

May 14, 2019



8-10 SOUTHAMPTON ROW

STAGE 2 STRUCTURAL DESIGN

DDN-STR-010 to 023



Project.
8-10 SOUTHAMPTON ROW
Title.
BASEMENT -2 LEVEL

Made by. OG	Job No. 70025363	Date. 11.03.19
Checked by. BA	Revision. P01	Page No. -
Drawing No. DDN-STR-010		

North sprinkler tank to be lined with RC300 wall and RC300 bottom slab.
Waterproofing strategy to be confirmed by Architect and MEP Engineer.

Typical Pile cap formed at B-2,
TOC = SSL.

Additional Pile cap formed at
B-2 - piles act as columns
between caps.

Pile cap from B-1 continues down
- formation level at TOC of
existing B-2 slab.

Existing raised footing

Pile cap from B-1 continues down
to raised footing

Existing raised footing

Pile cap from B-1 continues down
- formation level at TOC of
existing B-2 slab.

Pile cap formed at B-2,
TOC = SSL.

Confirm location of existing
brickwork to fit RC lift pit

Typical Pile cap formed at B-2,
TOC = SSL.

450mm dia piles between
existing piles to achieve
Contiguous pile wall.

Existing stairs becomes redundant

TFL ACCESS SHAFT

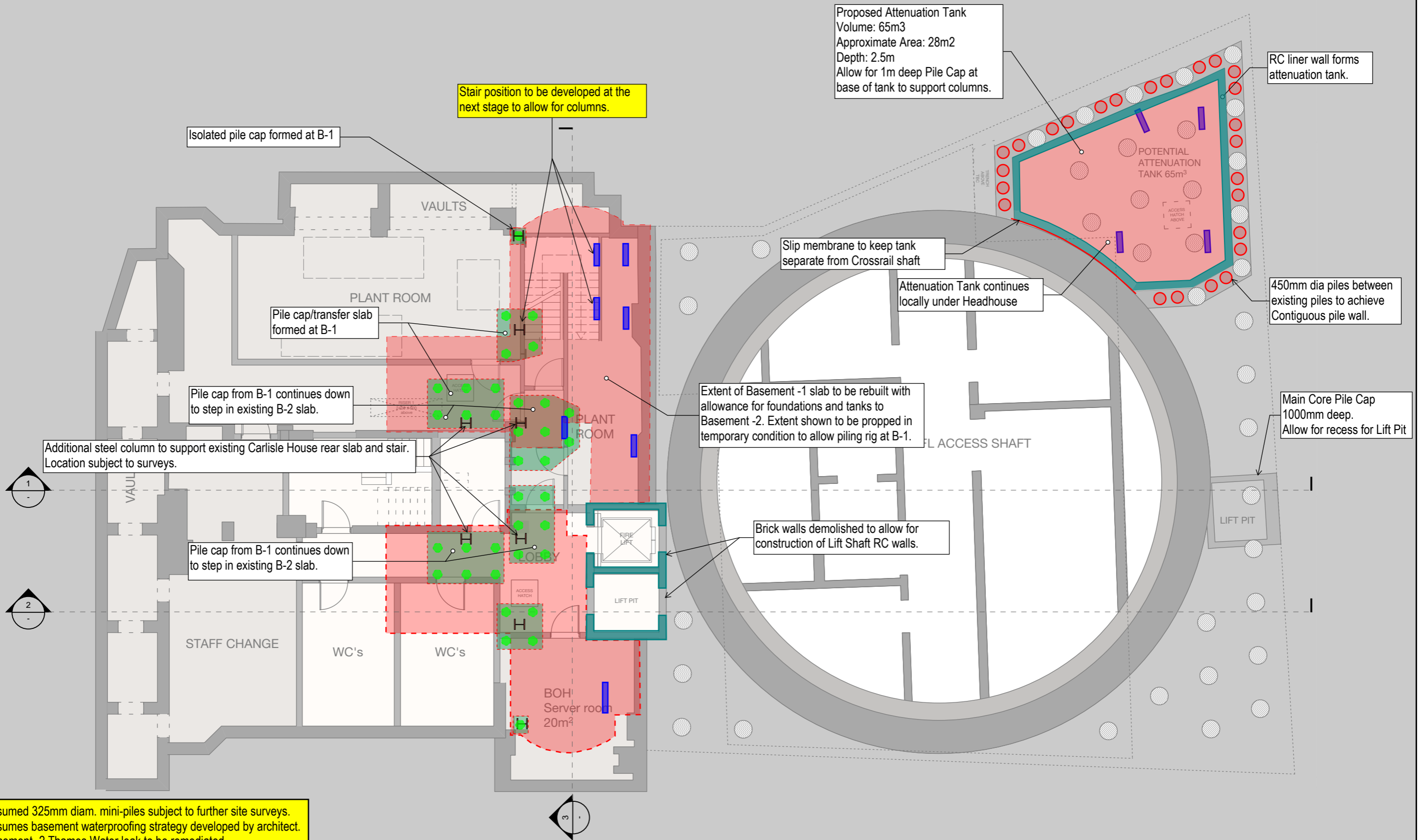
Brick walls demolished to allow for
construction of Lift Shaft RC walls.

- Assumed 325mm diam. mini-piles subject to further site surveys.
- Assumes basement waterproofing strategy developed by architect.
- Basement -2 Thames Water leak to be remediated.
- Allow for Underpinning of existing brick walls.
- Possible ground obstructions. Allow for demolition works.



Project.
8-10 SOUTHAMPTON ROW
Title.
BASEMENT -1 LEVEL

Made by. OG	Job No. 70025363	Date. 11.03.19
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Drawnig No. DDN-STR-011		



