



AGENDA

- RECAP
- ALIGNMENT + OVERVIEW
- BRIDGE + LANDSCAPE
DESIGN
- DISCUSSION



- Design input and outreach work with North Seattle College



- Design and schedule coordination with Sound Transit



- Technical and Right-of-Way coordination with WSDOT



- Traffic planning and coordination with King County Metro

- Open House held June 2014
- Continual briefings:
 - NSC
 - modal Advisory boards (Bike and Ped)
 - stakeholders (District Councils and various advocacy/community groups)
 - **OCTOBER 15 OPEN HOUSE**
- Final Open House will be scheduled around 90% Design

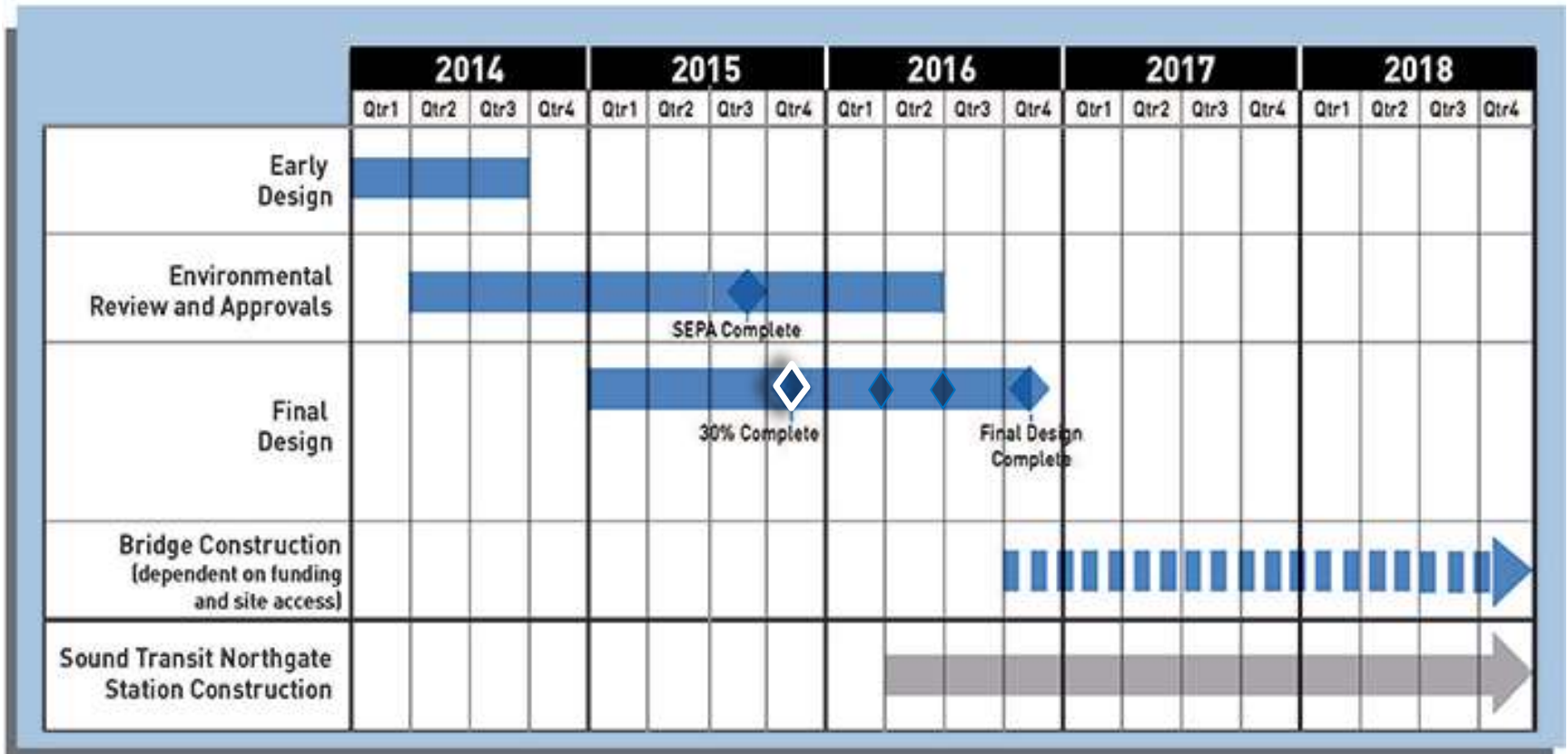
| | |
|--------------------|---|
| July 29, 2015 | Maple Leaf Summer Social |
| July 15, 2015 | North Seattle Chamber of Commerce |
| June 17, 2015 | Licton Springs Community Council |
| June 17, 2015 | Seattle Pedestrian Advisory Board |
| June 24, 2015 | Pinehurst Community Council |
| May 27, 2015 | Northwest District Council Briefing |
| May 26, 2015 | Cascade Bicycle Club: Connect Northgate |
| May 22, 2015 | Seattle Neighborhood Expo |
| May 12, 2015 | Meadowbrook Community Council |
| May 2015 | Seattle Pedestrian Advisory Board |
| April 29, 2015 | Maple Leaf Community Council |
| April 22, 2015 | North Seattle College Earth Day Symposium |
| October 21, 2014 | North Seattle College |
| September 10, 2014 | Public Briefing |
| June 3, 2014 | Open House |
| March 2014 | Sound Transit Open House |



