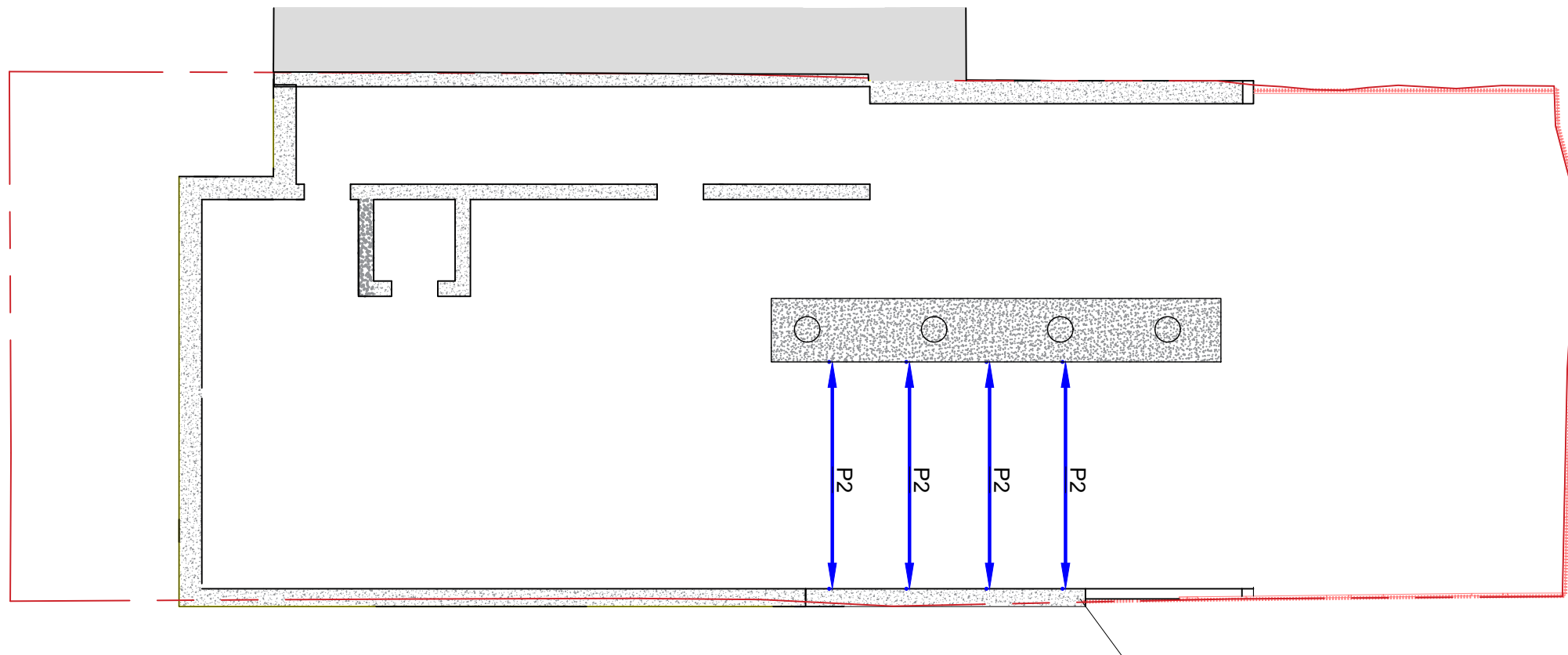


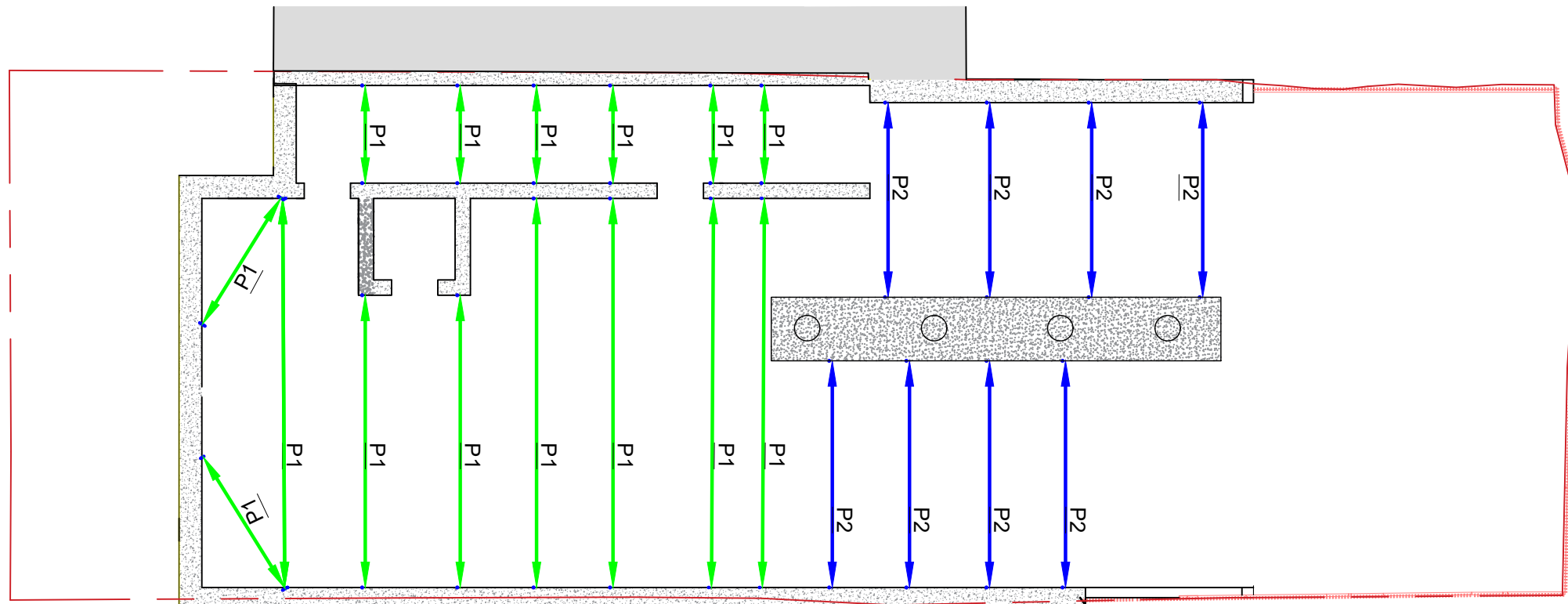
APPENDIX E

GSE – TEMPORARY WORKS INTENT

P1 - HORIZONTAL
 LOWER GROUND FLOOR PROPPING
 P2 - RAKING PROPS



LOWER GROUND FLOOR - TEMPORARY WORKS (HIGH LEVEL PROPPING)



LOWER GROUND FLOOR - TEMPORARY WORKS (LOW LEVEL PROPPING)

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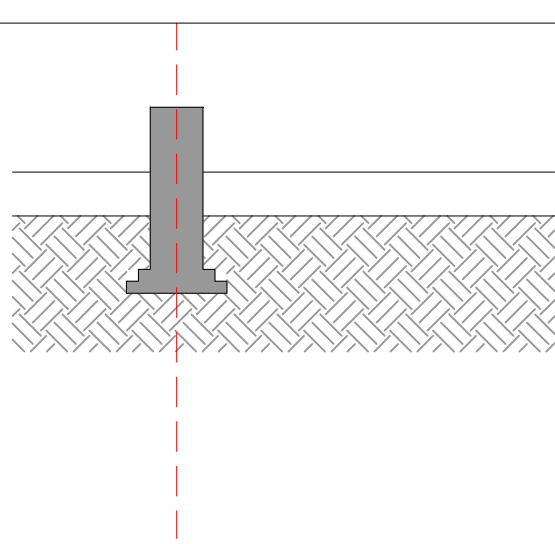
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TEMPORARY WORKS TO LOWER GROUND FLOOR GA