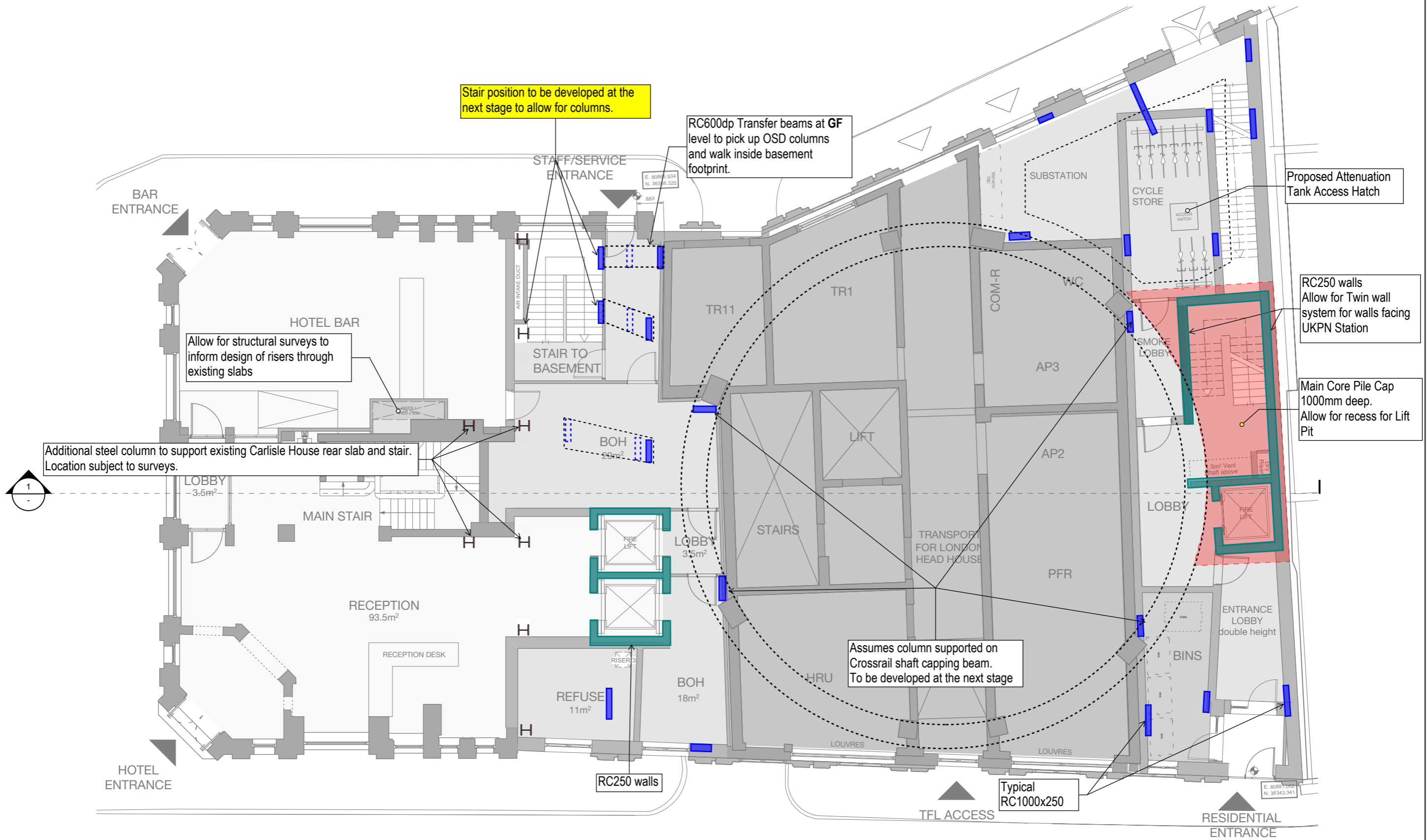
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- Assumes basement waterproofing strategy developed by architect.
- Basement -2 Thames Water leak to be remediated.
- Allow for Underpinning of existing brick walls.
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Project:
8-10 SOUTHAMPTON ROW

