

Dr. Martin Luther King Jr. Pedestrian Bridge

KC Parks & Recreation / City of Kansas City, Missouri
May 2, 2024

DR. MARTIN LUTHER KING, JR. PEDESTRIAN BRIDGE



KANSAS CITY
Parks & Recreation



Taliaferro & Browne, Inc.
Engineering - Landscape Architecture - Surveying

olsson studio

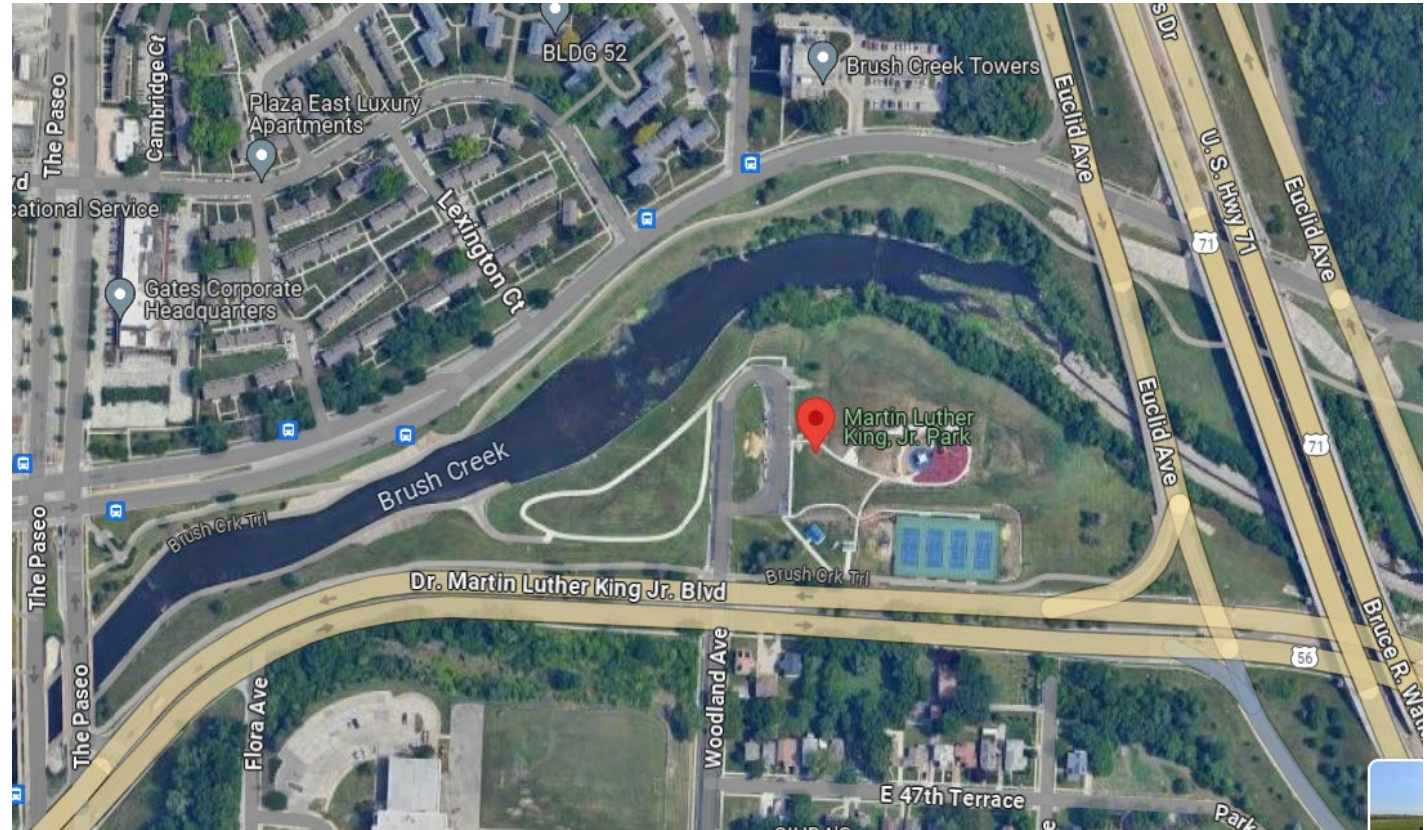
Agenda

- Welcome
- History
- Existing Access
- Proposed Plan
- Project Overview
- Design Concepts
- Next Steps



History

- Brush Creek is a barrier to direct community access to MLK Park
- Community advocates called for improvements
- **Congressman Cleaver II secured \$2.8M** in federal funds to build/construct a pedestrian bridge



