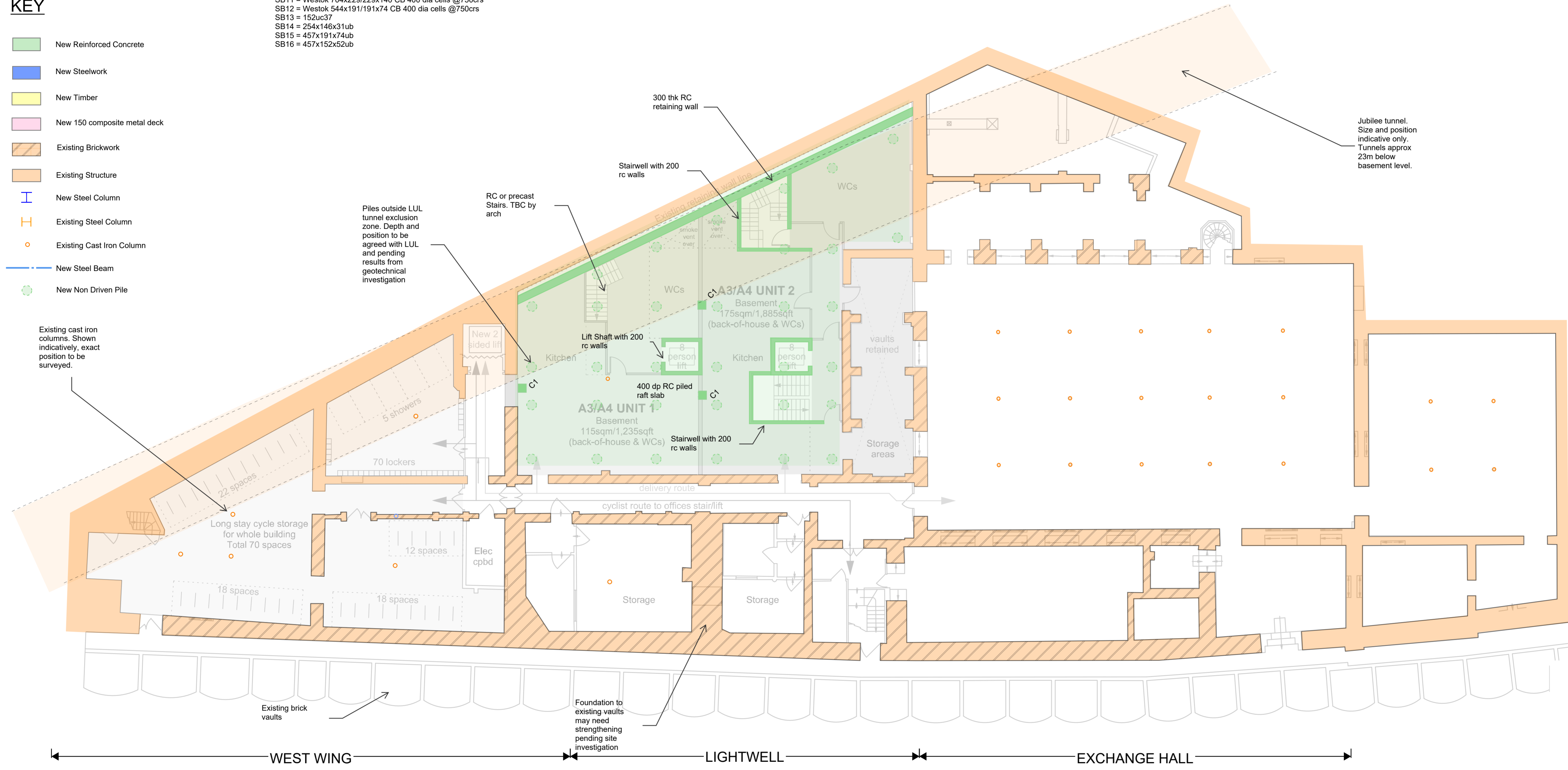
STEEL COLUMN SCHEDULE

- SC1 = 305uc118
- SC2 = 254uc73
- SC3 = 152uc23
- SC4 = 152uc30
- SC5 = 203uc46
- SC6 = 203uc71
- SC7 = 203uc60

FOUNDATION NOTES:
 -Foundation scheme is pending a geotechnical investigation. Existing foundation profiles are drawn indicatively. A non piled raft solution could be considered if ground conditions permit.
 -Historical records of the site show it to overly a post-medieval burial ground and previous basement trial pits have uncovered archaeological artifacts at 0.0 to -0.2 AOD. Groundworks are all to be accompanied by and archaeologist's watching brief. Refer to archaeological report for further info

KEY

- New Reinforced Concrete
- New Steelwork
- New Timber
- New 150 composite metal deck
- Existing Brickwork
- Existing Structure
- New Steel Column
- Existing Steel Column
- Existing Cast Iron Column
- New Steel Beam
- New Non Driven Pile



PROPOSED BASEMENT PLAN
 (~ 1:125 @ A1)

FOUNDATION NOTES:
 -Foundation scheme is pending a geotechnical investigation. Existing foundation profiles are drawn indicatively. A non piled raft solution could be considered if ground conditions permit.
 -Historical records of the site show it to overly a post-medieval burial ground and previous basement trial pits have uncovered archaeological artifacts at 0.0 to -0.2 AOD. Groundworks are all to be accompanied by and archaeologist's watching brief. Refer to archaeological report for further info

KEY

- New Reinforced Concrete
- New Timber
- New 150 composite metal deck
- Existing Brickwork
- Existing Structure
- New Steel Column
- Existing Steel Column
- Existing Cast Iron Column
- New Steel Beam
- New Non Driven Pile

