



I.E.D. Group

**Committed to
Service**

LIVERPOOL HEART AND CHEST NHS TRUST

- **Project Value: £175,000**
- **Project Type: Site Upgrade**
- **Project Aim: Electrical & Building Upgrade**
- **Project Completion: November 2025**

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Liverpool Heart and Chest have been operating out of a building (Hawthorne Suite) that they had acquired from Broadgreen Hospital. However, the electricity supply was still being fed from the Broadgreen hospital distribution system, hence charges for electricity were being charged to the wrong trust. Hawthorne Suite, Liverpool Heart and Chest Hospital Thomas Drive, Liverpool L14 3PE.

On this project we were asked to run in two new supplies from the Liverpool Heart and Chest substation to the Hawthorne suite to a new panel board via a changeover switch in readiness to swap all existing distribution boards over to the new feeds and all associated civils works to dig the trenches locally protect the cables with Hep Tape and Brick tiles to backfill and finish.

ID Group Disciplines:-

IED Installations Group followed the Sigma technical specification to install some new distribution boards in position and re-use some distribution boards and migrate them all to the new supply seamlessly over one planned weekend.

The 2 x new supplies had to pass alongside the road involving new civils and ductwork then across a road used for emergency access. Then up onto the roof top and along over to where we had to finally connect the new supplies.

We coordinated with the estate teams and lead engineers to meticulously plan each step of the way to ensure a smooth switch over of supplies (which we achieved as we were asked what exactly have you been doing? On a number of occasions).

Our Coordinated works involved: -

- Working alongside the trust to get new power cables down the side of the road through parking bays (temp closures). Across the road and then over the building using new ladder racking as containment.
- Carried out all CAT Scanning to survey trench options, agree a trench route combined with the Trust proposed containment route and executed the works whilst the roads remained live at all times.
- Within the building itself we ran new supply cable to the existing and new distribution boards and connected them back to the new panel board located in the newly formed plant room.
- Then coordinated the cable gang and wiring of the new supplies, to complete all terminating and testing following a coordinated shutdown with the Trust SAP Safe Authorised Person.
- We consulted with the estates team to gain permission to connect up our new power supplies to the new panel board with all outgoing ways isolated.
- Over one carefully planned weekend in connection with the trust, IT, Security & Fire we arranged for the existing supply to be cut off whilst at the same time migrated the existing and new distribution boards over to the new supply.
- Upon completion all circuits were tested and new certification issued for the works carried out.

All work completed on program.

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