

RIYADH'S SPORTS BOULEVARD

CASE STUDY

Powering Sustainability Through Innovation

THE SPORTS BOULEVARD PROJECT

ABOUT SPORTS BOULEVARD

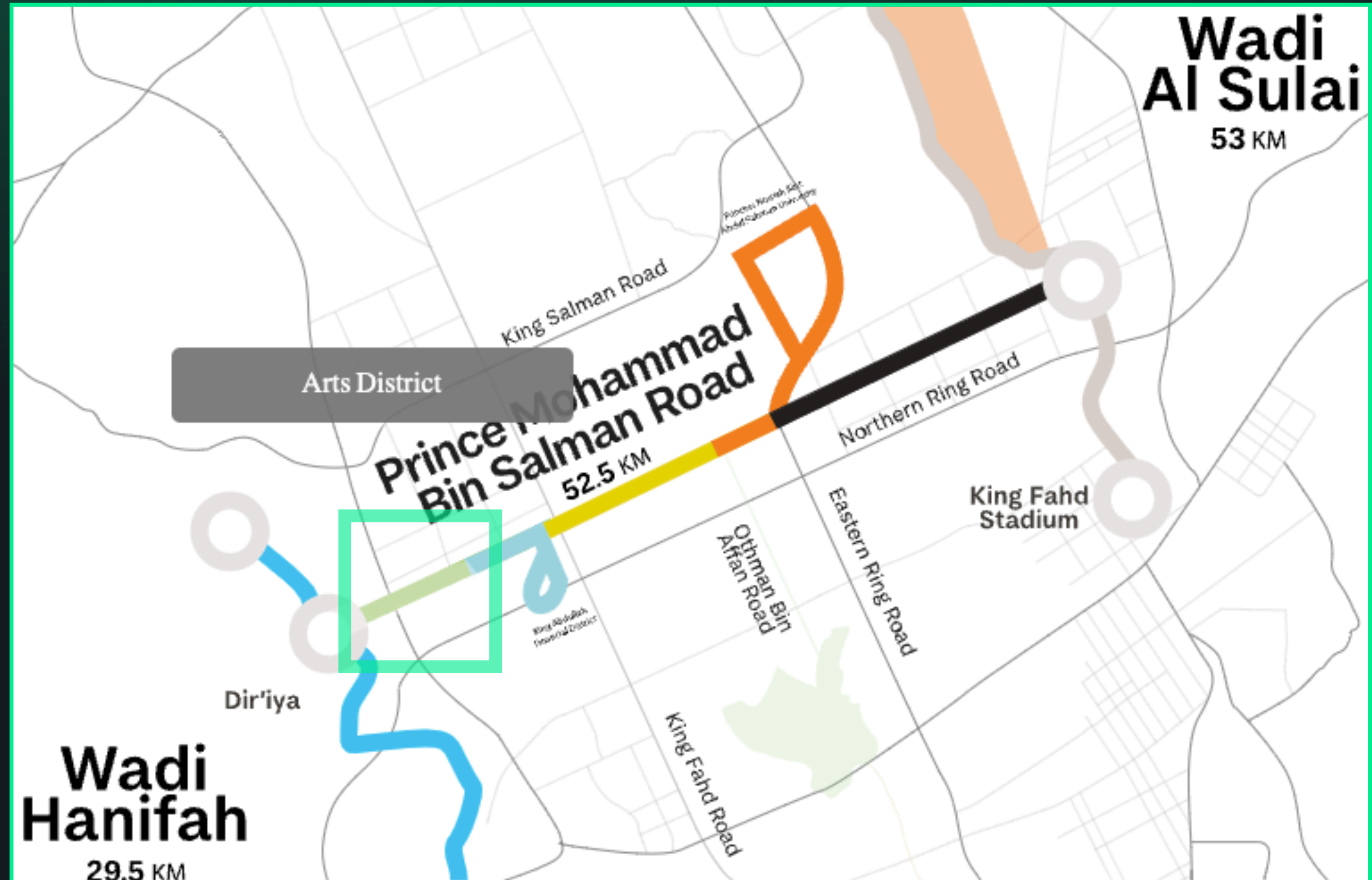
The Sports Boulevard, a transformative development in Riyadh, is one of the largest urban projects in the world, designed to promote health, well-being, and innovation. Stretching across the city, the project features dedicated pedestrian pathways, cycling routes, and cultural districts to foster sustainable urban mobility.

SIGNIFICANCE

This project aligns with Saudi Arabia's Vision 2030 by delivering a sustainable and innovative solution for energy generation while engaging users with an interactive experience.

LOCATION OF INSTALLATION

The Pavegen installation is located in the Arts District of the Sports Boulevard, specifically on two elevated walkway bridges.



