

STRUCTURAL ENGINEERING

PRE-PLANNING



Survey and Inspections of all structures including:-

- Residential Properties (Private, Social and Student)
- Industrial, Commercial, Retail and Leisure Properties
- Schools/Universities
- Care Homes
- Historic Buildings
- Bridge Structures
- Retaining Walls
- Temporary Structures

Preliminary Structural Design Appraisals at Feasibility/Conceptual Design Stage Including:

- Foundations
- Substructure
- Superstructure format
- Sizing of structural elements and structural zone requirements.

Value Engineering Input to Support a Financial Viability Appraisal.

POST-PLANNING

Detailed structural design of foundations including:

- Strip/Trench-fill Foundations.
- Pad Foundations.
- Raft Foundations.
- Piled Foundations incl. Pile Caps and Ground Beams.

Structural input into Ground Improvement Solutions such as Vibro Stone Columns, Grouting, Lime Stabilization Works, Earthworks Compaction/Surcharge etc.

Detailed Structural Design of Ground Floor Construction including:-

- Ground Bearing Concrete Slabs.
- Suspended Concrete Slabs.

Detailed Structural Design of Sub Structure

Detailed Structural Design of Superstructure including:-

- Steel Frame.
- Reinforced Concrete Frame.
- Lightweight Frame Systems.
- Precast Concrete Frame.
- Masonry Construction.
- Timber Frame.
- Podium Slabs incl. Steel and Reinforced Concrete.
- Structural Supporting System for Modular Construction.

Design of Structural Repairs.

Design of Retaining Structures.

Full Drawing Service including BIM compliance.

Structural Engineering Technical Support to Construction Teams incl. Site Visits/Inspections.