

## Client

Laing O'Rourke

## Background

This package was developed for the U.K. firm Laing O'Rourke dealing into construction business.

## Mission

Automatic sizing (design) of optimized concrete column, creation of 3D models

## Scope of Work

The following are the deliverables:

- 3D Model of the column
- 3D Views of R/F caging
- 2D Construction drawings
- Bill of Materials including bar-bending schedules
- Cost per column
- Design Calculations (optional)

## **Adroitec Solution**

Automatic sizing (design) of optimized concrete column, creation of 3D model including reinforcement caging, automatic creation of construction drawings, Bill of Materials, Bar bending schedules, cost etc. The inputs to the package are basic parameters like loads, available steel (R/F) bars, Unit Costs, etc. The package performs the design as per B.S. standards and optimizes the values.

## **Value addition**

Automatic sizing (design)

## **Business Impact/ Benefits to client**

Reduction in design time