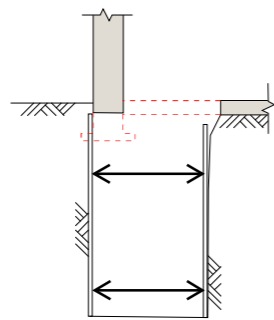
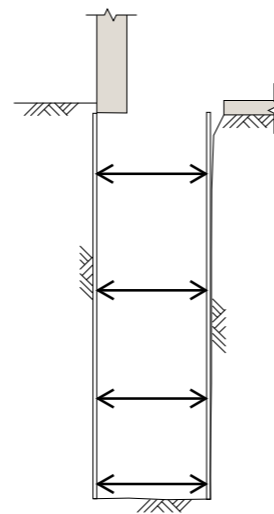


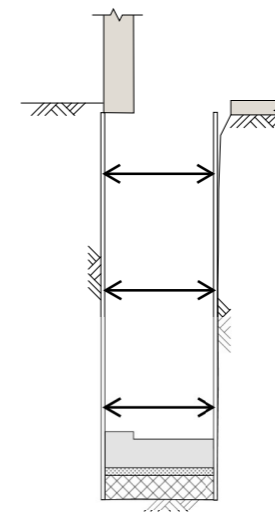
**Stage 1:**  
Existing



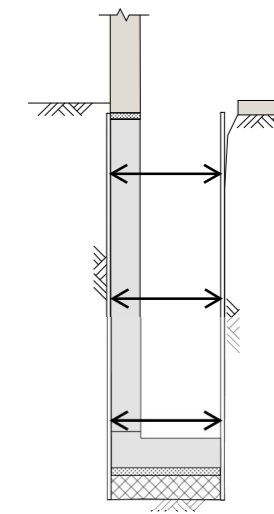
**Stage 2:**  
Locally excavate max 1m wide pin installing local shoring and propping as required. Carefully remove base of footing up to level of new slab



**Stage 3:**  
Continue excavation to founding level installing local shoring and propping as required

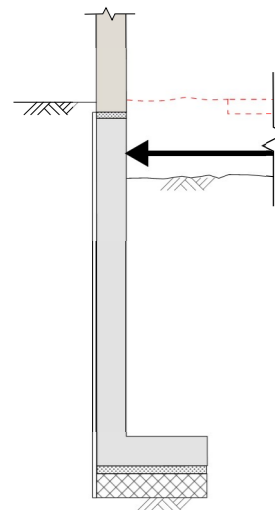


**Stage 4:**  
Prepare founding level and cast base of underpin

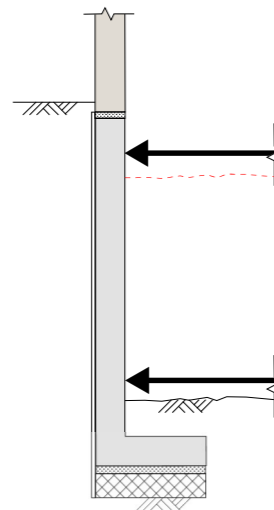


**Stage 5:**  
Once base has cured cast stem of underpin  
Once stem has cured dry-pack up to underside of existing footing

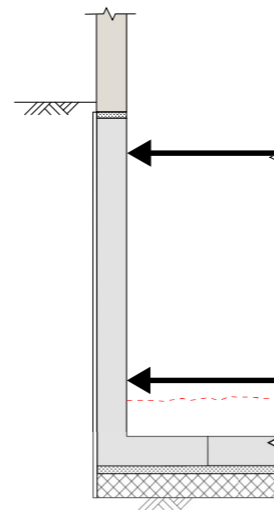
WITH UNDERPIN CAST BACKFILL LOCAL EXCAVATION AND REPEAT STAGES 1-3 CASTING ALL UNDERPINS IN SEQUENCE IN MAX 1m WIDE SECTIONS



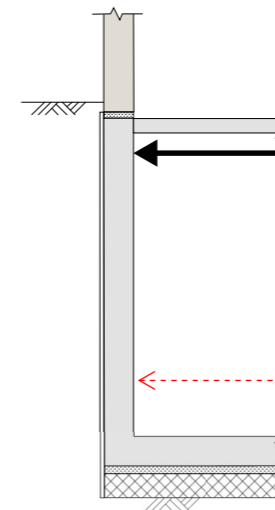
**Stage 6:**  
Once all pins are cast and dry-pack has cured, break out remaining ground slab and locally excavate across earth bund to allow installation of high level prop(s)



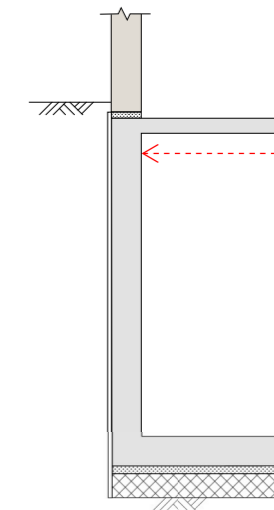
**Stage 7:**  
With high level prop(s) in place continue to excavate earth bund to a level above base of underpin and install low level prop(s)



**Stage 8:**  
With high and low level prop(s) in place continue to excavate to founding level, prepare ground and cast base slab



**Stage 9:**  
Once base slab has cured to provide permanent low level prop to base of underpins, remove the low level prop(s). Cast the ground floor slab



**Stage 10:**  
Once ground floor slab has cured to provide permanent high level prop to underpins, remove the high level prop(s)

**General notes:**

1. Do not scale from this drawing
2. To be read in conjunction with all other structural drawings and the structural specification
3. To be read in conjunction with all other relevant disciplines drawings and specifications
4. All levels, setting out, waterproofing and fireproofing to be confirmed with the Architect
5. The Contractor is responsible for the temporary stability of the existing and proposed structure throughout the works. The sequencing and method of installation should be carefully considered and the temporary works should be designed and detailed by a suitably qualified person (appointed by the Contractor) prior to commencing the works
6. Contractor to request splices if required for handling purposes



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Project

Middle Lypiatt Grange, Stroud, GL6 7LW

Drawing Title:

Indicative Underpinning Sequence

Job. No.	Drawing no.	Revision
221018	S/2350	Preliminary

Scale	Date	Drawn by	Rev. no:
NTS	Apr 21	AA	P1