STEEL BEAM SCHEDULE

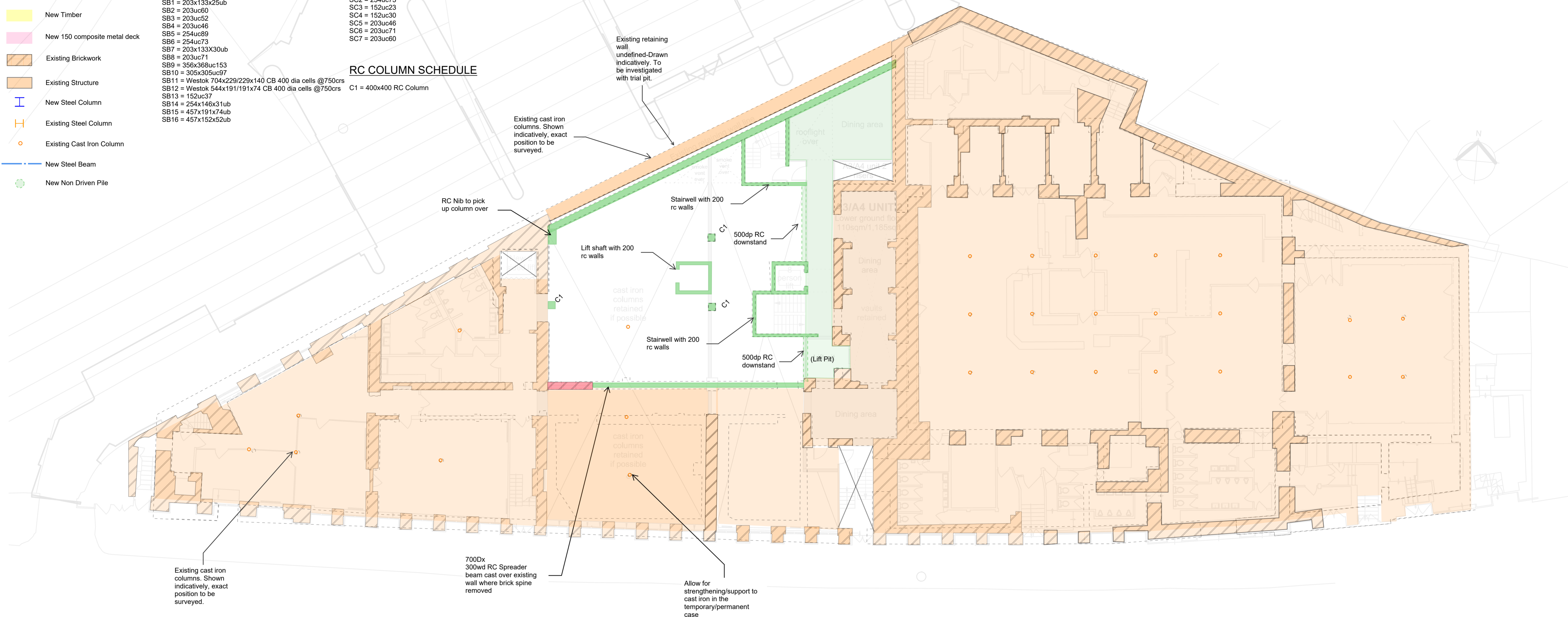
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 SB1 = 203x133x25ub
 SB2 = 203uc60
 SB3 = 203uc52
 SB4 = 203uc46
 SB5 = 254uc99
 SB6 = 254uc73
 SB7 = 203x133x30ub
 SB8 = 203uc71
 SB9 = 356x368uc153
 SB10 = 305x305uc97
 SB11 = Westok 704x229/229x140 CB 400 dia cells @750crs
 SB12 = Westok 544x191/191x74 CB 400 dia cells @750crs
 SB13 = 152uc37
 SB14 = 254x146x31ub
 SB15 = 457x191x74ub
 SB16 = 457x152x52ub

STEEL COLUMN SCHEDULE

SC1 = 305uc118
 SC2 = 254uc73
 SC3 = 152uc23
 SC4 = 152uc30
 SC5 = 203uc46
 SC6 = 203uc71
 SC7 = 203uc60

RC COLUMN SCHEDULE

C1 = 400x400 RC Column



Existing cast iron columns. Shown indicatively, exact position to be surveyed.

700Dx300wd RC Spreader beam cast over existing wall where brick spine removed

Allow for strengthening/support to cast iron in the temporary/permanent case

WEST WING

LIGHTWELL

EXCHANGE HALL

PROPOSED LOWER GROUND FLOOR PLAN

(~ 1:125 @ A1)

SOUTHWARK STREET

KEY

- New Reinforced Concrete
- New Timber
- New 150 composite metal deck
- Existing Brickwork
- Existing Structure
- New Steel Column
- Existing Steel Column
- Existing Cast Iron Column
- New Steel Beam
- New Non Driven Pile

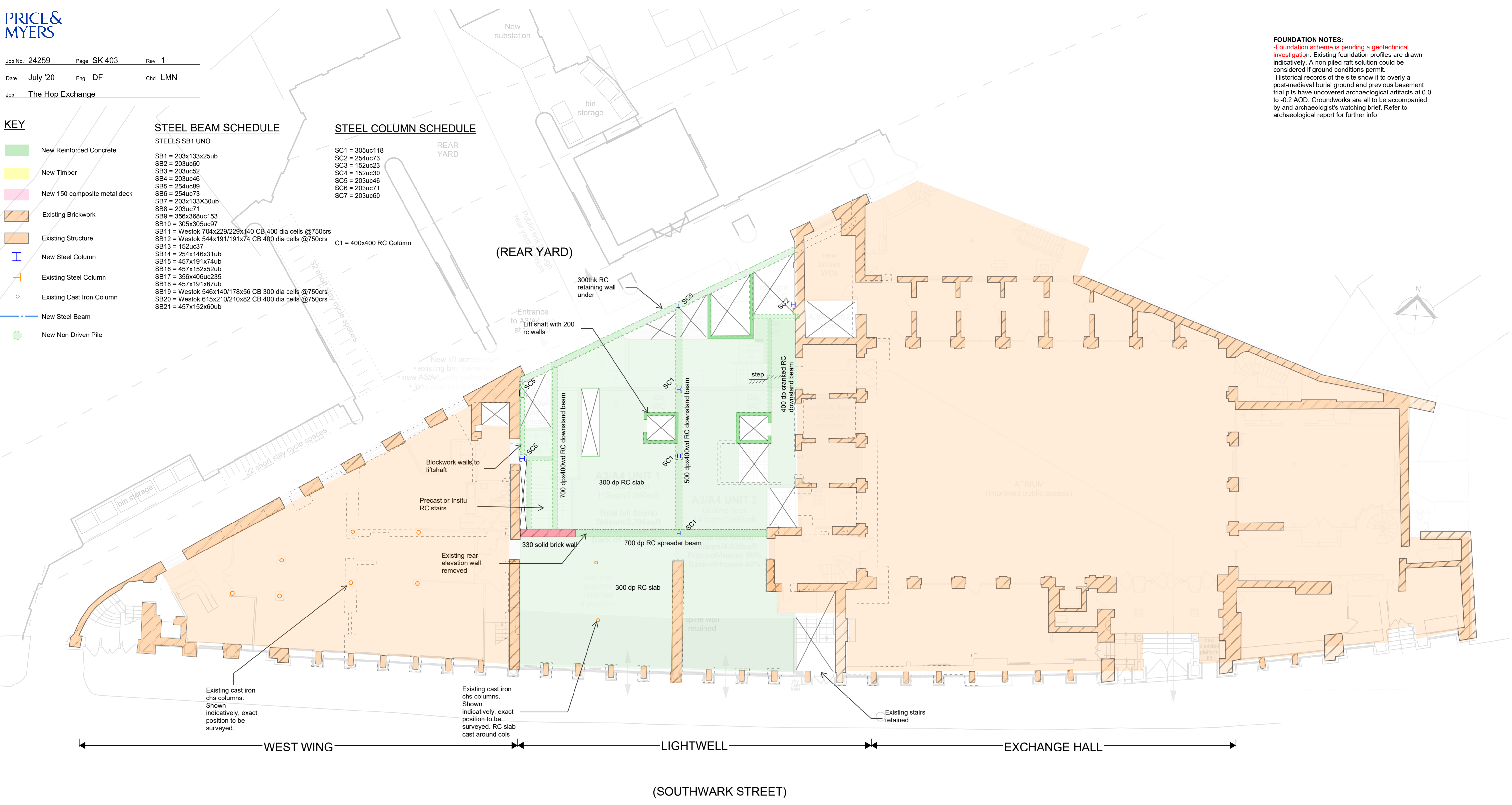
STEEL BEAM SCHEDULE

- STEELS SB1 UNO
- SB1 = 203x133x25ub
 - SB2 = 203uc60
 - SB3 = 203uc52
 - SB4 = 203uc46
 - SB5 = 254uc89
 - SB6 = 254uc73
 - SB7 = 203x133x30ub
 - SB8 = 203uc71
 - SB9 = 356x368uc153
 - SB10 = 305x305uc97
 - SB11 = Westok 704x229/229x140 CB 400 dia cells @750crs
 - SB12 = Westok 544x191/191x74 CB 400 dia cells @750crs
 - SB13 = 152uc37
 - SB14 = 254x146x31ub
 - SB15 = 457x191x74ub
 - SB16 = 457x152x52ub
 - SB17 = 356x406uc235
 - SB18 = 457x191x67ub
 - SB19 = Westok 546x140/178x56 CB 300 dia cells @750crs
 - SB20 = Westok 615x210/210x82 CB 400 dia cells @750crs
 - SB21 = 457x152x60ub