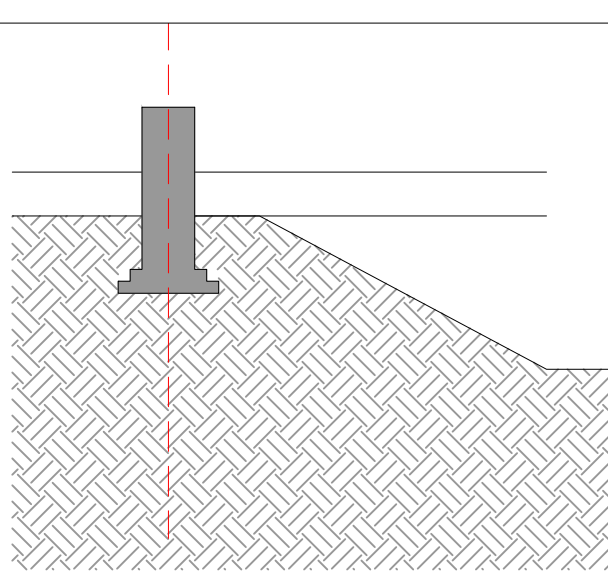
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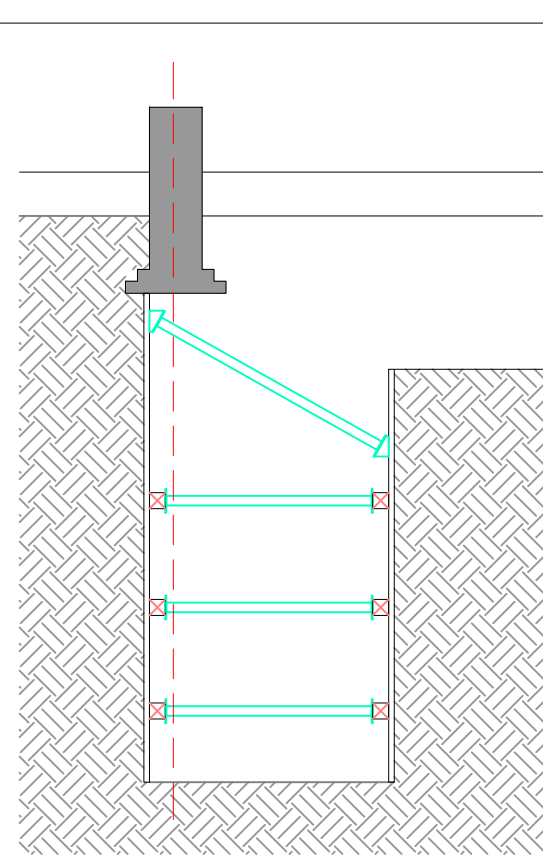
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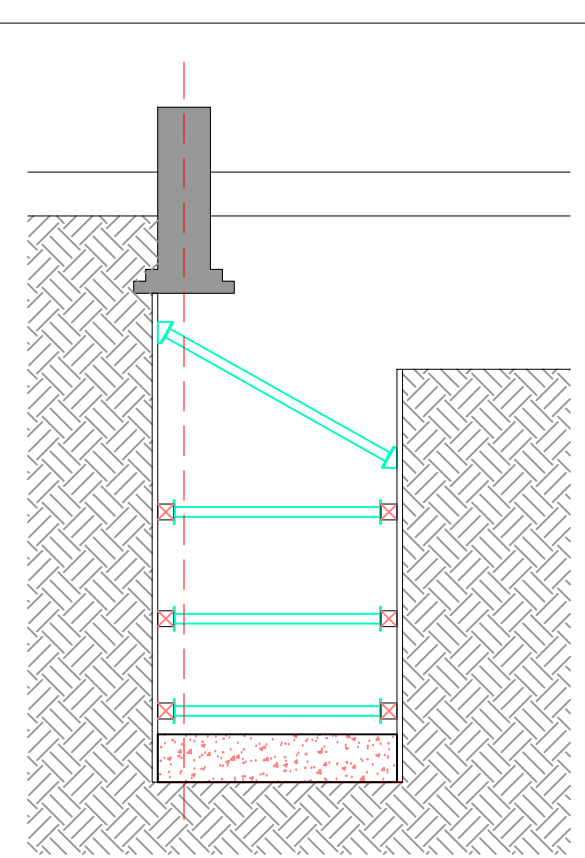
Stage 0
Existing condition



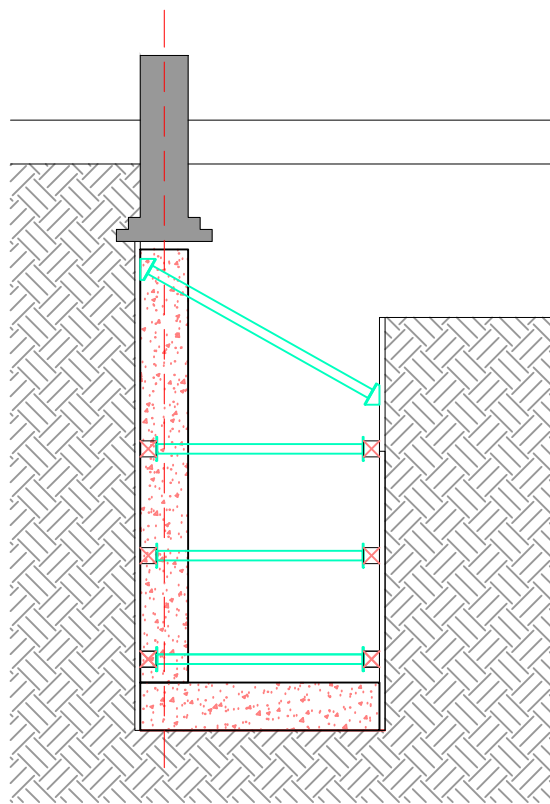
Stage 1
General level reduction
Install vertical temporary support as the dig progresses.