\$26.3M Project Cost Estimate (planning-level)

| Secured | |
|---------|---|
| \$5M | Sound Transit |
| \$5M | City of Seattle |
| \$10M | Washington State |
| TBD | |
| \$25M | Federal TIGER Grant Application (combined Bridge and Bike Share application) |
| \$15M | Move Seattle Levy |

Northgate Pedestrian & Bicycle Bridge Project Schedule



This project will provide non-motorized improvements in the Northgate, North College Park and Licton Springs neighborhoods in the vicinity of Sound Transit's North Link Station and the North Seattle College.

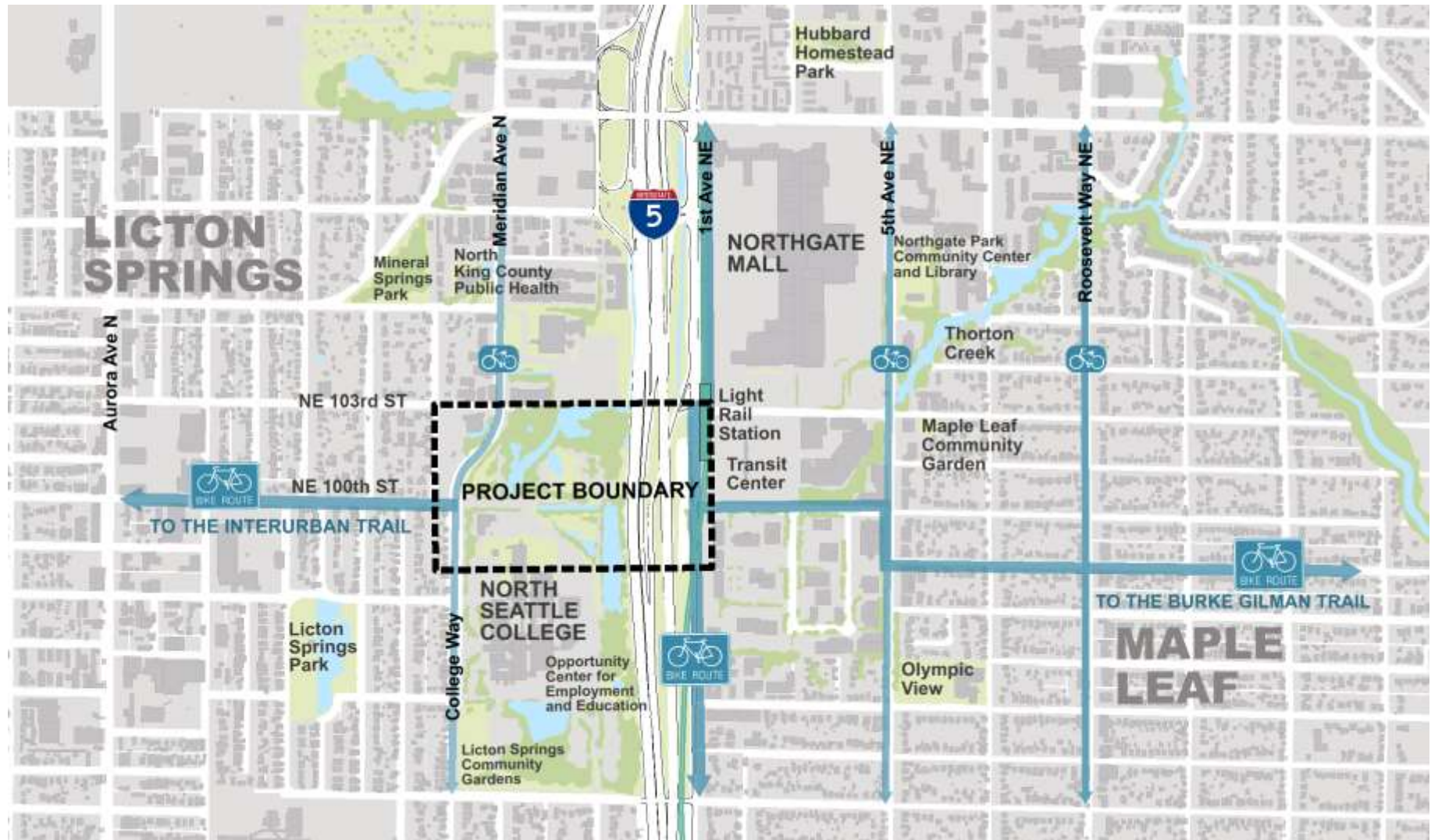
Improvements include:

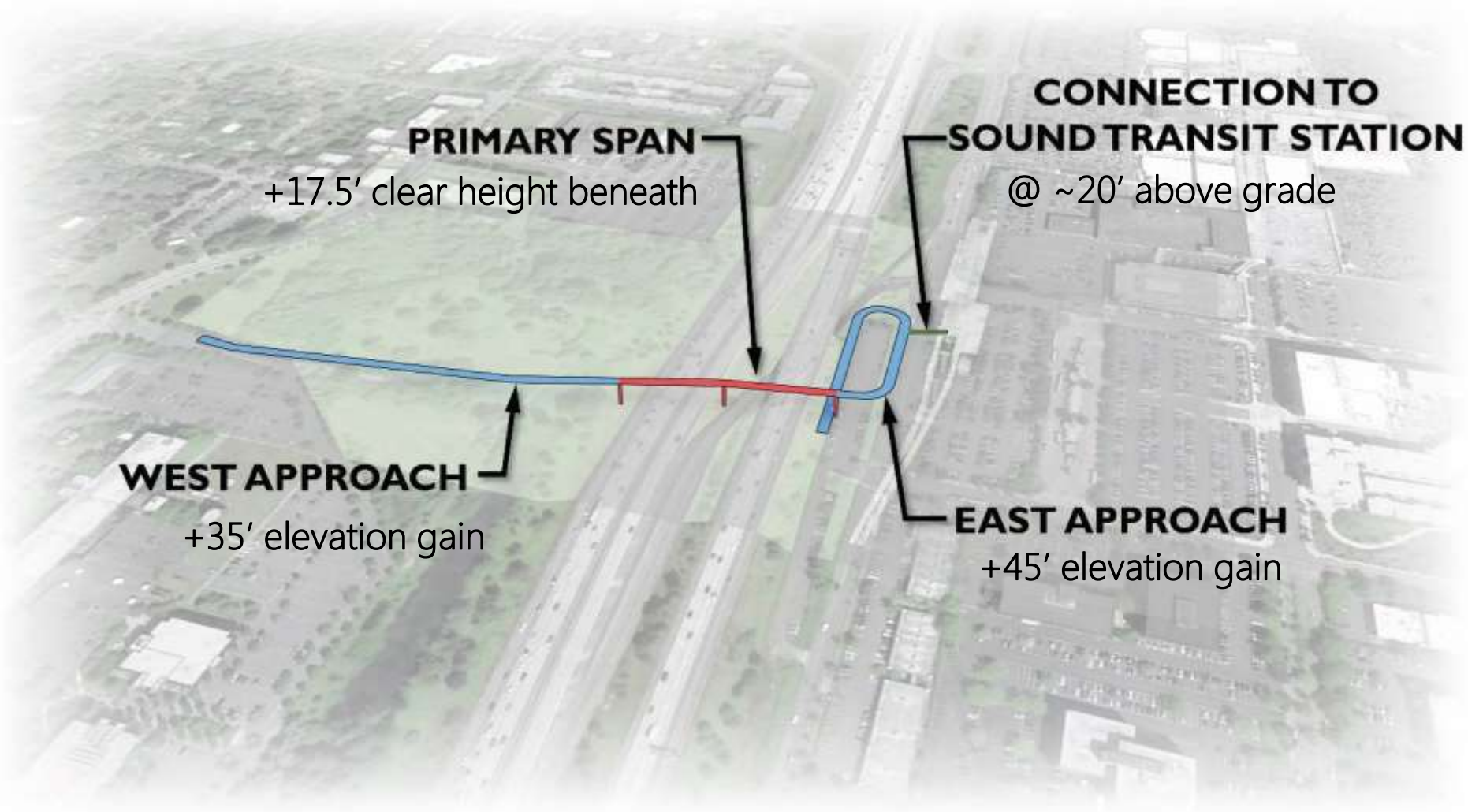
- Pedestrian/bicycle overpass over I-5
- Connections of west and east neighborhoods/businesses
- Connection of integrated transit facilities with the bridge and separated bicycle facilities

CPTED: Crime Prevention Through Environmental Design

