



**36 METHUEN PARK
LONDON**

CONSTRUCTION METHOD STATEMENT

August 2021

Project Ref: J002075

REVISION HISTORY

Rev	Purpose	Date	Issued By	Approved
0	Initial Issue	24-08-2021	GG	DG

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APPENDIX A – GSE DRAWINGS.

1.0 INTRODUCTION

This Temporary Works Package details the overall sequence and procedures for the proposed alteration at No. 36 Methuen Park. Some of the procedures involves needle and propping, basement propping and support of existing structure.

The Temporary Works Package is to be read in conjunction with the drawings and information listed below.

KS DESIGN/ DAVID A BERLE EXISTING AND PROPOSED DRAWINGS

174.14 / 000	P1	Existing Basement Floor plan
174.14 / 000	P1	Existing Ground Floor Plan
174.14 / 000	P1	Existing First floor Plan
174.14 / 000	P1	Existing Loft Plan
15102 - 01	P1	Ground Floor – DAB Eng drawings
15102 – 02	P1	First Floor – DAB Eng drawings
15102 - 03	P1	Sections – DAB Eng drawings

Latest Drawings Sent on: 17/08/21

MTA-002/ 200-B	P0	Proposed Basement & Ground Plan
MTA-002/ 201-A	P0	Proposed First floor & Loft Plan
MTA-002/ 202-A	P0	Proposed Front Elevation
MTA-002/ 203-A	P0	Proposed Sections

GSE PERMANENT WORKS DRAWINGS (PROJECT REF J002075)

GA/01	P2	Basement GA
GA/02	P2	Ground Floor GA
S/01	P2	Section Sheet 1
S/02	P2	Section Sheet 2
S/03	P2	Section Sheet 3

GSE TEMPORARY WORKS DRAWINGS (PROJECT REF J002103)

TW/01 to TW/06	T1	Scheme 1- Construction Sequence
TW/02.1	T1	TW Pier Support Section XX & YY Details
TW/04.1	T1	Retaining Wall High Level Prop
TW/04.2	T1	Retaining Wall Low Level Prop
TW/05.1	T1	Strong Boy for new lintel
TW/05.2	T1	Propping for beams on First Floor
TW/06.1	T1	Chimney support details
MS/01	T1	Underpinning – Typical Sequence
MS/02	T1	Underpinning – Typical Sequence
TD/01	T1	Excavation Support Detail for Underpinning
TD/02	T1	Excavation Support Detail for Trench

2.0 DESIGN BRIEF

Green Structural Engineering Limited (GSE) have been appointed to advise on the temporary works required to construct the proposed basement and above ground works at No. 36 Methuen Park.

The proposed permanent works includes the formation of a new basement and new front lightwell. The underpins are to be cast in 1m wide bays.

Permanent works design has also been undertaken by GSE

3.0 OVERALL CONSTRUCTION SEQUENCE

The following sequence has been assumed in the temporary works design and corresponds to stages and sequencing shown on GSE drawings TW/01–06 and MS/01-02.

Note: all existing openings in load bearing walls are to be packed with timber and plywood sheeting.

Existing structure to be confirmed by contractor on site as shown on Stage 0 of drawing TW/01, including existing joist span directions, prior to construction.

Debris needs to be regularly cleared from the site. Do not store debris on the existing floor. This may overload the existing structure.

Stage 0.0

- Existing condition to be confirmed by contractor prior to construction.
- Site set up.
- All other existing opening in load bearing walls are to be packed with timber and plywood.
- Carry out soft strip.

Stage 1.0

- Demolish the non-load bearing wall. TBC.
- Locally remove GF structure, dig, underpin, construct load bearing wall, back fill, compact. Work to be done in hit and miss sequence. Max excavation width is to be 1m. **Refer to drawing TD/01** for excavation support detail for underpinning.
- Construct ring beam on the front light well area. Ensure that the ring beam is tied to front wall and dowel bars into the soil to allow connection with the future lightwell retaining wall. **Refer to stage 1 on drawing TW/02. Refer to drawing TD/01 for details.**

Stage 2.0

- Install temporary bridge beam and needles to support front bay structure.
- Dry pack the gap between the needle, bridge beam and the wall above. **Refer to stage 2 on drawing TW/02. Refer to drawing TW/02.1 for details.**

Stage 3.0

- Dig to general dig level of 500mm below GF.
- Underpin in hit and miss sequence as indicated. Excavation needs to be supported on all side at all times. Refer to drawing TD/01 for excavation support detail for underpinning. Note: chimney breast to be back propped to the underpin base using Acrow props. **Refer to stage 3 on drawing TW/03. Refer to drawing TD/01 for details.**

Stage 4.0

- Construct ring beam to the rear retaining wall.
- Underpin in hit and miss sequence as indicated. Excavation needs to be supported on all side at all times. Refer to drawing TD/01 for excavation support detail for underpinning.
- At this stage all the retaining walls are constructed. **Refer to stage 4 on drawing TW/03.**

Stage 5.0

- Install high level retaining wall propping.
- Reduce the central berm to 500mm above underpin base SSL. **Refer to stage 5 on drawing TW/04. Refer to drawing TW/04.1 for details.**

Stage 6.0

- Install low level retaining wall propping. **Refer to stage 6 on drawing TW/04. Refer to TW/04.2 for details.**
- Reduce the central berm to formation level.
- Install under basement service.
- Construct the basement slab.
- Remove low level propping.

Stage 7.0

- Install vertical props to the underside of the existing beam at 1st floor. Prop founded on temporary pad or on top of retaining wall at ground floor or on to new basement slab at lower ground floor. **Refer to drawing TW/05.2 for detail.**
- Install strong boys to form the new door opening. **Refer to drawing TW/05.1 for detail.**
- Demolish the existing RC wall below.
- Install new lintel and dry pack any gap between the new lintel and the wall above.
- Remove strong boys.
- Remove vertical props to the 1st floor steel. **Refer to stage 7 on drawing TW/05.**

Stage 8.0

- Install strong boys to chimney breast to install new beam at ground floor. **Refer to stage 8 on drawing TW/06 & TW/06.1 for details.**
- Demolish the existing wall below the strong boy.
- Install all the beam up to ground floor.
- Dry pack any gap between the new beam and the wall above.
- Remove strong boys.
- Remove temporary needle and bridge beam at the front light well area.
- Construct ground floor structure.
- Remove high level retaining propping.

Stage 9.0

- Underpin in hit and miss sequence as indicated to from the stairs at the rear. Excavation needs to be supported on all side at all time. Refer to drawing TD/01 for excavation support detail for underpinning. **Refer to stage 9 on drawing TW/06 & TD/01 for details.**

Underpin Construction Sequence

1. The reinforced concrete underpins are to be constructed in the bays shown on GSE drawing series J002075 TW/01 to TW/06 with each underpin section no more than 1.0 m wide. No adjacent underpin to be constructed within a 48-hour period. The construction sequence of each section will be as follows below.
2. A general level reduction will be carried out across site as per Stage 1 of MS/01.
3. An underpin section will be locally excavated (Stage 2 on MS/01). The excavation faces will be shored with trench sheets and trench props as per MS/01. Edge protection consisting of 4" x 2" timber posts, double handrails and toe boards will be erected around the excavation.
4. The base of the underpin section will be poured on the same day (Stage 3 on MS/01). The length of the base to be constructed will be in accordance with the structural engineer's drawings.
5. On the following day, the stem of the underpin section will be poured up to 50 – 75 mm below the underside of the existing footing (Stage 4 on MS/01).
6. Once the concrete has achieved sufficient strength (min. 24 hours) then dry pack between the top of the wall and the underside of the existing foundation.
7. Once the dry pack has gained sufficient strength (min. 48 hours), any protruding existing footing will be carefully trimmed back flush with the face of the wall above using hand tools.
8. On completion of the construction of each underpin section, the face shutter will be struck and the underpins re-propped against the central berm as per stage 5 on MS/01.
9. Ring beams must be formed as per permanent works detail in light well areas before berm can be reduced and propping removed. And install the high-level props wherever applicable.
10. When all the underpins are complete, the central berm can start to be reduced. The underpins are not stable against sliding until the basement slab has been cast so propping is required to stop the underpins sliding until the basement slab is in place Stage 6 on MS/02.
11. Excavate to formation as shown on stage 7 on MS/01. Construct remaining new foundation and install under basement services.
12. Pour concrete slab as per Stage 8 on MS/02. Props can be removed once cured.
13. Construct basement walls/structure and ground floor structure removed top level prop and basement completed as per stage 9 on MS/02.

Needle and Prop Construction Sequence

NOTE: Position steel beam within suitable distance to ensure no clash with temporary propping arrangement.

- Position temporary bases as per c/c and spacing on TWD drawings.
Contractor to confirm setting out.
- Erect props and brace in elevation.
- Pocket holes in wall above opening (approx. 250 x 250mm).
- Install needle beam and drypack top flange to underside of masonry.
- Demolish masonry below to form new opening.
- Install permanent steelwork as per permanent works engineer's details.
- Drypack from top of permanent steelwork to underside of existing masonry.
- Remove needle and propping.

Method Statement for Chasing out Brickwork to Party Wall

- The chasing of brickwork will be as the following sequence:
- Mark location of padstone or steel beam
- Using an angle grinder cut around the perimeter of the location ensuring a maximum cut depth of 100mm
- Using hand tools only, carefully break out the internal area of the padstone location ensuring a maximum depth of 100mm
- Ensure remaining brickwork is tidy and sound.
- If using precast padstone, insert now and dry pack under and to the sides.
- If pouring insitu padstone, erect shuttering and pour concrete ensuring vibration.
- Once steel beam is in place, encase the ends of the beam with concrete.
- If padstone is to extend down to underpinning, use above method for chasing out the brickwork but extend down to top of underpinning.

Method Statement for Removing Remaining Corbel

As the underpinning is constructed the remainder of the footing will be removed as shown on the section drawings, this will be as the following sequence.

- Using a diamond saw cutter to cut the concrete corbels at the extents of the underpin ensuring the cut depth doesn't go into the party wall behind.
- Using diamond saw cutter, carefully break out the corbels between the two cut lines.
- Ensure remaining brickwork is tidy and sound.

4.0 INSPECTION OF TEMPORARY WORKS

Once the temporary works have been installed, they will be inspected by the Temporary Works Supervisor to verify that they have been correctly installed according to the drawings and they are providing support and stability to the works, as intended.

Prepared by George Glancy Green Structural Engineering Ltd AUGUST 2021	Checked by Diwash Gurung Green Structural Engineering Ltd AUGUST 2021
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APPENDICES

The following appendices are included with this report.

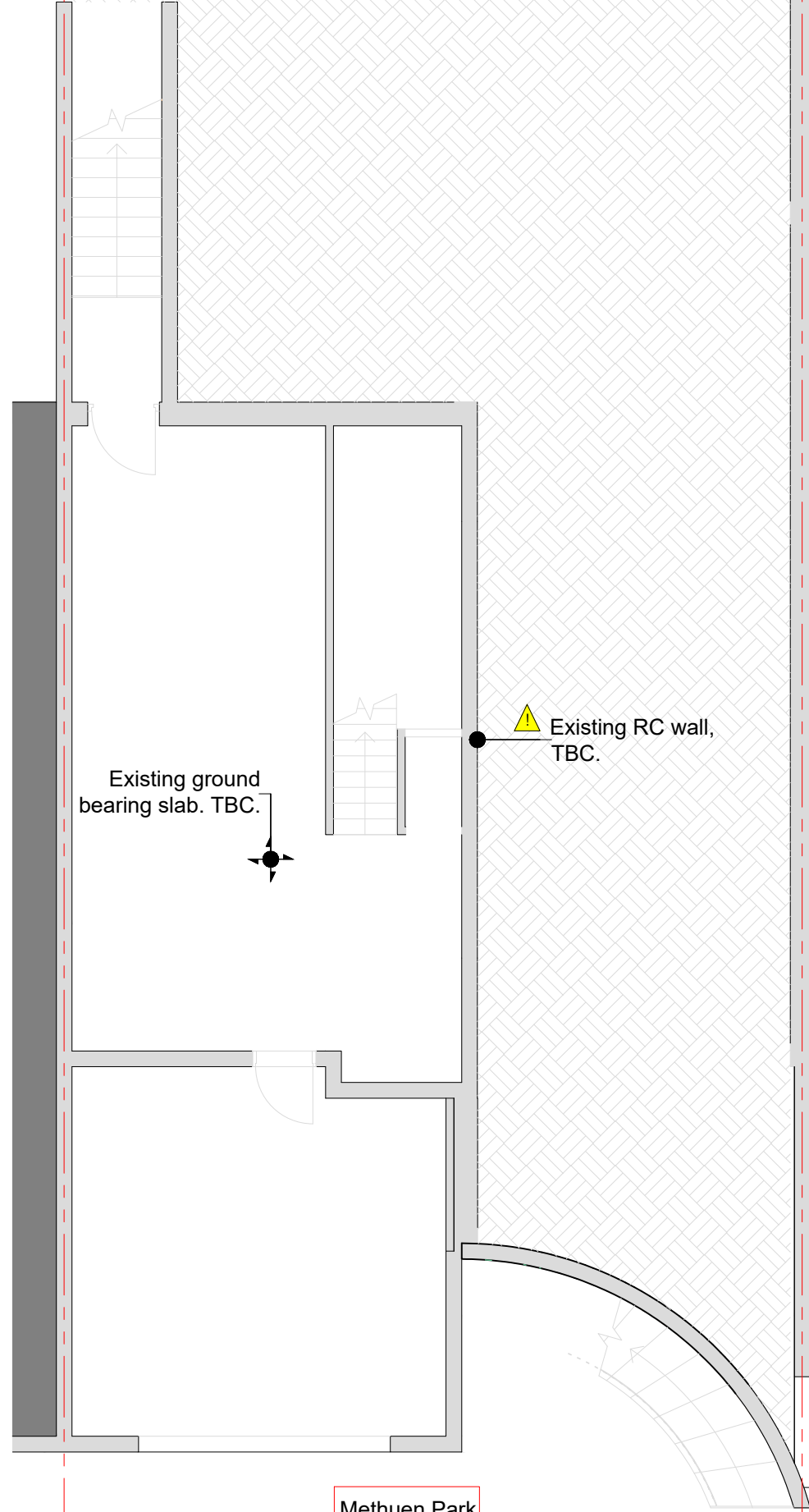
- GSE Temporary works drawings

APPENDIX A

GSE DRAWINGS

Boundary line

38 Methuen Park



EXISTING LOWER GROUND FLOOR PLAN



The presence of all the existing structural element shown below, is to be confirmed on site by contractor.

Stage 0

1. Existing condition to be confirmed by contractor prior to construction.
2. Site set up.
3. All existing opening in load bearing walls are to be packed with timber and plywood.
4. Soft strip.

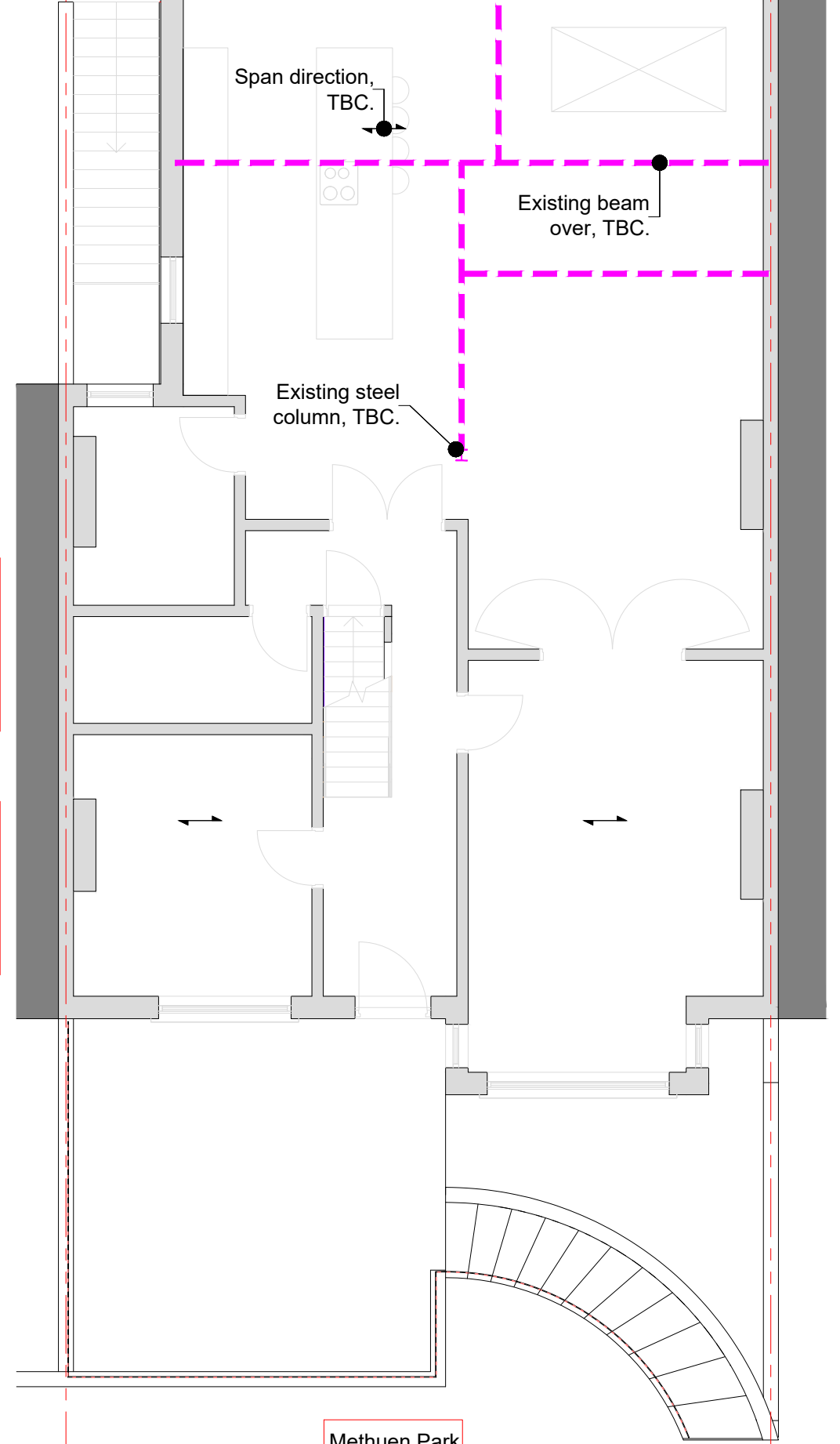
Boundary line

34 Methuen Park

Assumed No Basement

Boundary line

38 Methuen Park



EXISTING GROUND FLOOR PLAN

Boundary line

34 Methuen Park

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SETTING OUT TO BE CONFIRMED ON SITE.