Title:
GROUND FLOOR LEVEL

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Drawnig No. DDN-STR-012		

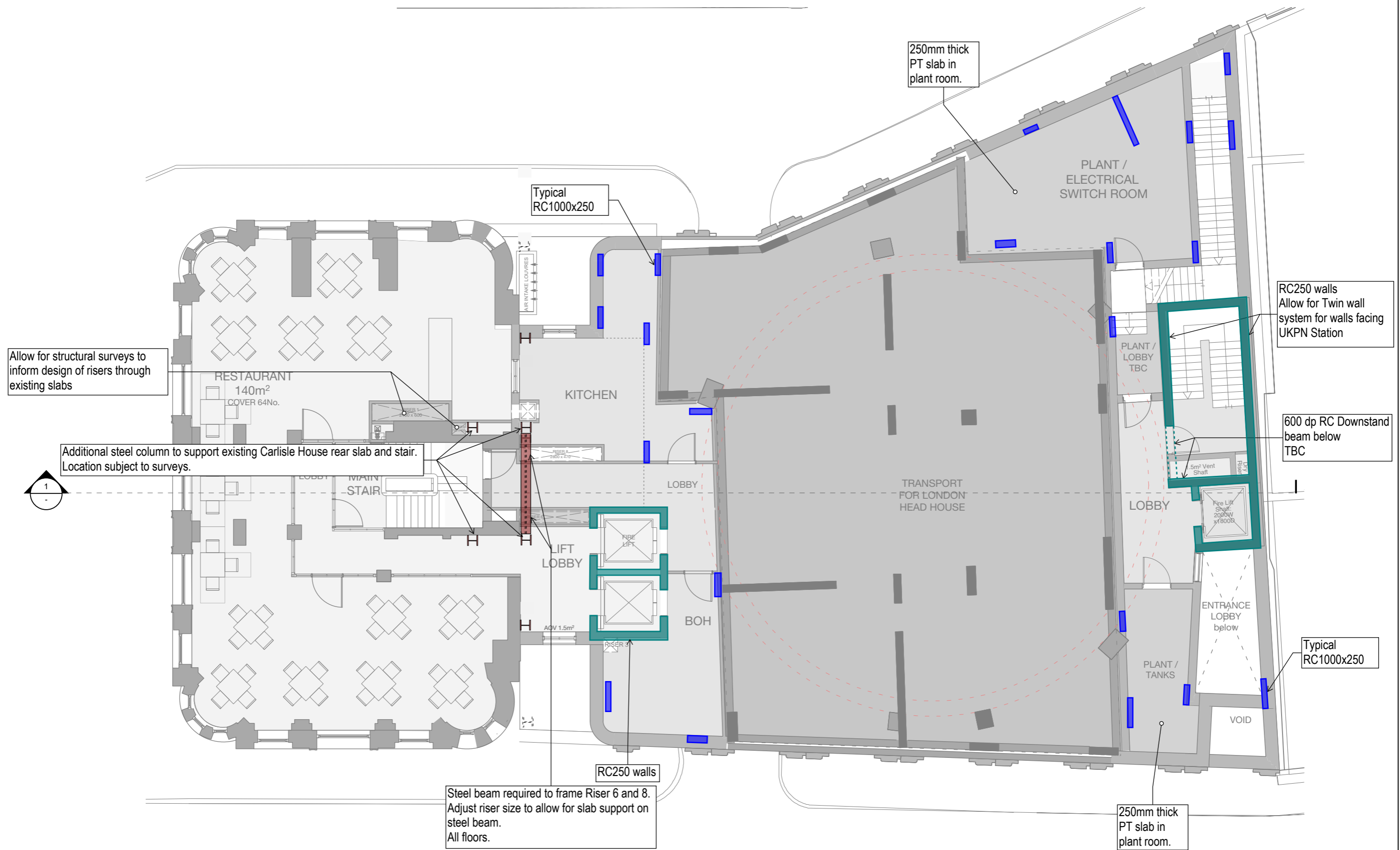




Project.
8-10 SOUTHAMPTON ROW

Title.
FIRST FLOOR LEVEL

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Drawnig No. DDN-STR-013		





Project:
8-10 SOUTHAMPTON ROW

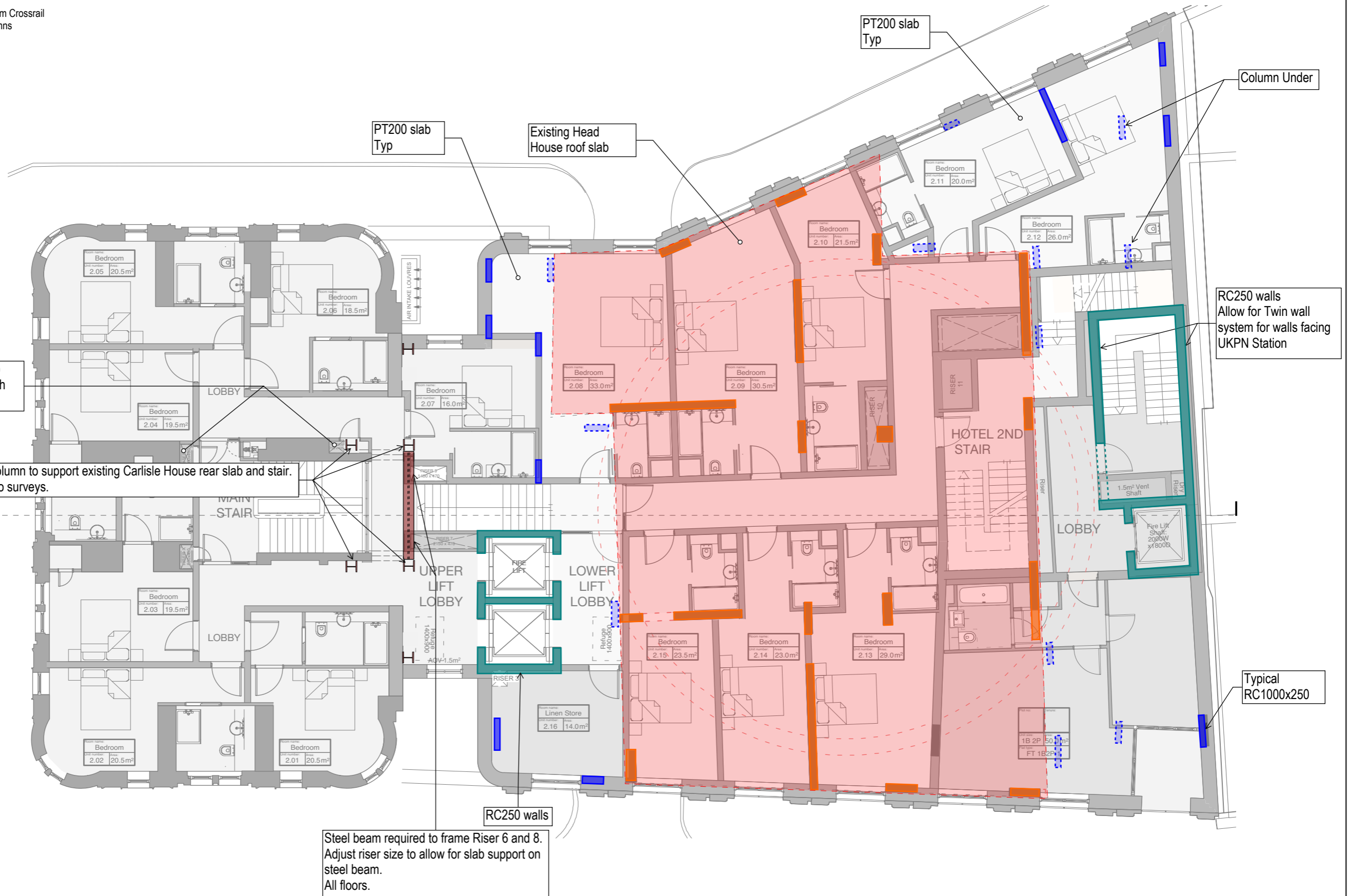
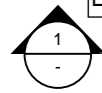
Title:
SECOND FLOOR LEVEL

Made by: OG	Job No. 70025363	Date. 11.03.19
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Drawnig No. DDN-STR-014		

Support taken from Crossrail
Headhouse columns

Allow for structural surveys to
inform design of risers through
existing slabs

Additional steel column to support existing Carlisle House rear slab and stair.
Location subject to surveys.



Column Under

RC250 walls
Allow for Twin wall
system for walls facing
UKPN Station

Typical
RC1000x250

RC250 walls

Steel beam required to frame Riser 6 and 8.
Adjust riser size to allow for slab support on
steel beam.
All floors.



Project:
8-10 SOUTHAMPTON ROW

Title:
THIRD FLOOR LEVEL

Made by.	OG	Job No.	70025363	Date.	11.03.19
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			Drawnig No.	DDN-STR-015	

