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THE INDUSTRY TRADE MAGAZINE FOR COMMERCIAL LANDSCAPE SPECIFIERS NATIONWIDE!

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Iconic Structures and Animated Lighting

Prove Infrastructure Need Not Be Humdrum

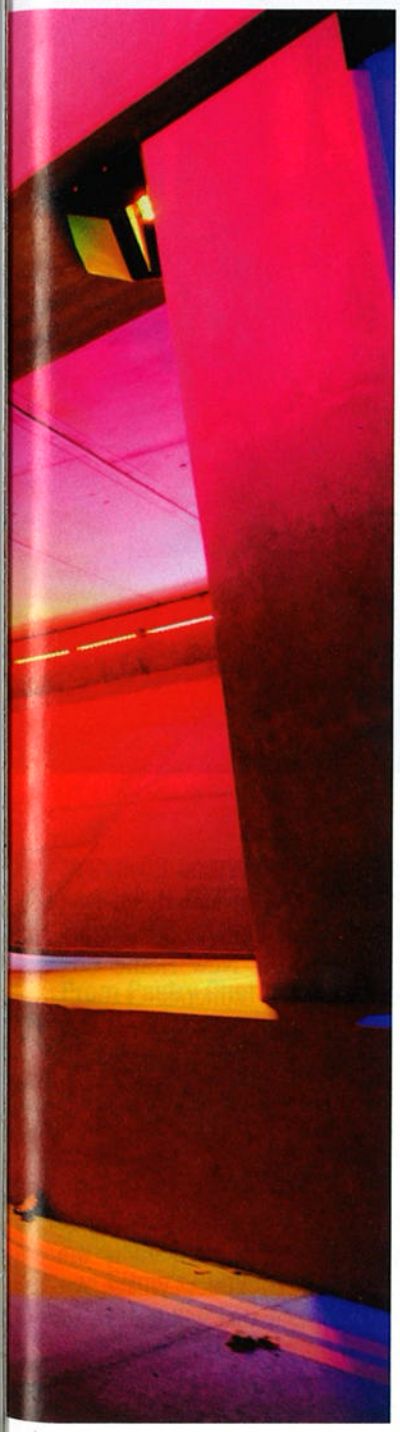
by Editor Steve Kelly

This feature presents three colorful examples of new infrastructure that goes beyond the purely functional to engage their communities with eye-catching elements and animated lighting.

Left: The "Luminous Passage" at McKinley Village Way Underpass in Sacramento is the starting point for the McKinley Village Art Walk, a collaborative effort of the McKinley Village development team and the Sacramento Metropolitan Arts Commission. It will ultimately feature 10 art installations by local artists throughout the neighborhood.

Top Right: The new pedestrian/cycling bridge in Irvine, Calif., unifies several new family-oriented neighborhoods and connects to the city's extensive trails. The team strove to elevate the crossing experience with a series of steel paneled gateways illuminated by LED fixtures and programed by DMX controllers.

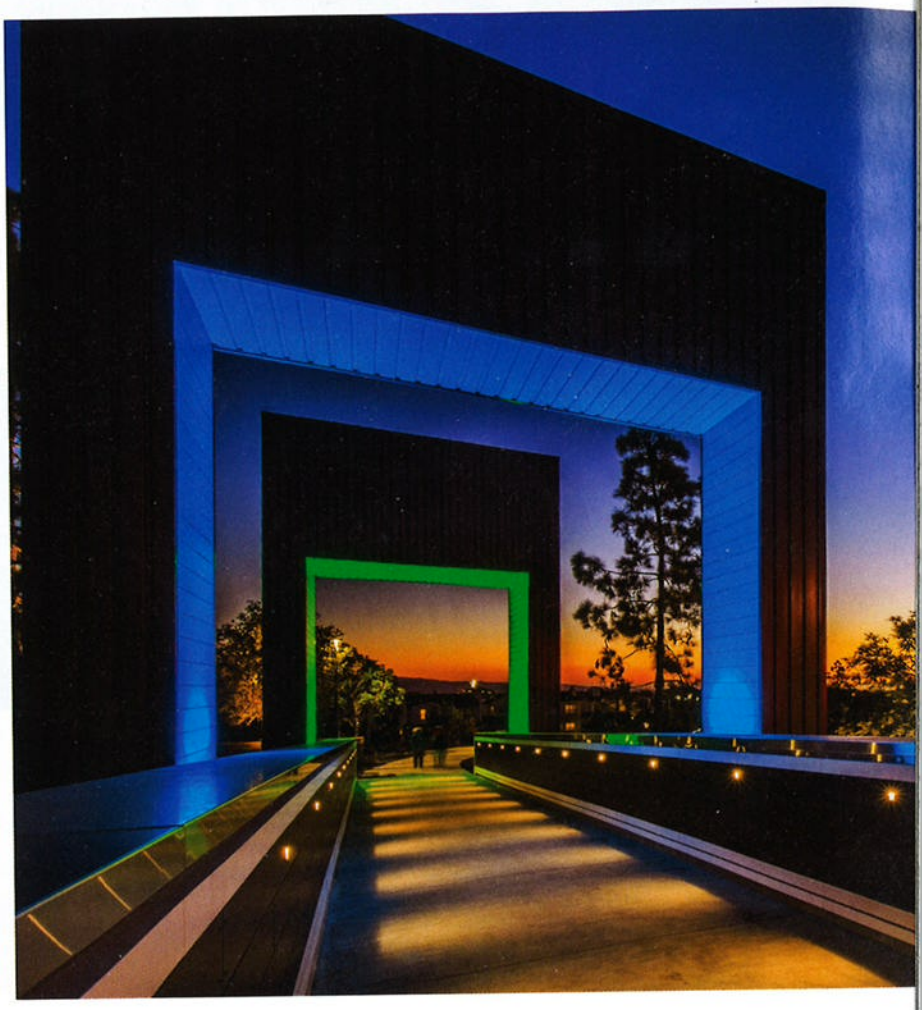
Bottom Right: The State Street Urban Trail project celebrates the long overdue capital investment to rejuvenate the dreary old bridge over Haw Creek into a pedestrian-friendly, multimodal route. This is the entrance into East Columbus, Indiana, a neglected and disconnected industrial section of the city, setting the stage for a more vital industrial corridor and neighborhood revitalization.



