



MORGAN
SINDALL

HARPENDEN STATION

CLIENT: MORGAN SINDALL
LOCATION: HARPENDEN, HERTFORDSHIRE
PROJECT TYPE: BUILDING SERVICES

THE WORKS CARRIED OUT AT HARPENDEN STATION FORMS PART OF NETWORK RAIL'S £370 MILLION 'ACCESS FOR ALL' STRATEGY TO IMPLEMENT ACCESSIBILITY ENHANCEMENTS AT OVER 200 STATIONS ACROSS THE UK. HARPENDEN STATION IS LOCATED ON THE LONDON TO BEDFORD LINE BETWEEN ST ALBANS AND LUTON AIRPORT PARKWAY.





RAIL INDUSTRY

THE HARPENDEN STATION PROJECT IS AN 'AFA' SCHEME COMPRISING OF NEW HYDRAULIC LIFTS SERVING PLATFORMS 1 TO 4 AND THE FOOTBRIDGE FOR NETWORK RAIL & FIRST CAPITAL CONNECT. KEMADA'S ELECTRICAL PACKAGE INCLUDED NEW DISTRIBUTION, FOOTBRIDGE LED LIGHTING, LIFT ELECTRICAL SERVICES, CCTV, PUBLIC ADDRESS AND CUSTOMER INFORMATION SCREENS.

THE ISSUE

The existing station comprised of four platforms with only one footbridge for access to the platforms for walking passengers. The original footbridge was in need of replacement and customer lifts to each platform were essential for the elderly, disabled, parents with children and passengers with heavy luggage.

The station's incoming electrical supply was not sufficient to accommodate three new lift supplies and required upgrading with the addition of new switchgear and distribution equipment.

Poor lighting and security on the existing footbridge and surrounding areas were not to Network Rail standards and major upgrades were required.

THE SOLUTION

The existing electrical supply and service main were upgraded by the Distribution Network Operator (DNO) to accommodate the additional requirements associated with the installation of the three hydraulic passenger lifts. Modifications to allow for the new footbridge and re-configuration of the existing lighting and power distribution were also undertaken.

From the UKPN meter cabinet, new sub-main cables have been installed within underground cable ducting and terminate within the new platform 4 electrical switch room.

New modular switchgear and distribution boards were installed for the stations existing sub-main supplies, with lighting and power services installed to the new footbridge, access stairways and further sub-main power supplies feeding the three hydraulic passenger lifts.

New column mounted luminaries were provided to all four platforms areas affected by the construction of the new footbridge. State of the art LED lighting and emergency lighting was also installed to the new footbridge and access stairways leading to each platform. Lighting and power were installed to the three lift motor rooms and lift shafts.

New lighting, emergency lighting, power and heating, CMS for CCTV/PA and ticket machines have been installed in the new revenue protection building on platform 1.

Additional security for Network Rail staff and passengers was provided with new CCTV Cameras installed on all four platforms, footbridge and stairways. New recording equipment was installed into a new communications room & the existing equipment was repositioned.

New Customer Information Screens (CIS) have been installed within the footbridge walkways to assist passengers and provide them with continuously updated travel information.

THE OUTCOME

The installation carried out by Kemada's site workforce was carried out to a very high standard with the final inspection carried out by First Capital Connect and Network Rail being defects free. This high profile project was delivered on time and to budget meeting all expectations required of the client, end user and of course the general public.

Paul Meenan, Building Facilities & M&E Asset Engineer for First Capital Connect was delighted with the project and commented;

“ These look great, may I take this opportunity to thank you and your team for helping FCC achieve our goals for better and more efficient lighting and by being the first contractor to install LED fittings on any of our routes (TL and GN). Hopefully this will finally encourage the use of LED at all NR projects. Well done Kemada. I have copied in the Senior M&E Route Asset Manager, Paul Hearn. Paul please note these guys have done a cracking job on the lighting install, I hope this will encourage more use of LED across the route from NRs' perspective.”