Existing Access



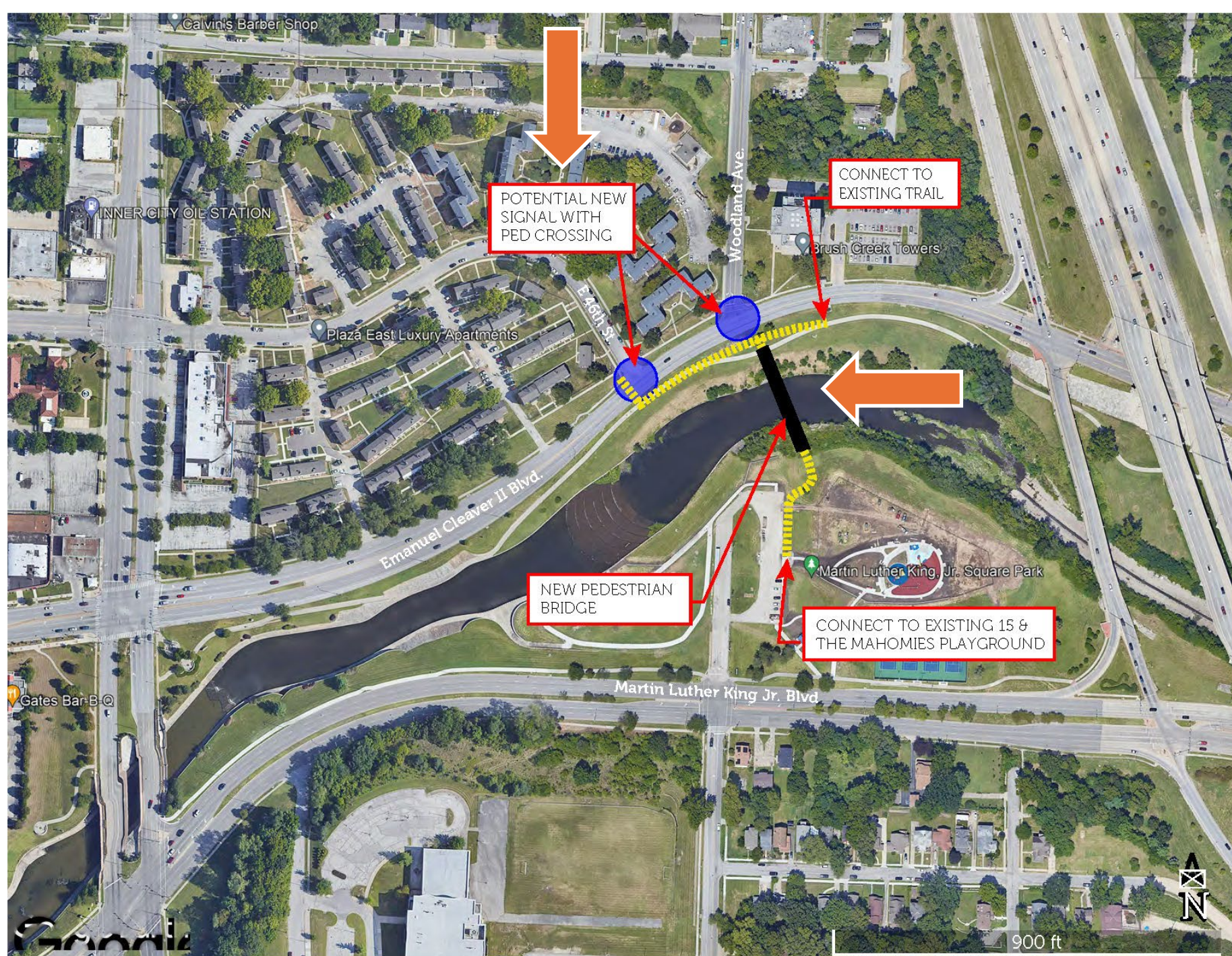
Project Overview

- **Improve connections** to Dr. Martin Luther King Jr. Park
- **Build a pedestrian bridge** across Emanuel Cleaver II Blvd @ Woodland Ave
- **Trail connections** on the south and north
- **Identify a preferred street crossings** on Emanuel Cleaver II Blvd (future phase)



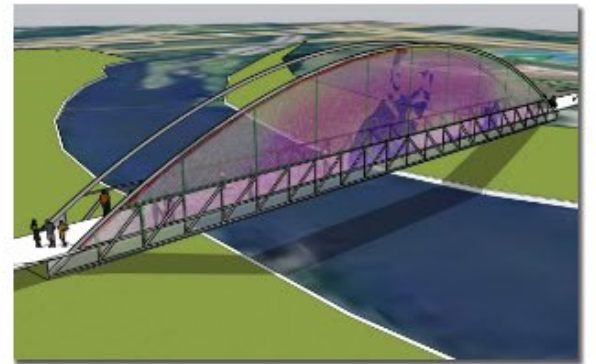
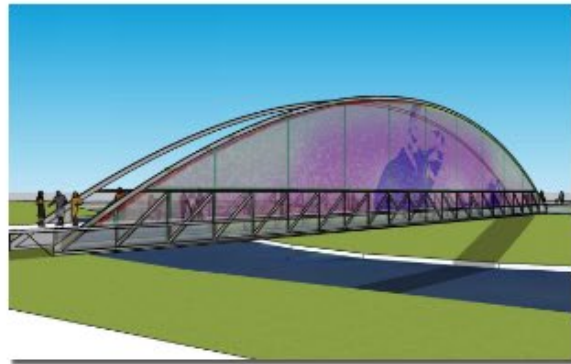
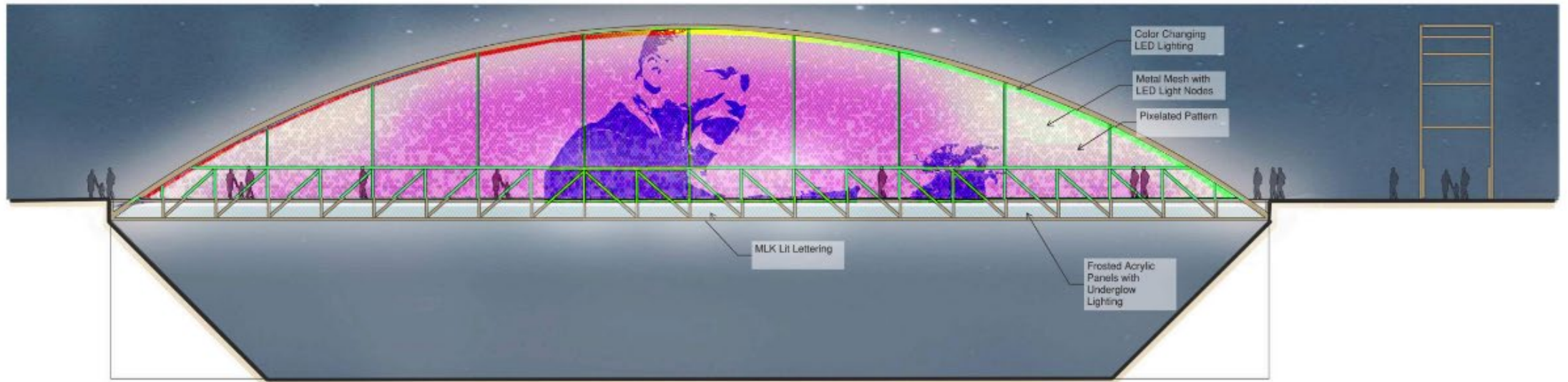
Proposed Plan

