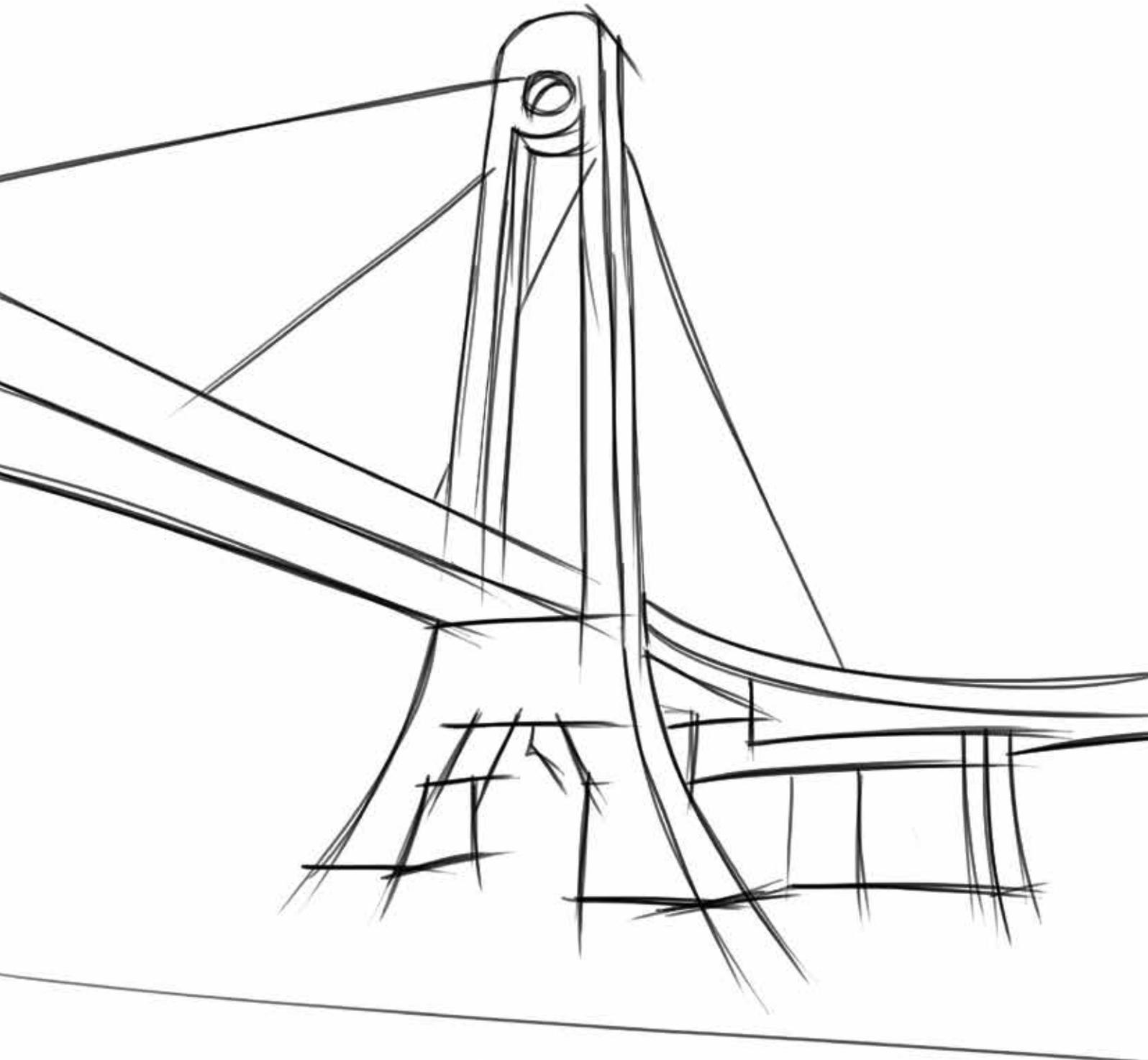




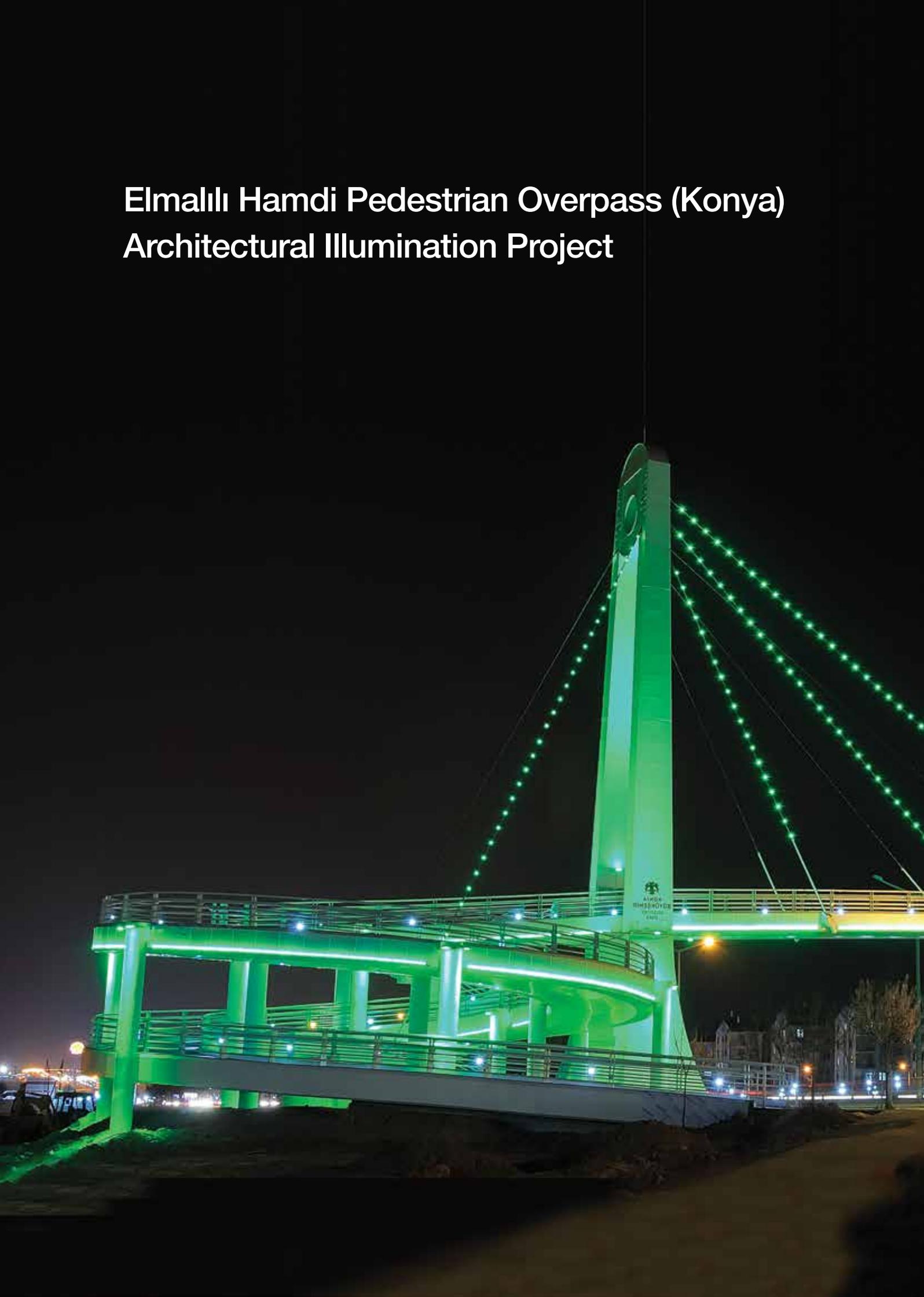
ELMALILI HAMDİ

Pedestrian Overpass Architectural Illumination Project



LUMIFASART Reference Project
Искусство фасадного освещения

Elmalı Hamdi Pedestrian Overpass (Konya) Architectural Illumination Project



Night illumination is an important factor which increases city life aesthetics. In this respect, outdoor areas and architectural elements which fulfill the needs of the city dwellers during the day need to be illuminated at night in order to contribute to the city life.

The illumination project of the Elmalılı Hamdi Overpass which is located within the Selçuklu district borders, on the Istanbul road, and in front of the Elmalılı Hamdi Yazır junction tramway stop is designed so that it is in harmony with the architectural project. Due to its location next to the bus and tramway stops the overpass is quite busy all the time. The purpose of the illumination of the overpass which plays an important role in the city transportation is to contribute to the night skyline of Konya and to give the overpass a striking appearance.





Concept Illumination Design

The illumination project started as an illumination design concept and information was given as to how the overpass illumination would look. Following this study the materials to be used for the illumination were chosen; the arrangement of the fixtures and their numbers were determined. Because LEDs have the ability to change colors, have saturated light colors, can be controlled and are energy efficient, RGB LED fixtures were used in all parts of the project. The RGB LED fixtures in the project can be controlled to give three main colors which are red, green, and blue.



In order to determine the accurate overpass lighting solution, demonstration with the lighting fixtures was carried out on overpass. Descent from and ascend to the overpass will be realized with the stairs located on either side of the road and with the spiral ramps for the disabled. These two spiral ramps and the walkway following them are illuminated with the outline illumination technique using 