AMCO-GIFFEN

E&P Design Team Case Study

Chaddesden Curve Drivers Walkway Lighting

Scope of works

Design for all mechanical and electrical engineering work associated with two new drivers walkways both of which require low level lighting.



ELECTRICAL DISTRIBUTION

Electrical distribution survey of REB DC128M028: the location of which the new lighting derives its power



LIGHTING INSTALLATION

Lighting of the two new drivers walkways



INTEGRATION WORK

Integration of existing cable routes with new duct routing and draw pits



EFFICIENT SOLUTIONS

Provision of modern energy efficient fittings to achieve required lighting levels

Innovations applied







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End ClientNetwork RailPrincipal ContractorAmcoGiffen

Design Period 2019

Design Stage GRIP Stage 4 - 8

Specialist Software Dialux Evo, Bentley Hevacomp, Bentley OpenBuildings Designer



Benefits Provided



SUCCESSFUL COLLABORATION

Successful collaboration with between electrical and plant alongside civil design teams throughout the project particularly with regards to topographical surveys, handrails and lighting positions/fixings



LOW ENERGY SOLUTIONS

Low wattage LED lighting providing cost savings due to low energy consumption

Challenges

Due to the existing topography not extending to the outer walkway, AmcoGiffen based their designs on OS tiles combined with additional surveys capturing datum points for the entire walkway. This resulted in aligning the two together to progress the layout and lighting calculations.