Support taken from Crossrail Headhouse columns

PT200 slab Typ

PT200 slab Typ

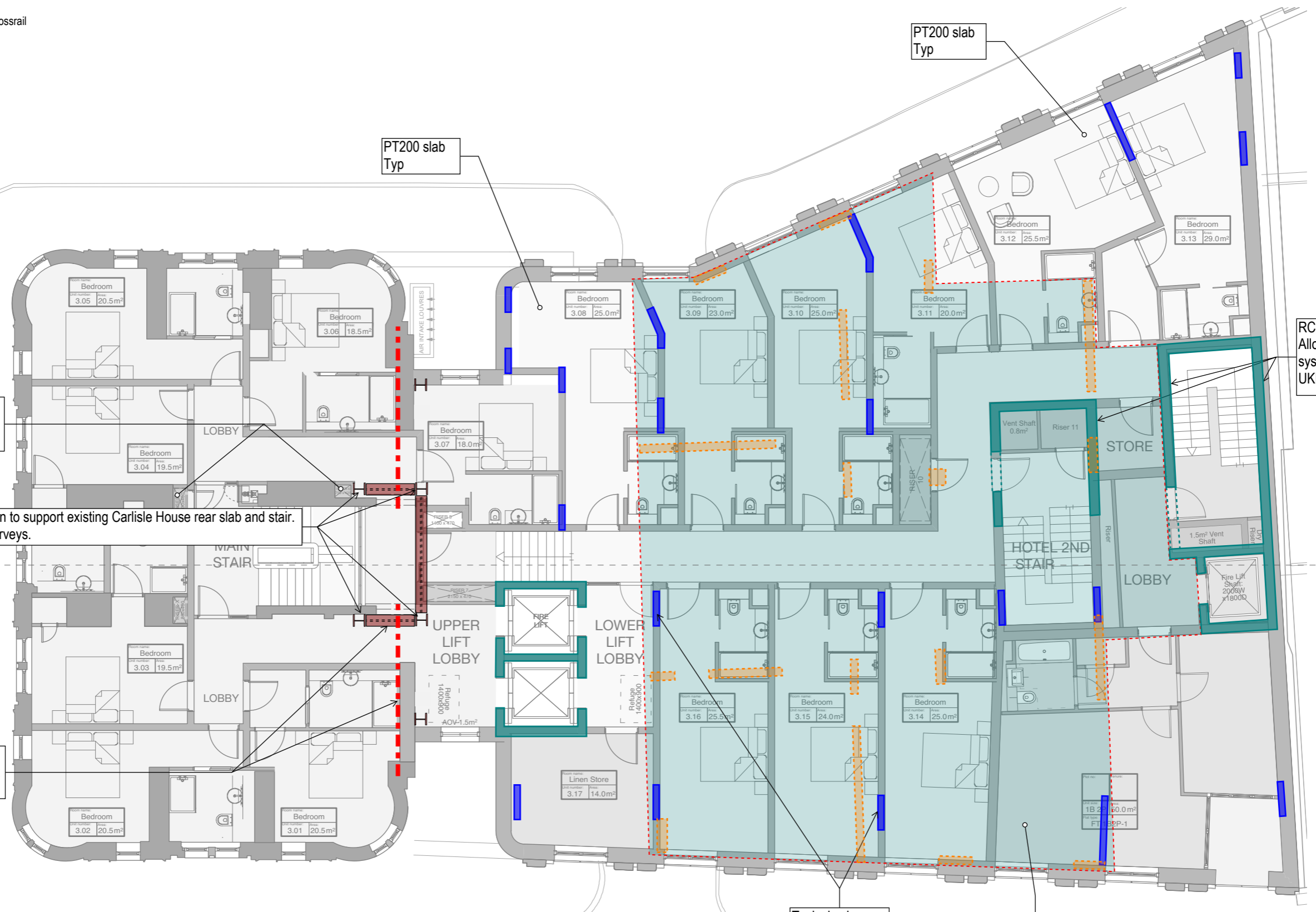
Allow for structural surveys to inform design of risers through existing slabs

Additional steel column to support existing Carlisle House rear slab and stair. Location subject to surveys.



Steel beam positioned below facade beam to provide support in replace of brick pier.

RC250 walls
Allow for Twin wall system for walls facing UKPN Station



Typical columns RC1000x200

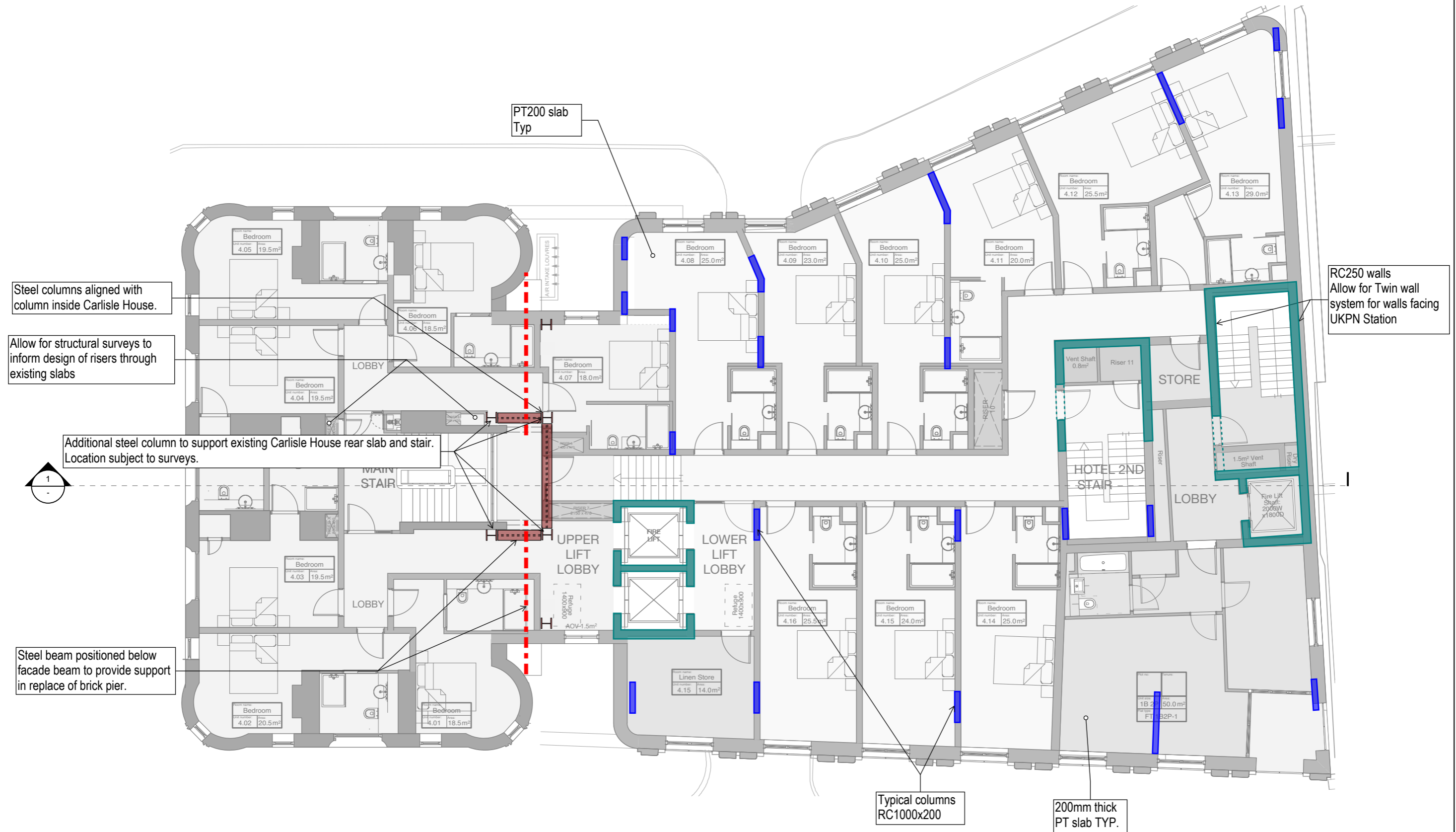
Proposed extent of 600mm thick RC transfer slab