- New pedestrian bridge
- Potential new signal with pedestrian crossing

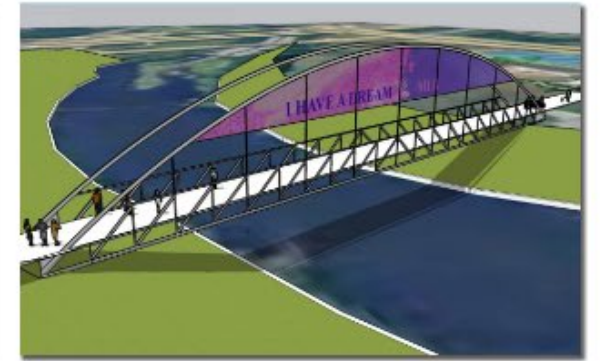
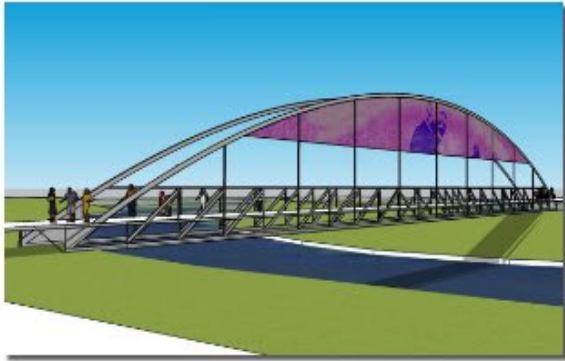
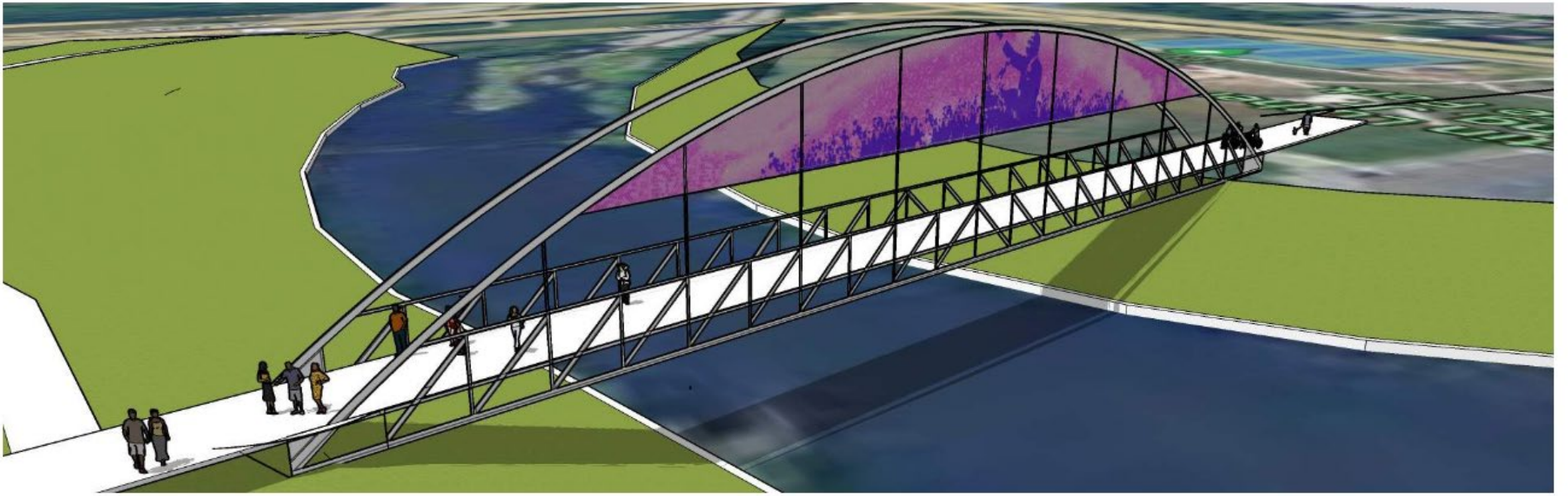