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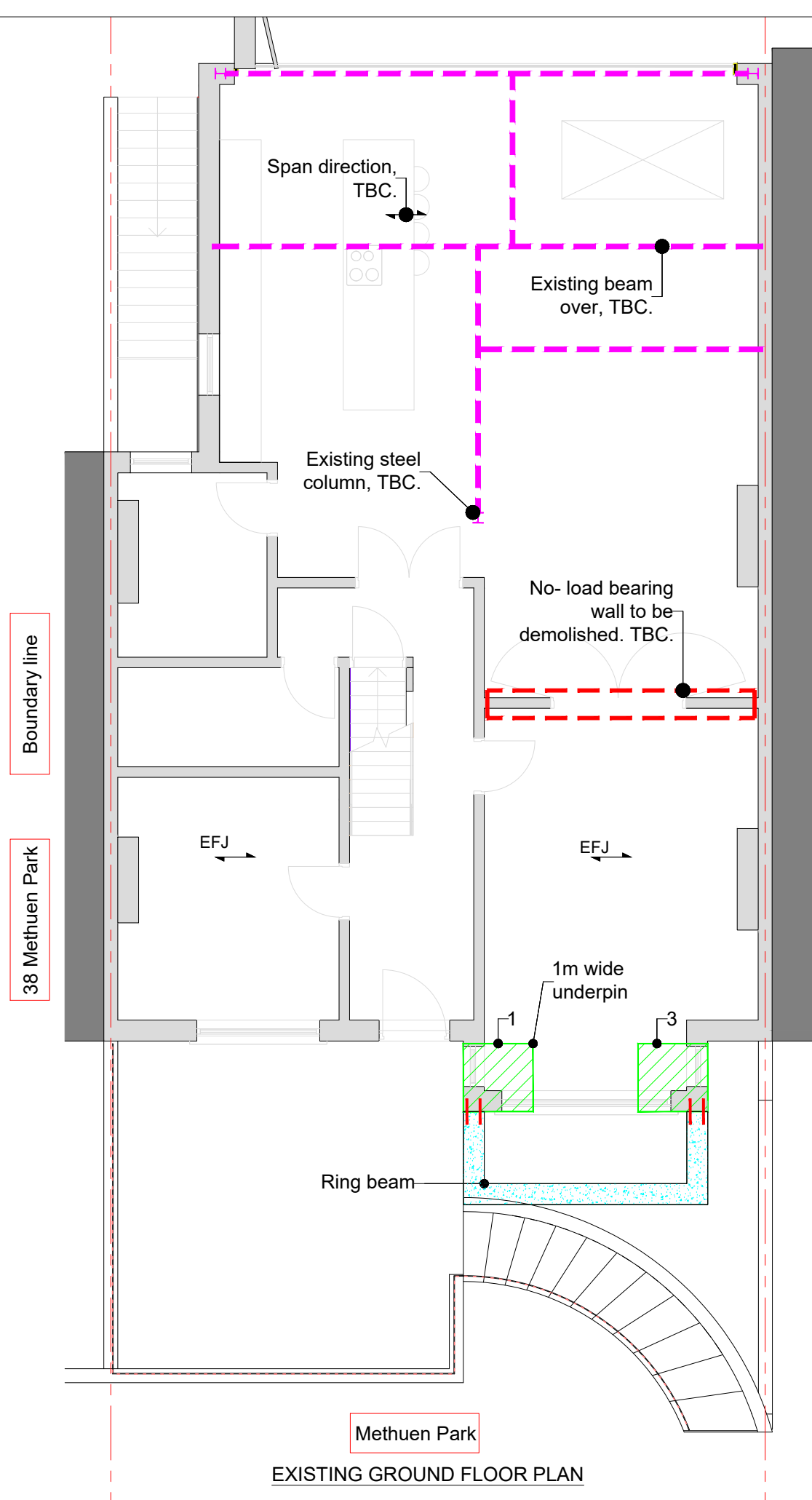
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OVERALL SEQUENCE- SHEET 1

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GG	DG	24.08.2021	A3	NTS

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TW/01	T1

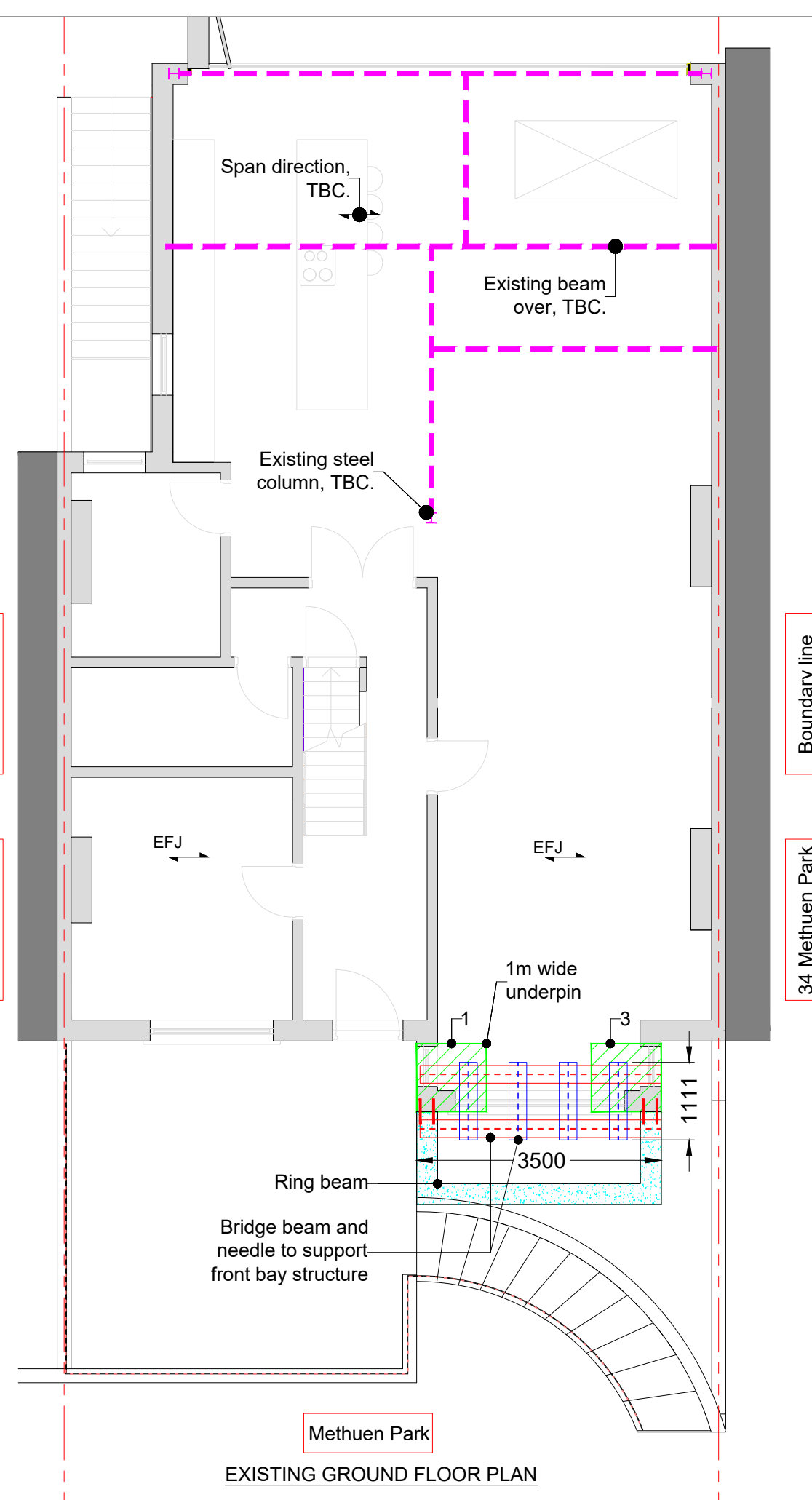


- Stage 1**
1. Demolish the non-load bearing wall. TBC.
 2. Locally remove GF structure, dig, underpin, construct load bearing wall, back fill, compact. Work to be done in hit and miss sequence. Max excavation width is to be 1m. Refer to drawing TD/01 for excavation support detail for underpinning.
 3. Construct ring beam on the front light well area. Ensure that the ring beam is tied to front wall and dowel bars into the soil to allow connection with the future lightwell retaining wall.

Boundary line

34 Methuen Park

- Stage 2**
1. Install temporary bridge beam and needles to support front bay structure. Ref to TW/02.1 for detail.
 2. Dry pack the gap between the needle, bridge beam and the wall above.



Boundary line

38 Methuen Park

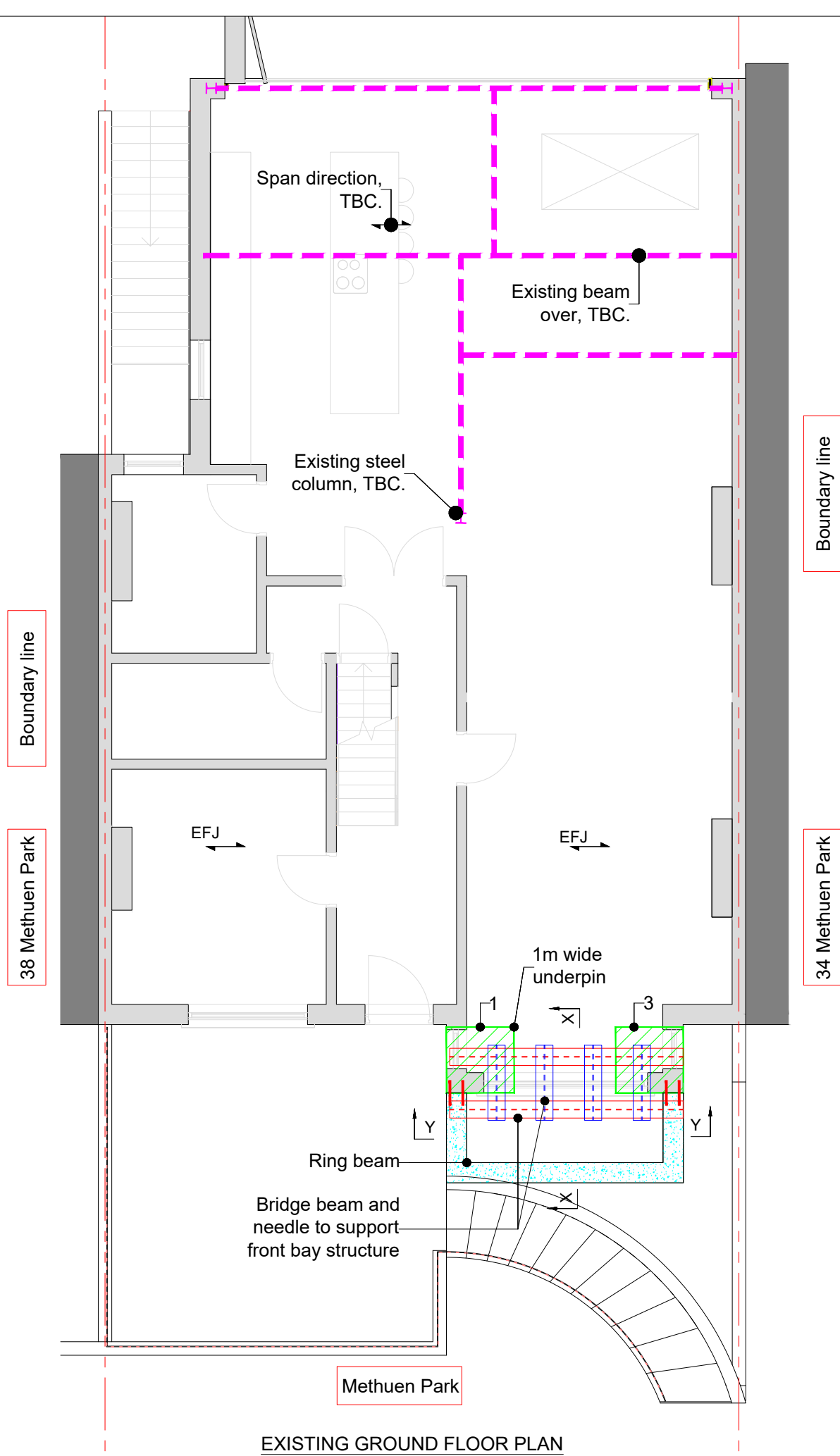
- Stage 2**
1. Install temporary bridge beam and needles to support front bay structure. Ref to TW/02.1 for detail.
 2. Dry pack the gap between the needle, bridge beam and the wall above.

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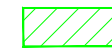
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Legend



Underpin; done as Hit and Miss sequence.



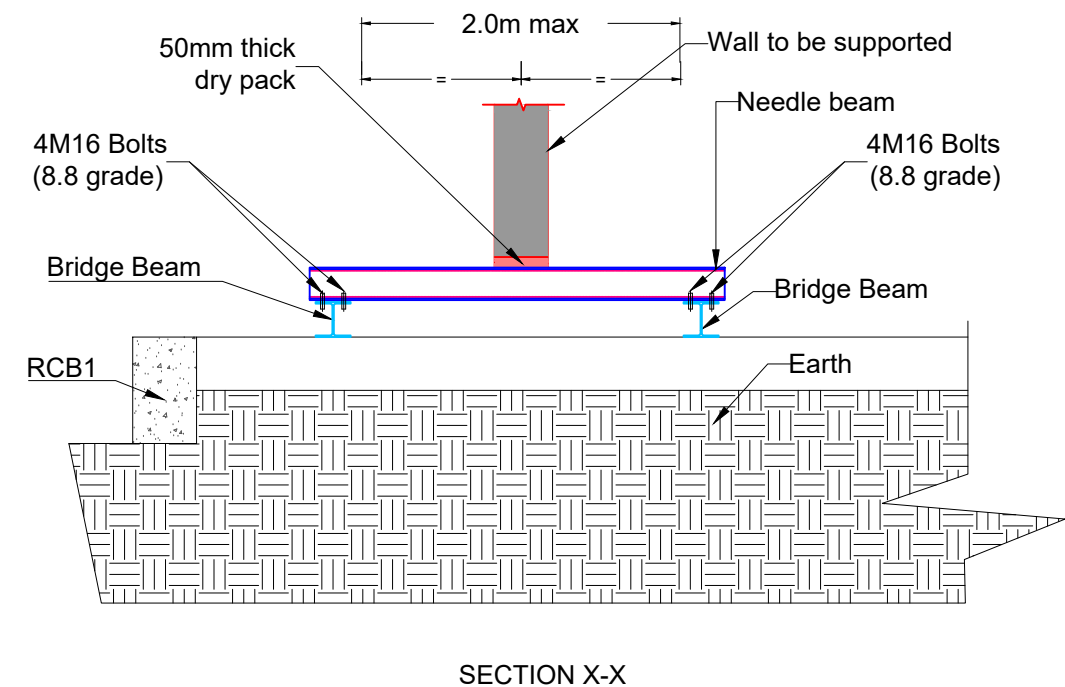
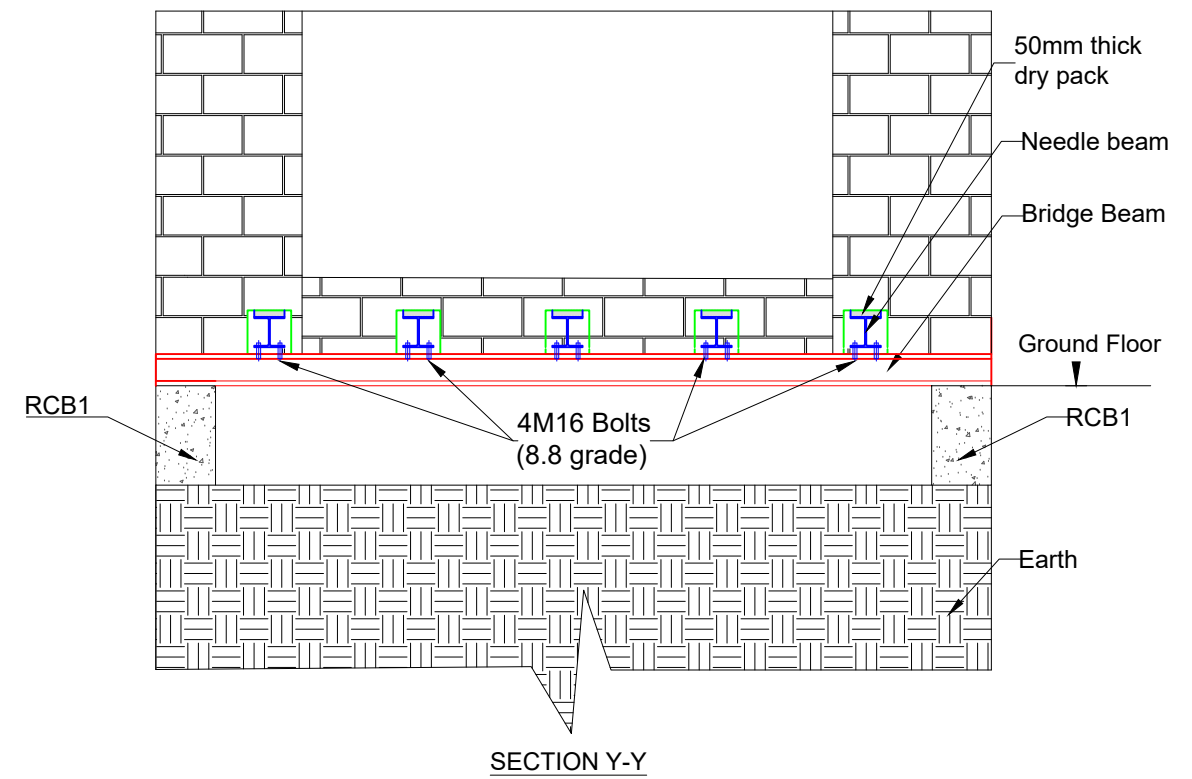
Needle beam : 152x152x23 (S275) UC at Ground Floor level.



RCB1- Ring Beam: refer to structural drawings.