ROLE AND DESIGN

PROJECT OVERVIEW

- **Partnership:** MOU signed with the Sports Boulevard Foundation in February 2023.
- **Collaborators:** Kohn & Partners, Parsons, IDOM, and Freyssinet.
- **Scope:** Installation of 5 separate arrays of tiles spanning 75 square metres.
- **Purpose:** To generate clean, off-grid energy to power LED lights embedded in handrails alongside the tiles.

KEY FEATURES

- **Technology:** Energy harvested from footsteps is converted to power LED lighting.
- **User Engagement:** A visible demonstration of renewable energy in action.
- **Design Focus:** Aesthetics and functionality to enhance the urban experience.



PROJECT DELIVERY

TIMELINE

- **Installation Period:** 25th November – 13th December 2024.
- **Launch Date:** December 2024

PROJECT VALUE

- Over half a million pounds, this investment highlights a significant commitment to sustainable innovation and smart infrastructure.

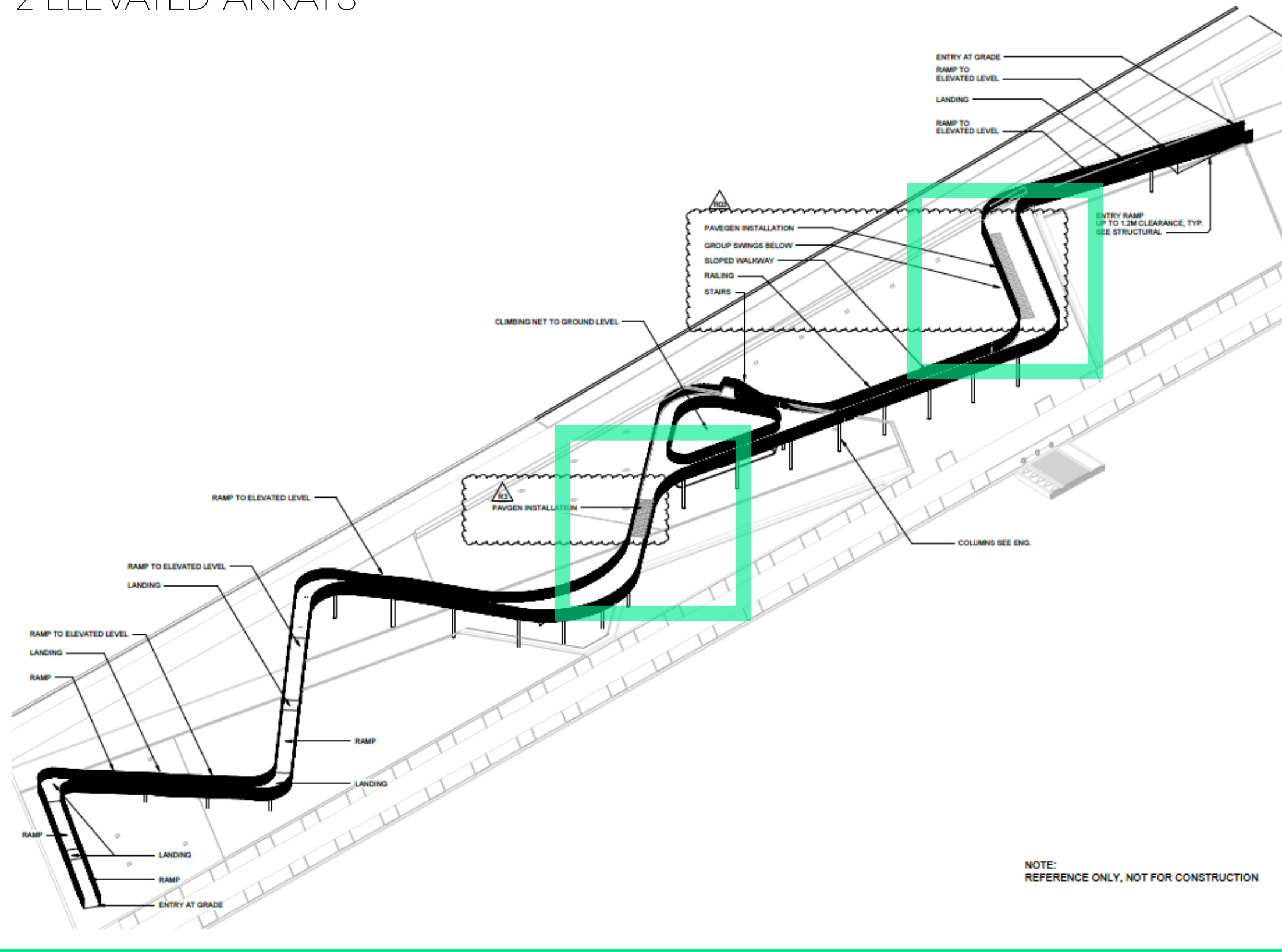
EXECUTION

- The project was delivered ahead of schedule, showcasing commitment to excellence.