Project.
8-10 SOUTHAMPTON ROW

Title.
FORTH FLOOR LEVEL

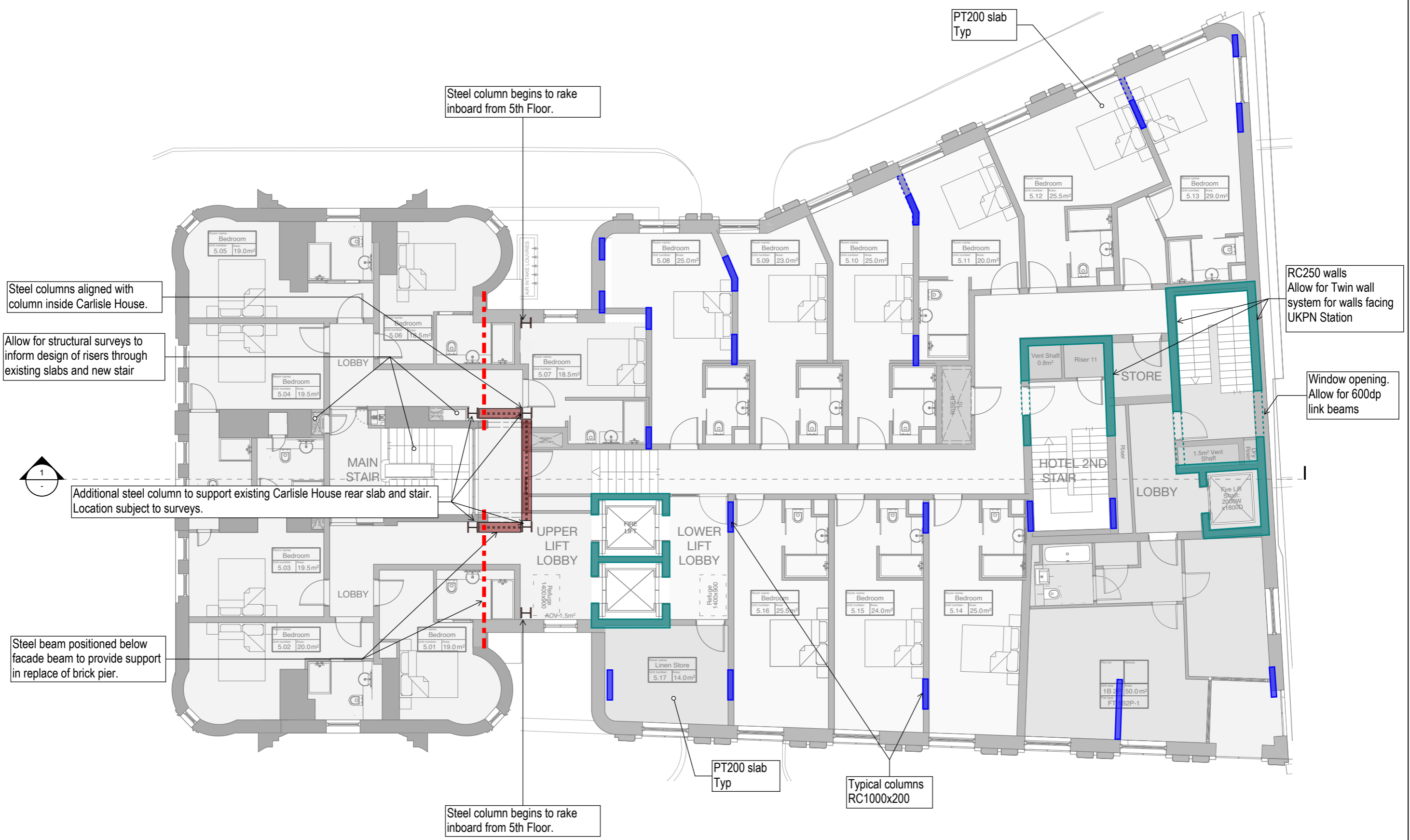
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Drawnig No. DDN-STR-016		