100cm EAE RGB Ledbar products which can be connected end to end. In this way a continuous line was formed on the outside facet of the walkway, thus emphasizing the geometry of the overpass. Each of the spiral ramps of the overpass are carried by a total of 12 columns, six on the inside and six on the outside. These columns are assembled starting from the upper side going down and they are illuminated with 30W RGB Prolit Compact projectors.



Illumination of the Walkway

The illumination of the Elmallı Hamdi pedestrian overpass has contributed a lot to the night appearance of the city and thus has made the overpass attractive for the pedestrians. It has also increased road and pedestrian security and at the same time actualized a considerable amount of energy conservation.



Illumination Details

The main bearing columns of the overpass have been made totally visible by using RGB Prolit Compact products which have been directed up and down on all 4 sides. The bearing rope system of the overpass has a certain characteristic and rhythm. This has made it possible to illuminate properly the tension bars and hanger rods thus making it possible to reveal easily the geometrical shape of the bridge. The bearing ropes from the main columns to the walkway are illuminated with 590 RGB LED modules arranged 70 cm apart. The LED modules are mounted on the ropes so that they will look outside on both sides of the road.

Direct visibility illumination is achieved with the LED modules which are mounted facing the drivers. For the illumination of the walkway of the overpass 280 pieces of 3W LED fixtures embedded in the wall and with a light color of 4000 Kelvin are arranged on the right and left parapets with 4 meter intervals.



PROJECT IDENTITY

- Employer** : Konya Metropolitan Municipality
- Architectural Group** : Sütüçen Mimarlık
(Sütüçen Architecture)
- Illumination Design** : Sümayra Gün/EAE Illumination
- Products Implemented** : EAE RGB Prolit Compact
LED Projector
EAE RGB Ledbar,
EAE RGB LED Module
EAE Wato 3W LED embedded in the wall
EAE Control Systems.



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