

Broad Terraces, Knutsford Foundation Design

Project Description Sheet

Location

Knutsford, Cheshire

Client

Mr & Mrs M Boulton

Completed

Ongoing

Key Project Elements

Structural Survey
Ground Investigation
Foundation Design
Underpinning



PSA Design were commissioned to assess likely structural issues to the proposed refurbishment of a listed Italian Mansion House in Knutsford, Cheshire.

The site was investigated for geotechnical properties of the ground using hand dug pits and a window sampler drilling rig due to restricted and difficult access to aid foundation design.

The architect's proposals involved removing chimney stacks, revising internal wall layouts and reducing the level of the ground floor to allow further headroom.

The revisions created a significant increase in loadings to the existing foundations that required a design input for the structural enhancement of the shallow strip footings, originally founded on a medium dense sand.

Our advisory work involved geotechnical interpretation, structural assessments, specification and supervision of the underpinning tender and project management role.

PSA Design provided design services for the site including geotechnical, structural and foundation for the refurbishment works.