

GCE 8617: 42 COVERSAHM ROAD- CAMDEN, LONDON -CONSTRUCTION METHOD STATEMENT

The following provides the outline method statement for the construction of the basement for a 5 storey concrete frame building. This will be developed and finalised at detailed design stage by GCE and appointed contractor & piling contractor. Diagrams giving the key stages of the process are given in the appendix A.

1. The first stage of the construction will be the demolition of existing building and associated services removed.
2. 450mm diameter contiguous piles will then be installed at the perimeter of the proposed basement. The design of the contiguous pile will consider the different temporary stages and also the permanent service stage.
3. Once the installation of the contiguous piles are complete, the capping beams will be constructed. Ground level will then be reduced to allow for temporary propping, if used, at the capping beam levels. The excavation will continue down to the founding level of the basement.
4. The current basement construction assume no temporary propping. This would be achieved by designing the contig piles to act as a free cantilever wall and also limiting the movement of nearby ground to very low acceptable level.
5. No water table has been encountered during the limited SI works carried out. However it will be necessary to pump out the ground water out close to the base to allow the base slab and foundation to be constructed if further SI works and stand pipe monitoring show ground water table at higher level. Pumping will be maintained during this process.
6. The reinforced concrete (water proof concrete) liner walls will follow the base slab.
7. Temporary props, if any, will be removed after the construction of the ground floor slab.
8. The work will then proceed with the construction of the upper floors and remainder of the building.

INSTRUMENTATION MONITORING.

The planned monitoring works include

- a. Settlement monitoring points all around the perimeter of proposed development site.
- b. Stand pipes at selected locations

Frequency of the readings to be taken will be finalised later.

STRUCTURAL STABILTY OF ADJACENT BUILDING DURING BASEMENT CONSTRUCTION

Any movement of the ground next to the basement construction will seriously affect the stability of the adjacent buildings. Therefore it is proposed to design the contig piled retaining wall in such a way that the ground movement is controlled to acceptable limit during basement construction. The embedded contig pile wall will be designed as a free cantilever where possible and temporary props will be used if the deflection of the piles found to be excessive.



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SKETCH SHEET

Job No. 8617

Sketch No. 1

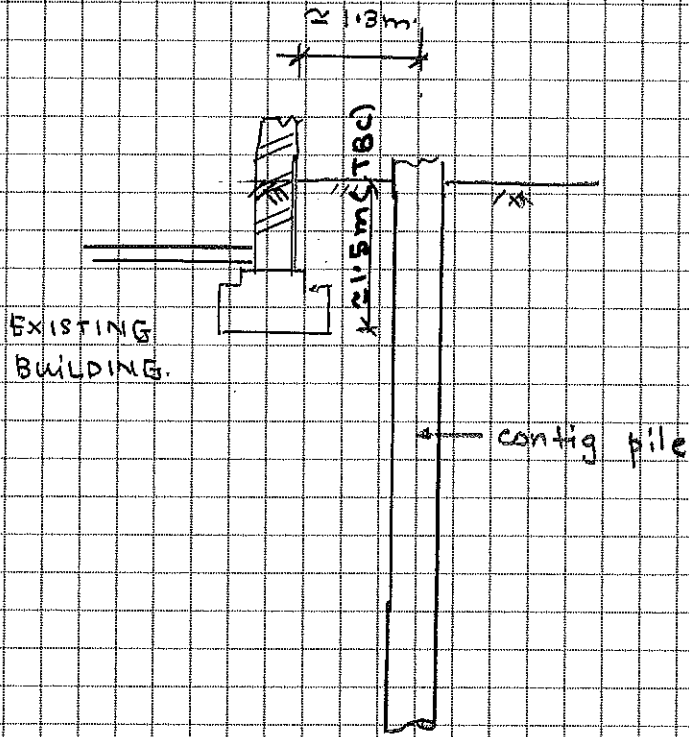
Date 28.09.15

Rev.