Bridge Beam : 203x203x60 UC (S275) at Ground Floor level.



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OPENING SUPPORT WITH SECTION X-X & Y-Y

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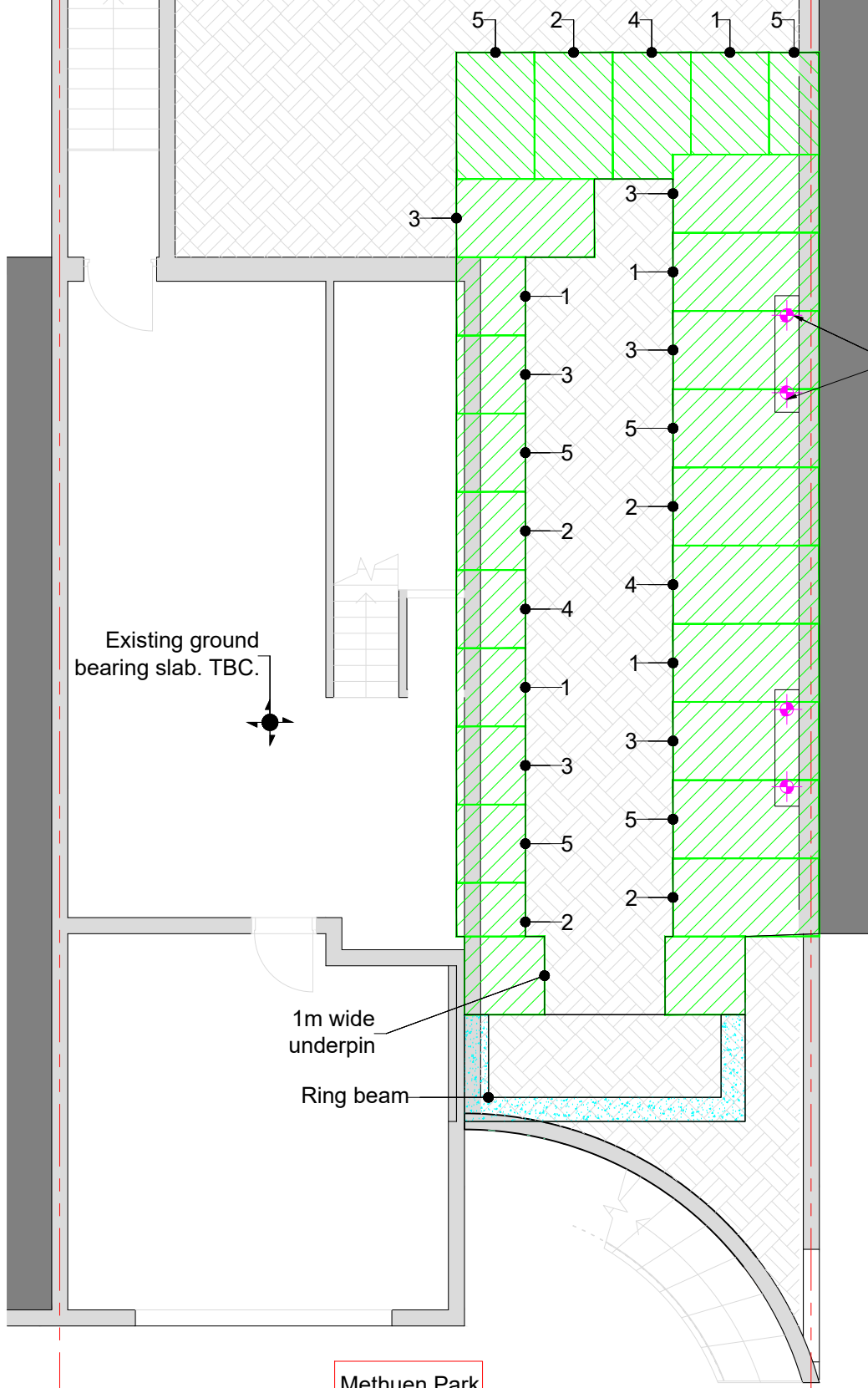
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TW/02.1

REV.
T1

Boundary line

38 Methuen Park



EXISTING LOWER GROUND FLOOR PLAN

- Stage 3**
1. Dig to general dig level of 500mm below GF.
 2. Underpin in hit and miss sequence as indicated. Excavation needs to be supported on all side at all time. Refer to drawing TD/01 for excavation support detail for underpinning. Note: chimney breast to be back propped to the underpin base using acrow props.

Acrow props to support chimney breast

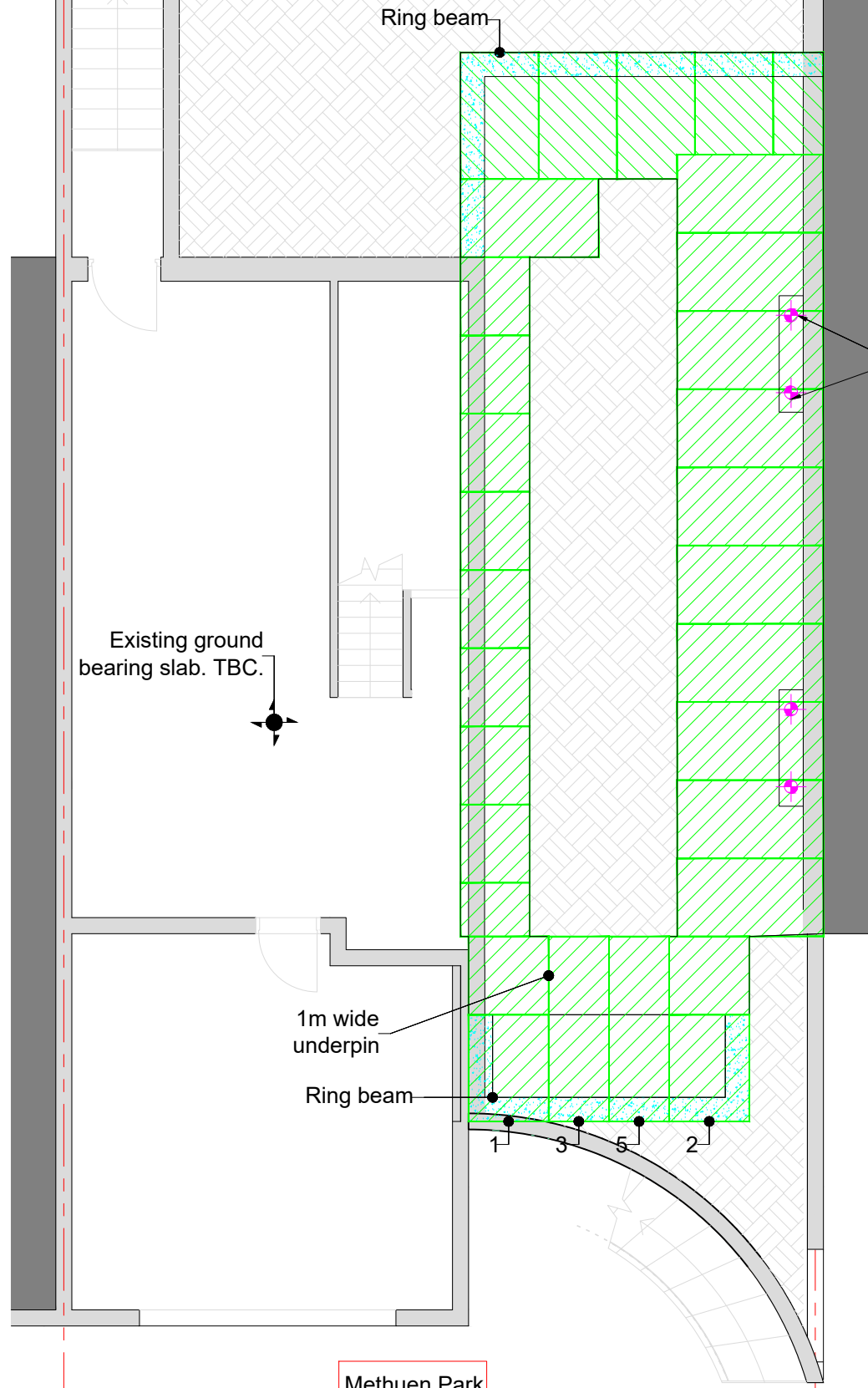
Boundary line

34 Methuen Park

- Stage 4**
1. Construct ring beam to the rear retaining wall.
 2. Underpin in hit and miss sequence as indicated. Excavation needs to be supported on all side at all time. Refer to drawing TD/01 for excavation support detail for underpinning.
 3. At this stage all the retaining wall are constructed.

Boundary line

38 Methuen Park



EXISTING LOWER GROUND FLOOR PLAN

Boundary line

34 Methuen Park

Acrow props to support chimney breast

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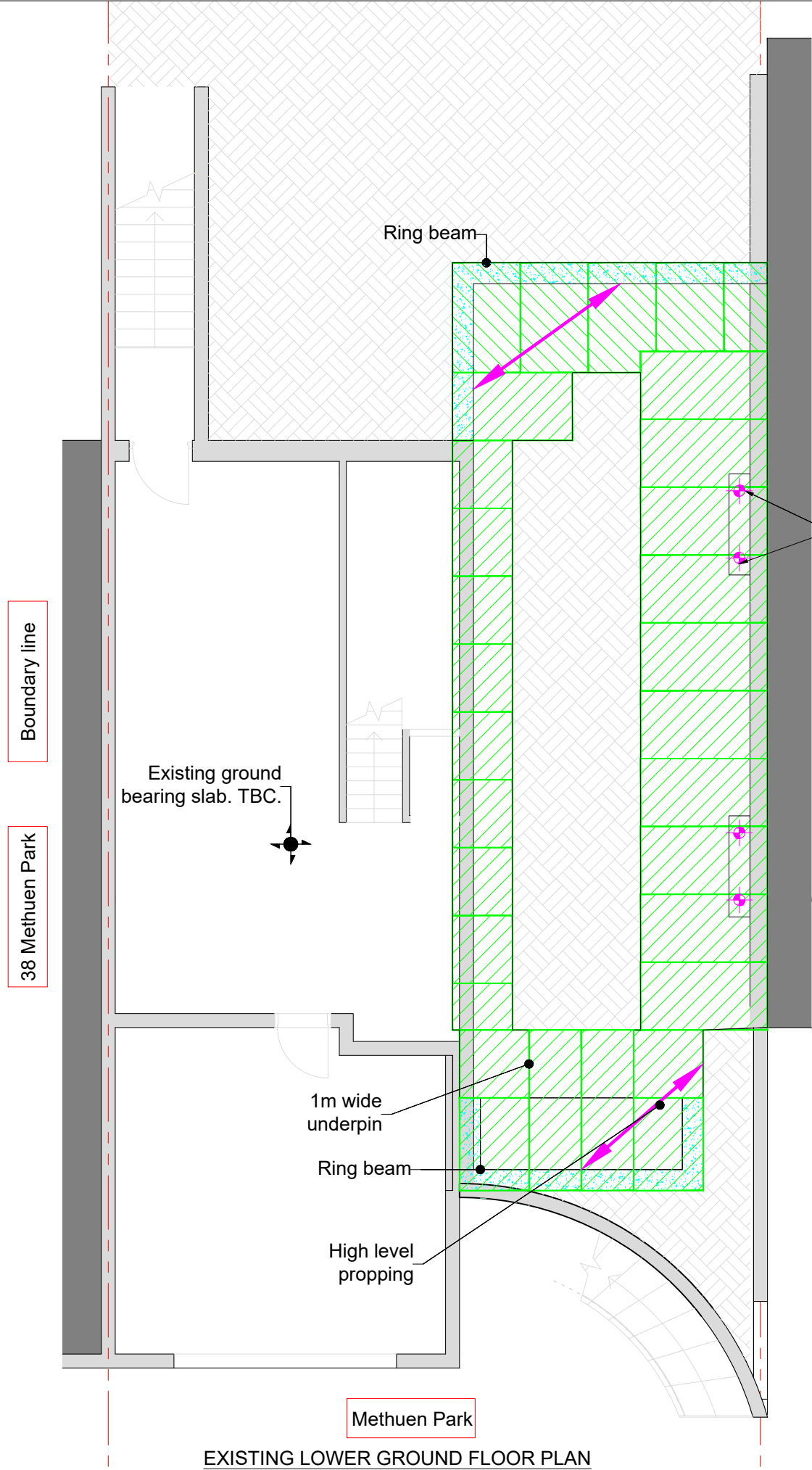
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TW/03	T1



EXISTING LOWER GROUND FLOOR PLAN

Stage 5

1. Install high level retaining wall propping. Ref to TW/04.1 for details.
2. Reduce the central berm to 500mm above underpin base SSL.

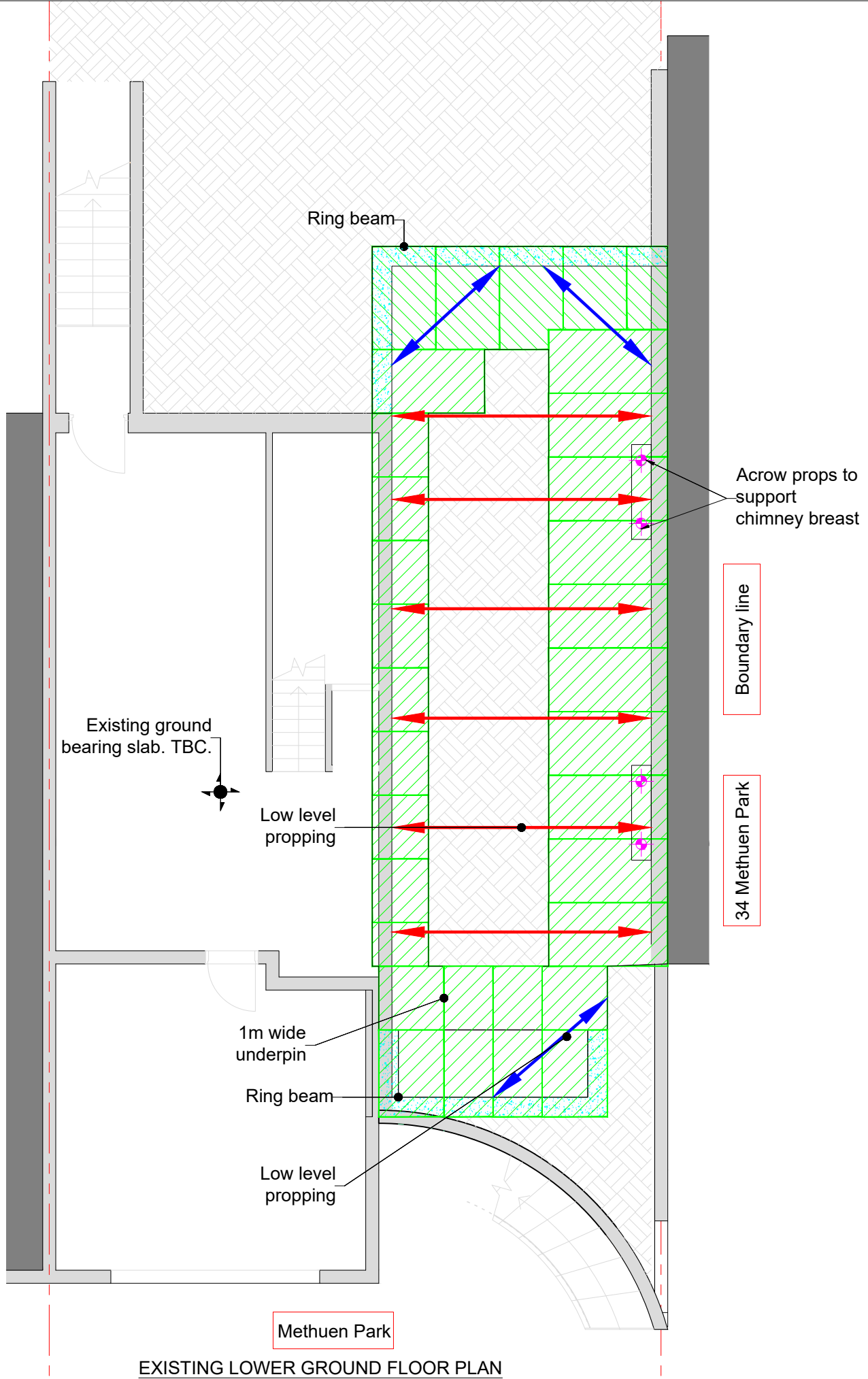
Acrow props to support chimney breast

Boundary line

34 Methuen Park

Stage 6

1. Install low level retaining wall propping.
2. Reduce the central berm to formation level.
3. Install under basement service.
4. Construct the basement slab.
5. Remove low level propping.



