

1. Removal of soil,
 2. Refilling with appropriate fill materials and compacting to the approval of the Engineer,
 3. Reinstatement of ground finishes as originally existing (cement, tiles, etc.).
- C. For concrete areas which are not showing visual signs of deterioration, the Contractor, in addition to the scope of testing required by the Engineer, shall prepare witnessing points (i.e. removal of area of 100x100 mm) and to expose the rebar as directed by the Engineer, in order to check the soundness of this concrete and the condition of reinforcement steel.
- D. During the repairs, the Contractor shall provide the contraction and construction joints as necessary and as may be directed by the Engineer without any additional cost. These joints shall be sealed and shall be done and located in accordance with the ACI Standards or equivalent, and subject to the approval of the Engineer.
- E. Joint sealant shall be suitable for the intended use and in accordance with the ACI Standards, or equivalent. The Contractor shall only start the removal of concrete after acquiring the necessary approvals and temporary measures (scaffolding, propping, safe access, etc.).
- F. The Contractor shall not commence any step of the works without having obtained the approval of the Engineer for the previous step. As a guide, the following steps shall be approved by the Engineer:
1. Removal of soil, if required.
 2. Treatment of the rebar (sandblasting, additional rebar, etc.)
 3. Treatment of the backing.
 4. Build-up of the repair works.
 5. Application of surface coating.
 6. Any other required treatments.

13.3.7 Repair Systems

- A. The Contractor shall use the repair system for a certain concrete area as found suitable by the Engineer. For this purpose, one of the following repair systems shall be used:
1. Cementitious repair mortar with bonding agents.
 2. Shotcrete with special additives.