Design Concepts

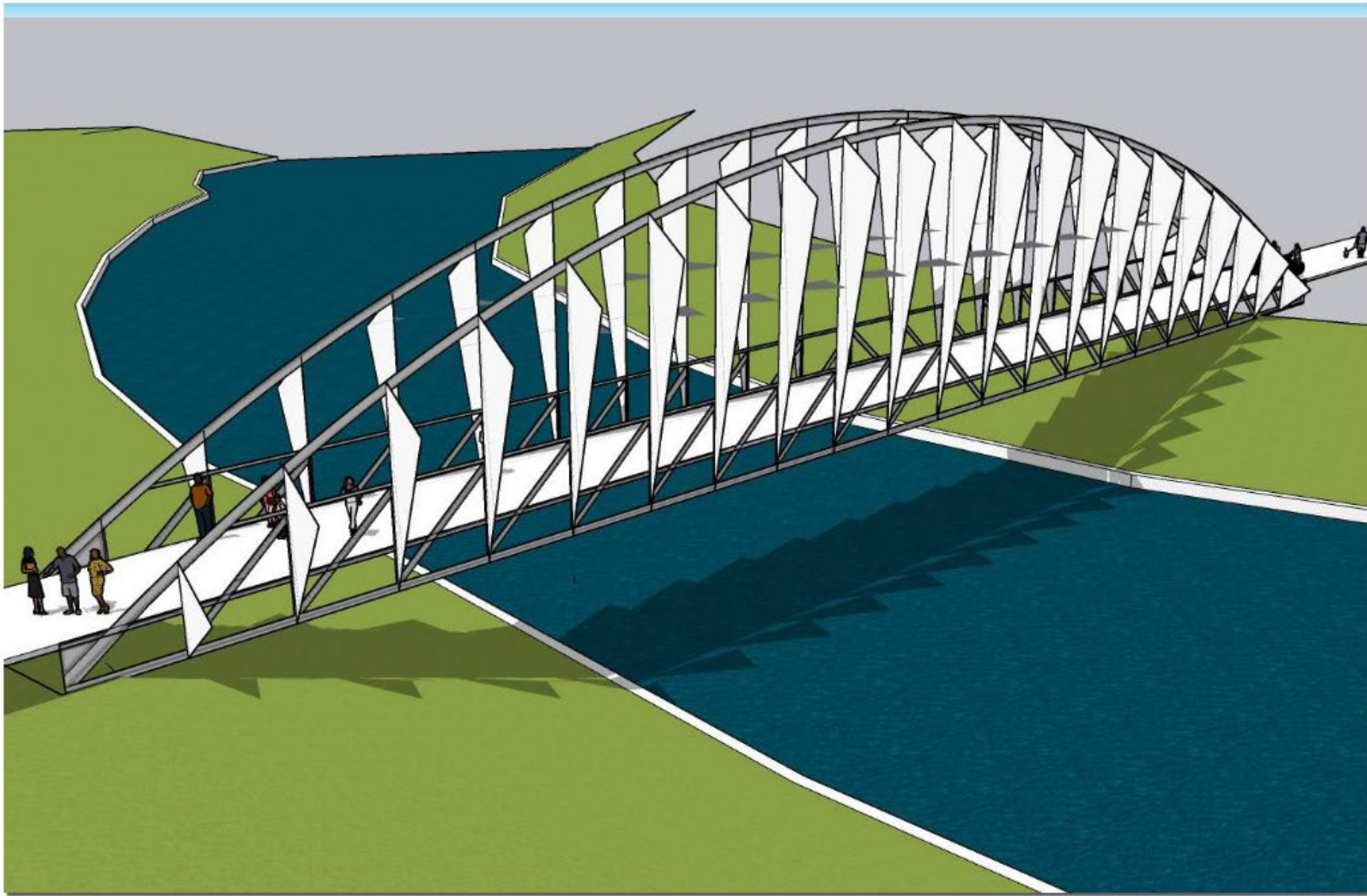




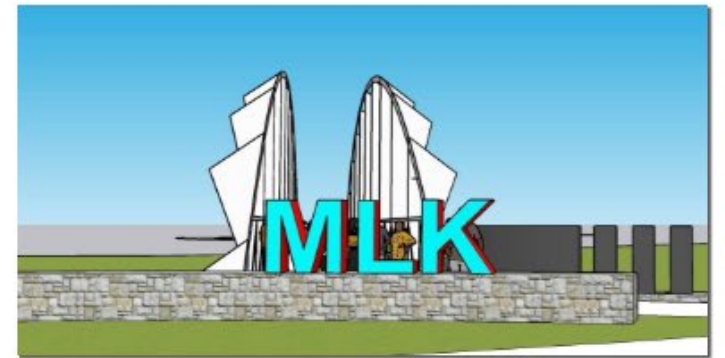
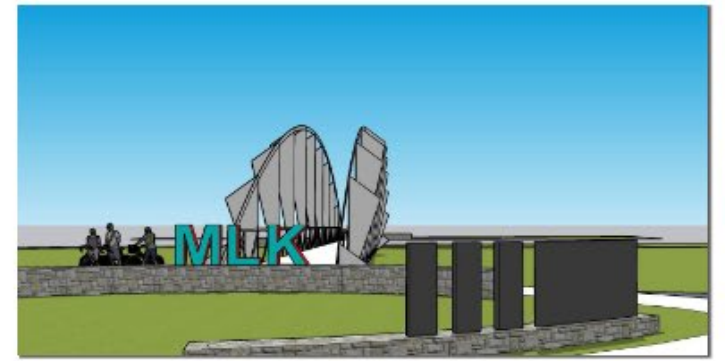
Concept 1