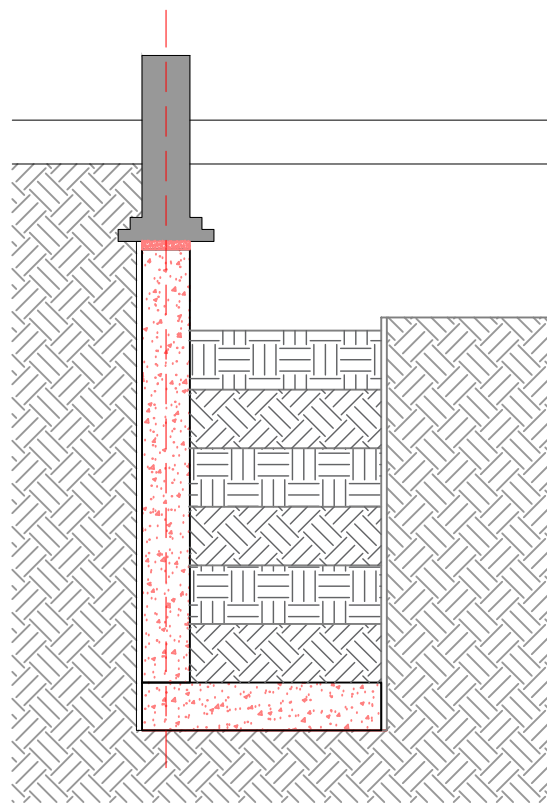
Stage 2
Excavate to form underpin



Stage 3
Concrete base of underpin

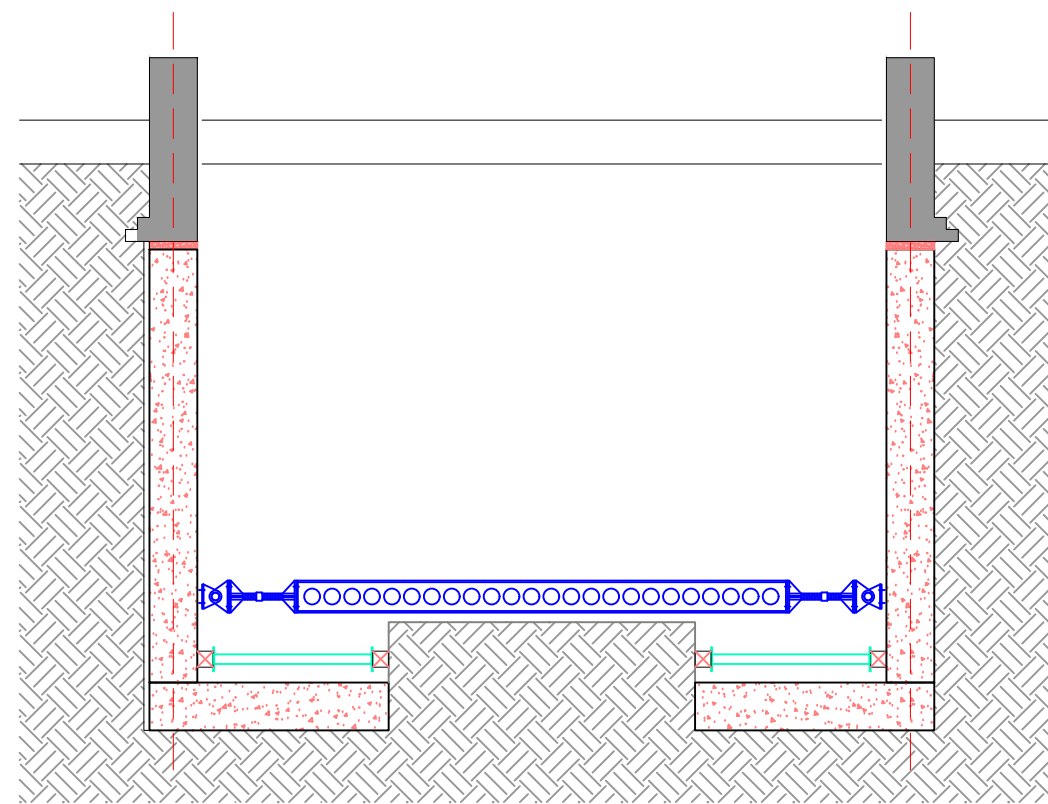


Stage 4
Erect shutter concrete stem of underpin



Stage 5
Strike shutter when concrete has gained sufficient strength, drypack, Trim-off projecting footing. Backfill excavation in layers and compact.

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.



SEQUENCE BASED ON HIT AND MISS CONSTRUCTION, FOR 1.0M MAX WIDTH OF UNDERPIN.