STEEL COLUMN SCHEDULE

- SC1 = 305uc118
 - SC2 = 254uc73
 - SC3 = 152uc23
 - SC4 = 152uc30
 - SC5 = 203uc46
 - SC6 = 203uc71
 - SC7 = 203uc60
- C1 = 400x400 RC Column

FOUNDATION NOTES:
 -Foundation scheme is pending a geotechnical investigation. Existing foundation profiles are drawn indicatively. A non piled raft solution could be considered if ground conditions permit.
 -Historical records of the site show it to overly a post-medieval burial ground and previous basement trial pits have uncovered archaeological artifacts at 0.0 to -0.2 AOD. Groundworks are all to be accompanied by an archaeologist's watching brief. Refer to archaeological report for further info.



PROPOSED GROUND AND UPPER GROUND FLOOR PLAN

(1:125 @ A1)

SUPERSTRUCTURE NOTES:
 -All steelwork shown indicatively only and not to scale in section. Refer to GAs for steel beam and column sizes.
 -Floor structure over West Wing and 'Area to the Front of Lightwell' based on 'strong floor' design approach in accordance with the Camden Rule to meet requirements of disproportionate collapse Consequence Class 2B.
 -Lightwell to have vertical and horizontal ties to meet requirements of disproportionate collapse Consequence Class 2B.
 -Existing structure has been determined based on limited opening up works and is shown indicatively only. Further intrusive opening up works will be required to discern the existing structural arrangement in the next stages of design.
Strengthening requirements to existing elements under 'strong floor' not fully known-pending structural survey and checking of capacities

KEY

- New Reinforced Concrete
- New Timber
- New 150 composite metal deck
- Existing Brickwork
- Existing Structure
- New Steel Column
- Existing Steel Column
- Existing Cast Iron Column
- New Steel Beam
- New Non Driven Pile

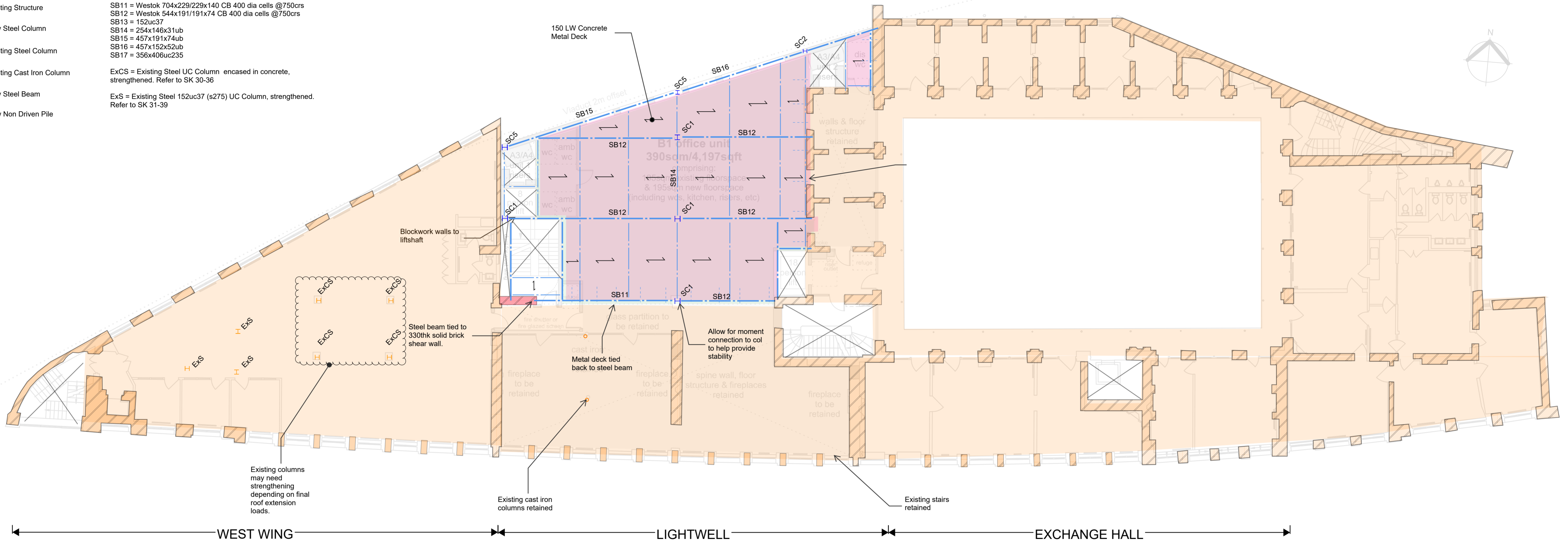
STEEL BEAM SCHEDULE

STEELS SB1 UNO
 SB1 = 203x133x25ub
 SB2 = 203uc60
 SB3 = 203uc52
 SB4 = 203uc46
 SB5 = 254uc99
 SB6 = 254uc73
 SB7 = 203x133x30ub
 SB8 = 203uc71
 SB9 = 356x368uc153
 SB10 = 305x305uc97
 SB11 = Westok 704x229/229x140 CB 400 dia cells @750crs
 SB12 = Westok 544x191/191x74 CB 400 dia cells @750crs
 SB13 = 152uc37
 SB14 = 254x146x31ub
 SB15 = 457x191x74ub
 SB16 = 457x152x52ub
 SB17 = 356x406uc235

EXCS = Existing Steel UC Column encased in concrete, strengthened. Refer to SK 30-36
 ExS = Existing Steel 152uc37 (s275) UC Column, strengthened. Refer to SK 31-39

STEEL COLUMN SCHEDULE

SC1 = 305uc118
 SC2 = 254uc73
 SC3 = 152uc23
 SC4 = 152uc30
 SC5 = 203uc46
 SC6 = 203uc71
 SC7 = 203uc60



PROPOSED SECOND-THIRD FLOOR PLAN

PROPOSED 2ND AND 3RD FLOOR PLAN

(~ 1:125 @ A1)

KEY

- New Reinforced Concrete
- New Timber
- New 150 composite metal deck
- Existing Brickwork
- Existing Structure
- New Steel Column
- Existing Steel Column
- Existing Cast Iron Column
- New Steel Beam