Project.
8-10 SOUTHAMPTON ROW
Title.
FIFTH FLOOR LEVEL

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Drawnig No. DDN-STR-017		

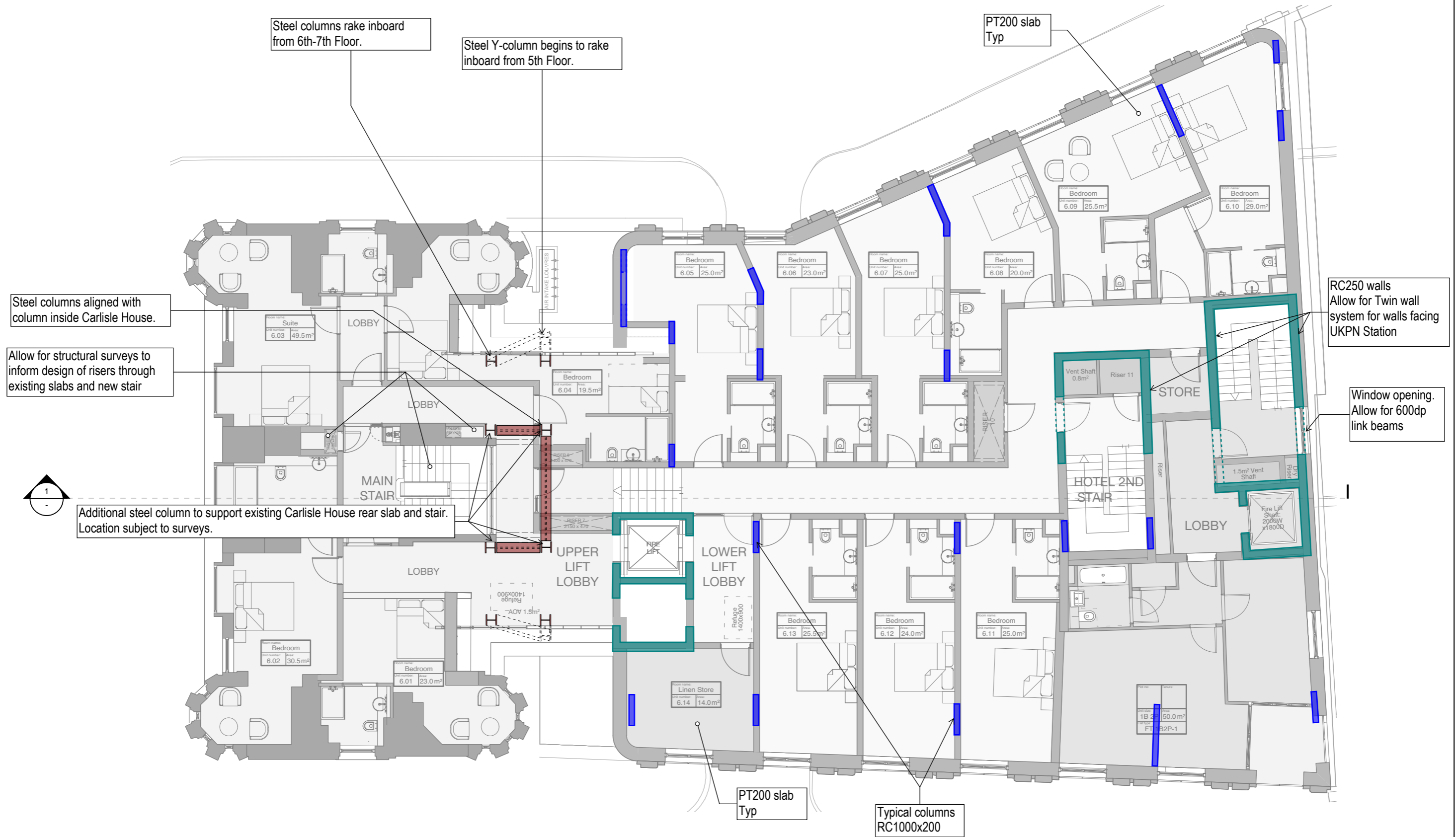




Project.
8-10 SOUTHAMPTON ROW

Title.
SIXTH FLOOR LEVEL

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Drawnig No. DDN-STR-018		

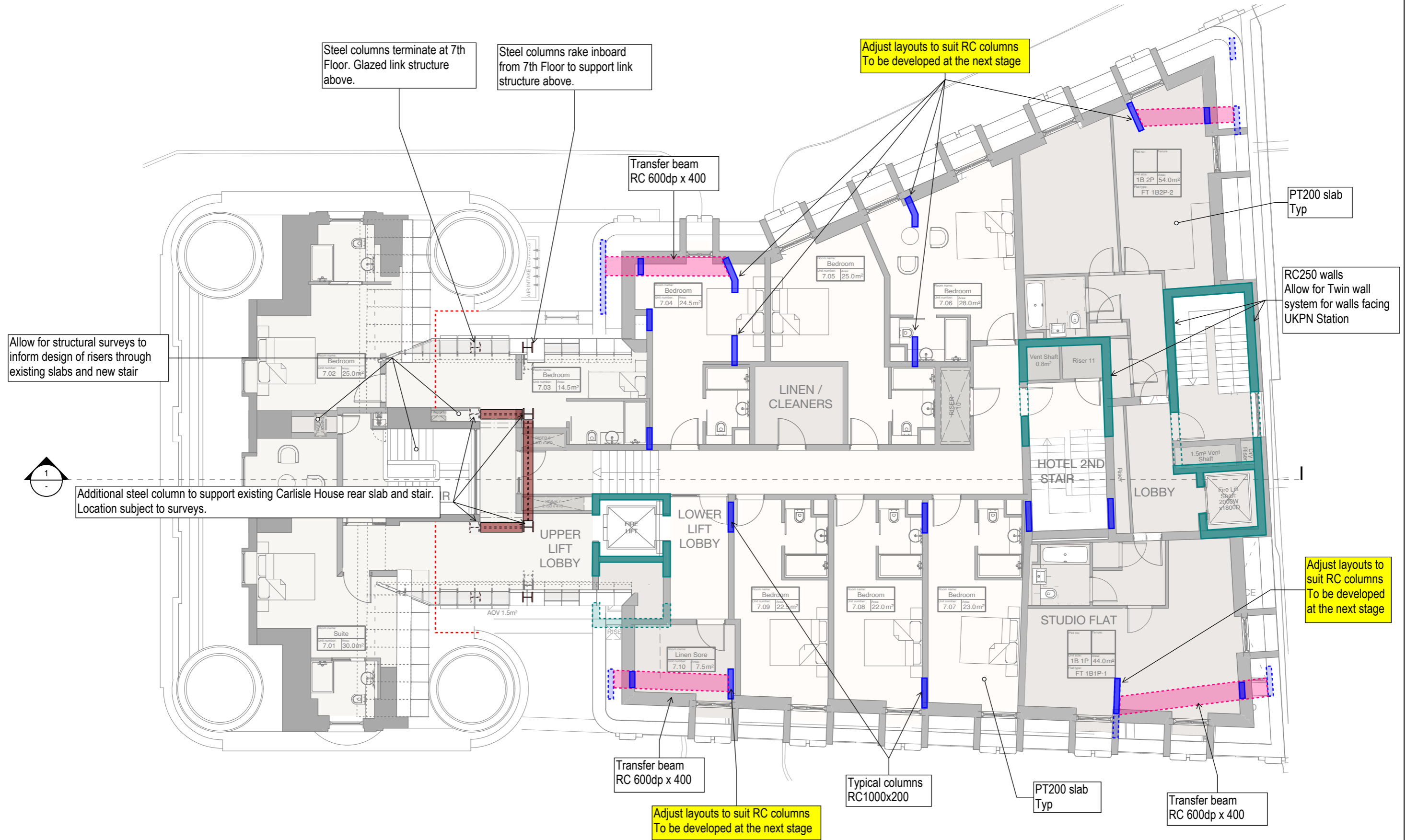




Project.
8-10 SOUTHAMPTON ROW

Title.
SEVENTH FLOOR LEVEL

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Steel columns terminate at 7th Floor. Glazed link structure above.

Steel columns rake inboard from 7th Floor to support link structure above.

Adjust layouts to suit RC columns
To be developed at the next stage

Transfer beam
RC 600dp x 400

PT200 slab
Typ

RC250 walls
Allow for Twin wall
system for walls facing
UKPN Station

Allow for structural surveys to
inform design of risers through
existing slabs and new stair



Additional steel column to support existing Carlisle House rear slab and stair.
Location subject to surveys.