EXISTING LOWER GROUND FLOOR PLAN

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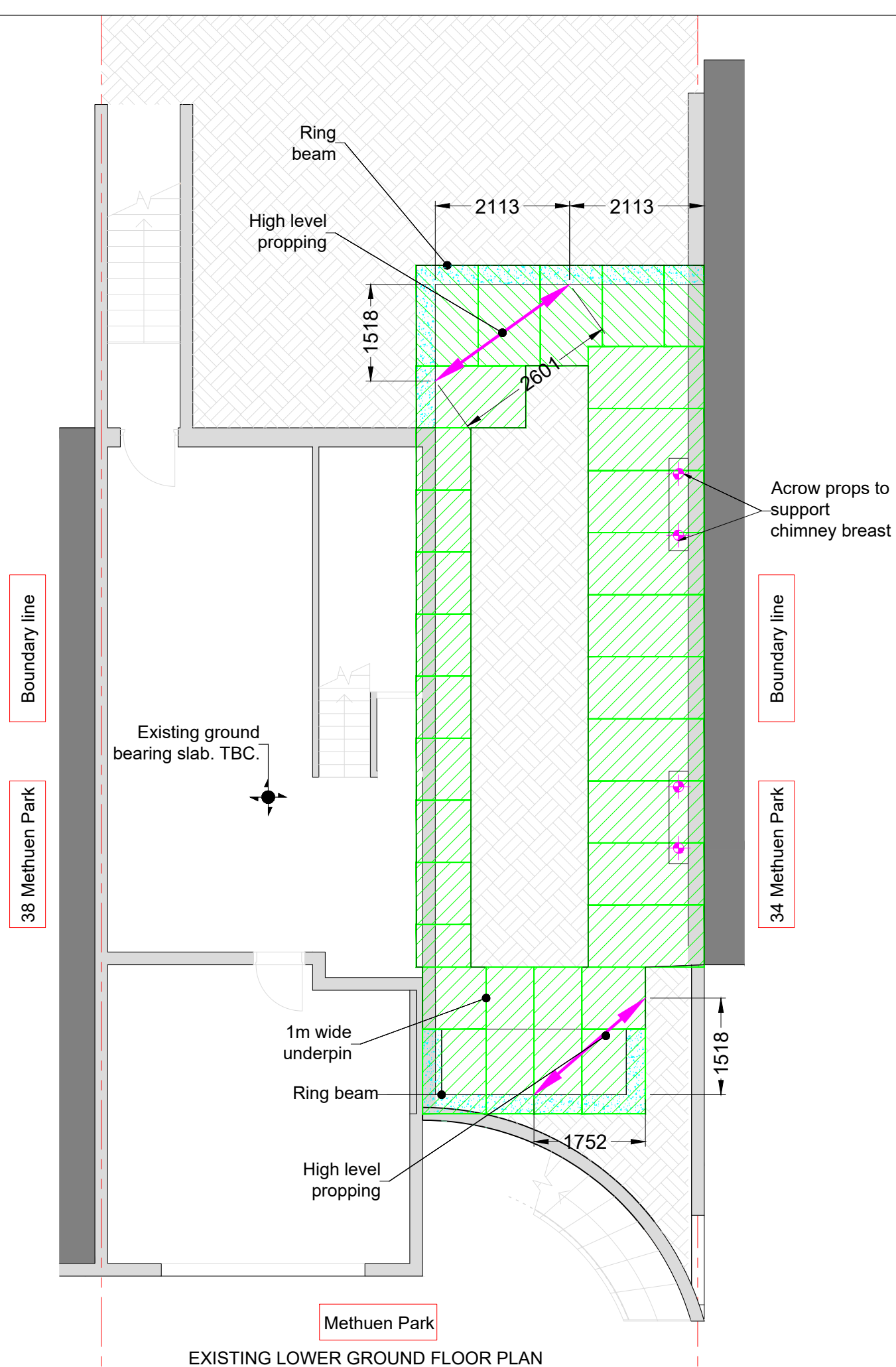
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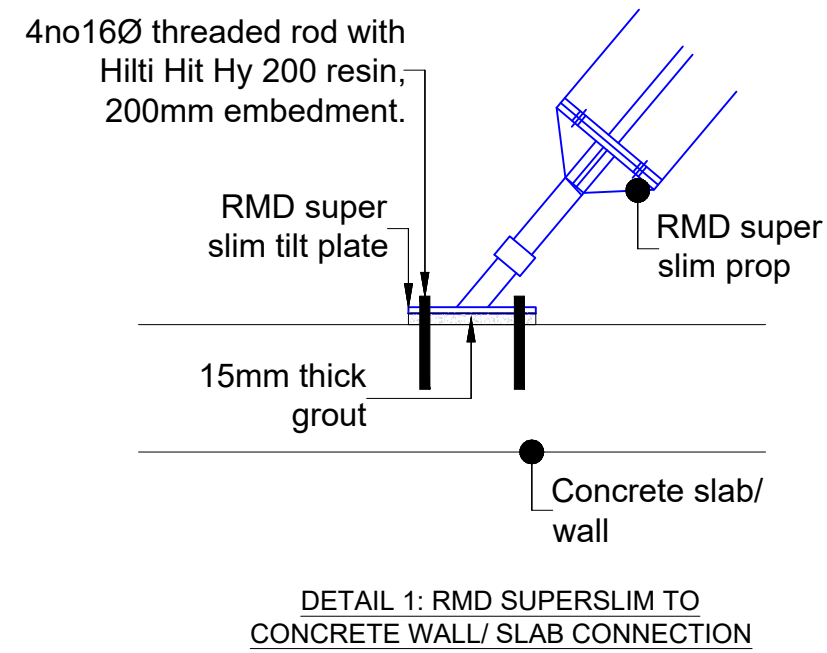
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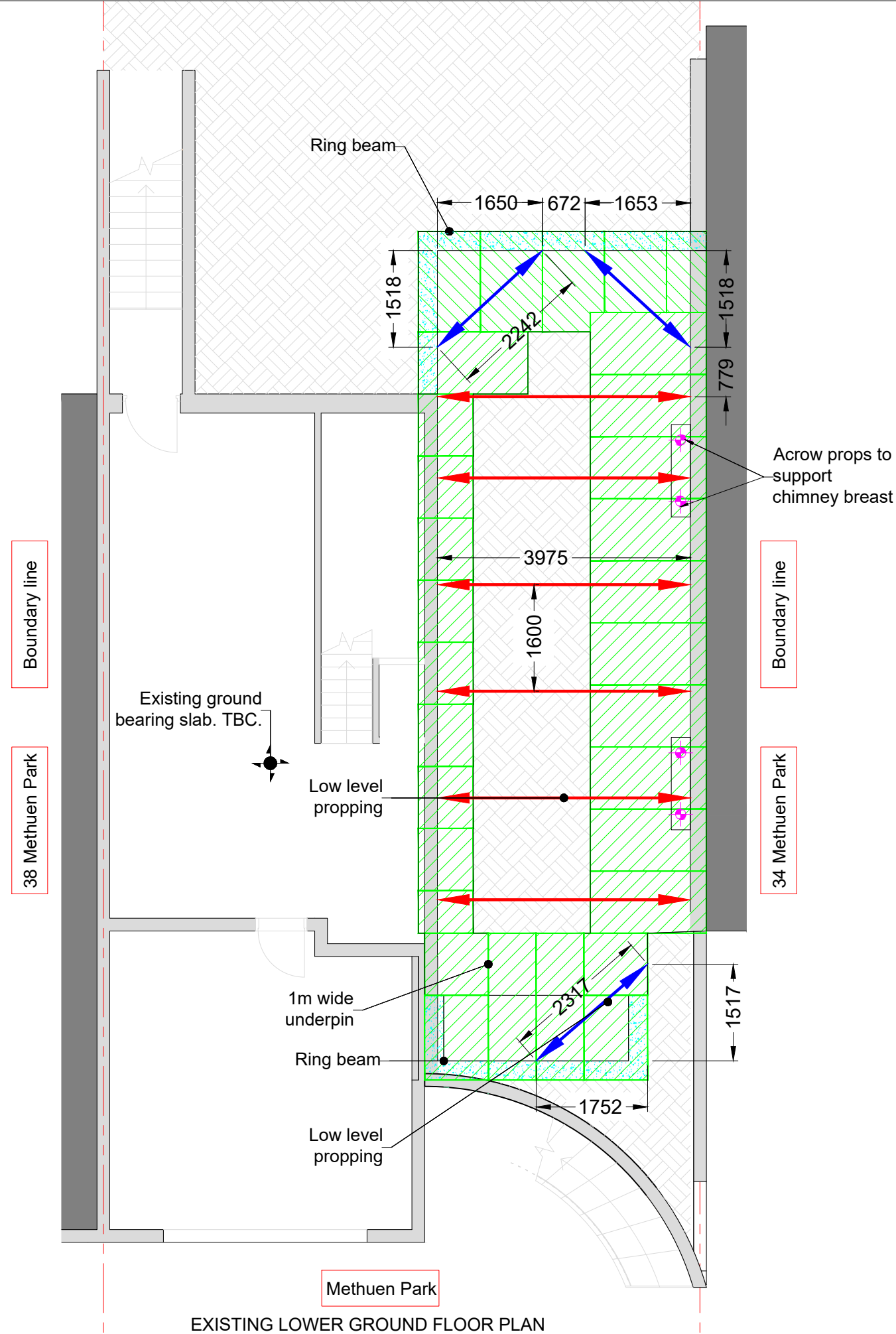
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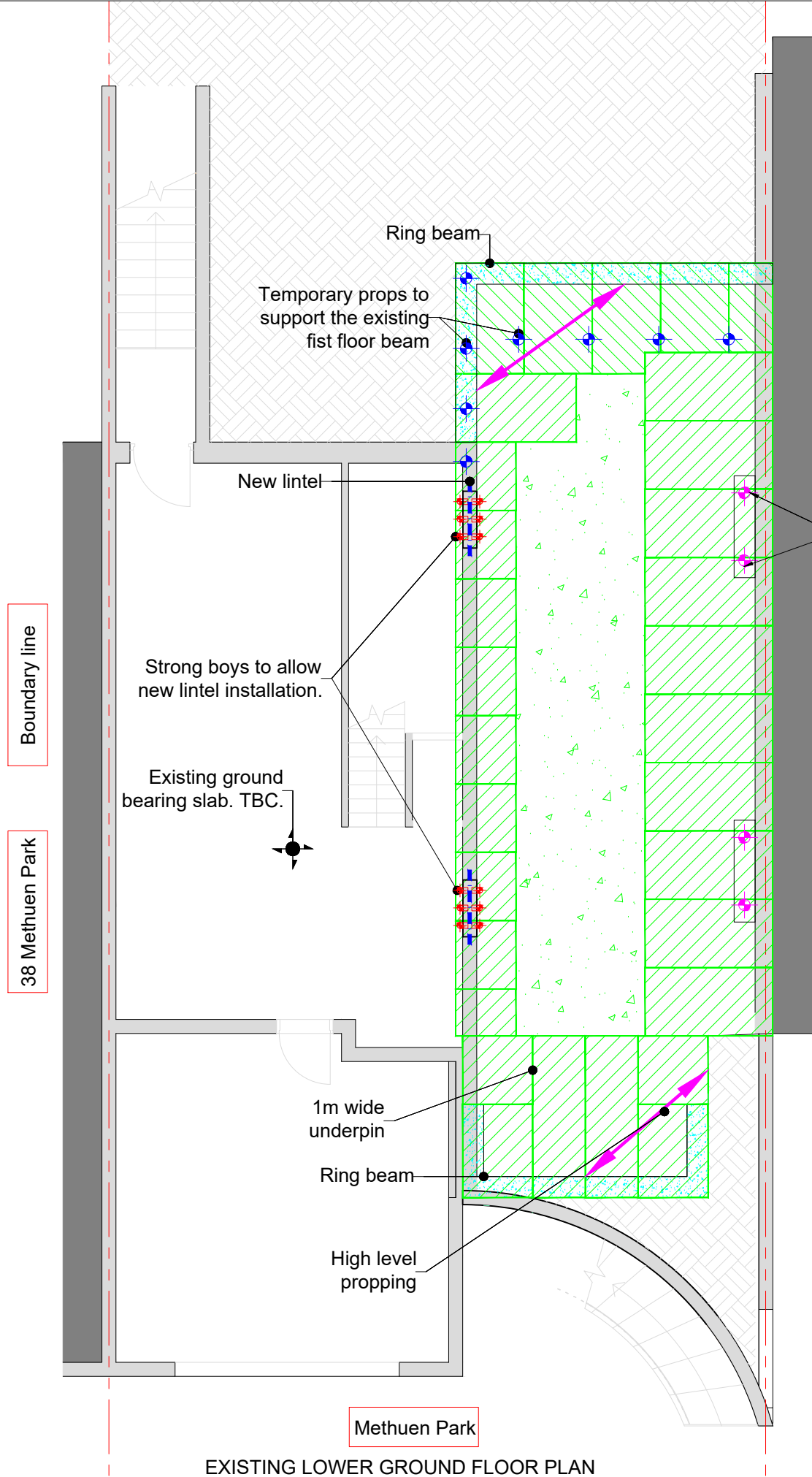
- Legend**
- One of RMD superslim horizontal prop at each location @ 500m below ground floor soffit. Prop spacing= 2.0m max.
 - Pair of RMD superslim horizontal prop at each location @ 600m above underpin SSL. Prop spacing= 1.8m max.
 - Pair of RMD superslim horizontal prop at each location @ 600m above underpin SSL. Prop spacing= 1.6m max.
 - Acrow Props under Chimney Breast
 - Underpin; done as Hit and Miss sequence.





- Legend**
- One of RMD superslim horizontal prop at each location @ 500m below ground floor soffit. Prop spacing= 2.0m max.
 - Pair of RMD superslim horizontal prop at each location @ 600m above underpin SSL. Prop spacing= 1.8m max.
 - Pair of RMD superslim horizontal prop at each location @ 600m above underpin SSL. Prop spacing= 1.6m max.
 - Acrow Props under Chimney Breast
 - Underpin; done as Hit and Miss sequence.

Note:
Ref to TW/04.1 for detail.

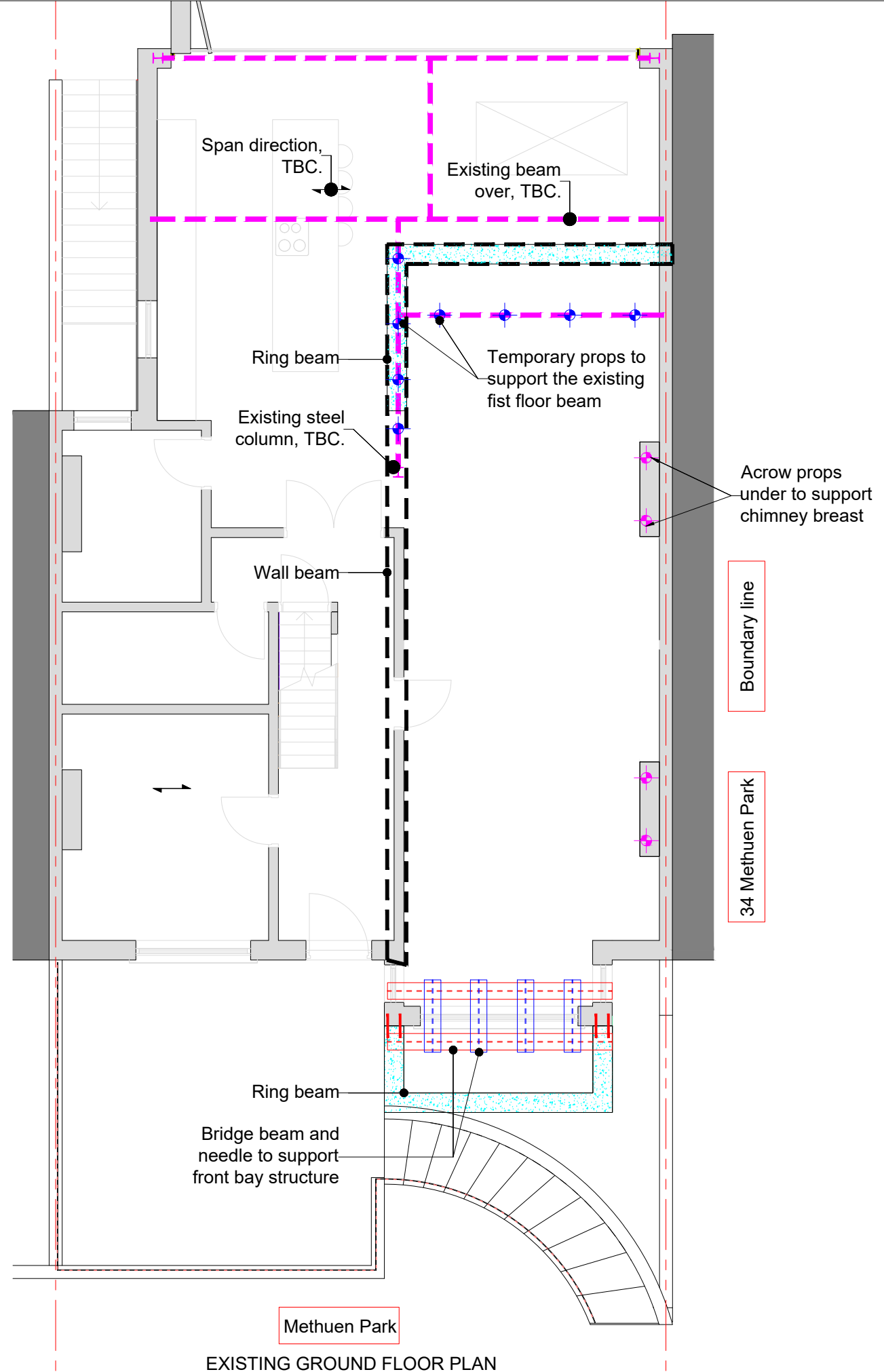


EXISTING LOWER GROUND FLOOR PLAN

Stage 7

1. Install vertical props to the underside of the existing beam at 1st floor. Prop founded on temporary pad or on top of retaining wall at ground floor or on to new basement slab at lower ground floor. Ref detail TW/05.2.
2. Install strong boys to form the new door opening. Ref detail TW/05.1
3. Demolish the existing RC wall below.
4. Install new lintel and dry pack any gap between the new lintel and the wall above.
5. Remove strong boys.
6. Remove vertical props to the 1st floor steel.

