

Reference drawings 17449-101 and 110

- Clear proposed working areas (by others)
- Erect dust proof screens at ground floor and first floor level
- Provide protection to ground floor and first floor fireplaces.
- HOLD POINT - Carry out supplementary investigation works as noted on permanent and temporary works drawings.
- Remove door and opening joinery to expose opening timber lintel and frame at first floor gallery entrance. Investigate lintel bearing position on longitudinal wall.
- Carefully remove ground floor stud wall and joinery and store for replacement.
- Remove ground floor joists and floorboards in work area and set aside.
- Remove first floor access steps between hall and Gallery.
- Diamond core 250mm dia holes through existing gallery wall and in external wall.
- this time.
- HOLD POINT - Review findings from core drilling on condition of existing masonry
- Reposition existing temporary props to suit propose temporary works. Props located to allow cutting out of centre section of beam.
- Install micropiles and construct pile caps.
- Install grillage beams and clamp using drilled resin anchor fixings to pile caps
- Erect lower section of temporary propping and work platform. It may be necessary to load main new beams on work platform at this time. Raking props can be omitted at
- Complete support temporary propping and install needle beams.
- Depending on findings from coring install temporary scaffold support to wall from top of needle beams.
- Install support to 1st floor gallery opening lintel will depend on findings from lintel investigation.
- Prepare and place dry lean mortar packing between top flange of needle beams and existing masonry, Use a rapid hardening cement for early strength gain.
- HOLD POINT – Allow mortar to gain design strength before transferring load.
- Install raking props to system props.
- Wind up props to preload beams and foundations.
- Carefully break out masonry between the existing timber beams and needles over full beam length. Set aside for reuse. **NO MATERIAL TO BE STORED ON EXISTING FLOORS OR WORK PLATFORM UNLESS AGREED WITH ENGINEER.**
- Cut out centre section of main timber beams to be replaced and withdraw ends from existing masonry.
- Locally cut out masonry at pad locations. Form pads insitu.
- Allow concrete to gain design strength.
- Install concrete lintels and dry pack to underside of masonry.
- Install main UC beams. Needle beams and props have sufficient capacity to support runway beams chain hoists. Splice joint likely to be required on beams to facilitate handling and installation. Splice connection will require HSFG bolts to prevent significant deflection in beam due to rotation at joint when load transferred back to beam from temporary support.
- Ensure HSFG bolts torqued to required level.
- Construct bonded masonry from new beams to underside approximate level of needle beams.

- Dry pack between masonry and existing stone masonry.
- HOLD POINT - Allow dry pack mortar to develop required design strength.
- Lower props to transfer load to new beams.
- Remove needles and props to allow connection of gallery floor timbers to new beam and masonry and installation of replacement joists for first floor in annex.
- Replace floorboards Architect to confirm requirements.
- Make good cored holes and any areas of masonry damaged displace during works
- Stitch existing cracks and make good any cracking in plaster.