UPPER LIFT LOBBY

LOWER LIFT LOBBY

HOTEL 2ND STAIR

LOBBY

Adjust layouts to suit RC columns
To be developed at the next stage

Transfer beam
RC 600dp x 400

Adjust layouts to suit RC columns
To be developed at the next stage

Typical columns
RC 1000x200

PT200 slab
Typ

Transfer beam
RC 600dp x 400

STUDIO FLAT

1B 1P 44.0m²

FT 1B1P-1

Suite

7.01 30.0m²

Linen Store

7.10 7.5m²

AOV 1.5m²

Bedroom

7.09 22.5m²

Bedroom

7.08 22.0m²

Bedroom

7.07 23.0m²

Bedroom

7.04 24.5m²

Bedroom

7.05 25.0m²

Bedroom

7.06 28.0m²

1B 2P 54.0m²

FT 1B2P-2

Vent Shaft

0.8m²

Riser 11

1.5m² Vent Shaft

Riser

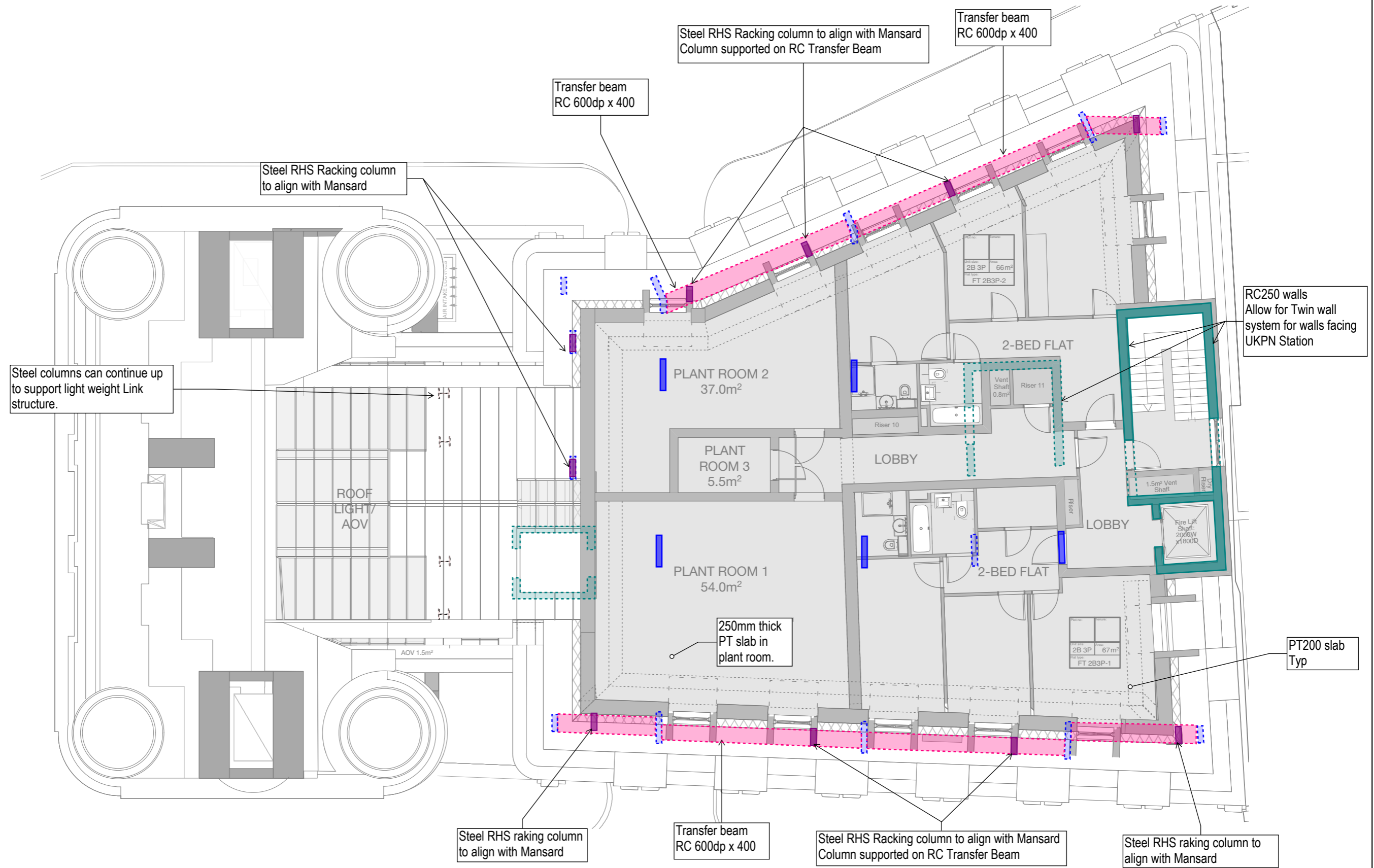
Fire Lift Shaft

2000W x 1800D



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EIGHTH FLOOR LEVEL

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Drawnig No. DDN-STR-020		

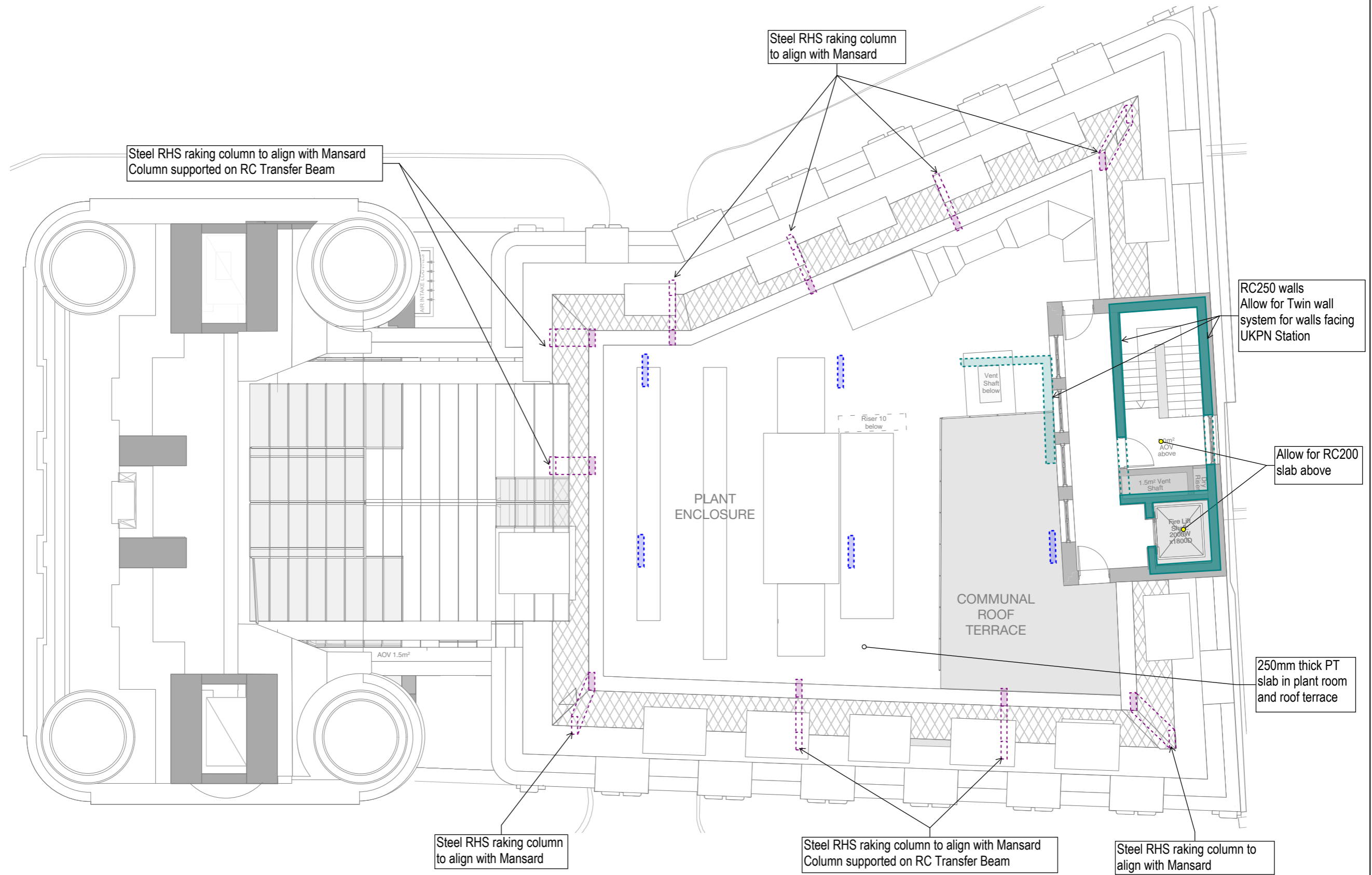