Acrow props to support chimney breast



EXISTING GROUND FLOOR PLAN

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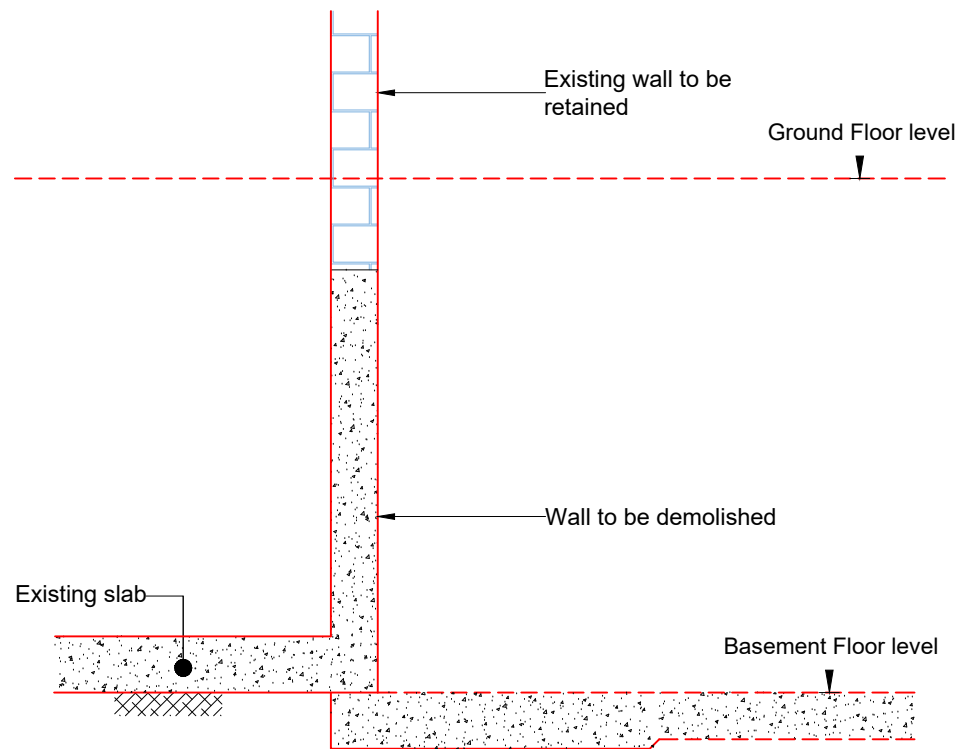
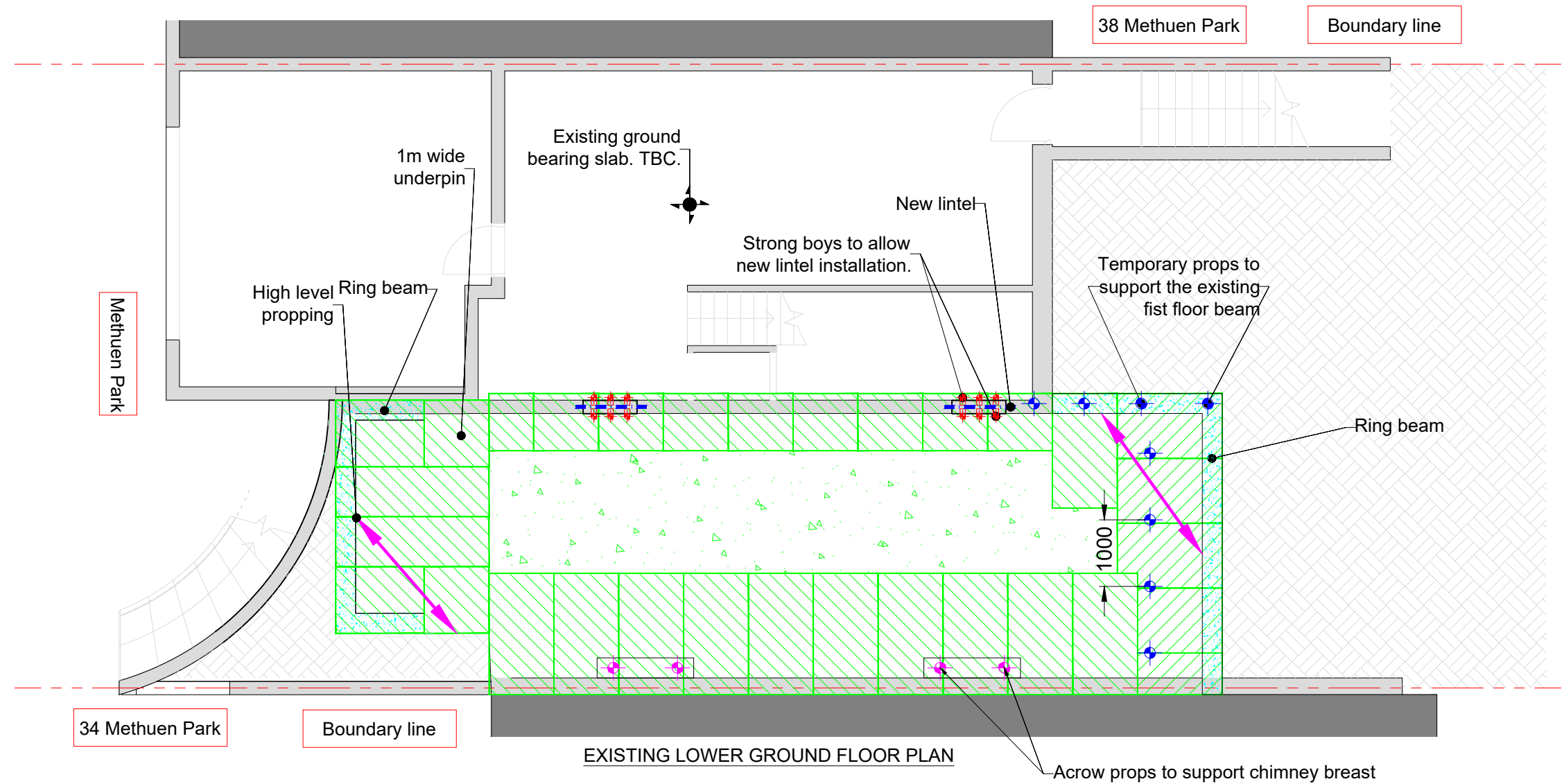
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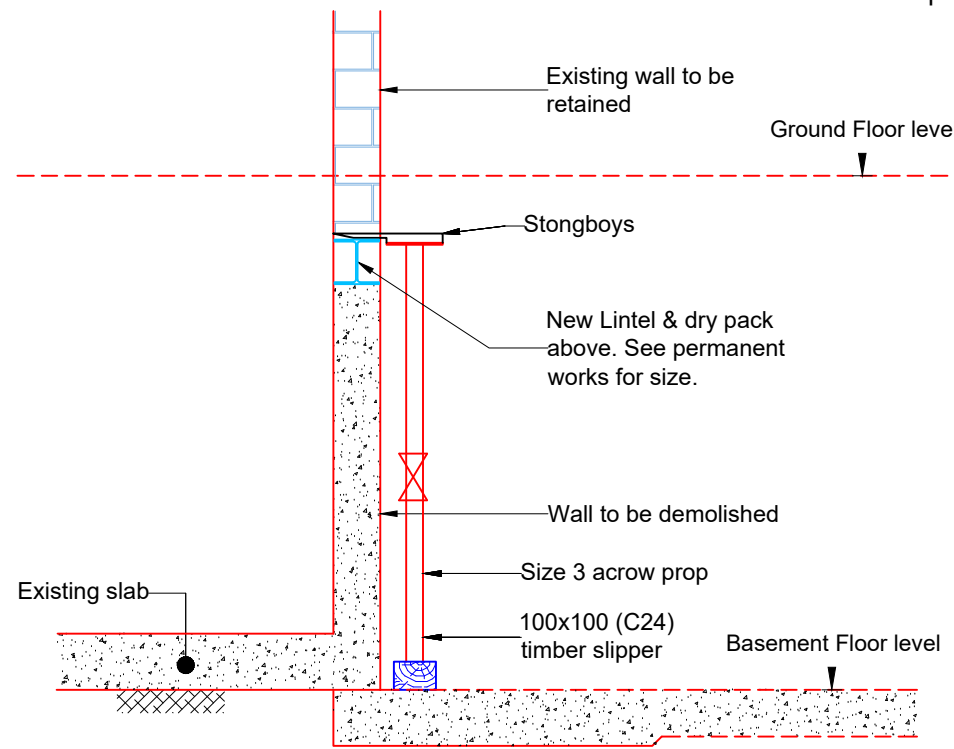
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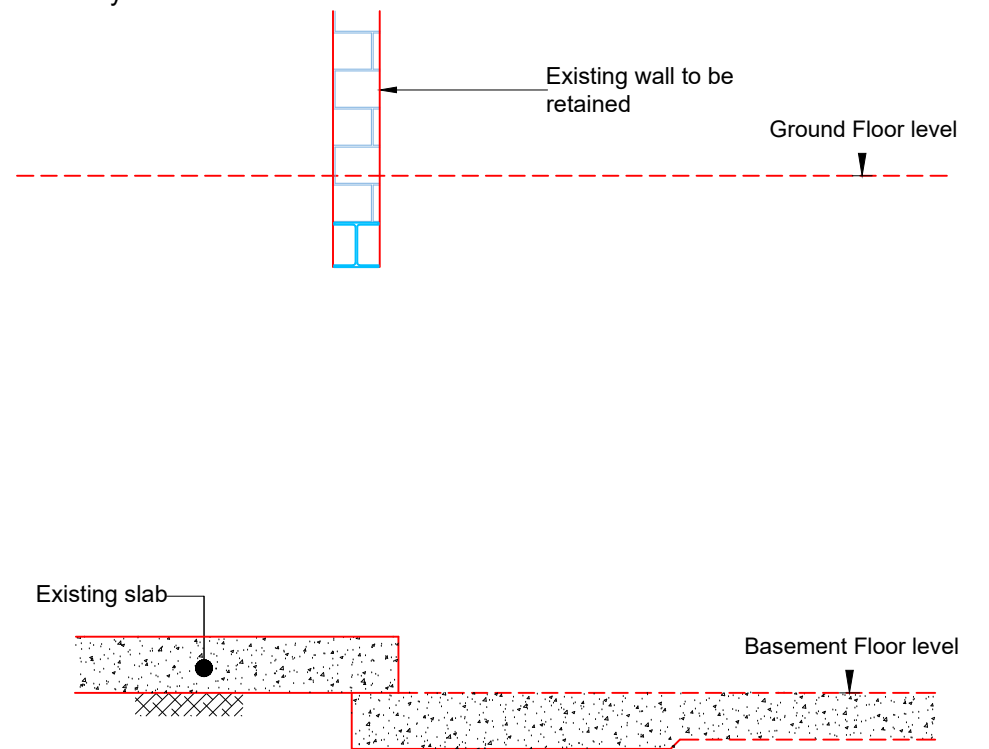
OVERALL SEQUENCE- SHEET 5					TENDER	
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GG	DG	24.08.2021	A3	NTS	TW/05	T1



Stage 0
1. Existing condition.



Stage 1
1. Install strong boys on basement side of the wall.
2. Install permanent lintel beam.
3. Pack the gap between the lintel beam and retained wall.
4. Demolish the existing wall below the lintel



Stage 3
1. Increase existing slab to provide a step down to basement floor level.
2. Door opening complete.

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STRONG BOY INSTALL FOR NEW LINTEL.

DRAWN
GG

CHECKED
DG

DATE
24.08.2021

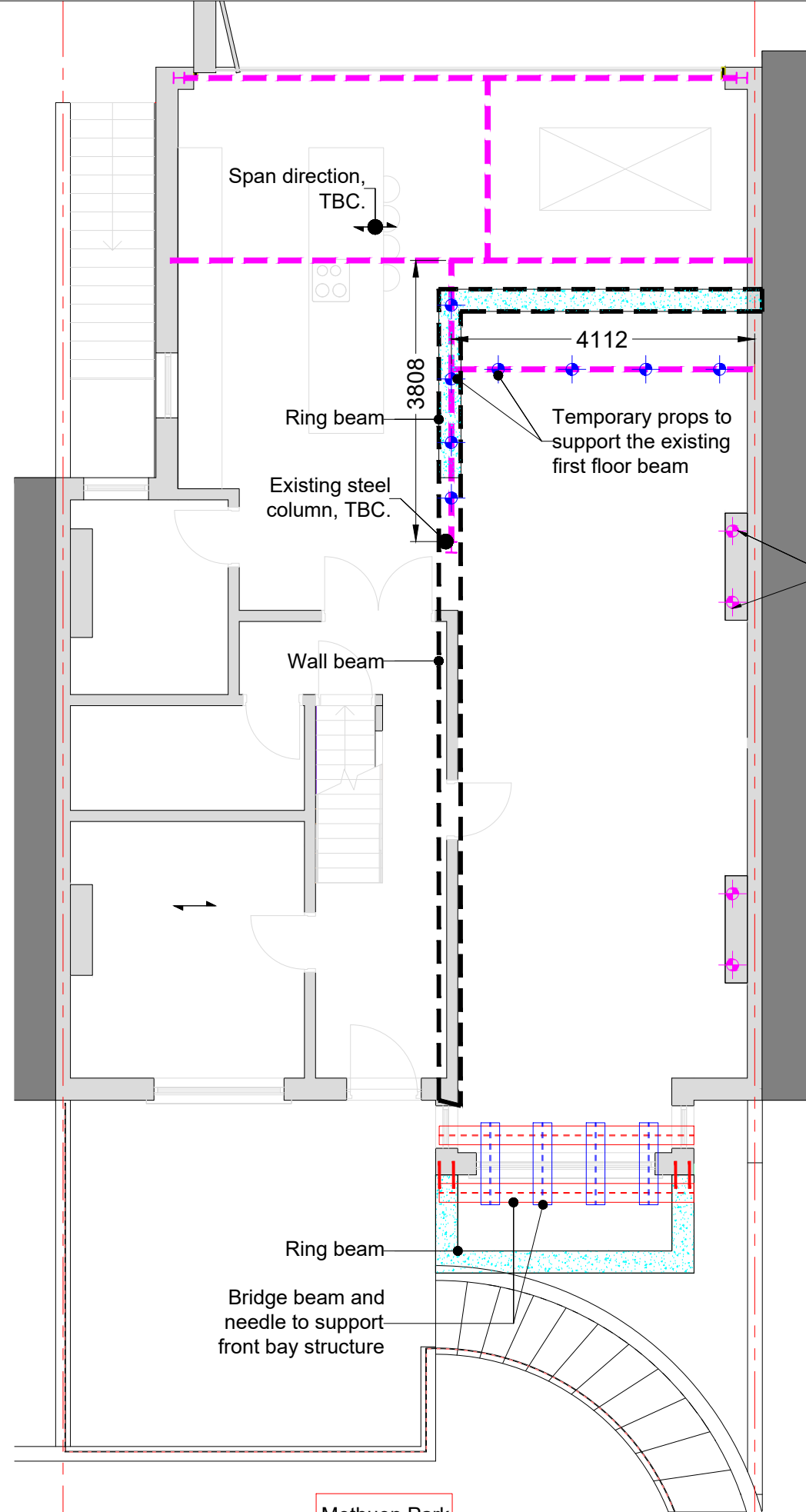
PAPER SIZE
A3

SCALE
NTS

TENDER

DRAWING NO.
TW/05.1

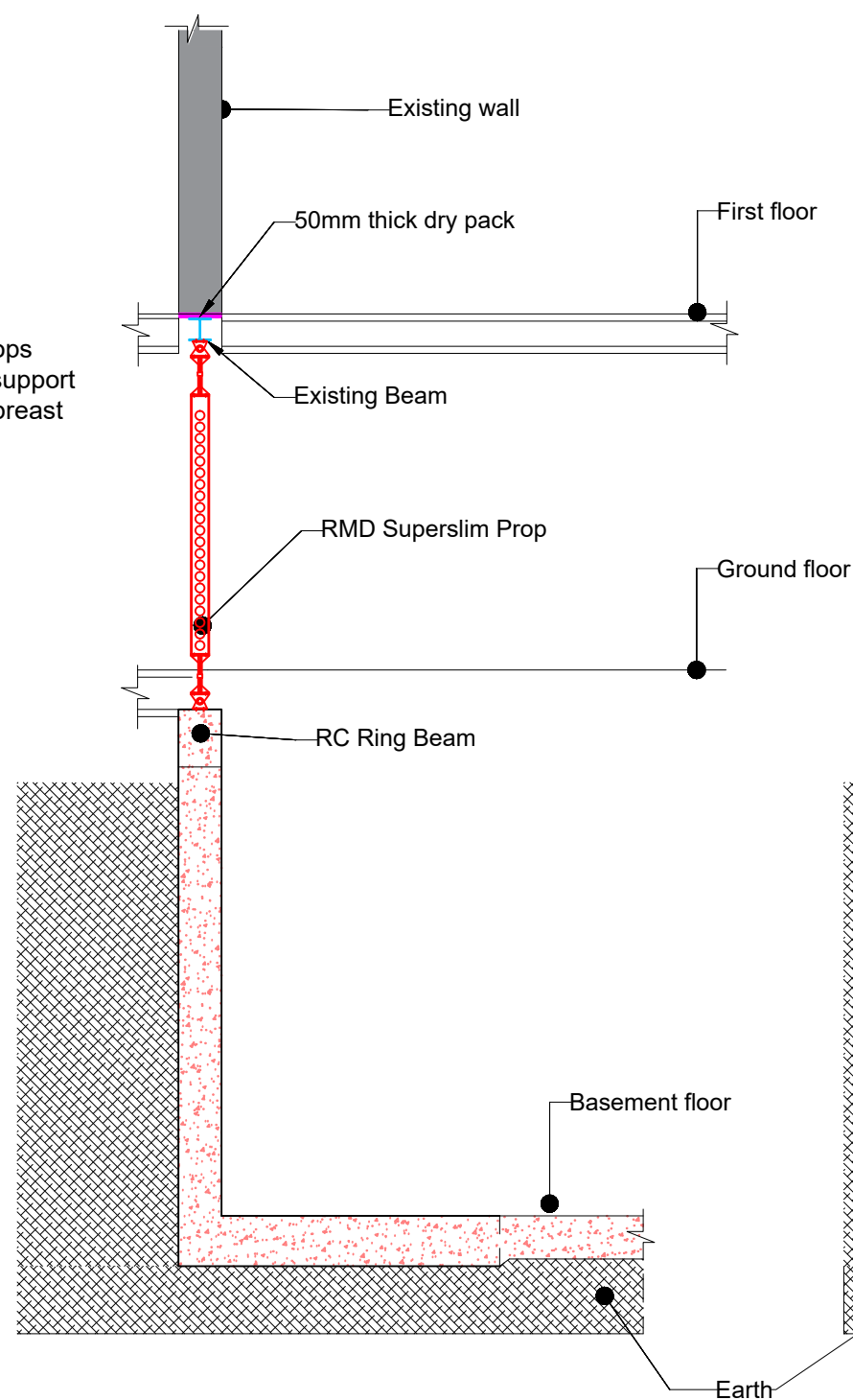
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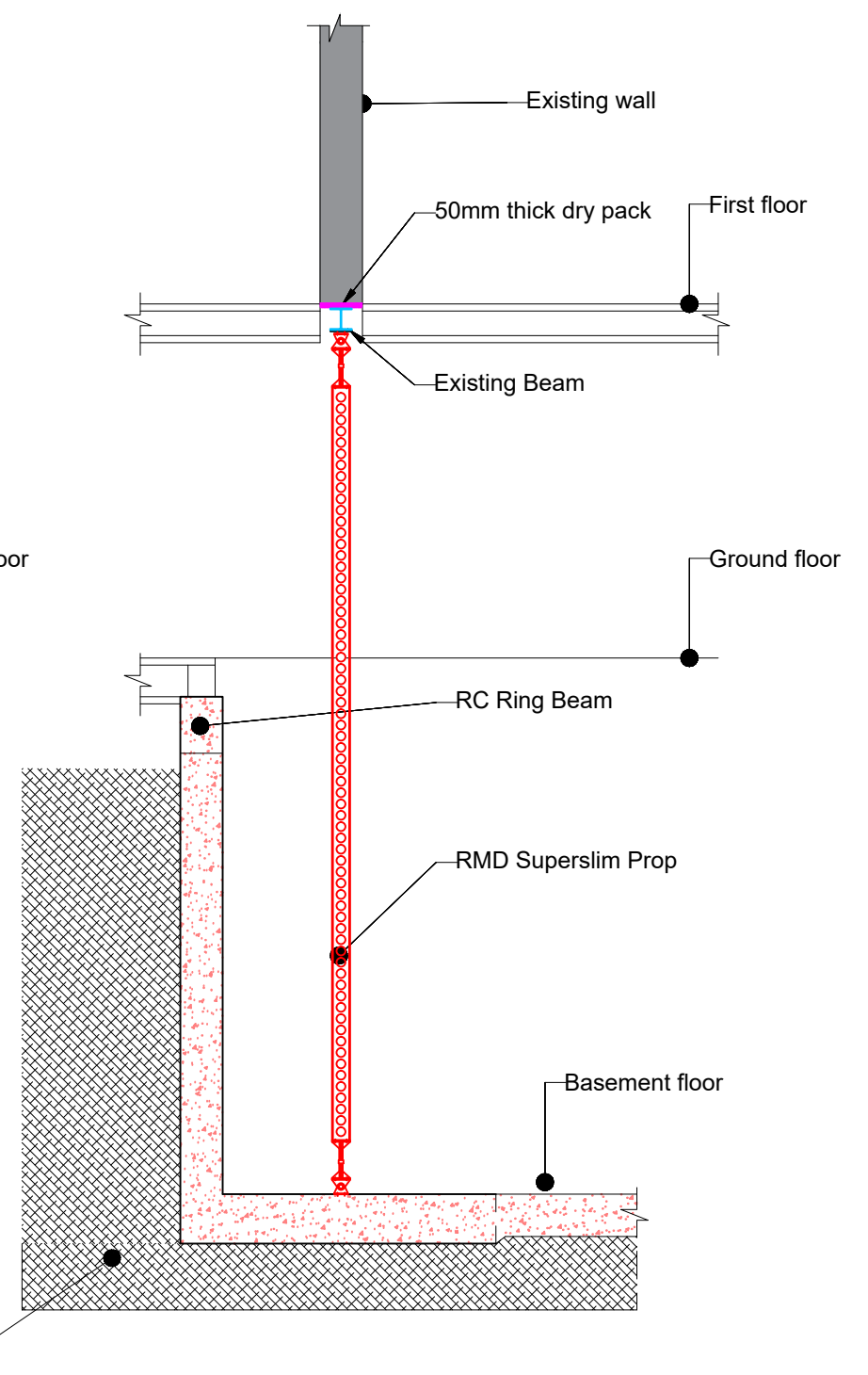
EXISTING GROUND FLOOR PLAN