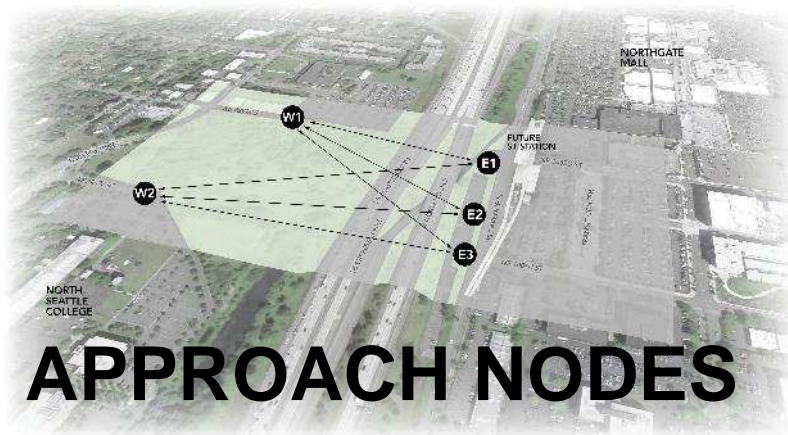
- A multi-disciplinary approach to deterring criminal behavior through environmental design.
- CPTED strategies rely upon the ability to influence offender decisions that precede criminal acts by affecting the built, social and administrative environment.