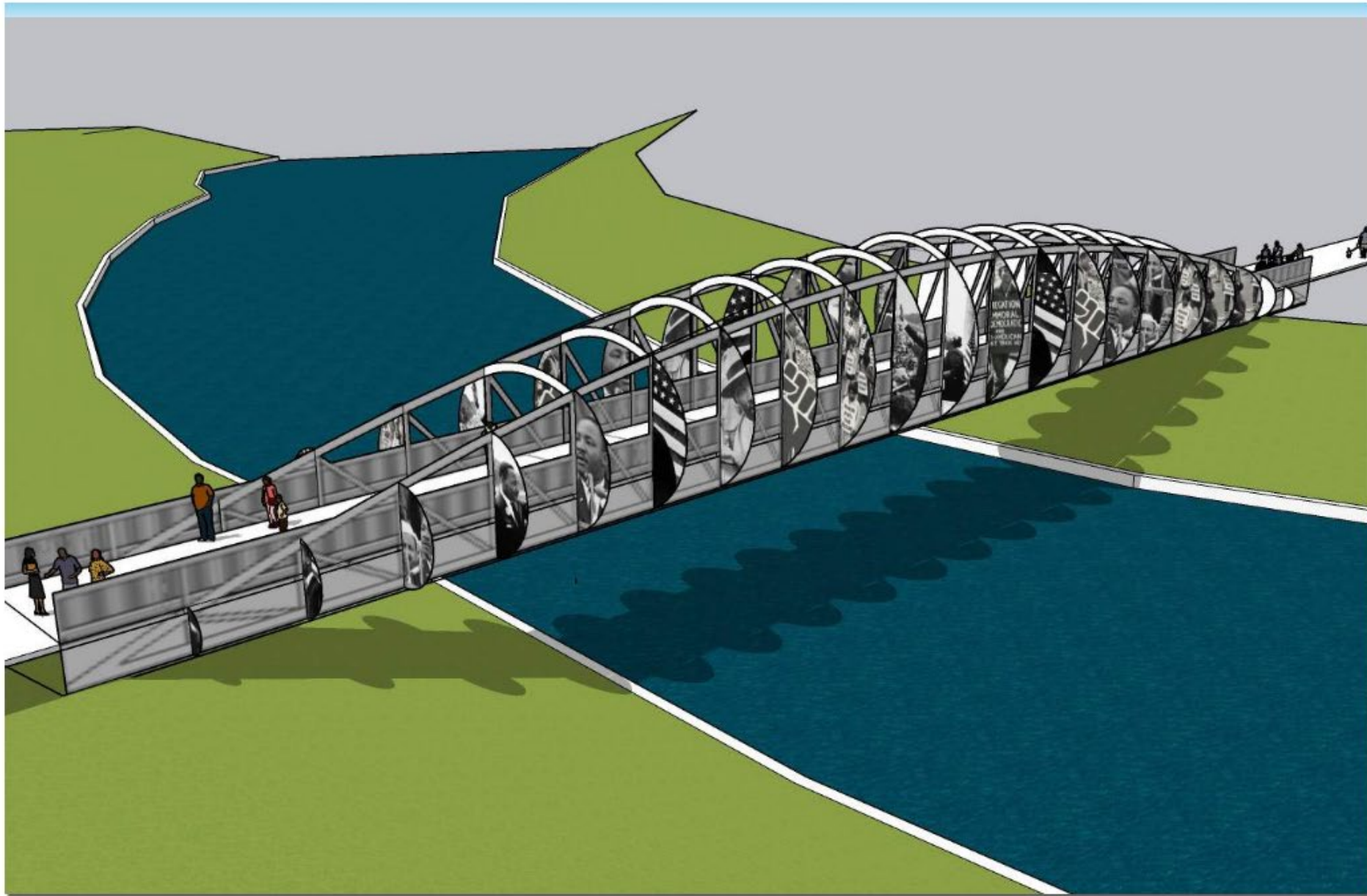
Concept 1-Alt_Partial Screen



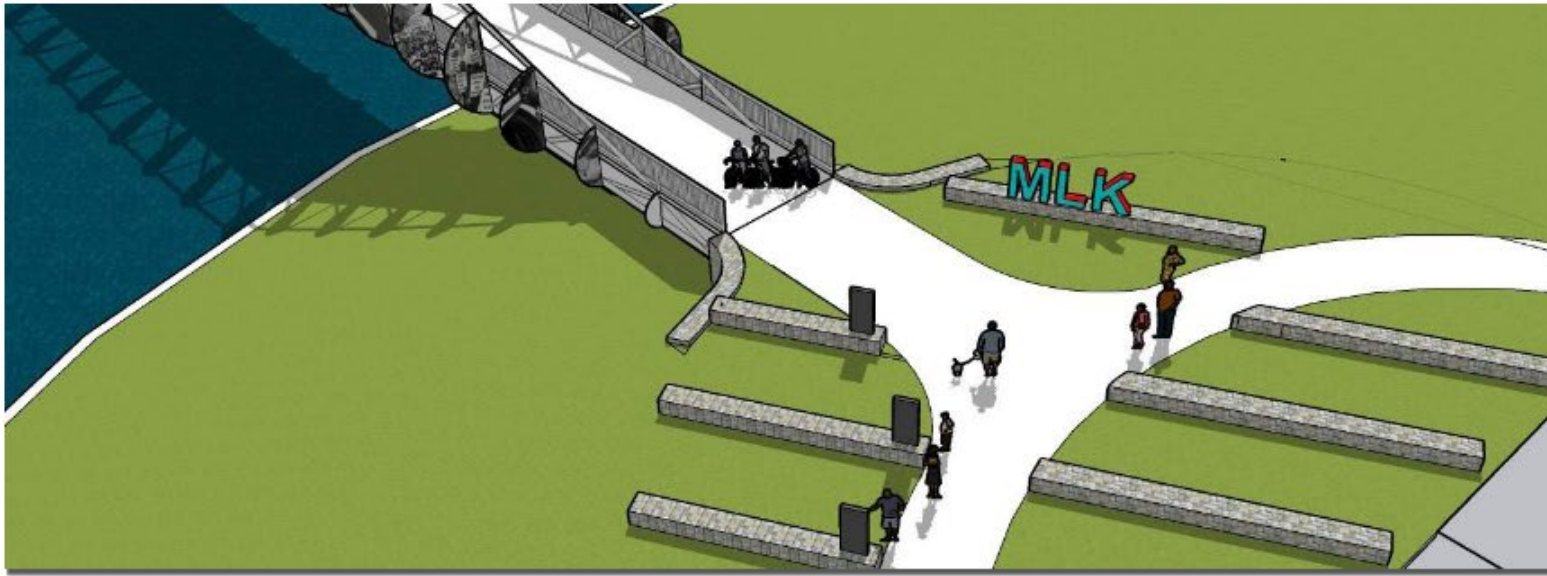
Concept 2