Legend

- Existing Beam over - Size TBC
- Acrow Props under Chimney Breast
- Temporary Props for beam over



TYPICAL PROP ON RETAINING WALL TO STEEL BEAM AT FIRST FLOOR



TYPICAL PROP ON BASEMENT FLOOR TO BEAM AT FIRST FLOOR

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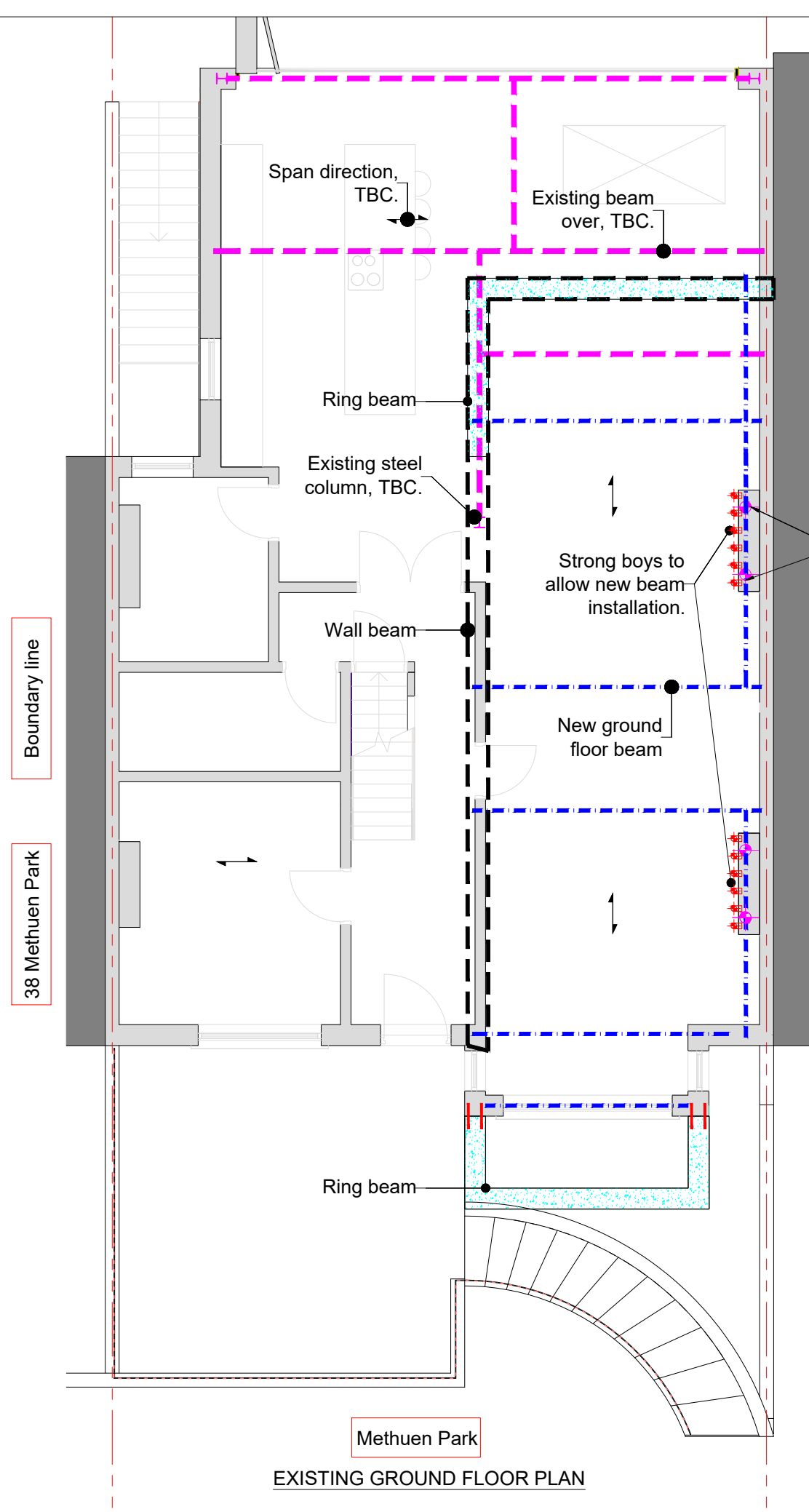
J002075- 36 METHUEN PARK

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PROPPING FOR AT FFL BEAMS					TENDER	
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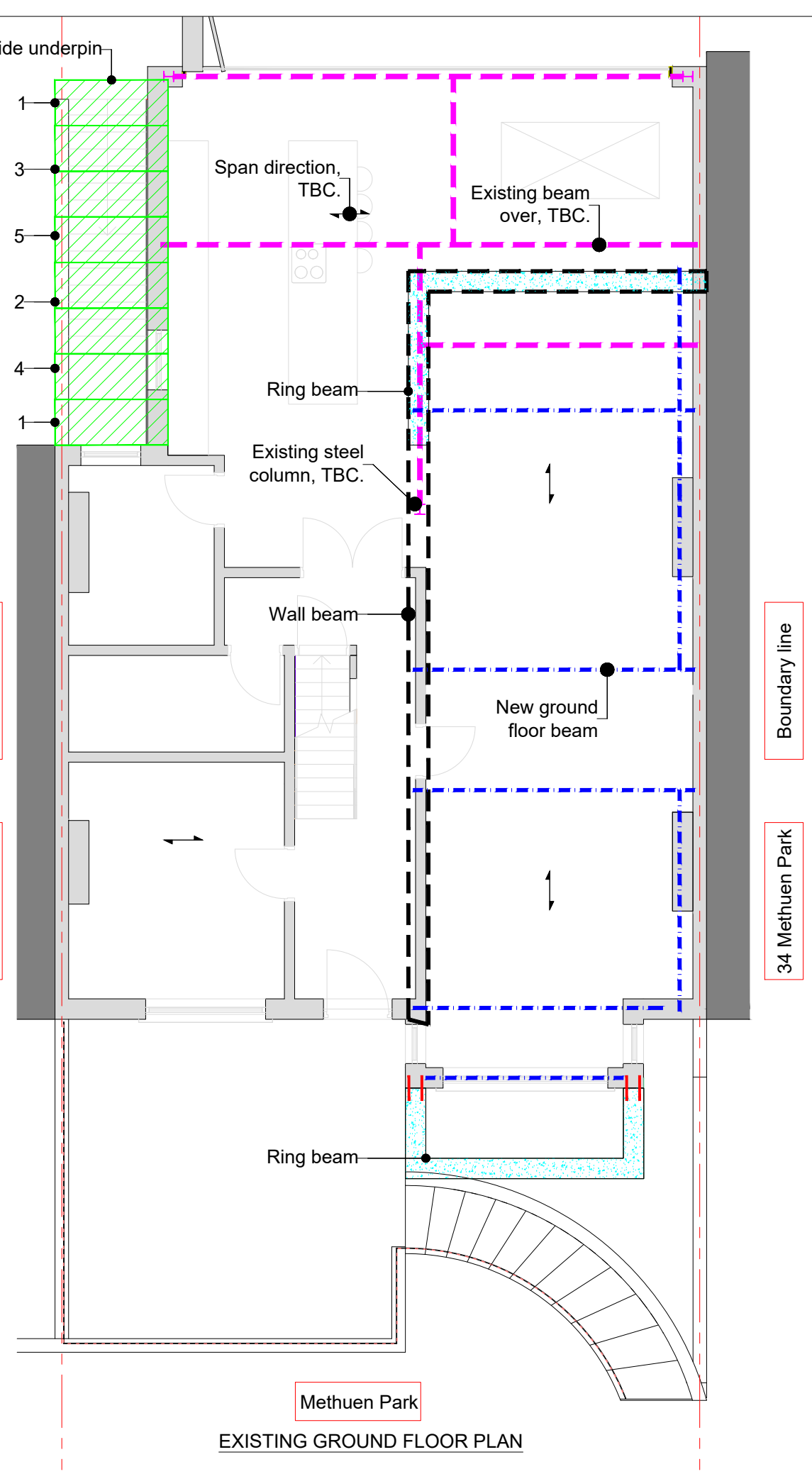


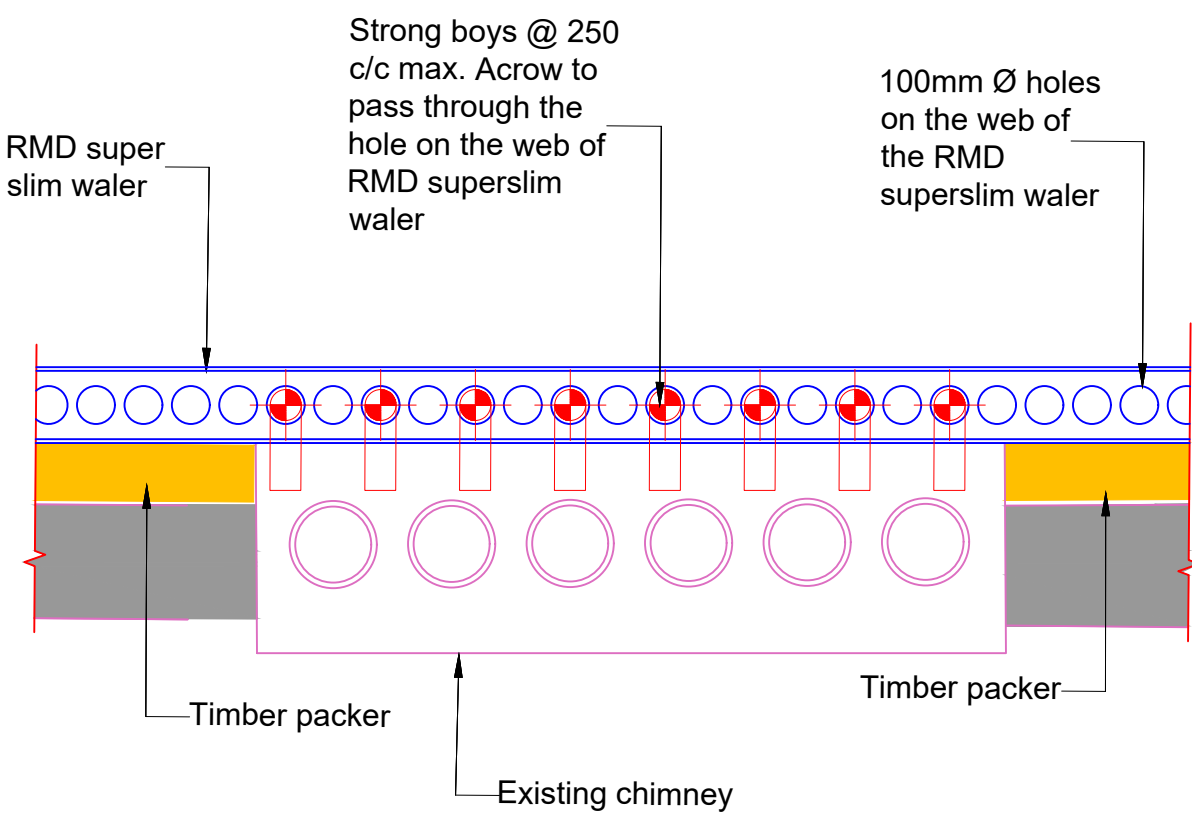
- Stage 8**
1. Install strong boys to chimney breast to install new beam at ground floor. Ref to TW/06.1
 2. Demolish the existing wall below the strong boy.
 3. Install all the beam upto ground floor.
 4. Dry pack any gap between the new beam and the wall above.
 5. Remove strong boys.
 6. Remove temporary needle and bridge beam at the front light well area.
 7. Construct ground floor structure.
 8. Remove high level retaining propping.

Acrow props under to support chimney breast

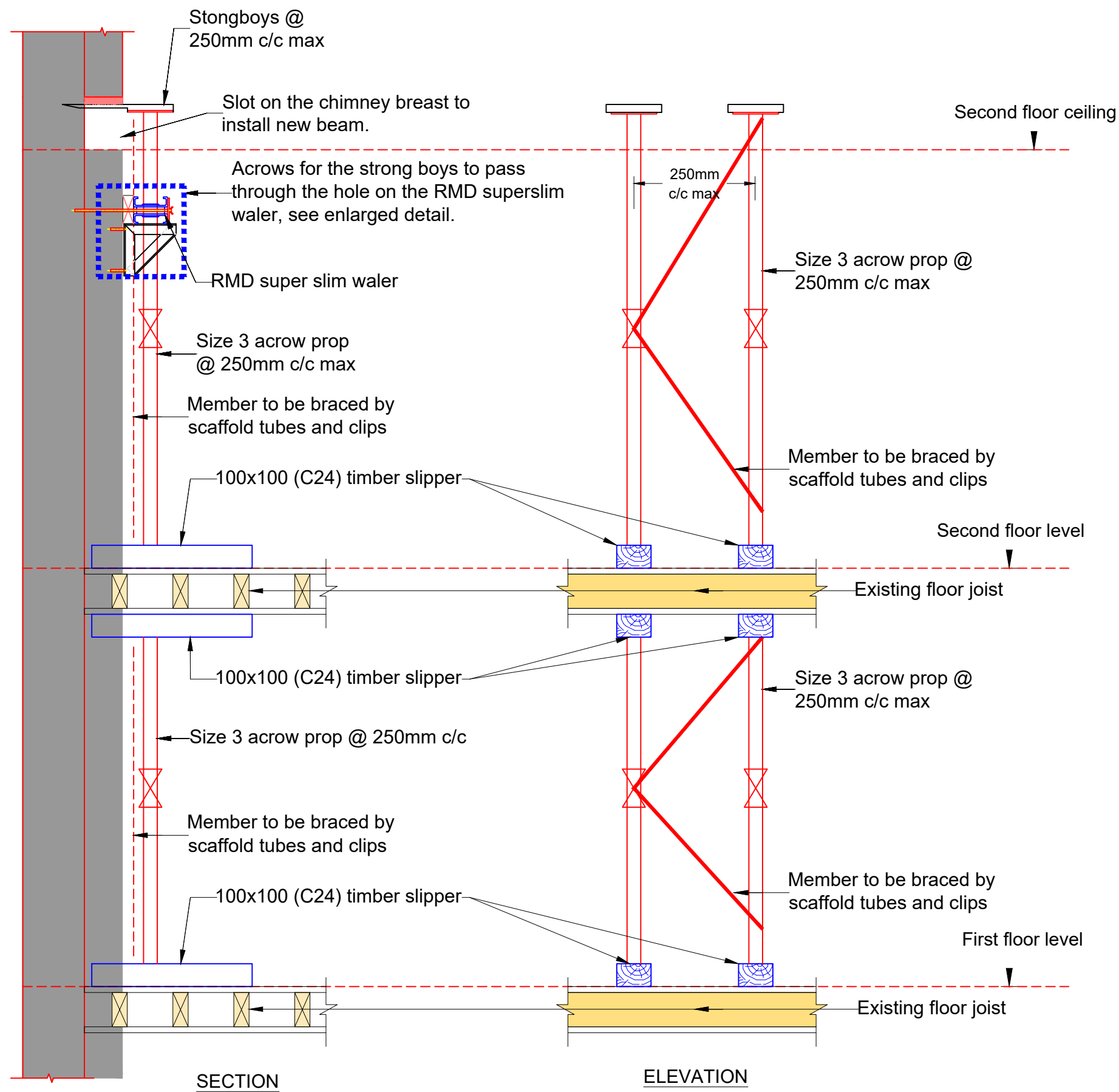
Note:
Ref to TW/06.1 for Chimney details

- Stage 9**
1. Underpin in hit and miss sequence as indicated to from the stairs at the rear. Excavation needs to be supported on all side at all time. Refer to drawing TD/01 for excavation support detail for underpinning.