STEEL BEAM SCHEDULE

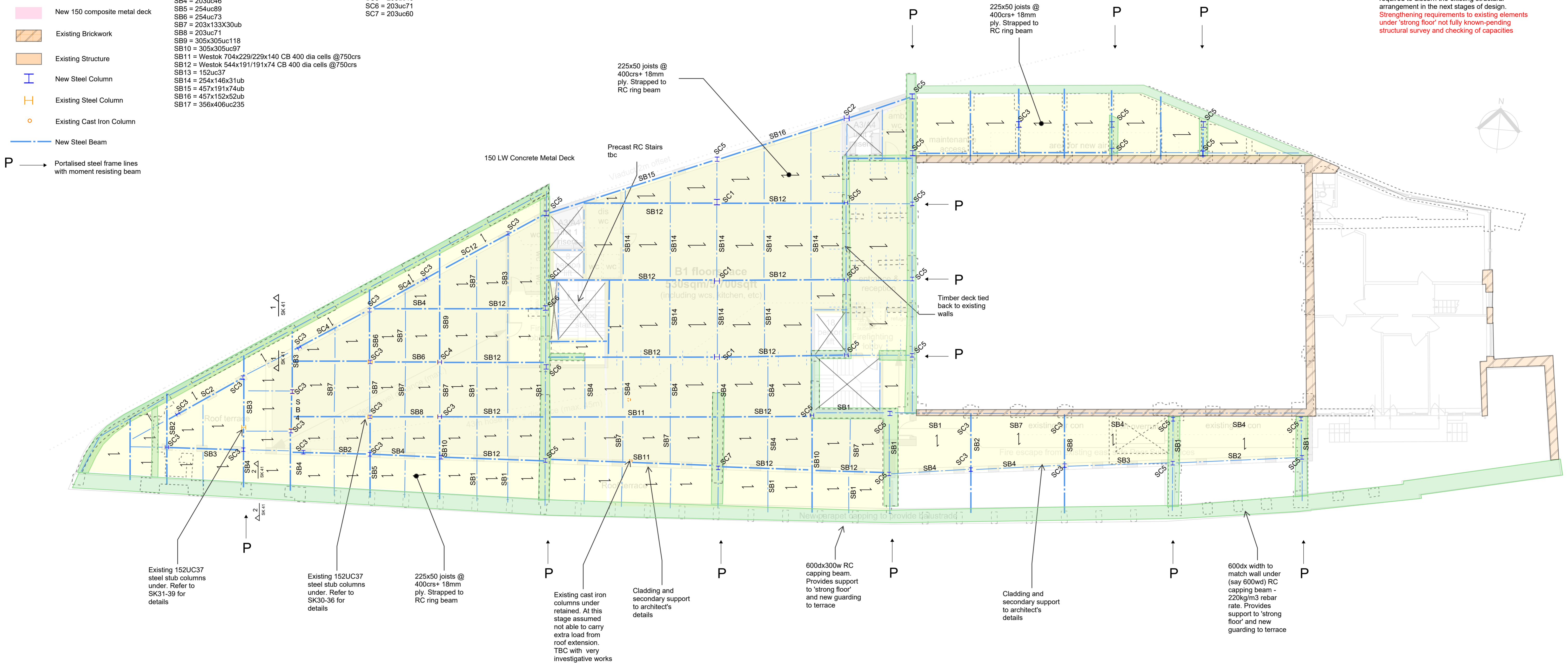
- STEELS SB1 UNO**
- SB1 = 203x133x25ub
 - SB2 = 203uc60
 - SB3 = 203uc52
 - SB4 = 203uc46
 - SB5 = 254uc89
 - SB6 = 254uc73
 - SB7 = 203x133x30ub
 - SB8 = 203uc71
 - SB9 = 305x305uc118
 - SB10 = 305x305uc97
 - SB11 = Westok 704x229/229x140 CB 400 dia cells @750crs
 - SB12 = Westok 544x191/191x74 CB 400 dia cells @750crs
 - SB13 = 152uc37
 - SB14 = 254x146x31ub
 - SB15 = 457x191x74ub
 - SB16 = 457x152x52ub
 - SB17 = 356x406uc235

STEEL COLUMN SCHEDULE

- SC1 = 305uc118
- SC2 = 254uc73
- SC3 = 152uc23
- SC4 = 152uc30
- SC5 = 203uc46
- SC6 = 203uc71
- SC7 = 203uc60

SUPERSTRUCTURE NOTES:

- All steelwork shown indicatively only and not to scale in section. Refer to GAs for steel beam and column sizes.
- Lateral forces resisted by plywood diaphragm spanning between steel portal frames and brickwork shear walls.
- Floor structure over West Wing and 'Area to the Front of Lightwell' based on 'strong floor' design approach in accordance with the Camden Rule to meet requirements of disproportionate collapse Consequence Class 2B.
- Lightwell to have vertical and horizontal ties to meet requirements of disproportionate collapse Consequence Class 2B.
- Existing structure has been determined based on limited opening up works and is shown indicatively only. Further intrusive opening up works will be required to discern the existing structural arrangement in the next stages of design.
- Strengthening requirements to existing elements under 'strong floor' not fully known-pending structural survey and checking of capacities**



PROPOSED FOURTH FLOOR PLAN ('STRONG FLOOR')
 (~ 1:125 @ A1)

