End Client	**City of Knoxville, TN**
Scope of Work	Retrofit 190 Custom Bollards with 60W RGBW Smart Lamps Replace Pylon Floods with 30 600W RGBW Smart Flood Lights All lighting controlled on one platform by Casambi BLE technology
Project Timeline	September 2024 - September 2025
Existing Product	Integrated Custom Lamps / Flood Lights - Fixtures over 10 yrs old
Replacement Product	LLC-RGBW-CL / GC-RGBW-FL
Case Study Notes	• Performed initial assessment, consultation and recommendations for best value lighting and control system to City of Knoxville • Smart Lamps provided with custom mogal mounting plates, redesigned to prevent submersion of wiring assemby that occurred due to original design • City of Knoxville offers public lighting requests for a nominal fee which has engaged the community and raised awareness • Coordination of lighting with University of Tennesse during sporting events has brought national attention

Henley Bridge Lighting Retrofit

The Henley Bridge retrofit began in September 2024, when the City of Knoxville used LLC-RGBW-BLE 60W Smart Lamps to replace a total of 192 integrated bollard LEDs used in the previous DMX lighting system, which was over 10 years old. City maintenance personnel cleaned, refurbished and replaced the LED component using custom mounting plates as time allowed.

In the fall of 2025, the City replaced the lighting under the bridge with 30 600W GC-RGBW Flood lights. Over 220 lights are operated on a single wi-fi gateway for this project with 6 extenders used, positioned on the pylons for signal viability. Each fixture on the upper and underside of the bridge is individually addressable and controlled through the Casambi app, allowing precise control of color, intensity, and programming across the entire installation.









Meet the City Engineering Technician Who Helped Bring Decorative Lighting Back to Henley Bridge

Installing the lights required some gritty persistence by the Engineering Department's Signal Shop. The team donned safety harnesses and climbed from boats onto bridge ladders to replace the old fixtures, change out fuses and pull out what seemed like miles of old wiring over the course of two weeks.

Decorative Lights Return to Henley Bridge

"We're excited to have found a cost-effective solution that will again allow us to program the bridge lights in almost any color combinations to celebrate local festivals, public events and causes that Knoxvillians hold near and dear to their hearts.

This is something we've been wanting to do for some time. It's now more reliable and affordable due to new technology that wasn't available in 2018, when the original lights stopped working. Not only are the new LED smart lamp bulbs state of the art, but they are one-tenth the cost of the old lighting systems – and we're buying from a local company."

~Knoxville Mayor, Indya Kincannon



Henley Bridge Shines Brightest, Boldest Orange Yet



On Friday, Sept. 12, 2025 - with ESPN's "College GameDay" crew arriving in town for Saturday's Vols-Dawgs showdown - the Henley Bridge debuted its all-time orange-iest best.

"It's meaningful to local nonprofits and event organizers," Vreeland says. "If you've given your heart and soul into organizing a festival, or raising money or awareness for a local cause, it's great to see the bridge lights commemorating your event. It says to people: 'The City cares about us and is helping us as we try to make a difference.'"

~Knoxville Deputy Communications Director, Eric Vreeland

