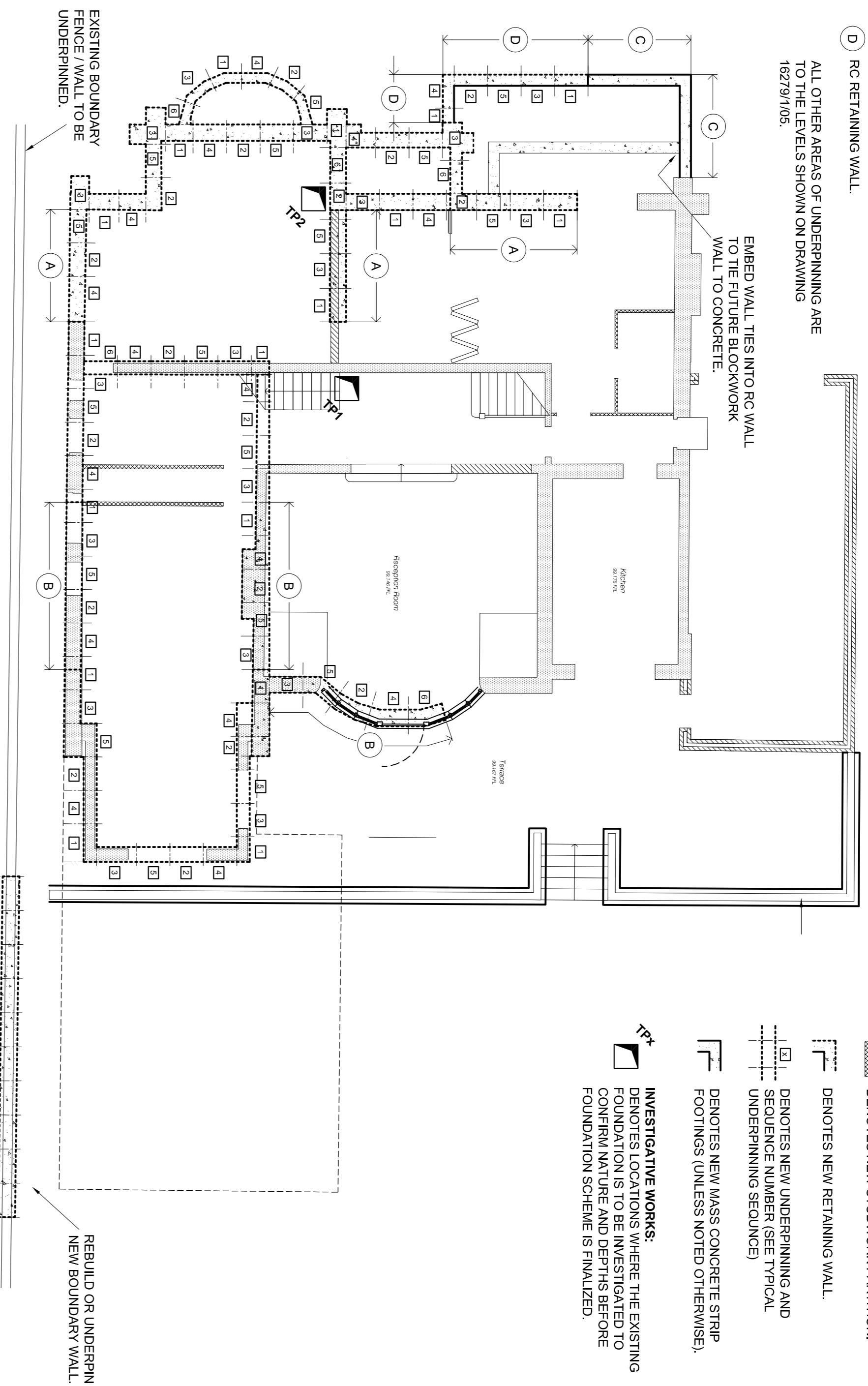


**UNDERPINNING KEY:**

- A UNDERPINNING TO STEPPED EXISTING FOOTING. NOTE: UNDERPINNING STEPS UP TO THE UNDERSIDE OF THE EXISTING FOUNDATION!
- B STEPPED UNDERPINNING.
- C RC WALL.
- D RC RETAINING WALL.