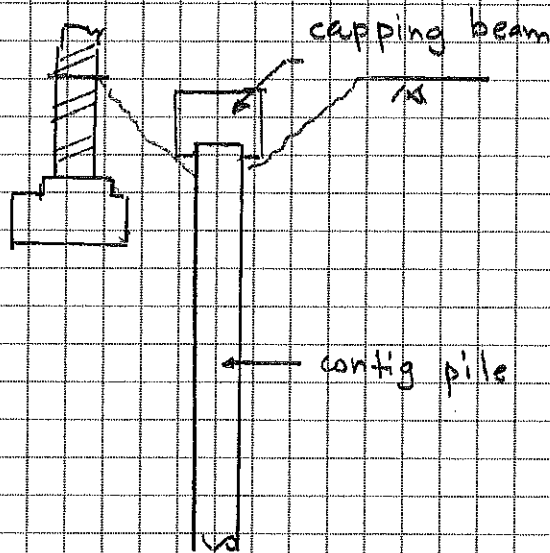
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STAGE-1 - INSTALLATION OF CONTIGUOUS PILES



STAGE-2 - CONSTRUCT CAPPING BEAM.



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SKETCH SHEET

Job No. B617

Sketch No. 2

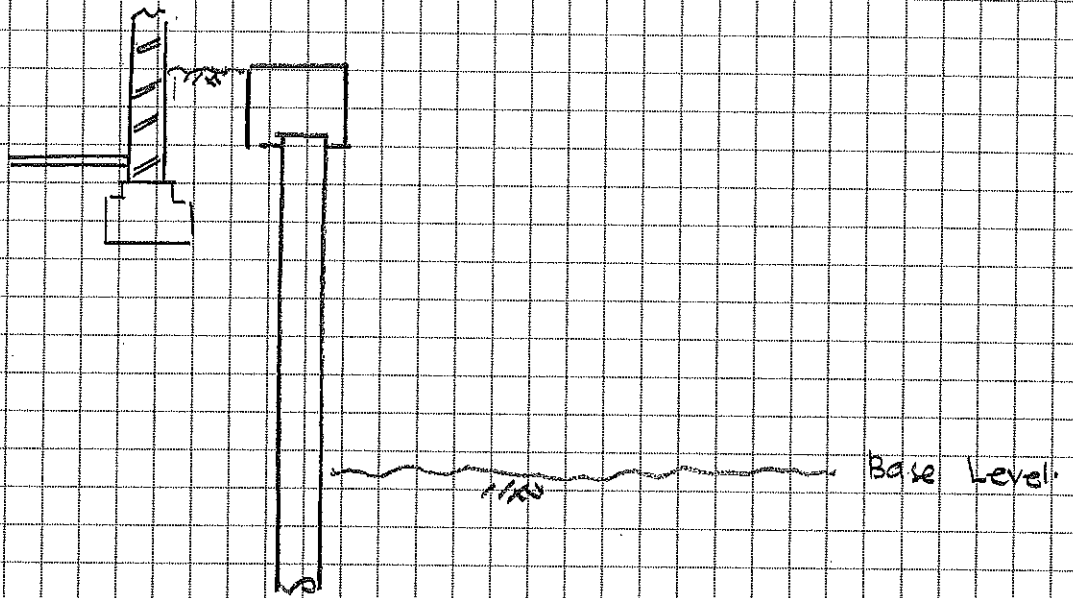
Date 28.9.15

Rev.