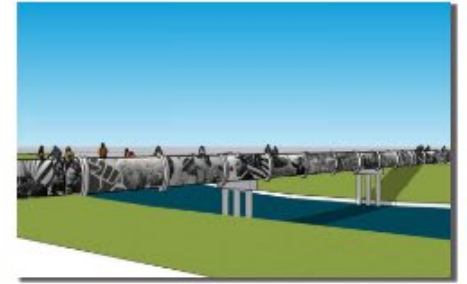
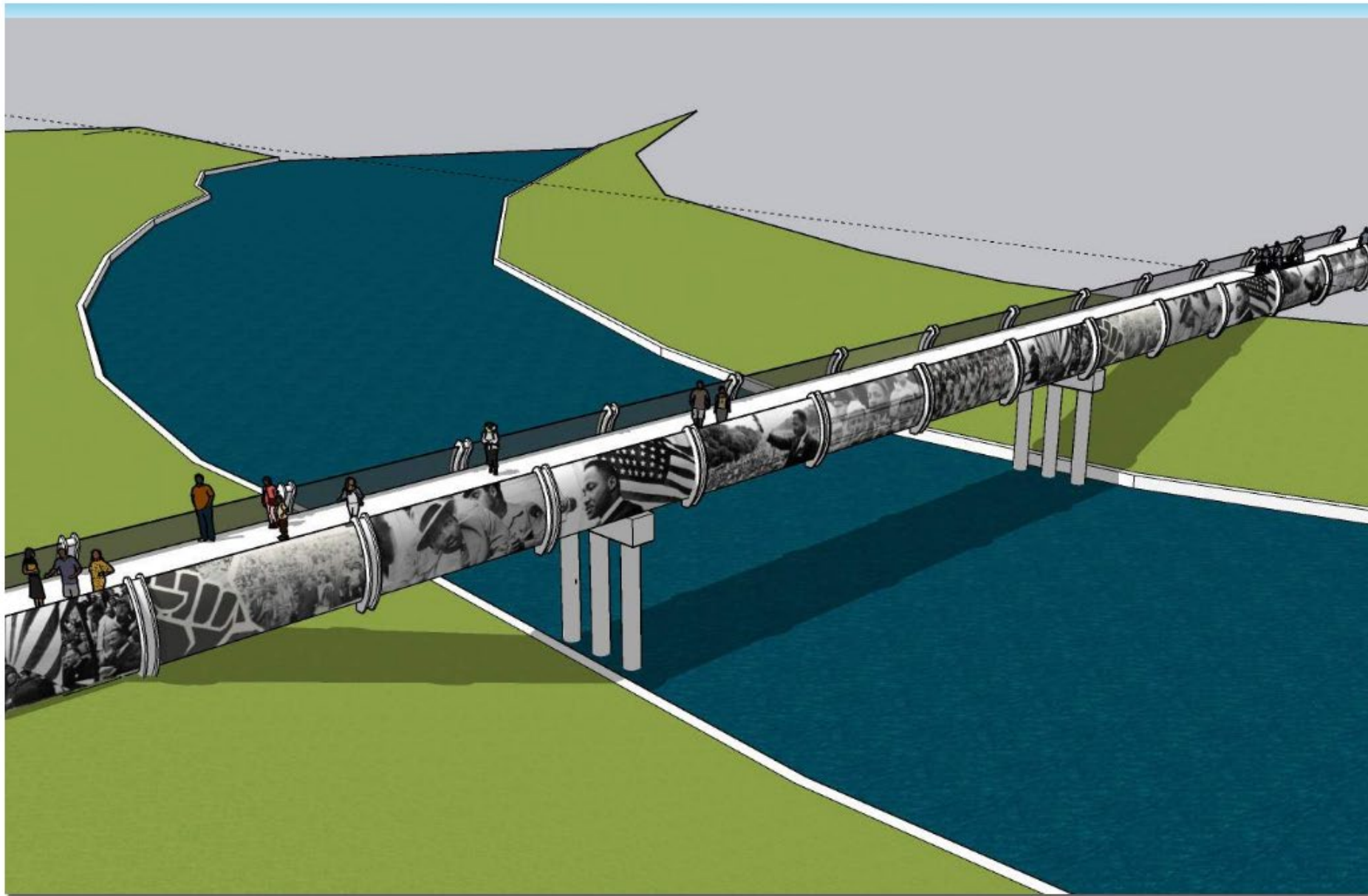
Concept 2-Alt_w Sign and Retaining Wall



