## C Barhale

# **Charing Station Footbridge**

Client:	Network Rail Kent Route
Location:	Charing, Kent
Value:	£900k









Barhale, Barhale House, Bescot Crescent, Walsall, West Midlands WS1 4NN www.barhale.co.uk Safety | Communication | Quality | Integrity | Team*Spirit* | Caring | Trust | Pride

### In Brief...

To introduce cost saving effiencies within their own organistation, Network Rail engaged Barhale through the NR route team as part of the Kent Route Project DIME, rather than using the traditional NR Infrastructure Projects route. This was the first time that this project management route had been implemented.

The scope of the project was to construct a new steel footbridge within Charing Station to replace a life expired Exmouth type structure; the scope included its demolition/ removal following the successful installation of the new bridge.

Design and build project from GRIP stage 3 to 8 and involved gaining planning approval for the repositioning of the new bridge from the district council. Working closely with our designers Tony Gee & Partners the design we developed to incorporate BCS fabrication's extensive experience of fabricating steel footbridges for Network Rail.

The new bridge was scheduled to be installed and the existing concrete structure dismantled during a 57 hour OROR possession 21st to 22nd September 2013. This date was successfully met.

#### **Customer Benefits...**

- New footbridge re-sited close to the station entrance
- DDA compliant & provision made for the future installation of lifts
- Great customer service Barhale recognised that the scheme had the potential to cause inconvenience to the travelling public at this important commuter station. This was avoided through close liaison with the station's management and the TOC
- Time and disruption on site reduced by the use of an innovative piling technique
- Successful delivery delivered to a tight programme and within budget constraints

### **Technical Features...**

New bridge structure manufactured in house by BCS fabrications. Design modelled using 3D Solid Works software to enable efficient manufacture.

By using Helical piles as foundations, we removed the need for extensive excavations, the removal of waste material and negated the need for reinforced concrete works within the working station. This reduced time on site prior to the installation possession by half.