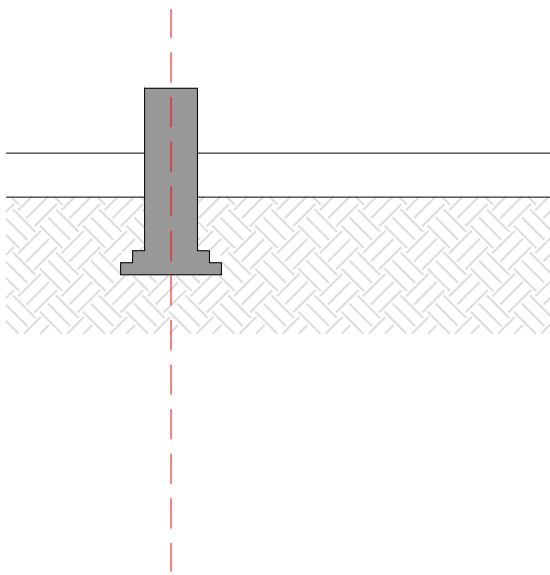




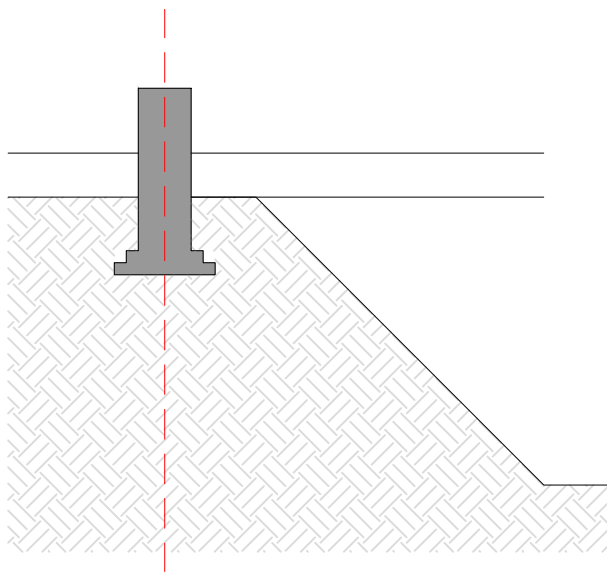
ENLARGED CHIMNEY SUPPORT DETAIL (PLAN)



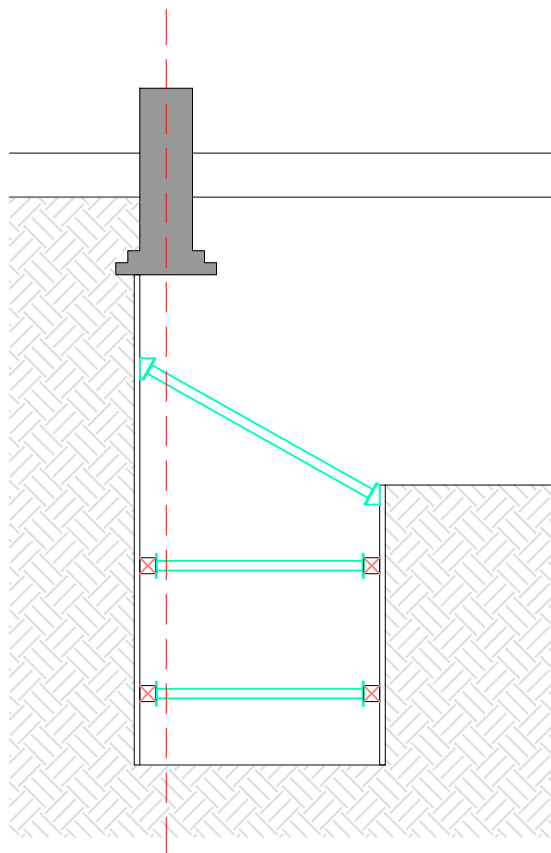
CHIMNEY BREAST TEMPORARY SUPPORT AT ROOF LEVEL



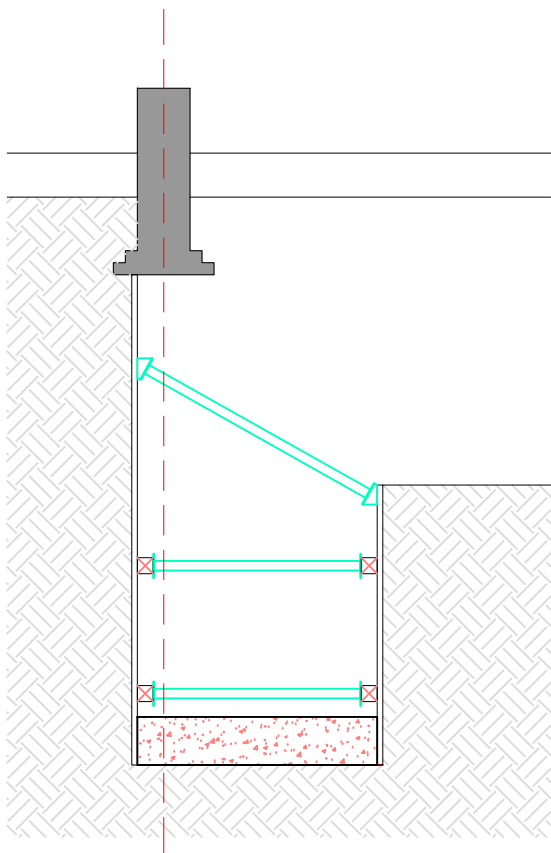
Stage 0
Existing condition



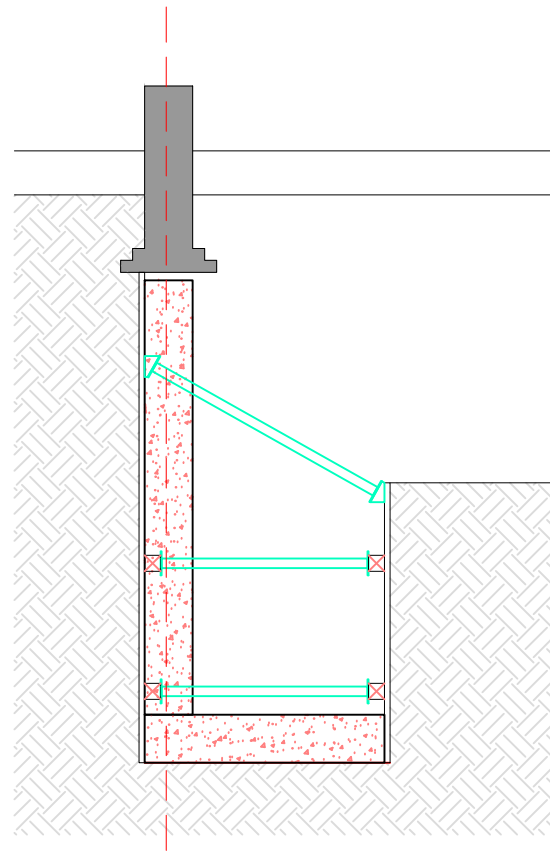
Stage 1
General level reduction
Install vertical temporary support as the dig progresses.



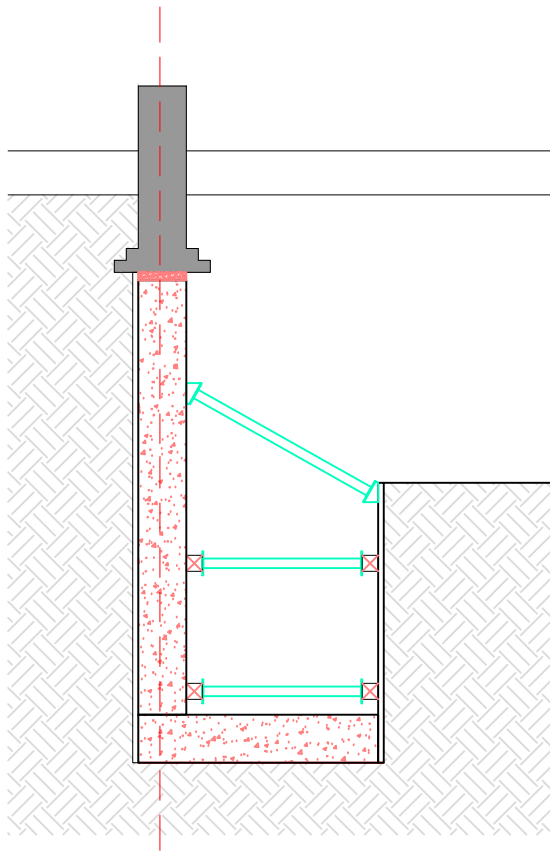
Stage 2
Excavate to form underpin



Stage 3
Concrete base of underpin

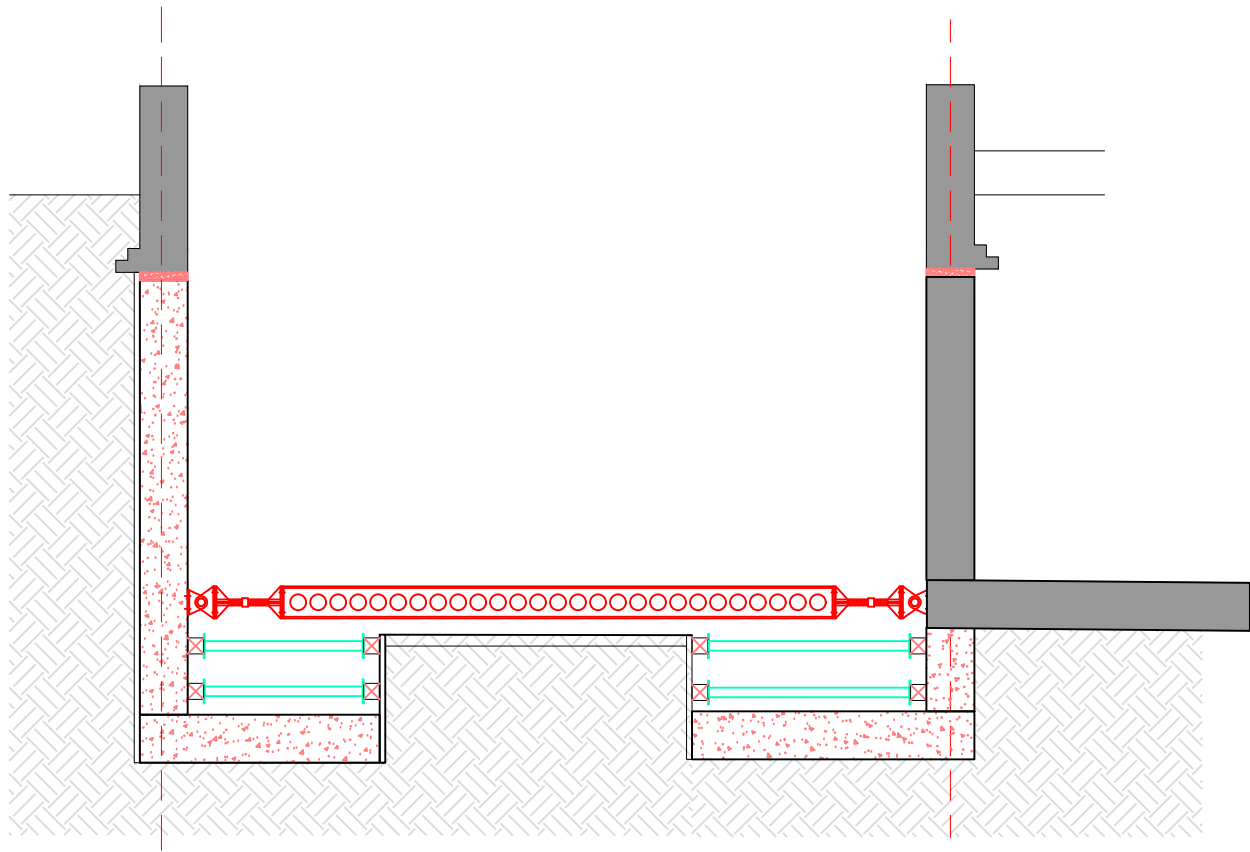


Stage 4
Erect shutter concrete stem of underpin



Stage 5
Strike shutter when concrete has gained sufficient strength, drypack, Trim- off projecting footing, re-prop until basement slab is cast.

Install top prop where ever applicable.



Stage 6
Commence excavation of central berm.
Once excavation is 500mm above formation level,
install bottom level props across the site at low level.

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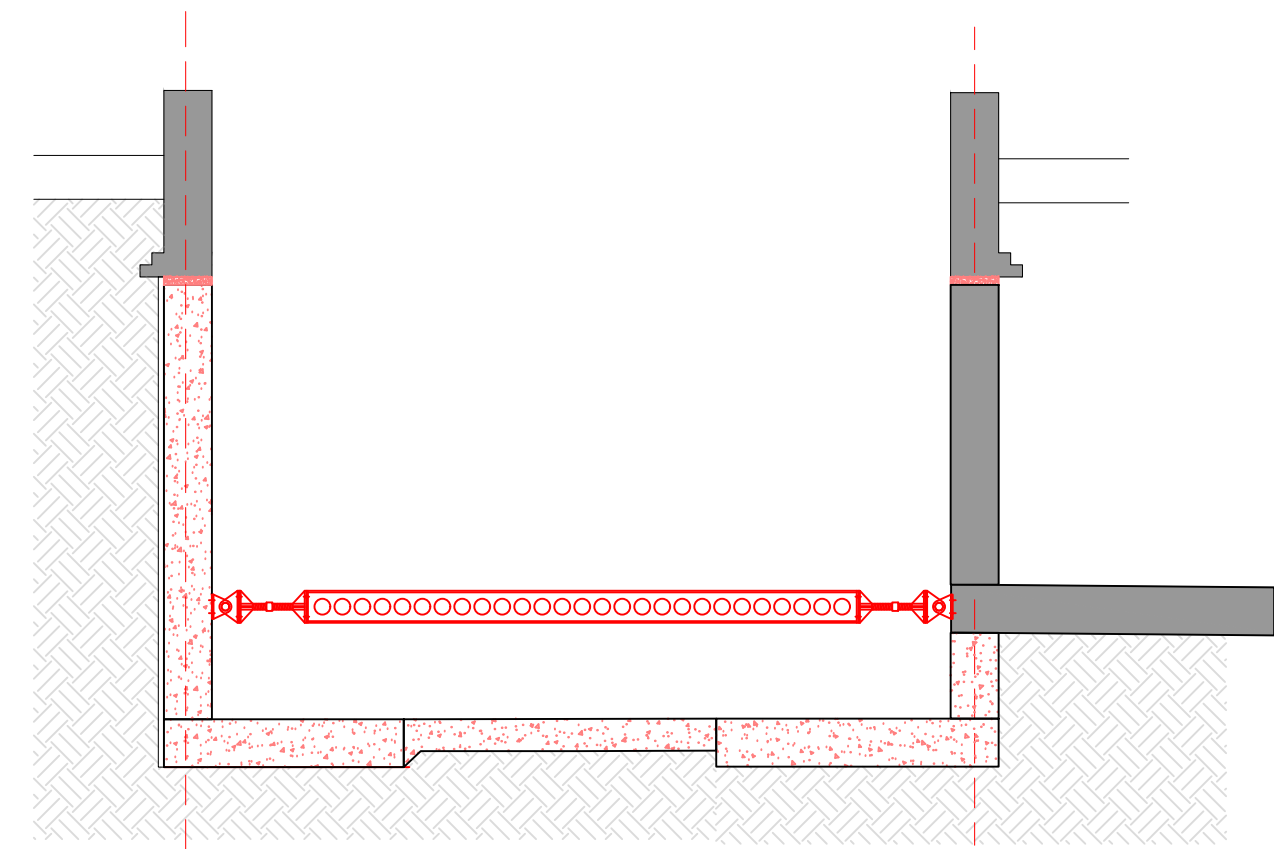
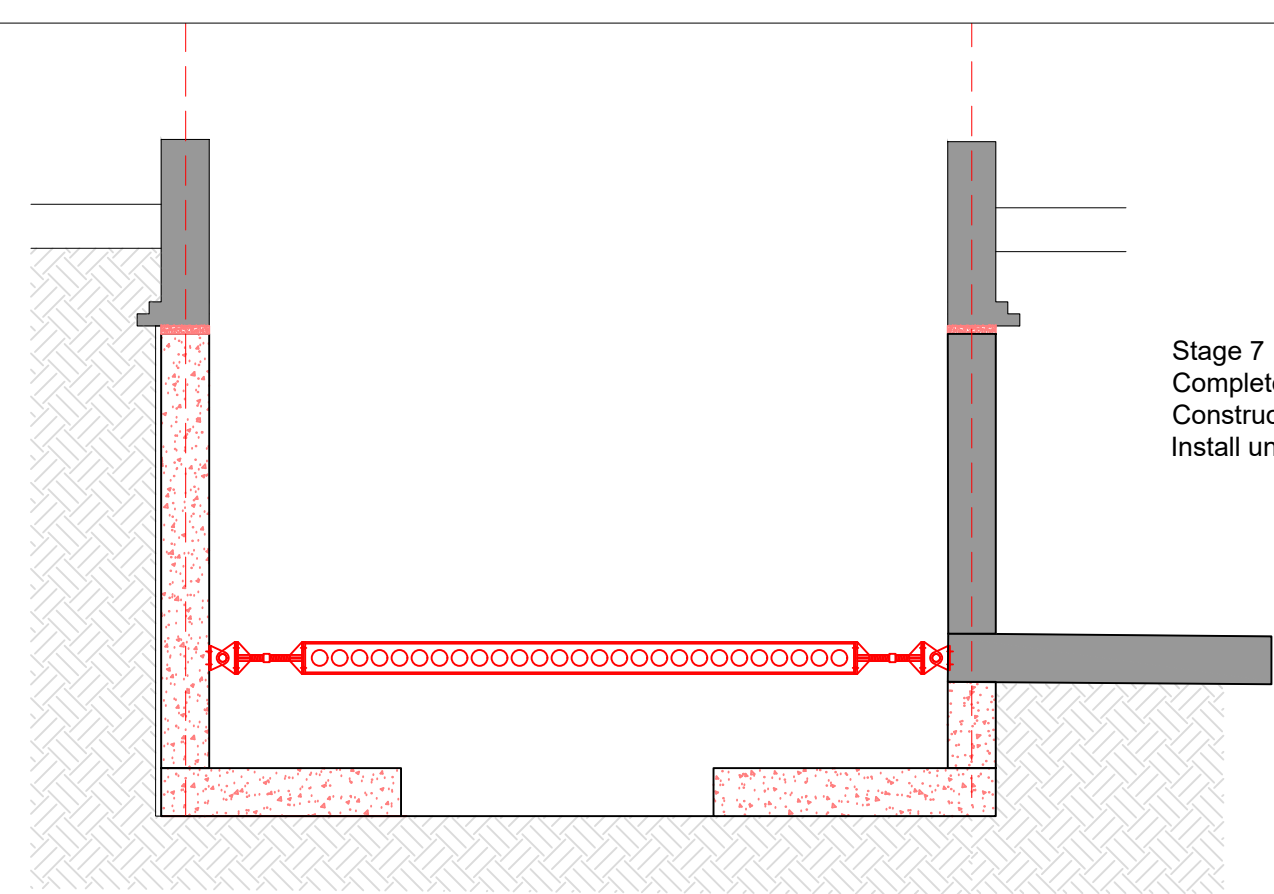
UNDERPINNIG- TYPICAL SEQUENCE

