



BEAUTY CREATE THE WORLD

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ABSTRACT:

The main section of the ZhiCheng Yangtze river bridge is 1742 m steel beam bridge. By now, with the influence of the overhead catenary system, the steel bridge maintenance must be operated in cooperation with the power supply maintenance department at power-off maintenance gap. Considered the power-off maintenance gap is adjust to mid-night in the new railway operation plans, it is difficult to do the painting maintenance for the bridge, this leads to the lack of painting maintenance of the steel bridge. The ZhiCheng Yangtze river bridge is under threat of lost service life. In order to save the service life of the ZhiCheng Yangtze river bridge, a project with some new designs to improve the maintenance circumstance of the bridge must be carried out.

The comprehensive system research and design with new concepts of safety, low carbon footprint, economical efficiency, economy of the whole life cycle, is a new aesthetic concept of design in this new era. By application this new design aesthetics, a new level of comprehensive harmony of safety, function, cost, and carbon footprint and economy of the whole life cycle of Bridges can be achieved. This article will introduce the ZhiCheng Yangtze river bridge maintenance design project, to show this new design aesthetics. The bridge links our past and future. The human must be in harmony with nature, and will have a promising tomorrow.

KEYWORDS: Bridge, Aesthetic Concept, Design, Low Carbon Footprint, Maintainability



Fig1 the Zhaozhou bridge