- UNDERPINNING NOTES:**
1. LENGTH OF INDIVIDUAL UNDERPINNING SECTIONS TO BE NO GREATER THAN 900mm.
  2. UNDERPINNING TO BE CARRIED OUT IN SEQUENCE i.e. 1, 2, 3 etc AS PER TYPICAL SEQUENCE.
  3. STEPS IN UNDERPINNING TO BE NO GREATER THAN 250mm HIGH.

EMBED WALL TIES INTO RC WALL TO THE FUTURE BLOCKWORK WALL TO CONCRETE.



**LOWER GROUND FLOOR PLAN SHOWING UNDERPINNING OF EXISTING WALLS**  
1:100

**LEGEND:**

- DENOTES EXISTING FEATURES.
- DENOTES CAVITY WALL CONSTRUCTION TO ARCHITECT'S DETAILS.
- DENOTES BLOCKWORK WALL.
- DENOTES NEW RETAINING WALL.
- DENOTES NEW UNDERPINNING AND SEQUENCE NUMBER (SEE TYPICAL UNDERPINNING SEQUENCE).
- DENOTES NEW MASS CONCRETE STRIP FOOTINGS (UNLESS NOTED OTHERWISE).
- DENOTES NEW RETAINING WALL.
- DENOTES NEW UNDERPINNING AND SEQUENCE NUMBER (SEE TYPICAL UNDERPINNING SEQUENCE).
- DENOTES NEW MASS CONCRETE STRIP FOOTINGS (UNLESS NOTED OTHERWISE).
- INVESTIGATIVE WORKS: DENOTES LOCATIONS WHERE THE EXISTING FOUNDATION IS TO BE INVESTIGATED AND IDENTIFIED. FOUNDATION SCHEME IS FINALIZED.

**TYPICAL UNDERPINNING SEQUENCE:**

WORK IN 1a, 1b, 1c, ETC. SEQUENCE ONLY. ANY VARIATIONS TO BE DISCUSSED WITH THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.

**OTHER NOTES:**

SERVICES TO BE ESTABLISHED, SUPPORTED AND PROTECTED BY THE CONTRACTOR THROUGHOUT THE WORKS.

**- PHASE 1 -**

- a) EXCAVATE PINS DESIGNATED 1 TO NEW REQUIRED LEVEL. +50mm.
- b) INCORPORATE SHEAR KEYS INTO THE WALL EXCAVATION: 100 X 50 TIMBERS. KEY FORMERS TO BE FIXED TO FRONT SHUTTER AND LOST REAR TIMBER POST. TAPERED TIMBERS ADVISED FOR EASY REMOVAL.
- c) CAST A 50mm WEAK CONCRETE MIX BLINDING LAYER.