Project.
8-10 SOUTHAMPTON ROW

Title.
NINTH FLOOR (ROOF) LEVEL

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Drawnig No. DDN-STR-021		

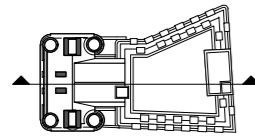
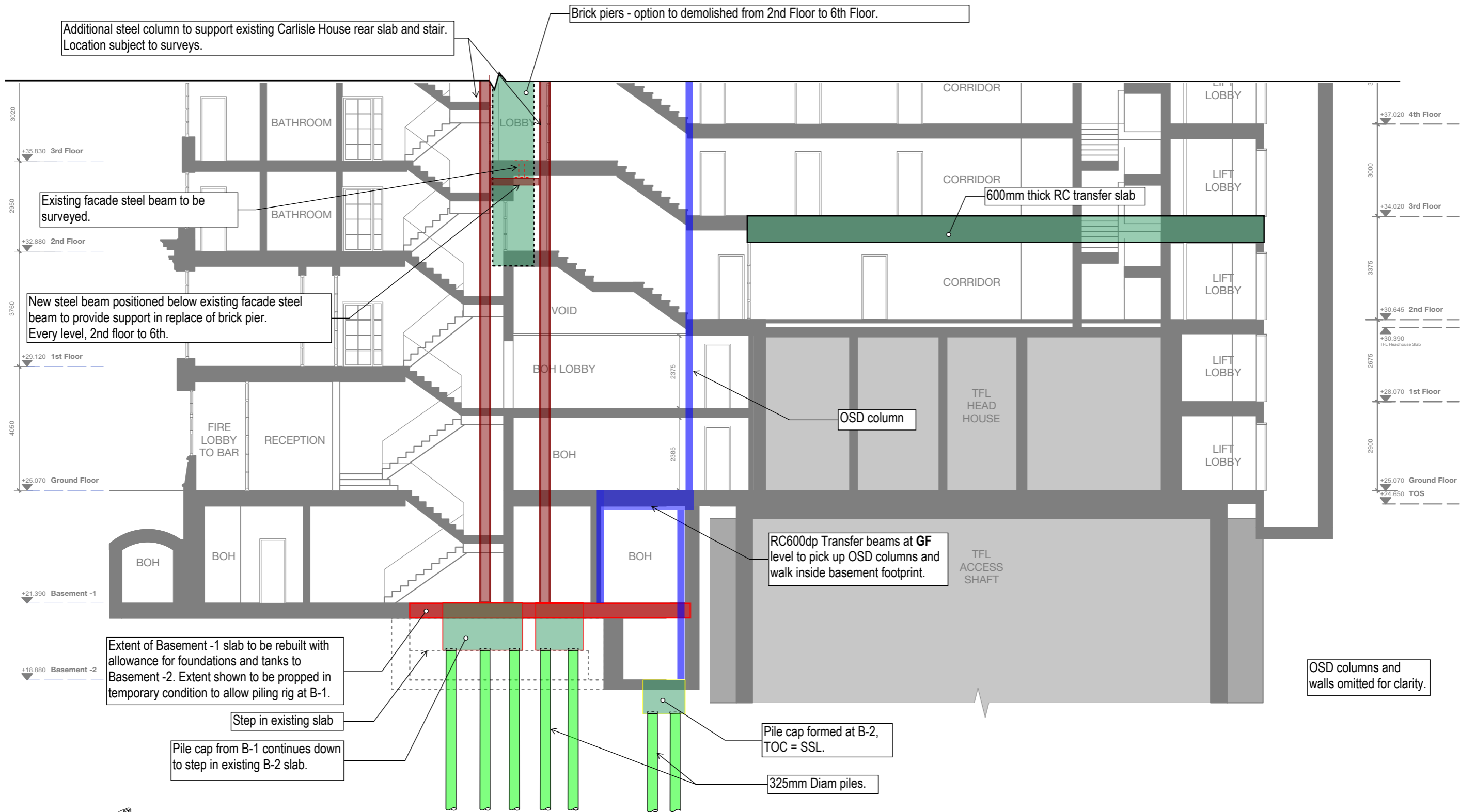




Project.
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Title.
BUILDING SECTION

Made by. OG	Job No. 70025363	Date. 11.03.19
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Drawnig No. DDN-STR-022		



SECTION 1

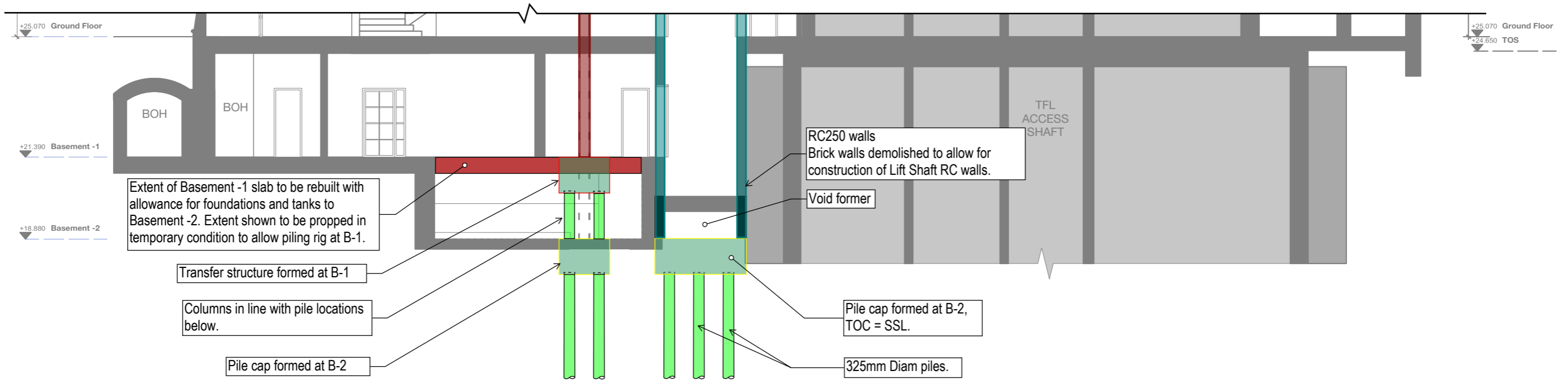
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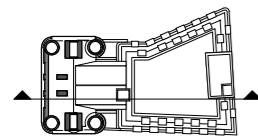
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8-10 SOUTHAMPTON ROW

Title.
BASEMENT SECTION

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SECTION 2



- Assumed 325mm diam. mini-piles subject to further site surveys.
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