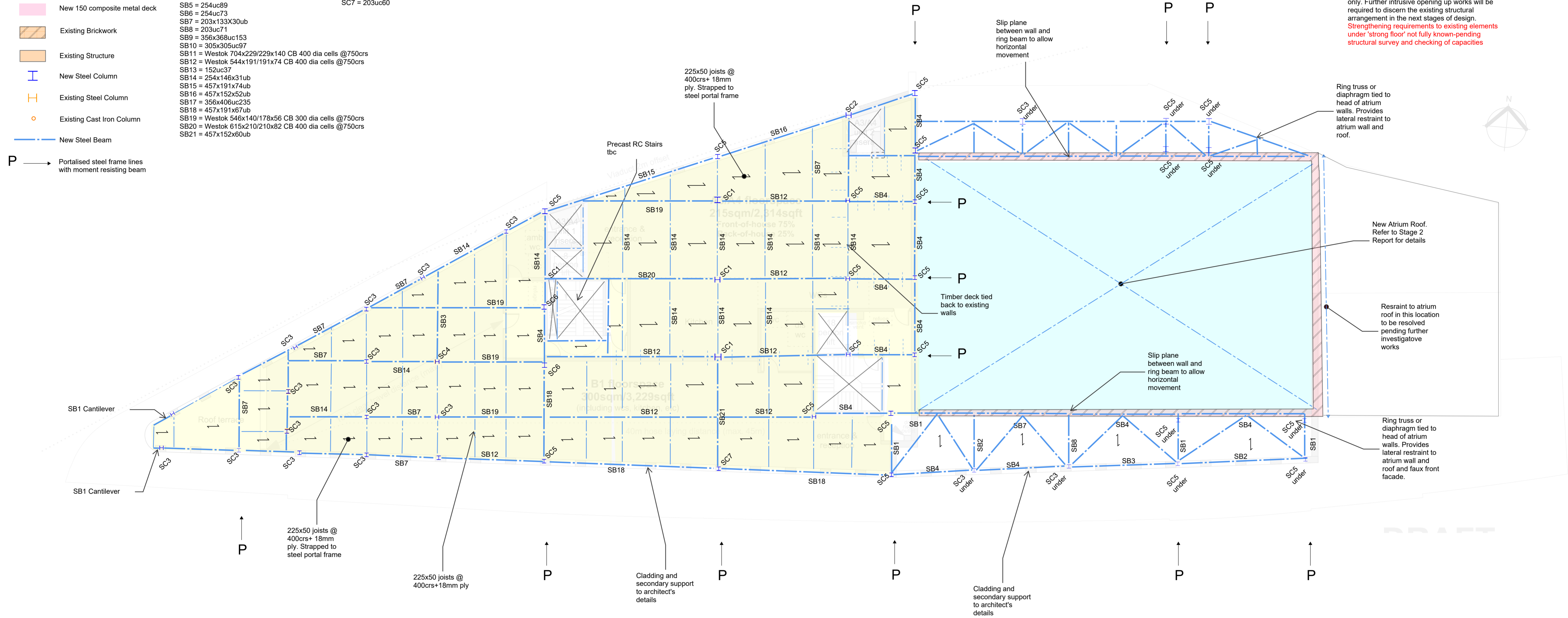
KEY

- New Reinforced Concrete
- New Timber
- New 150 composite metal deck
- Existing Brickwork
- Existing Structure
- New Steel Column
- Existing Steel Column
- Existing Cast Iron Column
- New Steel Beam
- P** → Portalised steel frame lines with moment resisting beam

STEEL BEAM SCHEDULE

STEELS SB1 UNO	SC1 = 305uc118
SB1 = 203x133x25ub	SC2 = 254uc73
SB2 = 203uc60	SC3 = 152uc23
SB3 = 203uc52	SC4 = 152uc30
SB4 = 203uc46	SC5 = 203uc46
SB5 = 254uc39	SC6 = 203uc71
SB6 = 254uc73	SC7 = 203uc60
SB7 = 203x133x30ub	
SB8 = 203uc71	
SB9 = 356x368uc153	
SB10 = 305x305uc97	
SB11 = Westok 704x229/229x140 CB 400 dia cells @750crs	
SB12 = Westok 544x191/191x74 CB 400 dia cells @750crs	
SB13 = 152uc37	
SB14 = 254x146x31ub	
SB15 = 457x191x74ub	
SB16 = 457x152x52ub	
SB17 = 356x406uc235	
SB18 = 457x191x67ub	
SB19 = Westok 546x140/178x56 CB 300 dia cells @750crs	
SB20 = Westok 615x210/210x82 CB 400 dia cells @750crs	
SB21 = 457x152x60ub	

SUPERSTRUCTURE NOTES:
 -All steelwork shown indicatively only and not to scale in section. Refer to GAs for steel beam and column sizes.
 -Lateral forces resisted by plywood diaphragm spanning between steel portal frames and brickwork shear walls.
 -Floor structure over West Wing and 'Area to the Front of Lightwell' based on 'strong floor' design approach in accordance with the Camden Rule to meet requirements of disproportionate collapse Consequence Class 2B.
 -Lightwell to have vertical and horizontal ties to meet requirements of disproportionate collapse Consequence Class 2B.
 -Existing structure has been determined based on limited opening up works and is shown indicatively only. Further intrusive opening up works will be required to discern the existing structural arrangement in the next stages of design.
Strengthening requirements to existing elements under 'strong floor' not fully known-pending structural survey and checking of capacities



PROPOSED FIFTH FLOOR PLAN
 (~ 1:125 @ A1)

KEY

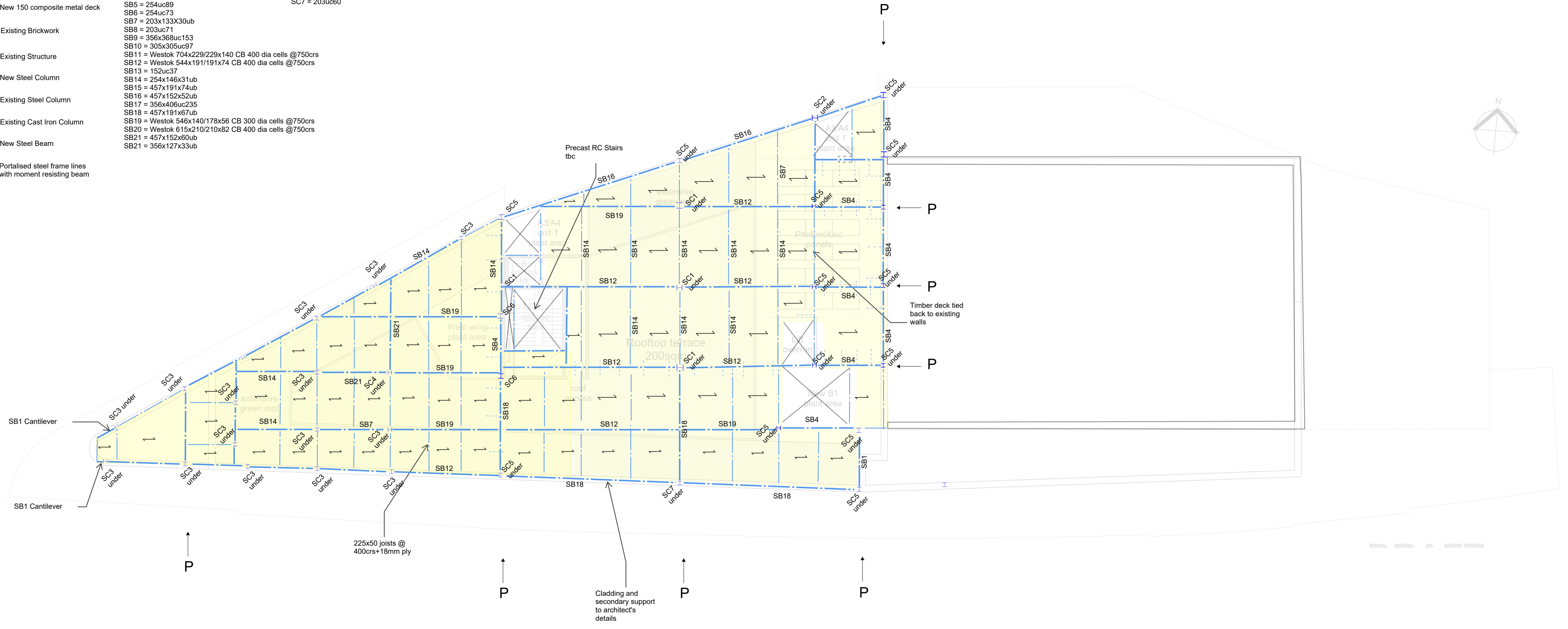
- New Reinforced Concrete
 - New Timber
 - New 150 composite metal deck
 - Existing Brickwork
 - Existing Structure
 - New Steel Column
 - Existing Steel Column
 - Existing Cast Iron Column
 - New Steel Beam
- P** → Portals steel frame lines with moment resisting beam