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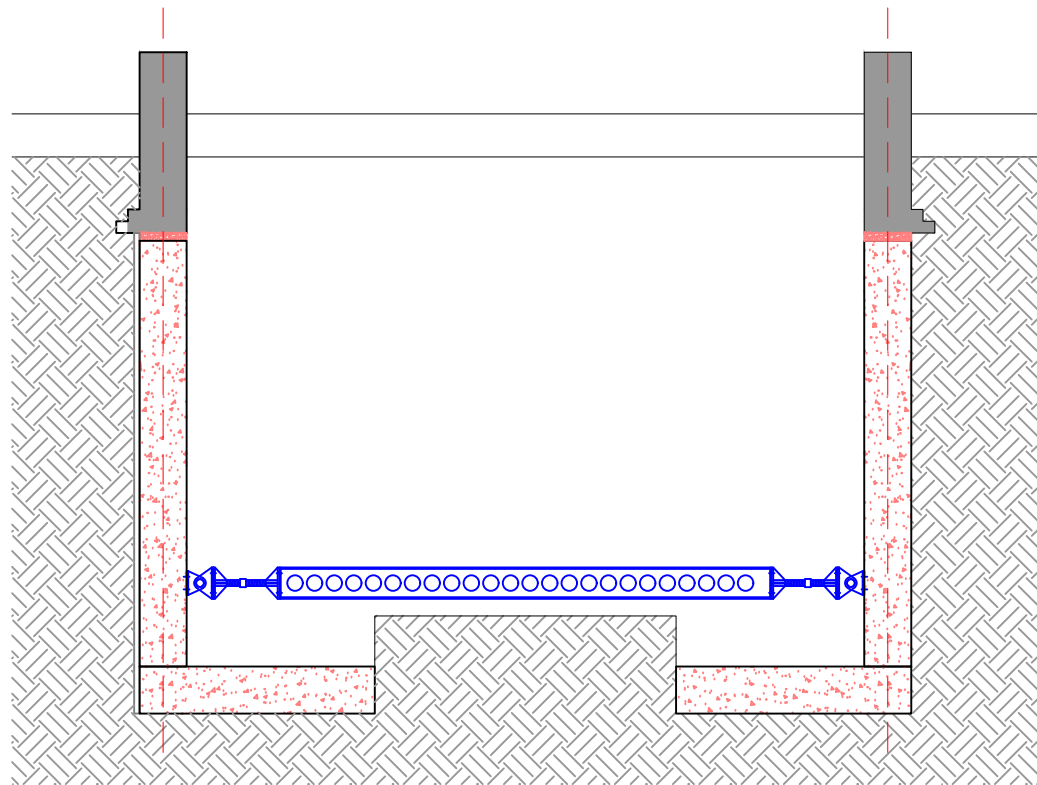
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TYPICAL CONSTRUCTION SEQUENCE SHEET- 1