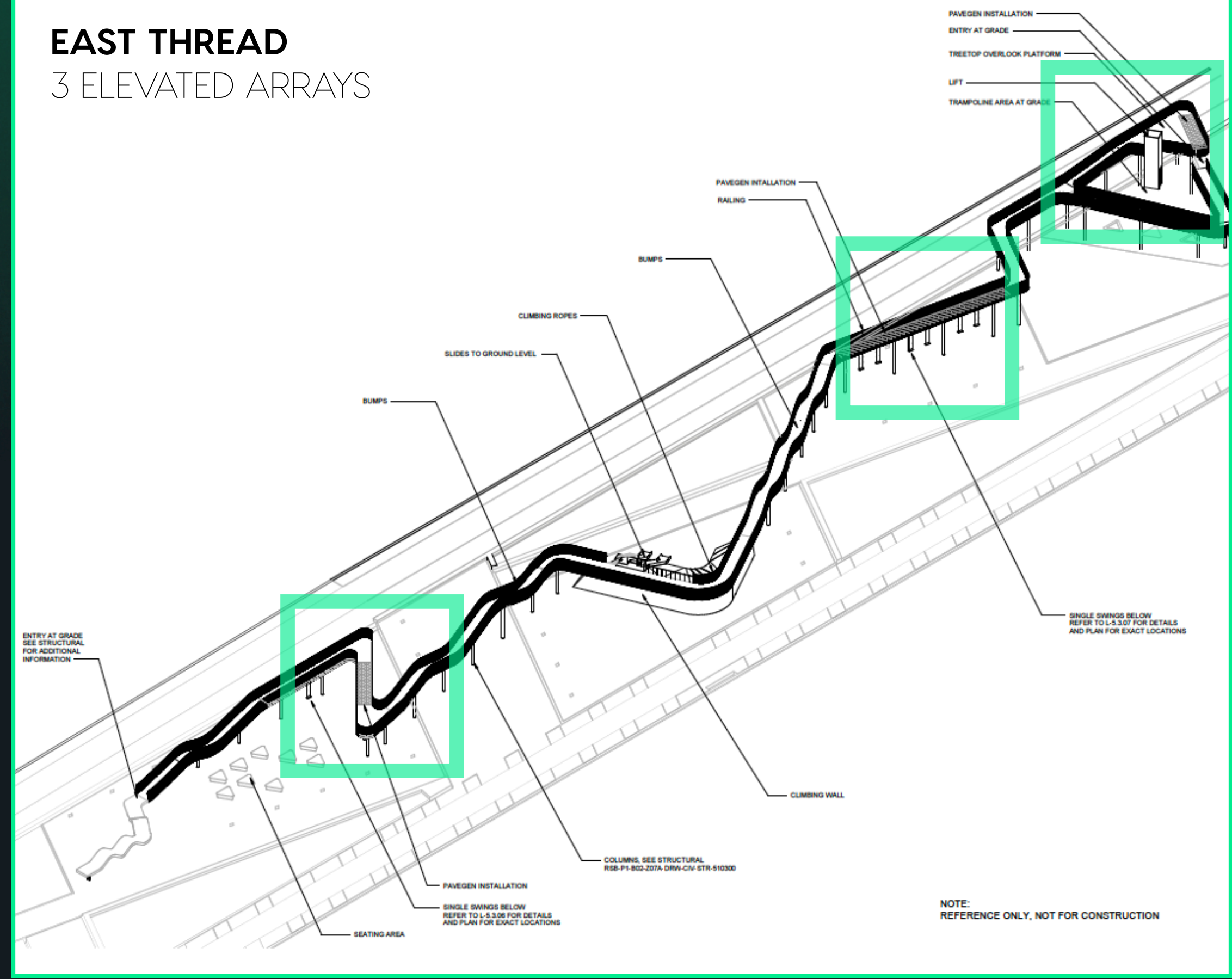


LOCATIONS

WEST THREAD 2 ELEVATED ARRAYS



EAST THREAD 3 ELEVATED ARRAYS



THE ARRAYS

ARRAY SIZES AND LOCATIONS

- Array A (West Thread):
4.9m x 1.4m
- Array B (West Thread):
13.6m x 1.4m
- Array C (East Thread):
7.1m x 1.4m
- Array D (East Thread):
19.8m x 1.4m
- Array E (East Thread):
5.9m x 1.4m

THE FIVE ARRAYS USE THE LATEST V3.7 TECHNOLOGY

- Simplified Installation
- Energy Generation
- Real-Time Data
- Durable and Quiet
- New Tile Colour
- Scalable Design



IMPACT AND INNOVATION

SUSTAINABILITY

The arrays demonstrate how everyday human activity can help power essential infrastructure.