STEEL BEAM SCHEDULE

STEELS SB1 UNO	SC1 = 305uc118
SB1 = 203x133x25ub	SC2 = 254uc73
SB2 = 203uc60	SC3 = 152uc23
SB3 = 203uc52	SC4 = 152uc30
SB4 = 203uc46	SC5 = 203uc46
SB5 = 254uc89	SC6 = 203uc71
SB6 = 254uc73	SC7 = 203uc60
SB7 = 203x133X30ub	
SB8 = 203uc71	
SB9 = 356x368uc153	
SB10 = 305x305uc97	
SB11 = Westok 704x229/229x140 CB 400 dia cells @750crs	
SB12 = Westok 544x191/191x74 CB 400 dia cells @750crs	
SB13 = 152uc37	
SB14 = 254x146x31ub	
SB15 = 457x191x74ub	
SB16 = 457x152x52ub	
SB17 = 356x406uc235	
SB18 = 457x191x67ub	
SB19 = Westok 546x140/178x56 CB 300 dia cells @750crs	
SB20 = Westok 615x210/210x82 CB 400 dia cells @750crs	
SB21 = 457x152x60ub	
SB21 = 356x127x33ub	

SUPERSTRUCTURE NOTES:

- All steelwork shown indicatively only and not to scale in section. Refer to GAs for steel beam and column sizes.
- Floor structure over West Wing and 'Area to the Front of Lightwell' based on 'strong floor' design approach in accordance with the Camden Rule to meet requirements of disproportionate collapse Consequence Class 2B.
- Lightwell to have vertical and horizontal ties to meet requirements of disproportionate collapse Consequence Class 2B.
- Existing structure has been determined based on limited opening up works and is shown indicatively only. Further intrusive opening up works will be required to discern the existing structural arrangement in the next stages of design.
- Strengthening requirements to existing elements under string floor not fully known-pending structural survey and checking of capacities**



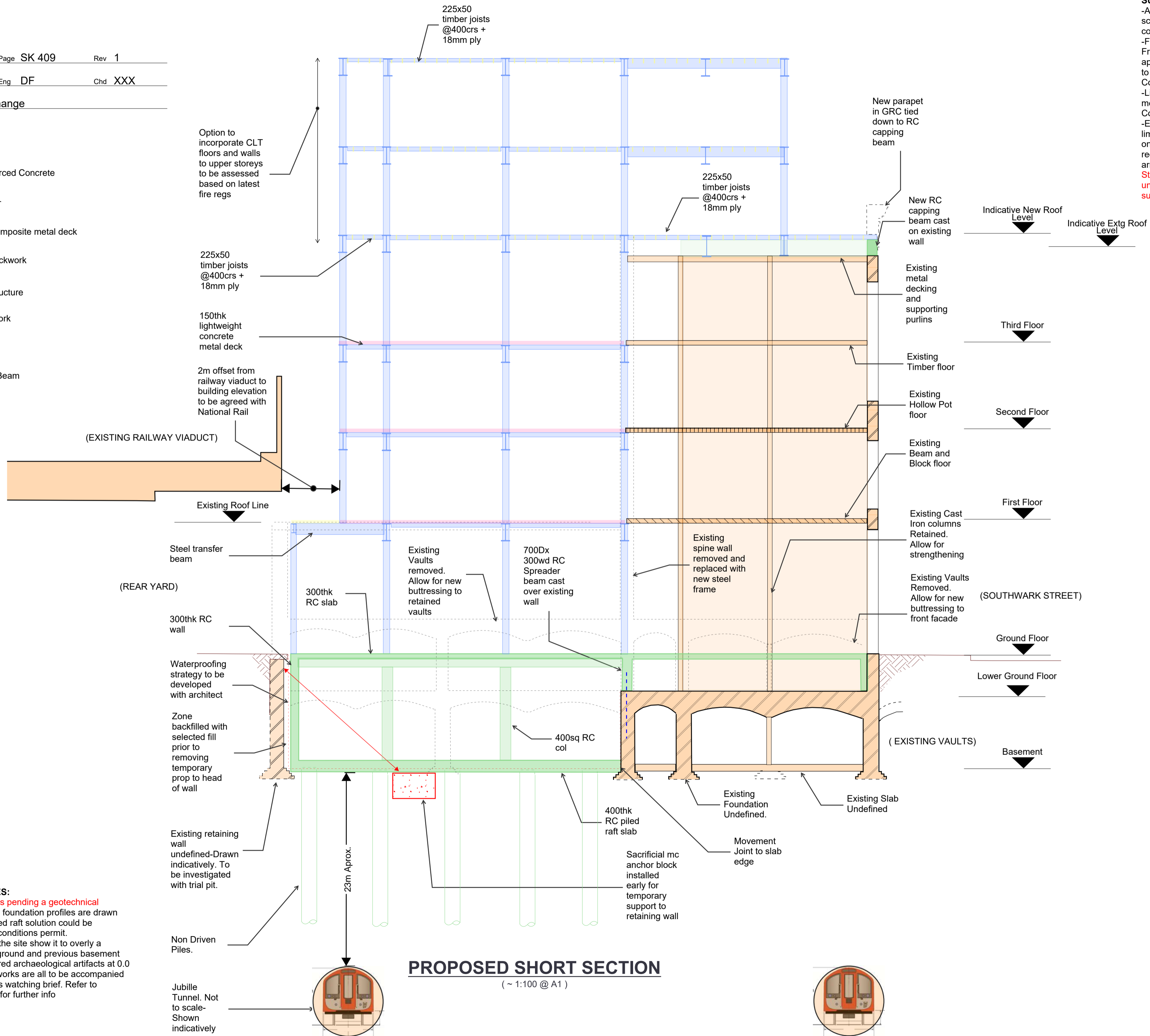
PROPOSED ROOF PLAN

(~ 1:125 @ A1)

- KEY**
- New Reinforced Concrete
 - New Timber
 - New 150 composite metal deck
 - Existing Brickwork
 - Existing Structure
 - New Steework
 - Demolition
 - New Steel Beam

SUPERSTRUCTURE NOTES:

- All steelwork shown indicatively only and not to scale in section. Refer to GAs for steel beam and column sizes.
- Floor structure over West Wing and 'Area to the Front of Lightwell' based on 'strong floor' design approach in accordance with the Camden Rule to meet requirements of disproportionate collapse Consequence Class 2B.
- Lightwell to have vertical and horizontal ties to meet requirements of disproportionate collapse Consequence Class 2B.
- Existing structure has been determined based on limited opening up works and is shown indicatively only. Further intrusive opening up works will be required to discern the existing structural arrangement in the next stages of design.
- Strengthening requirements to existing elements under string floor not fully known-pending structural survey and checking of capacities



FOUNDATION NOTES:

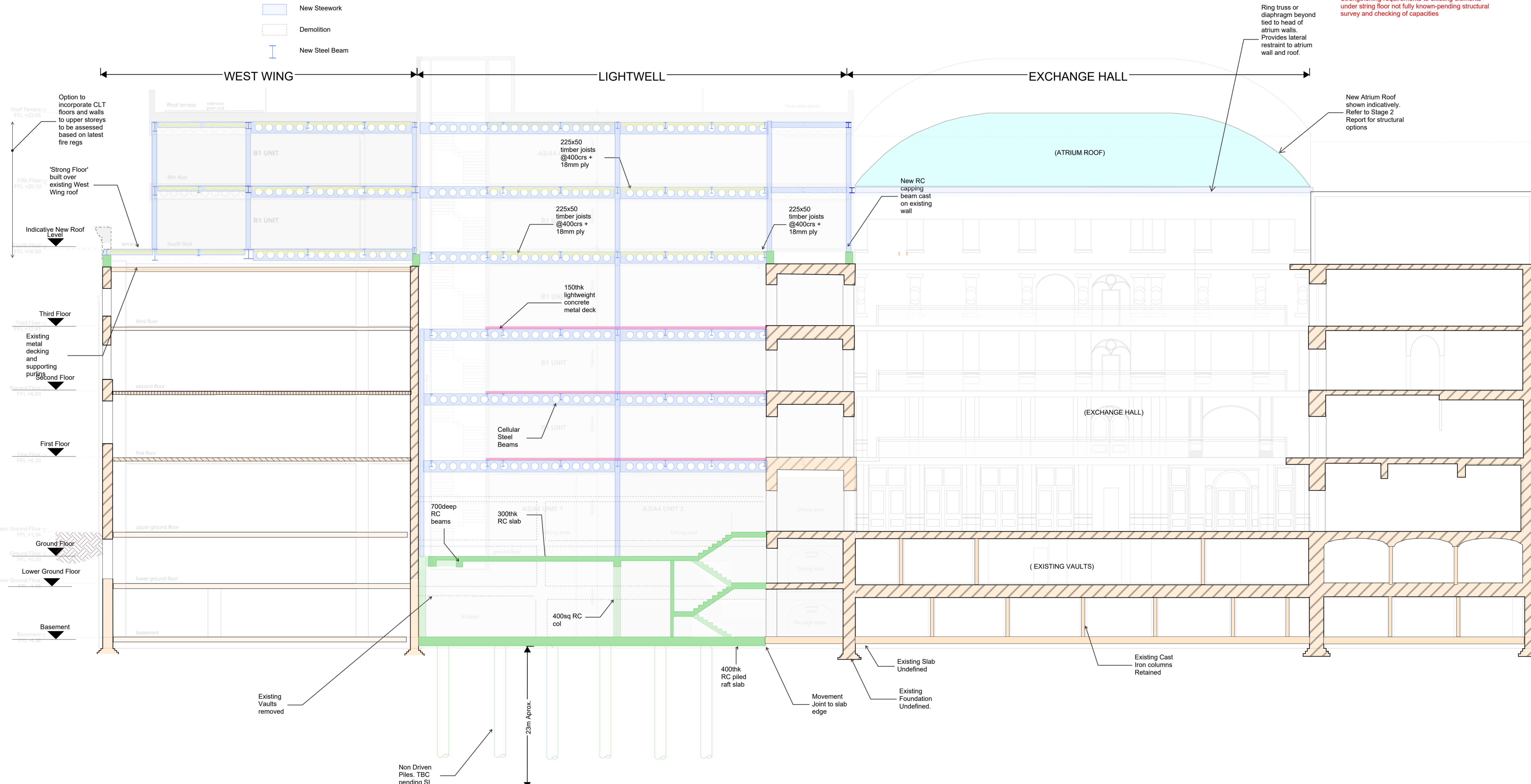
- Foundation scheme is pending a geotechnical investigation. Existing foundation profiles are drawn indicatively. A non piled raft solution could be considered if ground conditions permit.
- Historical records of the site show it to overly a post-medieval burial ground and previous basement trial pits have uncovered archaeological artifacts at 0.0 to -0.2 AOD. Groundworks are all to be accompanied by and archaeologist's watching brief. Refer to archaeological report for further info

PROPOSED SHORT SECTION
 (~ 1:100 @ A1)

- KEY**
- New Reinforced Concrete
 - New Timber
 - New 150 composite metal deck
 - Existing Brickwork
 - Existing Structure
 - New Steework
 - Demolition
 - New Steel Beam

SUPERSTRUCTURE NOTES:

- All steelwork shown indicatively only and not to scale in section. Refer to GAs for steel beam and column sizes.
- Floor structure over West Wing and 'Area to the Front of Lightwell' based on 'strong floor' design approach in accordance with the Camden Rule to meet requirements of disproportionate collapse Consequence Class 2B.
- Lightwell to have vertical and horizontal ties to meet requirements of disproportionate collapse Consequence Class 2B.
- Existing structure has been determined based on limited opening up works and is shown indicatively only. Further intrusive opening up works will be required to discern the existing structural arrangement in the next stages of design.
- Strengthening requirements to existing elements under string floor not fully known-pending structural survey and checking of capacities**



Existing Vaults removed

Non Driven Piles. TBC pending SI

23m Approx.

400thk RC piled raft slab

Movement Joint to slab edge

Existing Slab Undefined

Existing Foundation Undefined.

Existing Cast Iron columns Retained

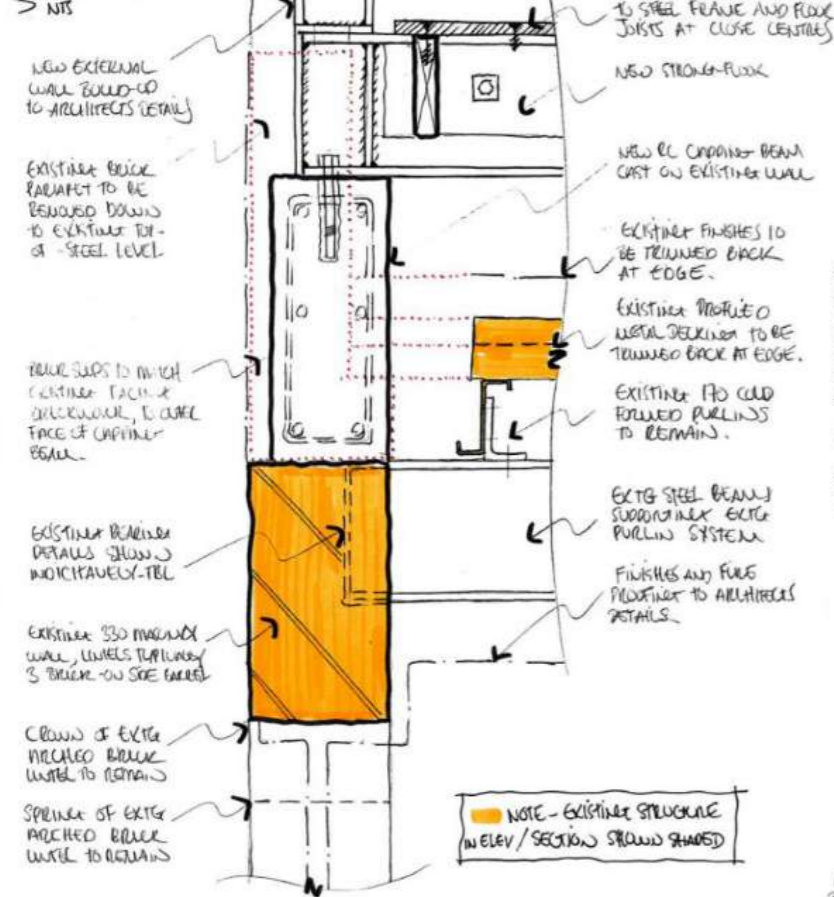
Jubilee Tunnel. Not to scale- Shown indicatively