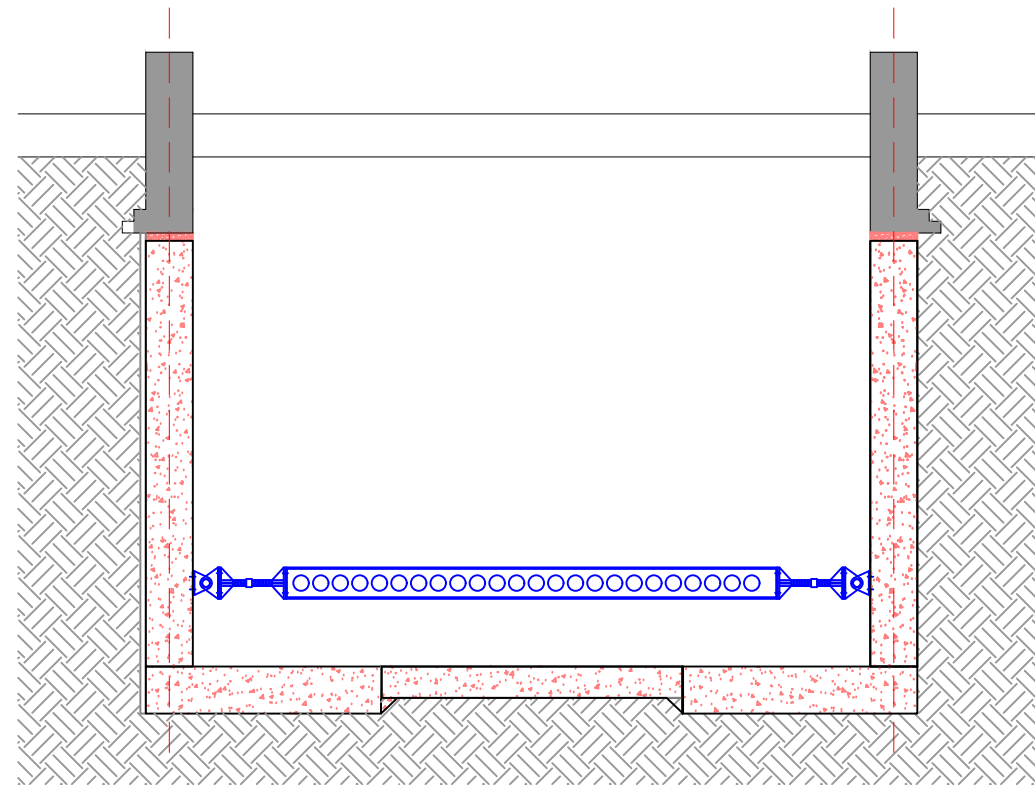
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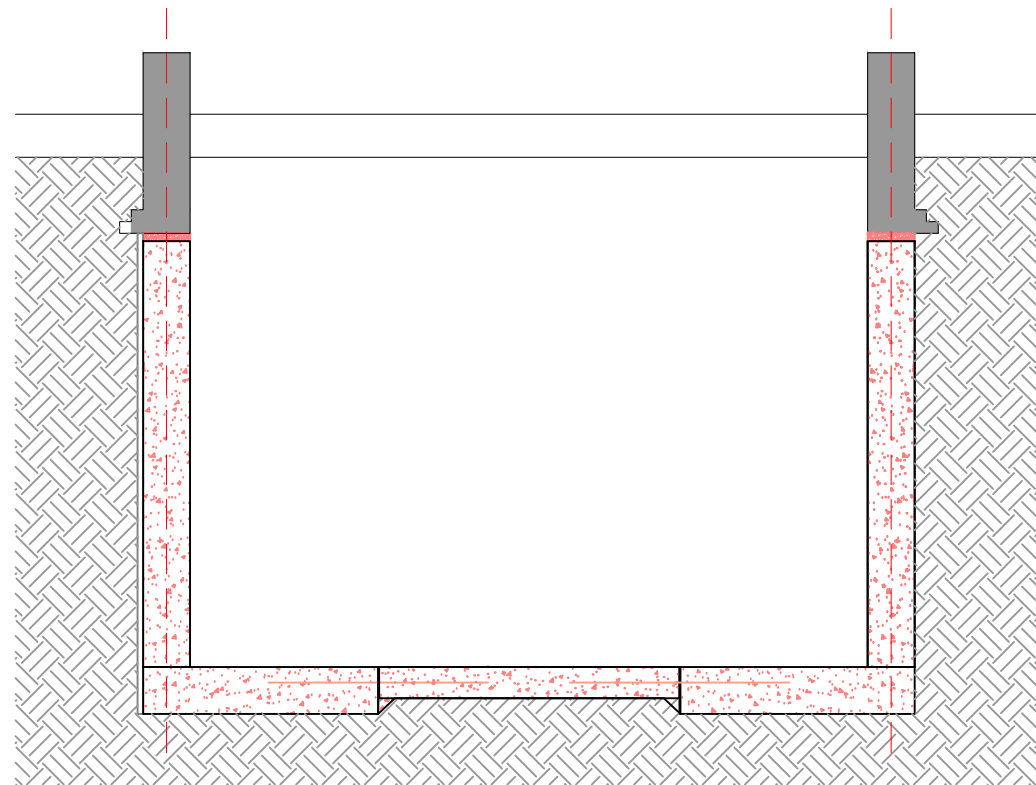
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Stage 7
Complete excavation to formation level.



Stage 8
Cast lower ground floor slab and cure.



Stage 9
Remove bottom level props.