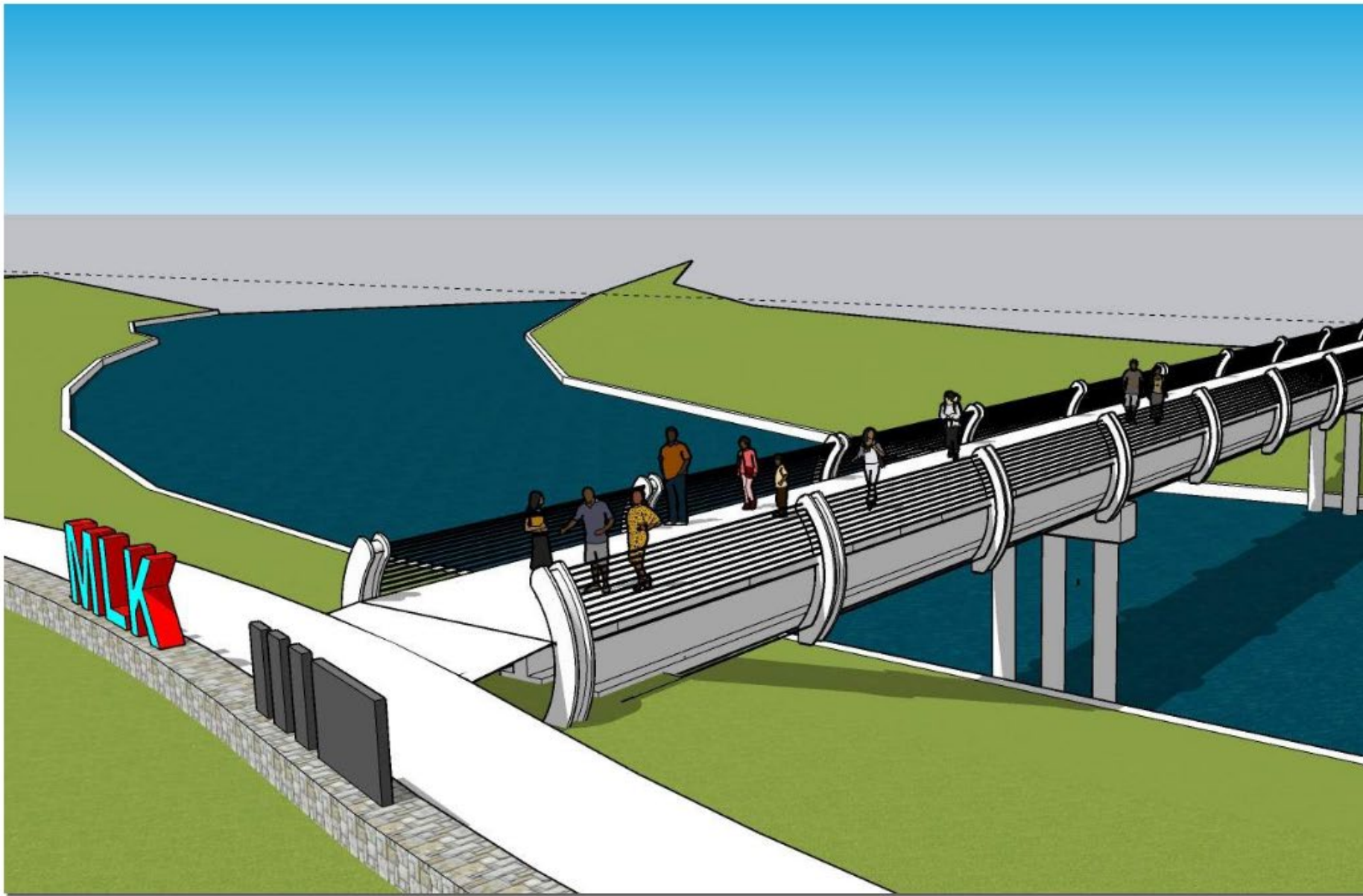
Concept 3



Concept 3-Alt_w Sign and Retaining Walls

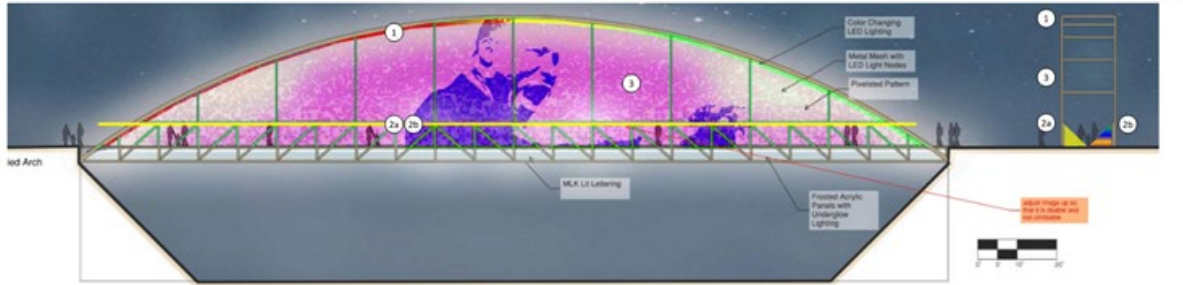


Concept 4



Concept 4-Alt _w Sign and Retaining Walls

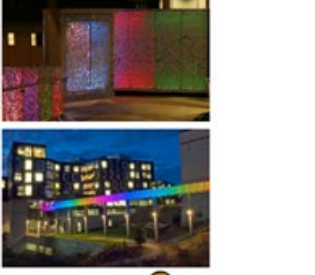
BRIDGE CONCEPT A — LIGHTING APPROACH



- 1 DIRECT VIEW FLEXIBLE LINEAR OR SEGMENTED STRAIGHT RGB COLORED LIGHT PROVIDES OUTLINE OF THE STRUCTURE WHILE ALSO POTENTIALLY PROVIDING REQUIRED TASK LIGHTING BELOW.
- 2a LINEAR LIGHT CONCEALED WITHIN LOWER STRUCTURE TO PROVIDE REQUIRED LIGHTING FOR WALKING SURFACES BELOW.
- 2b LIGHT INTEGRATED INTO THE LOWER STRUCTURE / RAIL COULD ALSO USE REFLECTED RGB TO ADD COLOR AND ANIMATION TO THE WALKING SURFACE.
- 3 IN LIEU OF MEDIA SCREEN, LINEAR UPLIGHTS ILLUMINATE GRAPHIC PANELS ALONG SIDES OF STRUCTURE. WHITE LIGHT OR RGB.

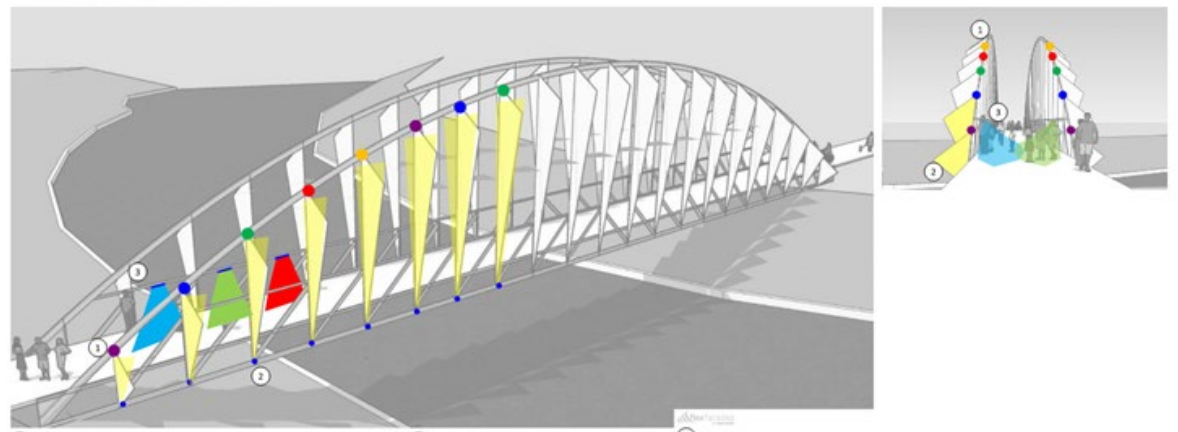


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BRIDGE CONCEPT B — LIGHTING APPROACH