Irvine, Calif.

Pedestrian/Cycling Bridge

Lighting Design by StudioK1 | Landscape Architecture by BrightView Design Group & Clark and Green



Above: Steel paneled columns created a series of gateways on the Irvine, Calif., pedestrian/bike bridge. Hidden linear LED RGBW fixtures are mounted on the gateways below the guardrails to wash the interior walls of the gateways with colored lights. The top left image is the view to the south; the lower left image is the view to the north.

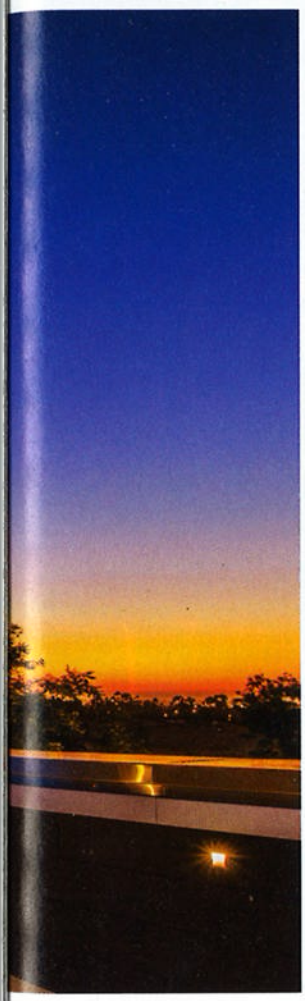
Middle: Small square step lights regularly spaced within the wood paneling of the bridge's guardrails cast light on the walking surface for additional safety for pedestrian and bicycle travelers.