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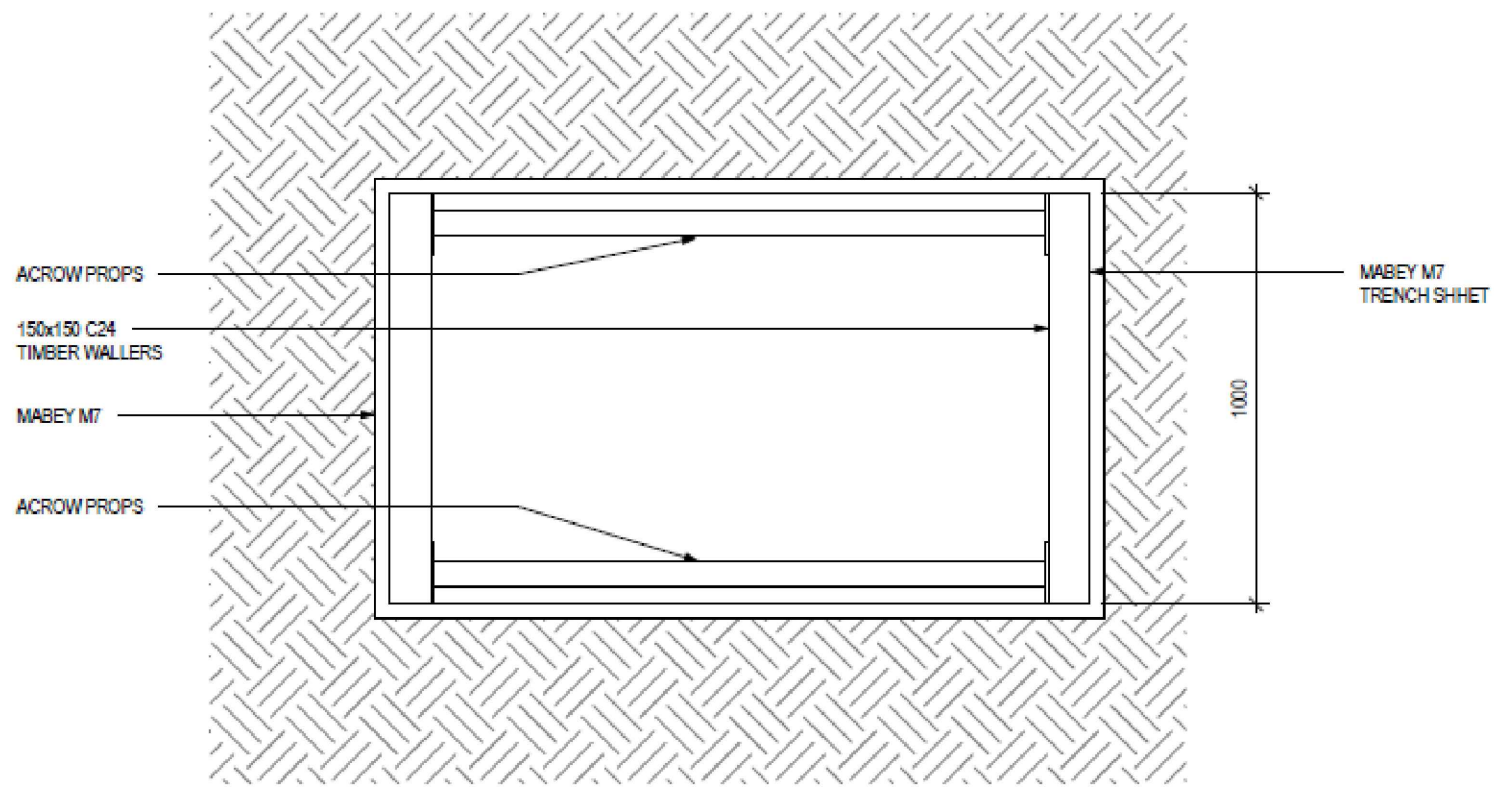
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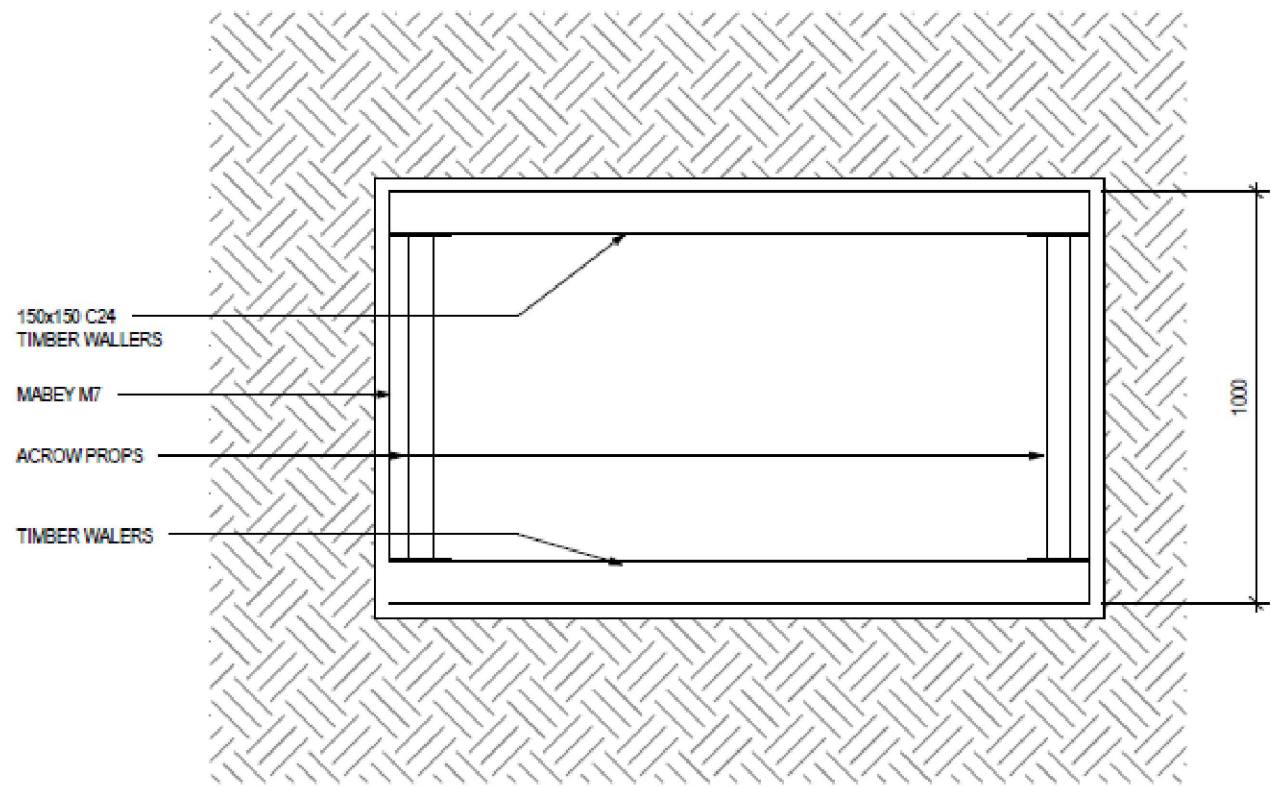
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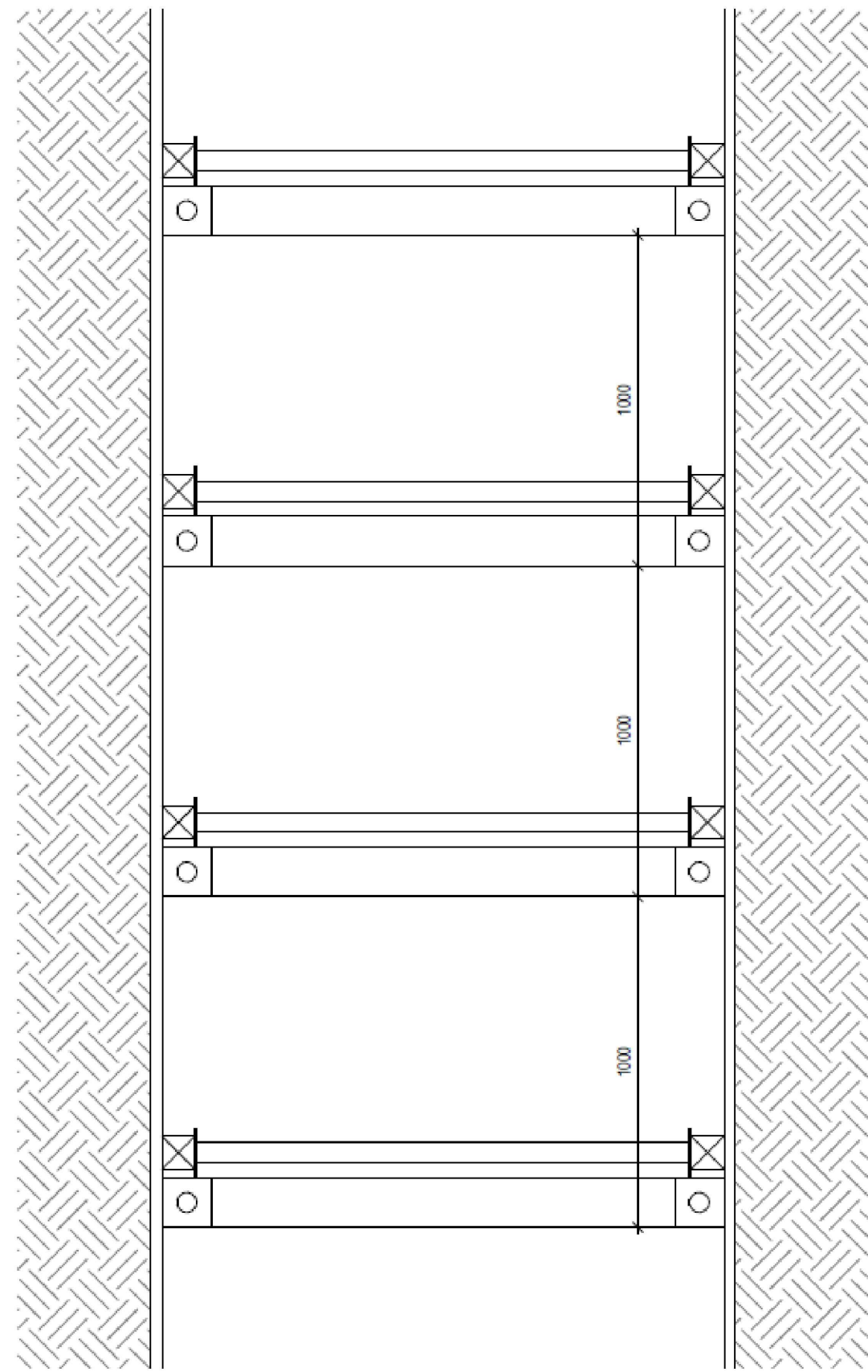
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PLAN



PLAN



SECTION

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EXCAVATION SUPPORT DETAIL: UNDERPINNING

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