- 1 LARGE RGB COLORED LIGHT 'DOTS' ALONG ARCH PROVIDE IMPACTFUL AND EYE CATCHING COLOR CHANGING OPPORTUNITIES WHILE DELINEATING THE ARCH STRUCTURE IN A NON-LINEAR FASHION.
- 2 SMALL ARM MOUNTED LED UPLIGHT IN VARIOUS BEAM SPREADS TO MATCH VARIED FIN SIZES ARTICULATE THE STRUCTURE WHILE HIGHLIGHTING THE GRAPHIC PANEL NATURE OF THE FINS.
- 3 SHORT SECTIONS OF RGB COLOR CHANGING LINEAR LED INTEGRATED INTO LOWER STRUCTURE AND AIMED TOWARD WALKING SURFACE CREATES DRAMA FOR PEDESTRIANS AND REQUIRED LIGHTING ON WALKWAY.



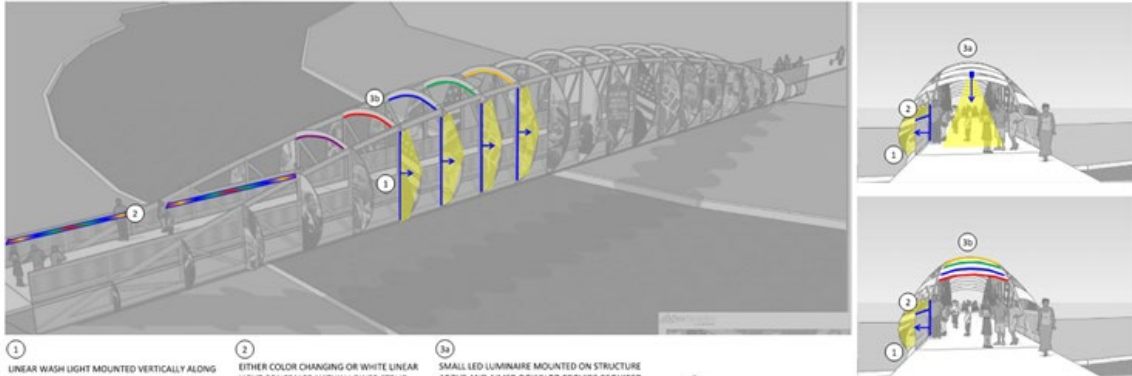
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Lighting Concepts

BRIDGE CONCEPT C — LIGHTING APPROACH

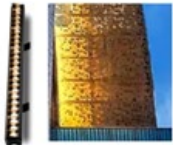


1 LINEAR WASH LIGHT MOUNTED VERTICALLY ALONG FIN TO ILLUMINATE THE GRAPHIC PANEL IN WHITE LIGHT. MOUNTED ON BOTH SIDES TO PROVIDE VIEWING FROM BOTH DIRECTIONS.

2 EITHER COLOR CHANGING OR WHITE LINEAR LIGHT CONCEALED WITHIN LOWER STRUCTURE TO PROVIDE REQUIRED LIGHTING FOR WALKING SURFACES BELOW.

3a SMALL LED LUMINAIRE MOUNTED ON STRUCTURE ABOVE AND AIMED DOWN TO PROVIDE REQUIRED LIGHTING FOR WALKING SURFACES BELOW.

3b LINEAR LIGHT CONCEALED WITHIN LOWER STRUCTURE TO PROVIDE REQUIRED LIGHTING FOR WALKING SURFACES BELOW.

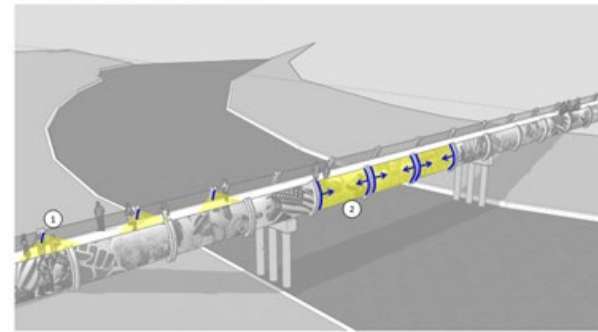


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BRIDGE CONCEPT D — LIGHTING APPROACH

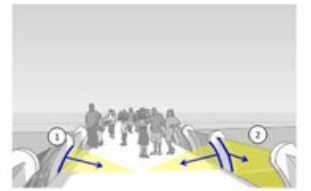


1 CURVED LINEAR LIGHT INTEGRATED INTO THE SIDE WALL DETAIL TO PROVIDE PEDESTRIAN PATHWAY LIGHTING. WHITE LIGHT OR RGB OPTIONS.

2 FLEXIBLE LINEAR WHITE LIGHT LED WITH ASYMMETRIC OPTICS FOLLOWING CURVE OF STRUCTURE TO SIDE ILLUMINATE GRAPHIC



















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Lighting Concepts

| | Concept #1 Arch Bridge | Concept #2 Sails Arch Bridge | Concept #3 Fins Keystone Bridge | Concept #4 Precast Bridge |
|----------------------------|---|---|---|---|
| Overall Cost | \$ \$ \$ | \$ \$ \$ | \$ \$ \$ | \$ \$ \$ |
| Maintenance |  |  |  |  |
| Construction Time |  |  |  |  |
| User Experience |  |  |  |  |
| Passerby Experience |  |  |  |  |

Comparison Table by Design Concept

Next Steps

- Complete dot exercise & comment card
- Launch preferences survey
- Refine design concepts
- Public Meeting #2
 - Present final design concept



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scan here!

