



Culkein Pier Repairs
Scale 1:200
All dimensions in mm

Section 1-5: Fix shutter to existing structure to raise deck level by 200mm. 200mm thick fibre reinforced concrete to deck with A393 fabric reinforcement with 75mm minimum cover and lapped 200mm. Drill and grout reinforcement bars into existing concrete @ 600mm centres and lapped with A393 fabric in overlay concrete. Cut inducement joint in finished deck concrete at existing joints and seal with flexible epoxy joint filler. Remove all marine and loose material from cracks in existing structure, prepare and repoint with Fosroc Renderoc GP or other quality repair mortar. Fix 250mm x 150mm vertical timber fenders @ 1200mm centres to section 5 only. Fenders to be fixed with galvanised L brackets. L Brackets to be fixed to existing structure with Hilti anchor bolts.

Section 6: Fix shutters sufficient to raise finished deck level (approx 600mm) to match gradient of sections 1-5. Approx 600mm thick fibre reinforced concrete to deck and new end section with A393 fabric reinforcement with 75mm minimum cover and lapped 200mm as detailed in elevation above. Drill and grout reinforcement bars into existing concrete @ 600mm centres and lapped with A393 fabric. Reinforcement bars in vertical faces of existing structure may require to be fixed with injectable epoxy mortar. NB: If smooth rock is encountered at new end section of pier reinforcement bars should be drilled and grouted into rock @ 400crs and lapped with vertical A393 fabric. Seal cracks and fix timber fenders as detailed in sections 1-5.

Ramp: Make good ramp to reflect raised deck level of pier.
 Galvanised steel access ladder to be fixed in section 5 at location dictated by client.