ANCHOR POSTS

Project Report



P107 Concrete Cable Post Replacement Cat 4 Metropolitan/ District/ Central Lines

Client: London Underground Limited

Main Contractor: Skanska

Sub-Contractor: Arbourtech Services Limited Supplier: ASIL/SPCM/Lineworx

Supply: 906 Cat 4 posts on the Metropolitan Line, 531 on the

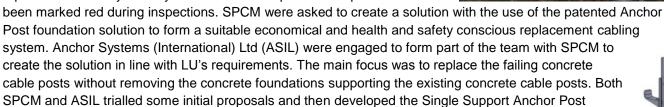
District Line and 851 on the Central Line

Location: Open Track Section – Various Locations

Date: January - July 2015

Requirement

London Underground has been working with SPCM to update the trackside assets for the current cable carrying network. There has been a number of existing concrete cable posts that have been identified as requiring replacement as they are beyond economical repair. These posts have



(SSAP) solution that has now been adopted as the solution of choice for replacements to the failed concrete cable posts.



Solution

ASIL redeveloped the Anchor Post solution to form a maintenance Anchor Post solution to accommodate the complex method of installation. The Anchor Post was redeveloped into two parts to allow for ease of installation/insertion between existing concrete cable posts as well as insertion into existing concomitant routes to increase cable carrying capacity. SPCM aided in the creation of the installation methodology to accommodate the retrofit technology. A number of stringent checks and measures have been built into the installation methodology to assure the retrofit is robust and able to assume a design life of 50 years. On some of the cable routes the concrete posts have been left in position reinforced with SSAP on either side of the failing concrete posts. It is anticipated that when the existing cable post fails the SSAP will naturally take over the

loading of the cables. In other positions the existing cable posts have been removed and the SSAP fully installed to take full loading of the existing cables. A significant number of concrete cable posts have been removed from circulation as a result of this retrofit technology and significant savings have been achieved as a result of the Anchor Post technology and the minimal works required on site from its use.





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