ABBEY PYNFORD

GA20986 – 26 Denmark Street, WC2H 8NN

Method Statement for Relocation of The Smithy Building

1. Roof covering to be removed.
2. Abbey Pynford Geo Structures to take possession of secure working area extending at least 2.0m beyond the external wall to the building all round.
3. Install temporary stools and install new reinforced concrete raft slab foundation to the whole of the building as drawing GA20986/U/01A. The raft slab is to be constructed in 2 separate pours to ensure that no more than 50% of the structure is supported on temporary stools at any one time.
4. The new piled raft foundation will incorporate fixing points for the attachment of vertical cables from the lifting frame which will be used to lift and move the building.
5. The lifting frame will incorporate fixings for temporary works to brace and connect the existing super structure to the new raft foundation.
6. A proprietary shoring system will be bolted to the fixing points referred to in point 5 cross braced and connected to the existing walls. Wherever possible bracing will be bolted through existing door and window openings. Where this is not possible tie bars will be installed through the existing walls by drilling holes not exceeding 16mm diameter through brick work joints.
   The temporary bracing system will be extended upwards to include chimneys and gable end walls.
7. In the absence of a competent roof structure a timber plate will be installed just below eaves level based on appropriate sized timbers on joist hangers supporting a 20mm plywood deck screwed into position and fitting tight to the inside of the external walls.
8. After completion of the bracing works windows doors and there frames will be removed from all openings the resulting holes filled in with 100mm dense blockwork to further stabilise the structure. Maximum care will be taken to minimise damage/disturbance to original brick work in reveals. Any openings at higher levels or missing areas of brickwork currently hidden by cladding decorations etc. will also be filled with 100mm block work.
9. Before or during the above works the piling platform will be completed by others. This work will necessarily include Engineer designed backfilling of the basement of the adjoining building to the left both to provide a working area to carry out external works and to retain the edges of the piling platform such that the full advised 414kN/m^2 safe capacity of the piling platform is available for crane outriggers right up to the line of the rear wall of the Smithy.
10. A rebate 300mm deep and 8.5m x 8.5m is to be left in the top of the piling platform at the location where the building is to be temporarily relocated. We will construct an 8.0m x 8.0m x 250mm thick reinforced concrete slab in that rebate to provide a temporary foundation for the building. This foundation will be covered with the 50mm thickness of loose raked sand prior to the building being placed on it to allow the new foundation to bed down and avoid stress points.
11. A 1000 tonne Liebherr mobile crane will be set up on site to carry out a contract lift of the building to its new location making appropriate allowances for the calculated weight of the building, its new foundations and temporary works and the lifting tackle

i.e. the crane hook and the lifting frame the crane. The crane will have an excess capacity over and above the weight to be lifted of approximately 30%. The vertical cables from the lifting frame will be connected through the holes left in the corners of the timber plate at eaves level to the lifting eyes in the new concrete raft foundation and the building will be lifted and relocated on the temporary foundation not more than 27.5m from its existing location.

12. After completion of the move the crane will clear site and a temporary roof covering and whatever other protection are deemed necessary will be installed by other to protect the building during its time at the temporary location.
13. The return of the building to its original location will essentially be a reverse of the above procedure with the temporary works being removed once the return move is complete.