**- PHASE 2 -**

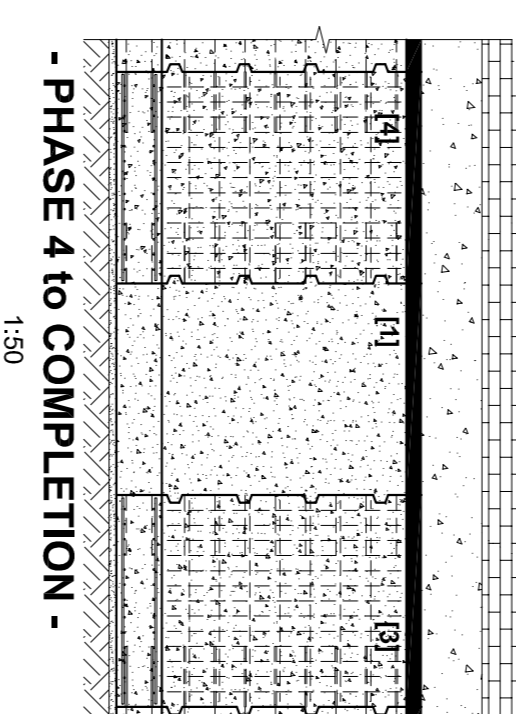
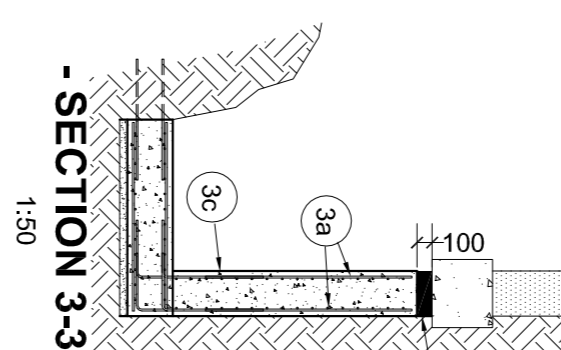
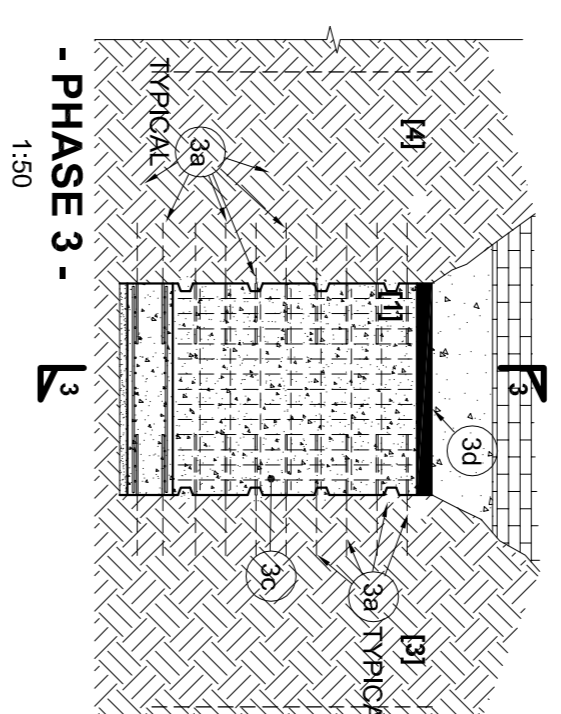
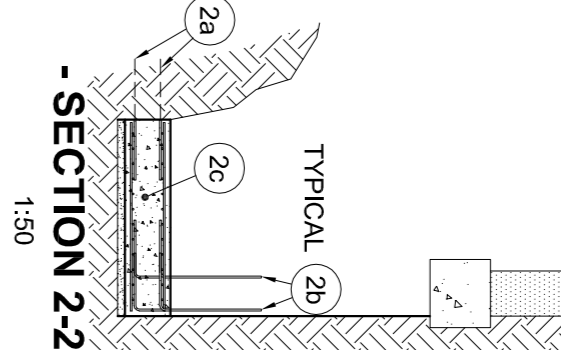
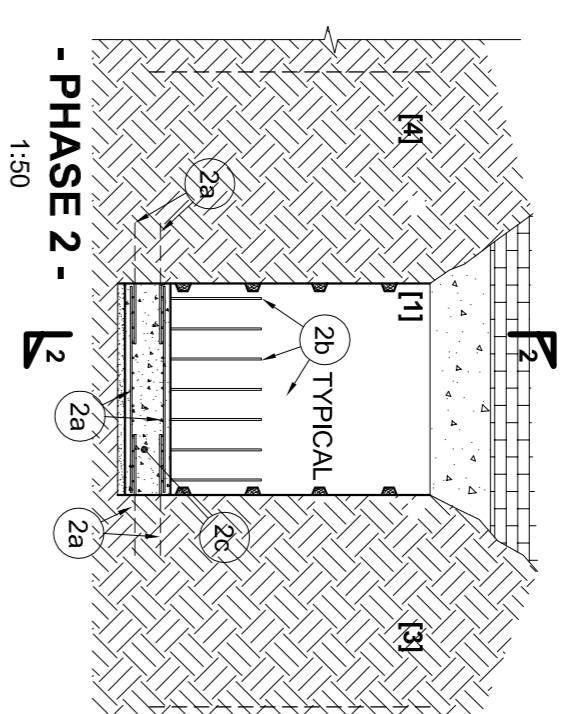
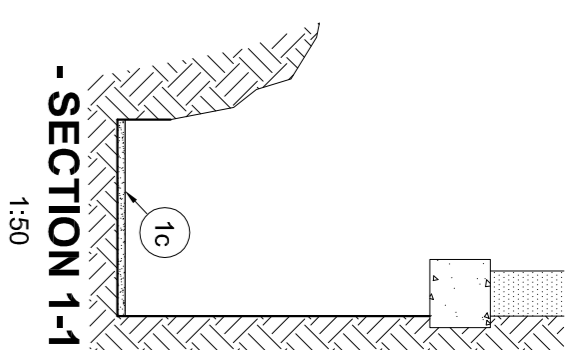
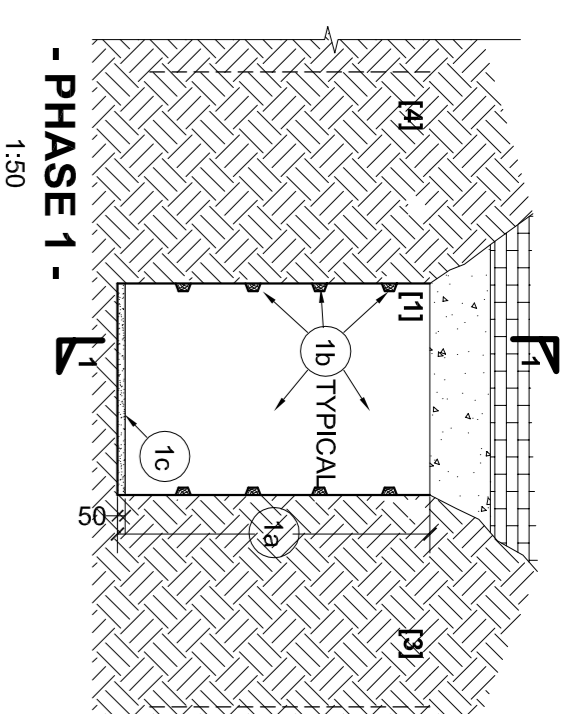
- 2a) INSTALL THE SLAB REINFORCEMENT. PUSHING STRAIGHT BARS INTO THE EARTH TO ALLOW FOR FUTURE LAPPING WITH ADJOINING SLAB REINFORCEMENT.
- 2b) INSTALL STARTER BARS TO ALLOW FOR FUTURE LAPPING WITH THE WALL REINFORCEMENT.
- 2c) CAST CONCRETE SLAB.
- 2d) LEAVE FOR 24HRS BEFORE PROCEEDING.