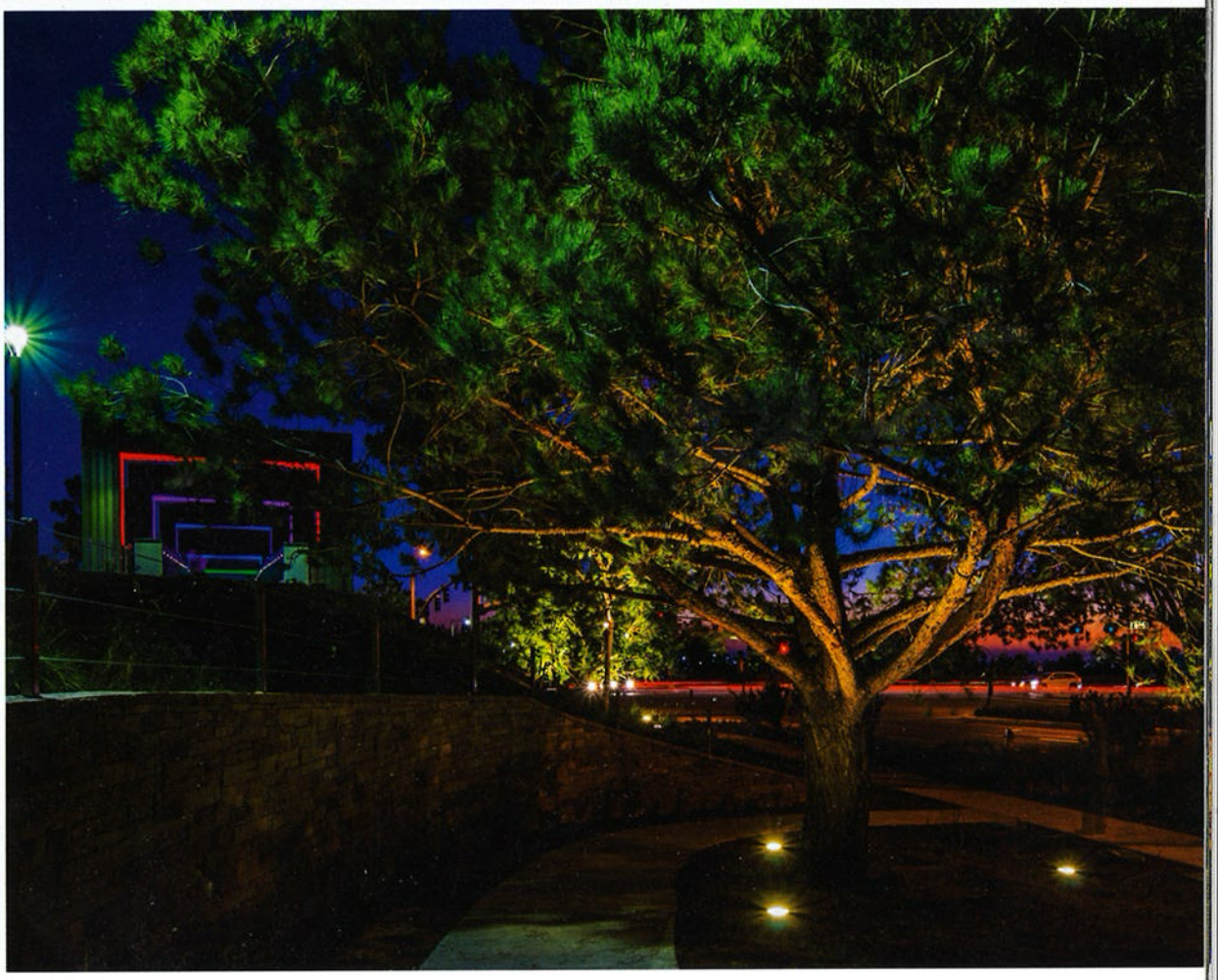
To unify several new family-oriented neighborhoods and connect an extensive trail system in Irvine, Calif., a pedestrian/cycling bridge was developed to span a major boulevard that divides the developments. Breaking from the tradition of classic train-style bridges used elsewhere in the city, the team strove to create an iconic element that would inspire awe visually while making the overcrossing experience more exciting.

Hidden linear LED RGBW fixtures by Lumenpulse wash the inside of each structure with colored light. Full color changing fixtures provides infinite flexibility for the appearance across the bridge, using DMX controllers. The team decided to keep things simple, however, and not regularly change color, rather, choosing impactful colors, changing them only for holiday and special events.

Enhancing the main structural elements o a bridge, a series of gateways were created b steel paneled columns. The gateways increase i stature to build excitement as users travel towar the center of the development and the expansiv sporting complex at its core.

Lighting the interior of the metal structure without visible lighting fixtures showin provided a challenge to the team, as well as study in the nature of lighting. Initial design featured a recessed product between the bridg guardrail and the interior face of the gateway. A constructability and cost came into perspectiv the available space was reduced, requiring th





fixtures to be relocated to prevent hard shadows from the guardrail on the overhead surface. Many view studies and calculations were performed to determine the final mounting location.

Eventually, the fixtures were mounted on the gateway below the guardrail and hidden from view. Calculations were used to experiment with fixture optical packages to get the most uniform lighting, vertically, horizontally and within the gateway.

All of this visual interest was balanced by the city of Irvine's strict safety standards for outdoor lighting. The system was mocked up to full scale to ensure that all of the components would meet the vision of the owner, FivePoint. Small square step lights (Lucifer Lighting) are regularly spaced within the wood paneling of the bridge's guardrail to cast light on the walking surface. Walkway lighting on either side of the bridge was provided by Philips Lumec 'UrbanScape' poles. Lithonia floodlights wash the outside facades of the gateways. Lumascape in-grade fixtures and HeviLite landscape bullets uplight the adjacent specimen trees.

With a simple, elegant lighting scheme, the new neighborhoods have an iconic element that promotes walking and bicycling, encouraging healthy, active families.

Project Team
Owner/Developer: FivePoint
Lighting Designer: StudioK1
Landscape Architect: BrightView Design Group/Clark and Green
Architect: Ware Malcomb
Electrical Engineer: tk1sc
General Contractor: Powell Constructors, Inc.
Electrical Contractor: Hunsaker & Associates Irvine, Inc.

Above: The large specimen evergreen trees are up lit with ingrade fixtures and landscape bullet lights, which give the landscape a presence without producing unwanted lighting distractions for drivers on the nearby roadway. Walkway lighting on either side of the bridge was provided 'UrbanScape' poles.