PROPOSED LONG SECTION
 (~ 1:100 @ A1)

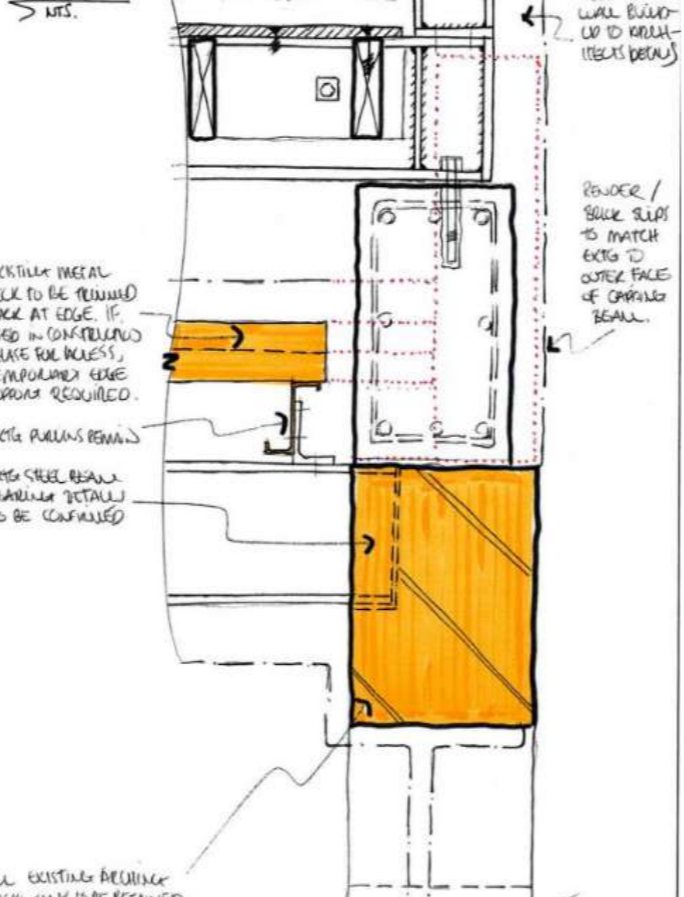
FOUNDATION NOTES:

- Foundation scheme is pending a geotechnical investigation. Existing foundation profiles are drawn indicatively. A non piled raft solution could be considered if ground conditions permit.
- Historical records of the site show it to overlie a post-medieval burial ground and previous basement trial pits have uncovered archaeological artifacts at 0.0 to -0.2 AOD. Groundworks are all to be accompanied by and archaeologist's watching brief. Refer to archaeological report for further info

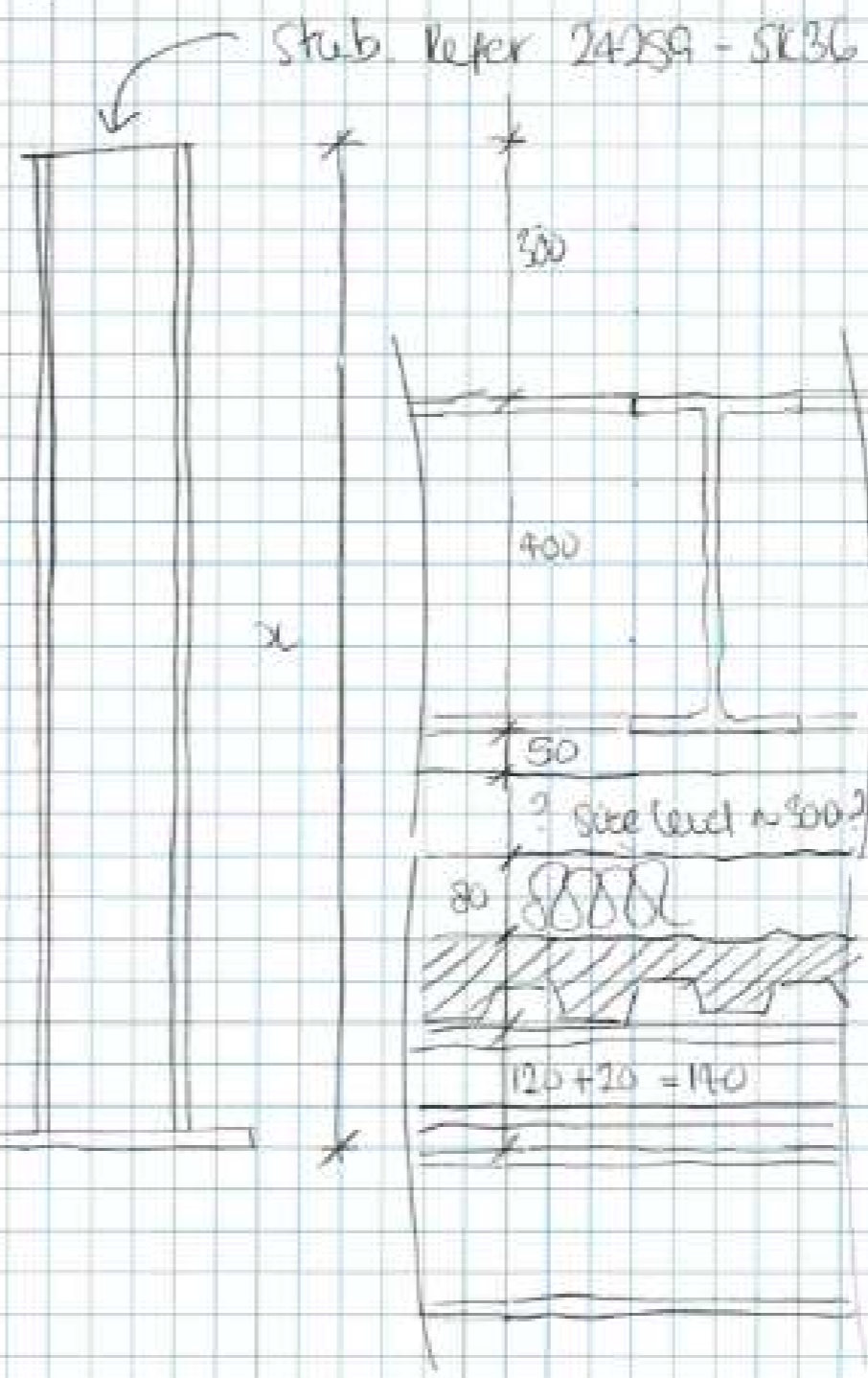
DETAIL 1



DETAIL 2



Roof Build-up (N/S)



- ▽ Splice - to avoid clashing with beam details. allow 300.
- ▽ rbs level to new strong floor - 406 max beam depth assumed, based on feasibility reports.
- So tolerance hold
- ▽ finishes high point for drainage fall
- ▽ insulation
- ▽ metal deck - say 100
- rs level to existing

$$x = 140 + 100 + 80 + 300 + 50 + 400 + 300$$

$$= 1370 \text{ mm.} \Rightarrow \text{SAY } 1.4 \text{ m}$$