**- PHASE 3 -**

- 3a) REMOVE SHEAR KEY MOUNDS AND INSTALL WALL REINFORCEMENT. PUSHING STRAIGHT BARS INTO THE EARTH TO ALLOW FOR FUTURE LAPPING WITH THE ADJOINING WALL SECTION REINFORCEMENT.
- 3b) INSTALL FORMWORK.
- 3c) CAST CONCRETE WALL, LEAVING A 100mm GAP TO THE UNDERSIDE OF THE STRUCTURE OVER FOR PACKING. LEAVE FOR 24HRS BEFORE PROCEEDING.
- 3d) PACK GAP LEFT AT 3.3 WITH WELL-RAMMED 1:3 DRY PACK.
- 3e) STRIKE FORMWORK AFTER 7 DAYS.

**- PHASE 4 to COMPLETION -**

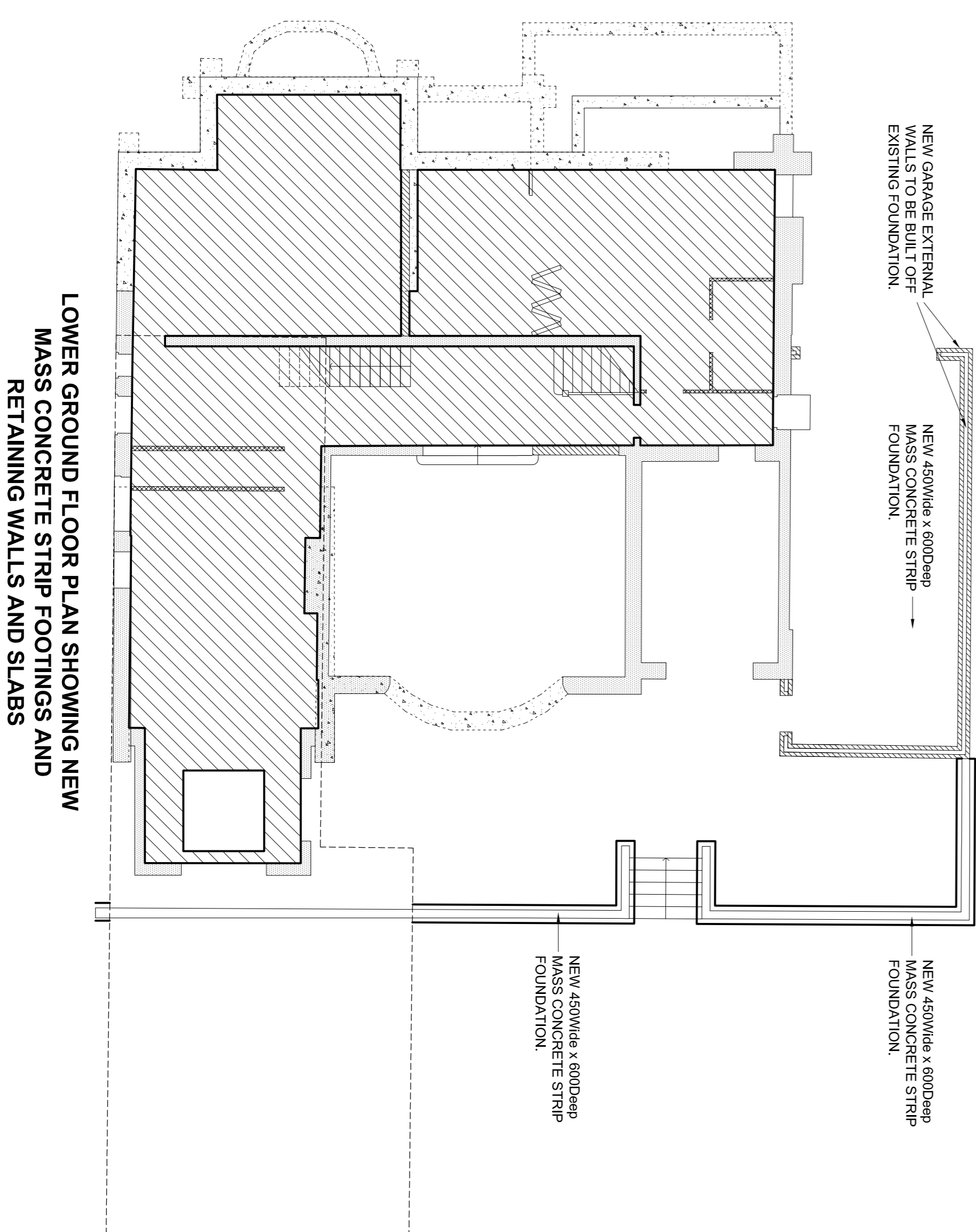
REPEAT PHASES 1 TO 3 TO FORM REMAINING UNDERPINNING AND SLABS 2 TO 6 IN SEQUENCE.