By ST

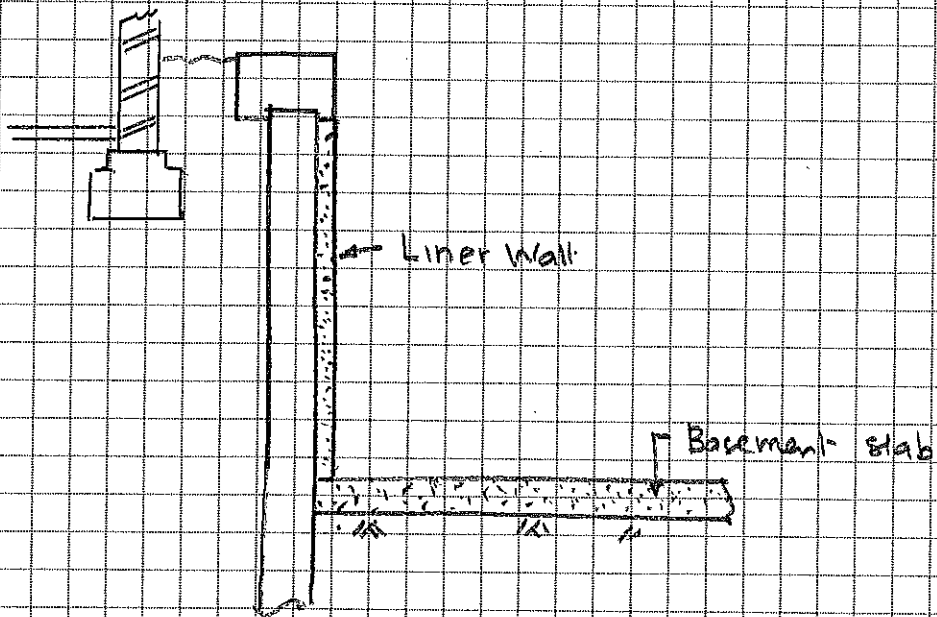
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STAGE - 3

REDUCE THE GROUND LEVEL TO
BASEMENT LEVEL



STAGE - 4

CONSTRUCT BASEMENT SLAB &
RC LINER WALL.



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SKETCH SHEET

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Sketch No. 3.

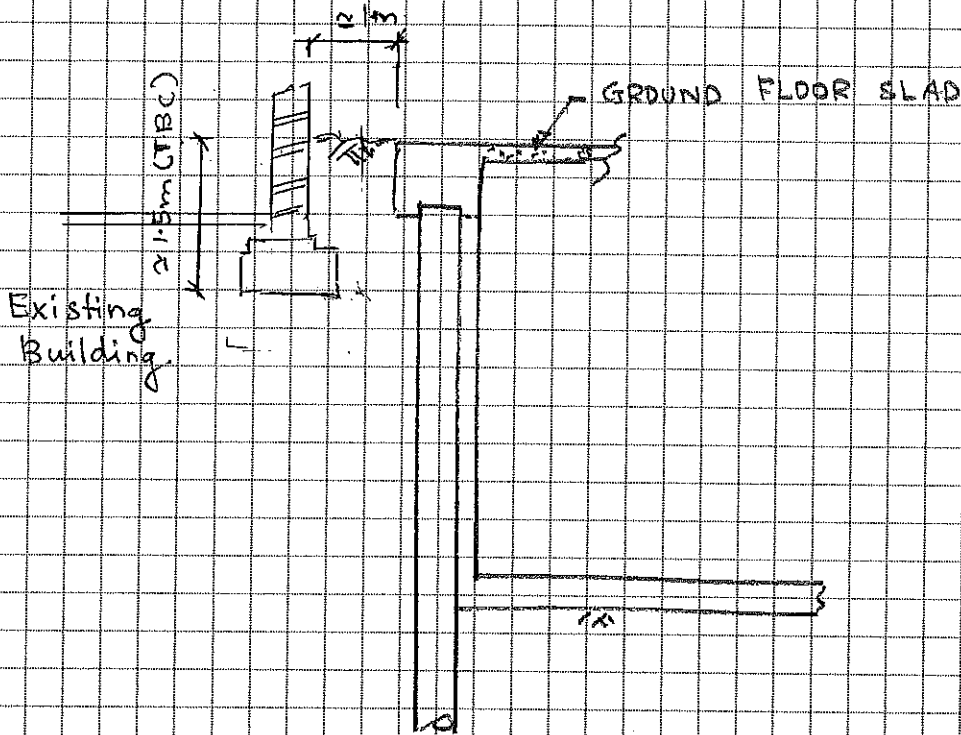
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STAGE - 5 - CONSTRUCT GROUND FLOOR SLAB.