USER EXPERIENCE

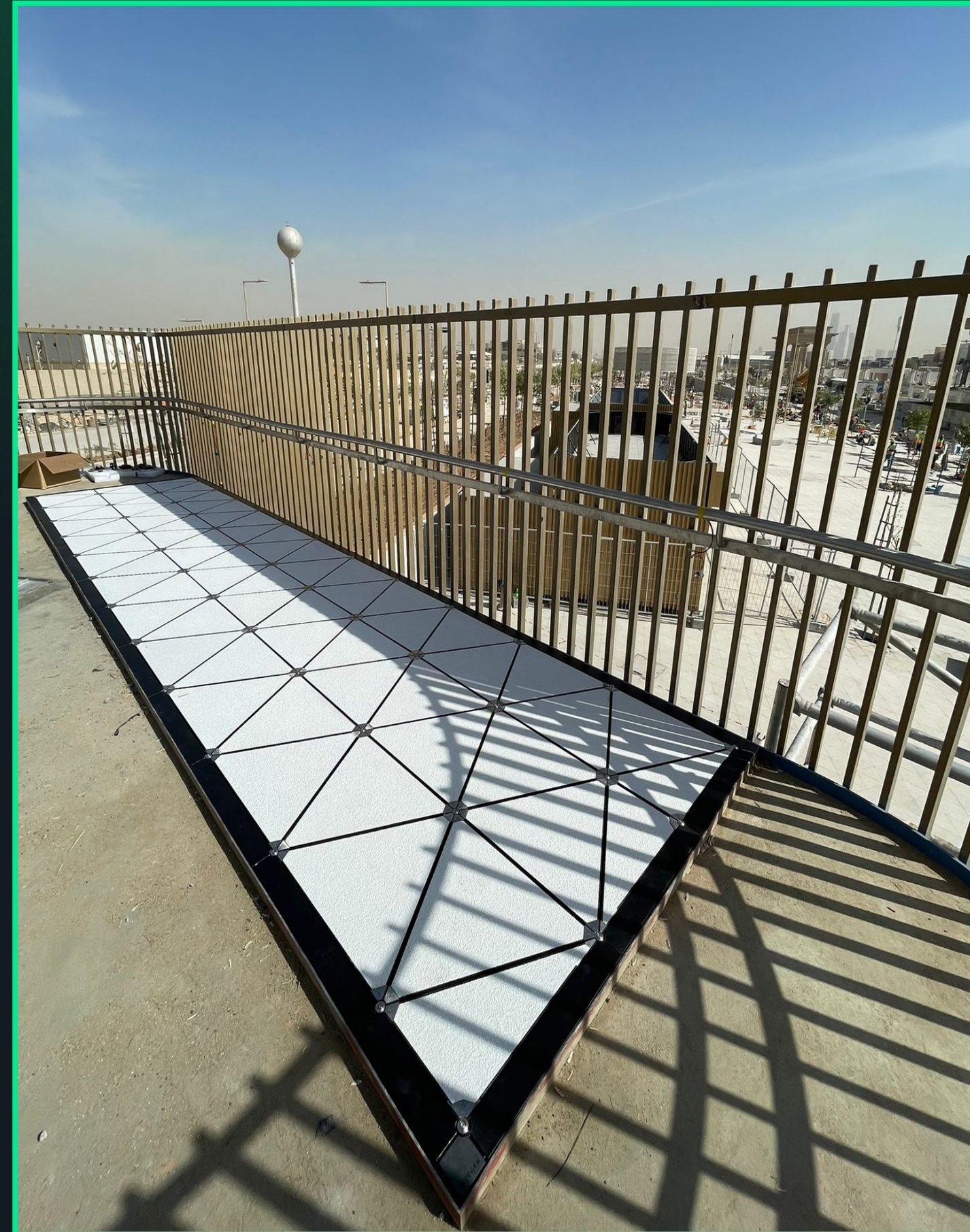
Pedestrians interact with the tiles, encouraging active lifestyles while fostering awareness of clean energy.

INNOVATION

bridges sustainable design and urban functionality, setting a benchmark for future projects.



VISUAL SHOWCASE - COMPLETION



TESTIMONIAL

“Thank you and your team for the hard work and tremendous effort in ensuring the full scope of the project was completed ahead of time. Your team’s performance has been exemplary, and we look forward to future collaborations.”

AFTAB SINDH

Senior Project Management Expert
Sports Boulevard Foundation