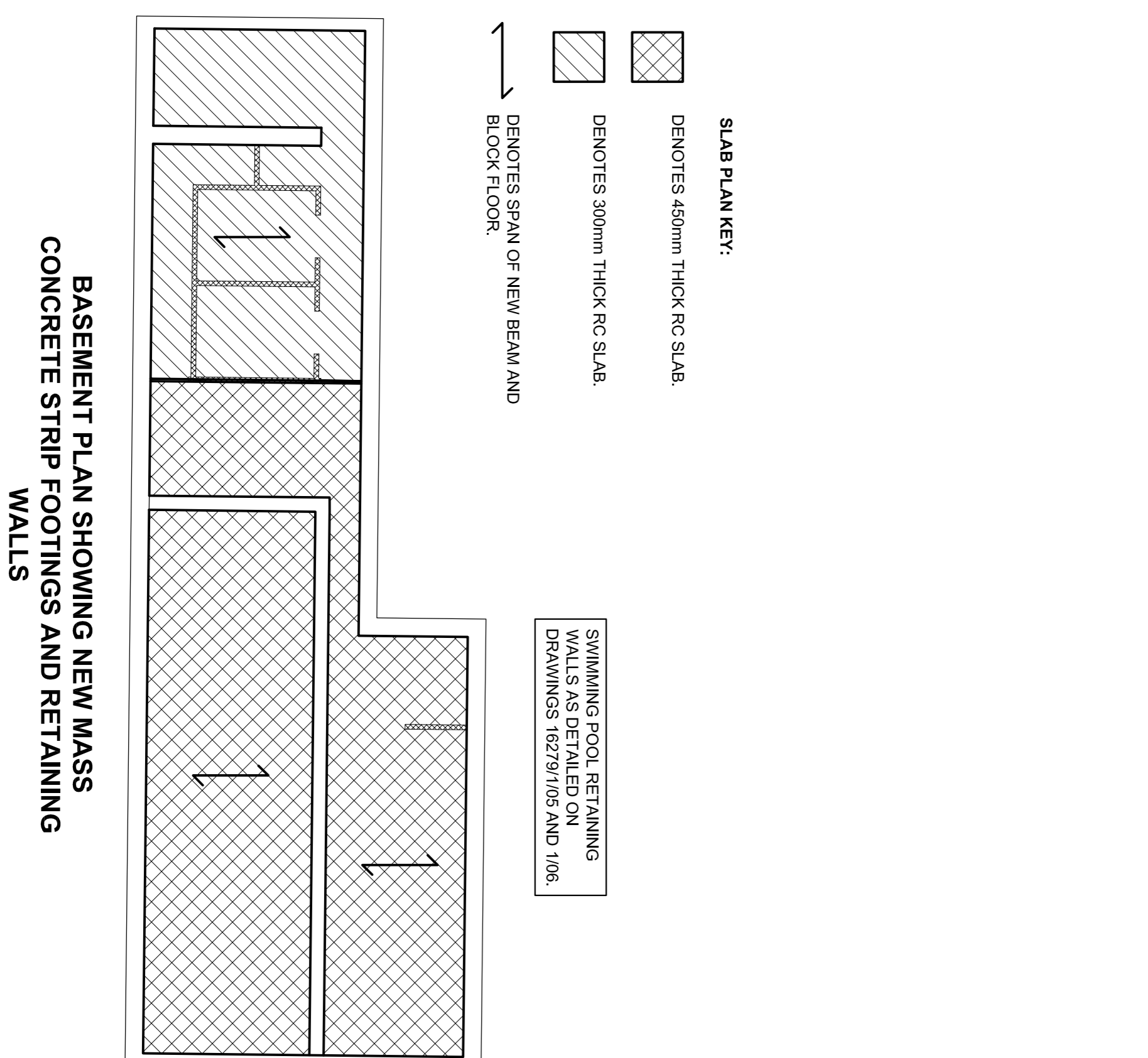
**DO NOT SCALE THIS DRAWING**

**GENERAL NOTES:**

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
  2. ALL DIMENSIONS ARE TO BE CHECKED AGAINST THE ARCHITECT'S DRAWINGS.
  3. DESIGN AND INSTALLATION OF TEMPORARY WORKS TO BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS TO SUBMIT FULL METHOD STATEMENTS, DETAILS AND CALCULATIONS OF ALL TEMPORARY SUPPORT WORKS TO THE ENGINEER PRIOR TO ANY DEMOLITION WORK BEING CARRIED OUT.
  4. THE ENGINEER IS TO BE INFORMED IF ANY CHANGES ARE MADE ON SITE TO EITHER THE EXISTING STRUCTURE OR THE PROPOSED WORKS.
  5. ALL CLIENTS STAFF, CONSULTANTS AND CONTRACTORS MUST COMPLY WITH ALL CURRENT HEALTH AND SAFETY REGULATIONS INCLUDING REGULATIONS 2007 (DESIGN & MANAGEMENT), HEALTH & SAFETY AT WORK ACT 1974, CONSTRUCTION (WORKING PLACES) REGULATIONS 1986.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT HEALTH AND SAFETY FILE AND METHOD STATEMENTS.



**LOWER GROUND FLOOR PLAN SHOWING NEW MASS CONCRETE STRIP FOOTINGS AND RETAINING WALLS AND SLABS**  
1:100



**BASEMENT PLAN SHOWING NEW MASS CONCRETE STRIP FOOTINGS AND RETAINING WALLS**  
1:100

**FOR INFORMATION ONLY**

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