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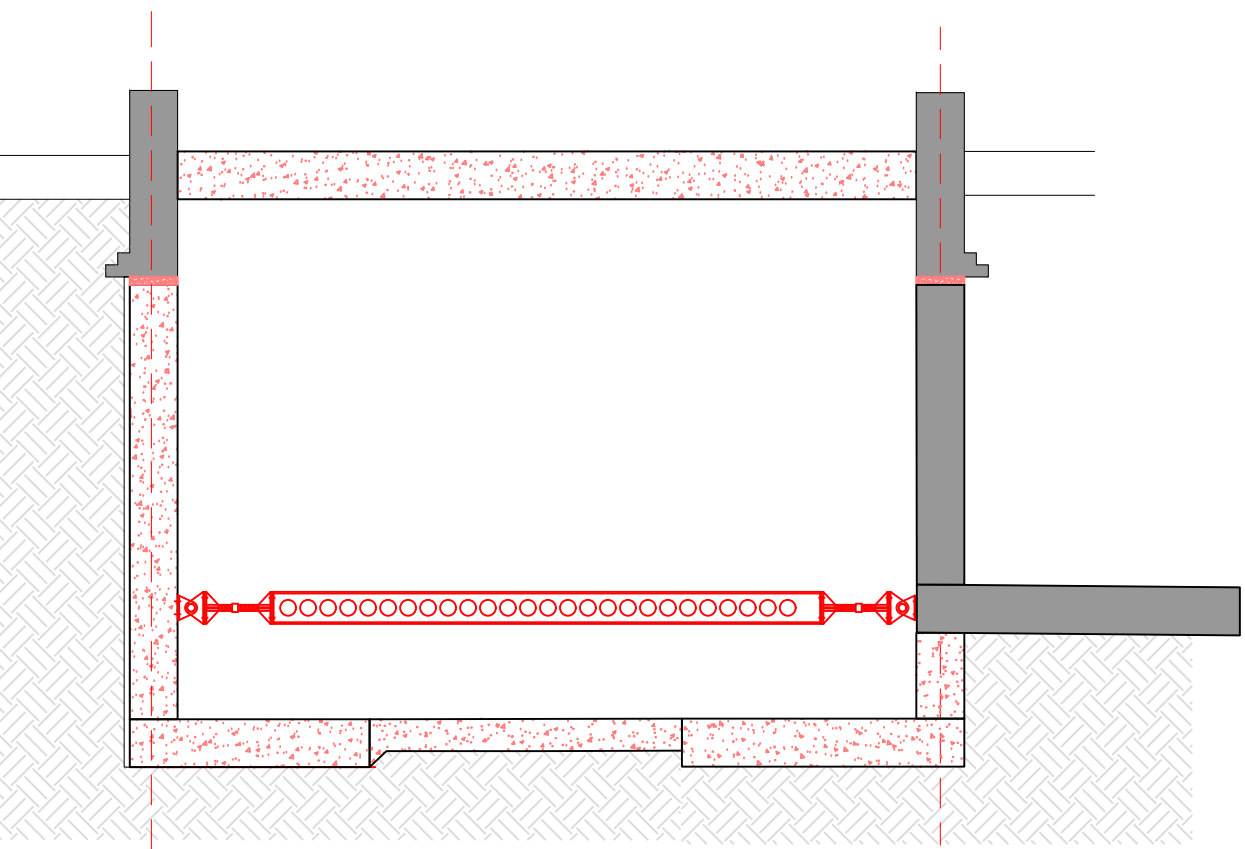
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Stage 7
Complete excavation to formation level.
Construct remaining new foundation.
Install under basement services.

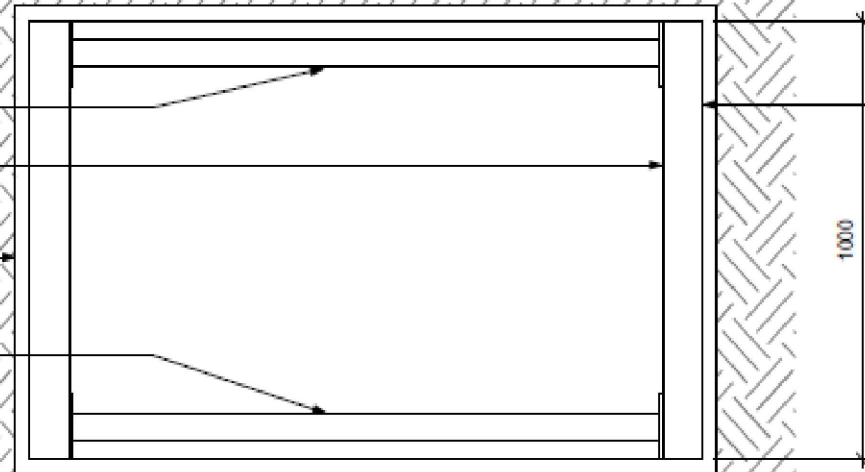


Stage 8
Cast basement slab and cure.



Stage 9
Remove bottom level props.
Construct basement walls/ structure and ground floor structure.
Remove top level prop, wherever applicable.
Basement construction complete.

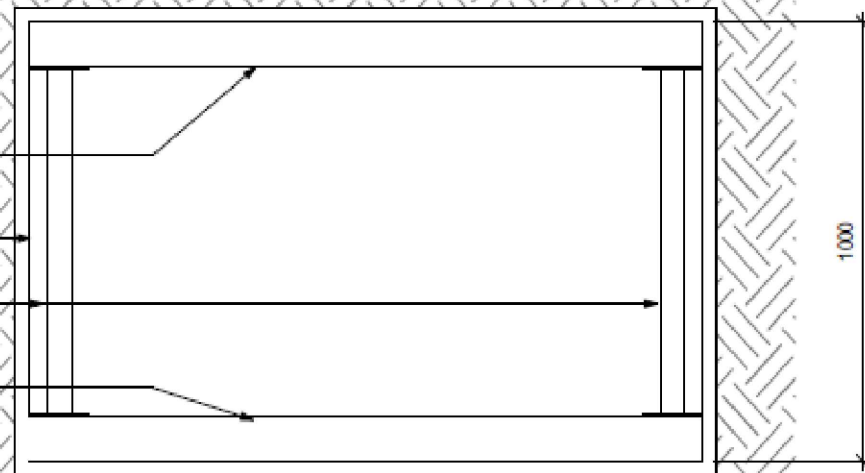
ACROW PROPS
150x150 C24
TIMBER WALLERS
MABEY M7
ACROW PROPS



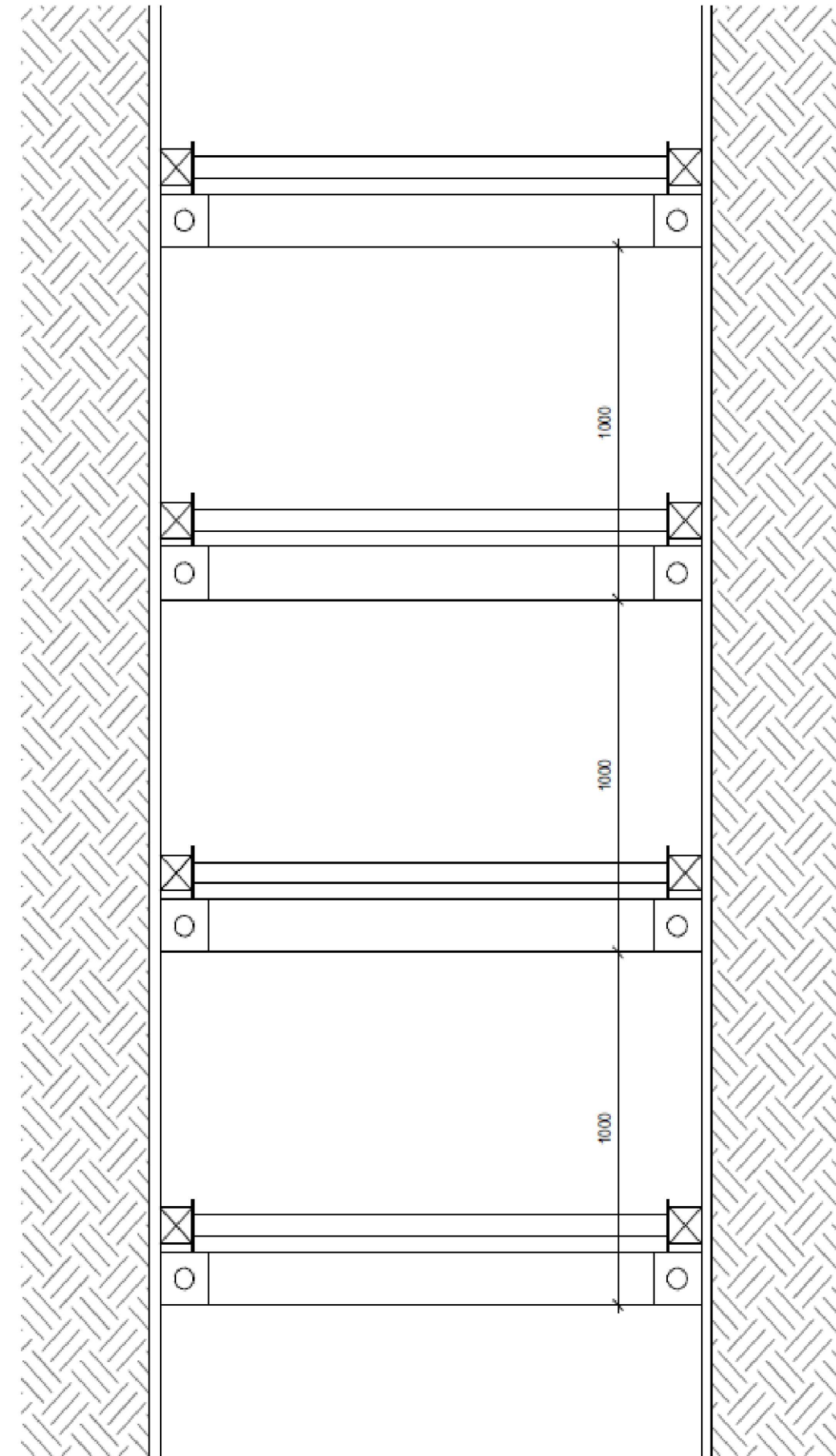
MABEY M7
TRENCH SHIELD

PLAN

150x150 C24
TIMBER WALLERS
MABEY M7
ACROW PROPS
TIMBER WALLERS



PLAN



SECTION

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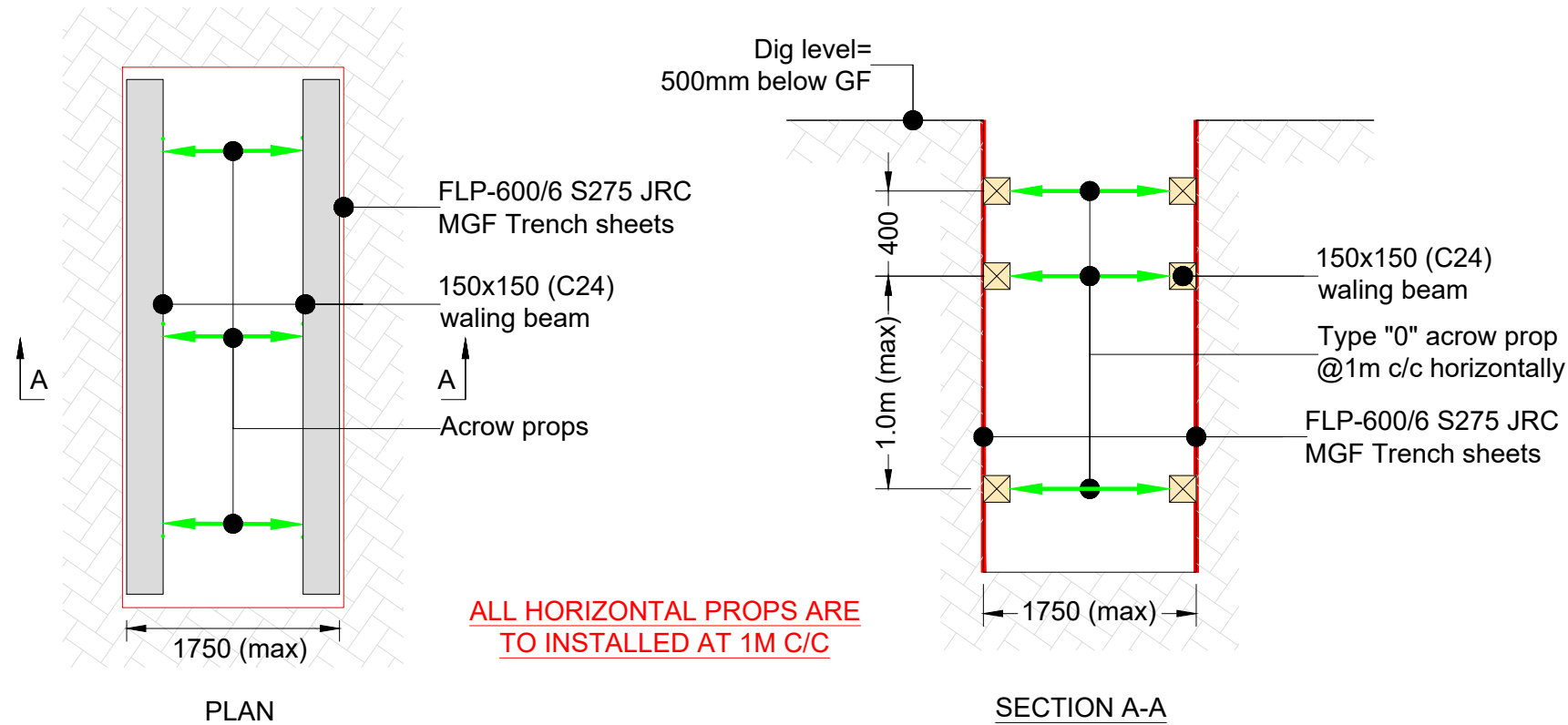
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EXCAVATION SUPPORT DETAILS: UNDERPINNING

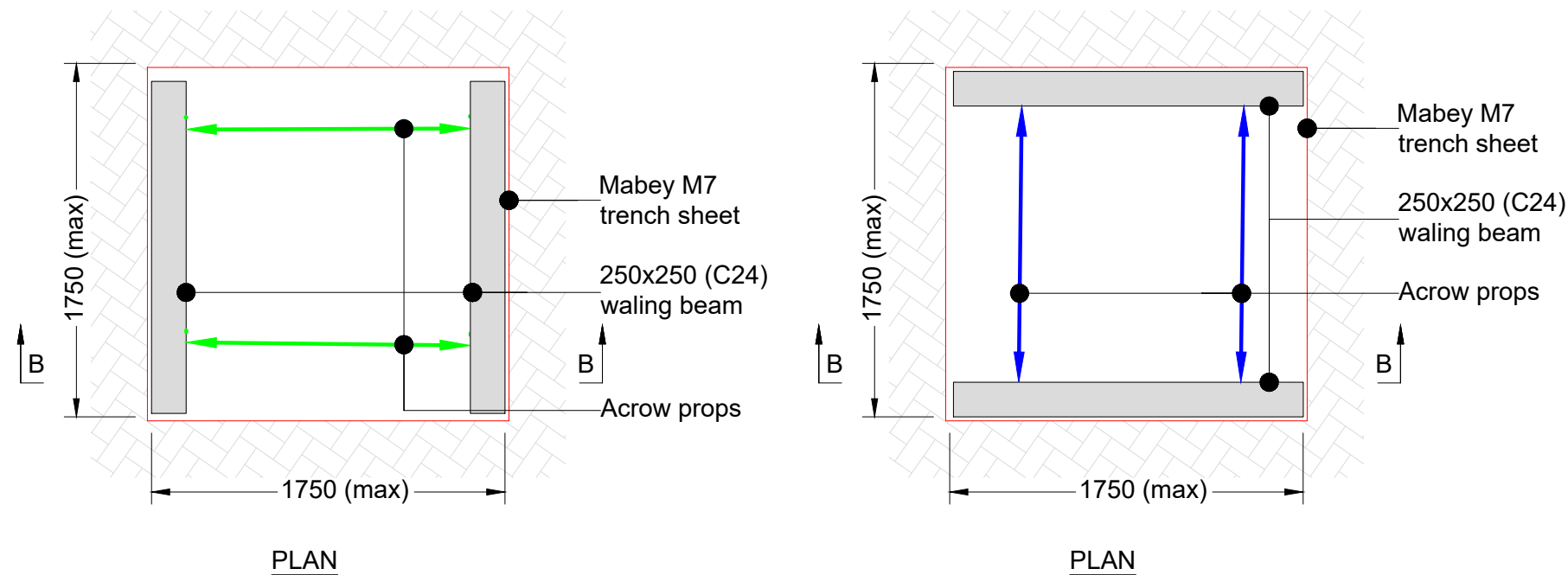
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TRENCH EXCAVATION SUPPORT DETAIL



EXCAVATION SUPPORT DETAIL FOR FOUNDATION CONSTRUCTION