- Provide a safe and efficient link for pedestrians and bicyclists over I-5
- Inspire users to connect with their environment through a rich variety of experiences across the bridge
- Enhance local environmental systems

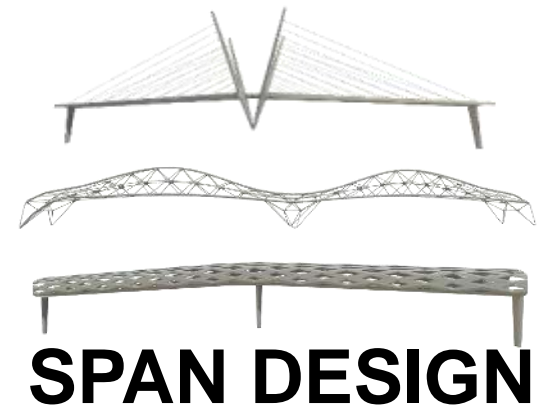




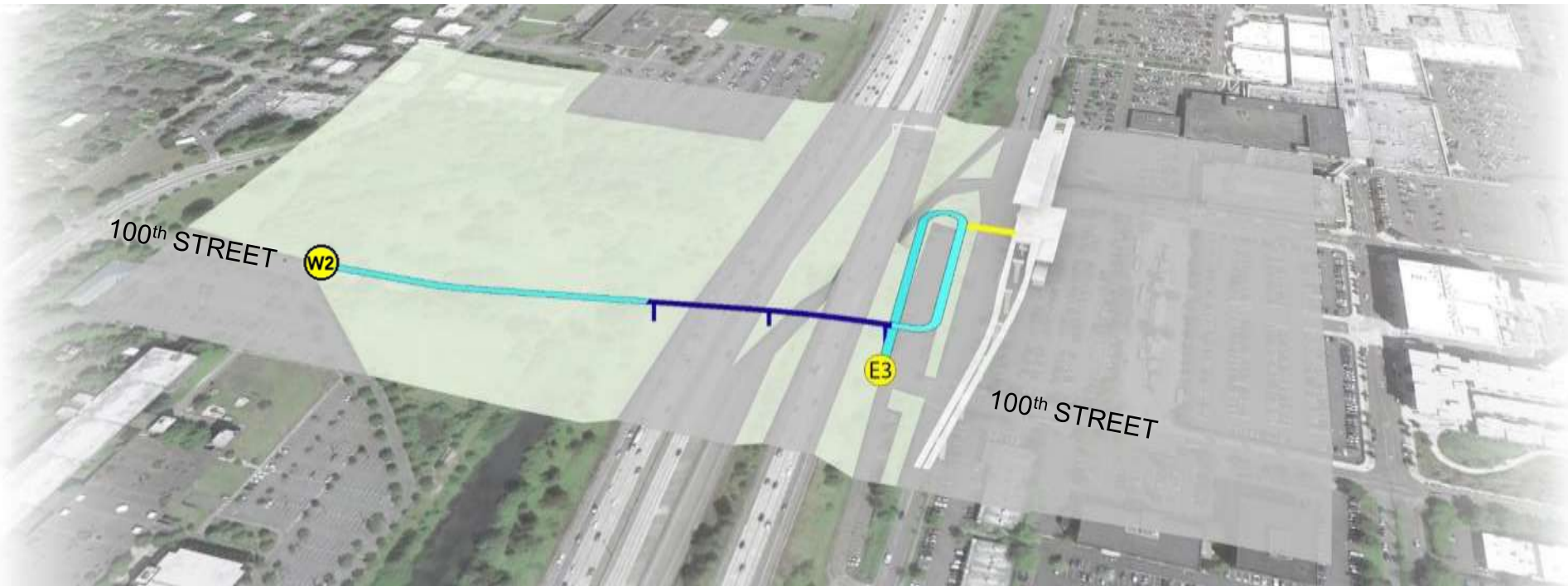
- Connectivity/Geometry
- Safety
- Visual Impact/Presence
- Environmental Impact
- Constructability
- Cost



+



- Links to existing and future bike facilities
- Proximity to Campus
- Ideal elevation at connection to Sound Transit Station



- Constructability
- Integration of railings and barriers
- Unique Aesthetic Qualities
- Community Preference





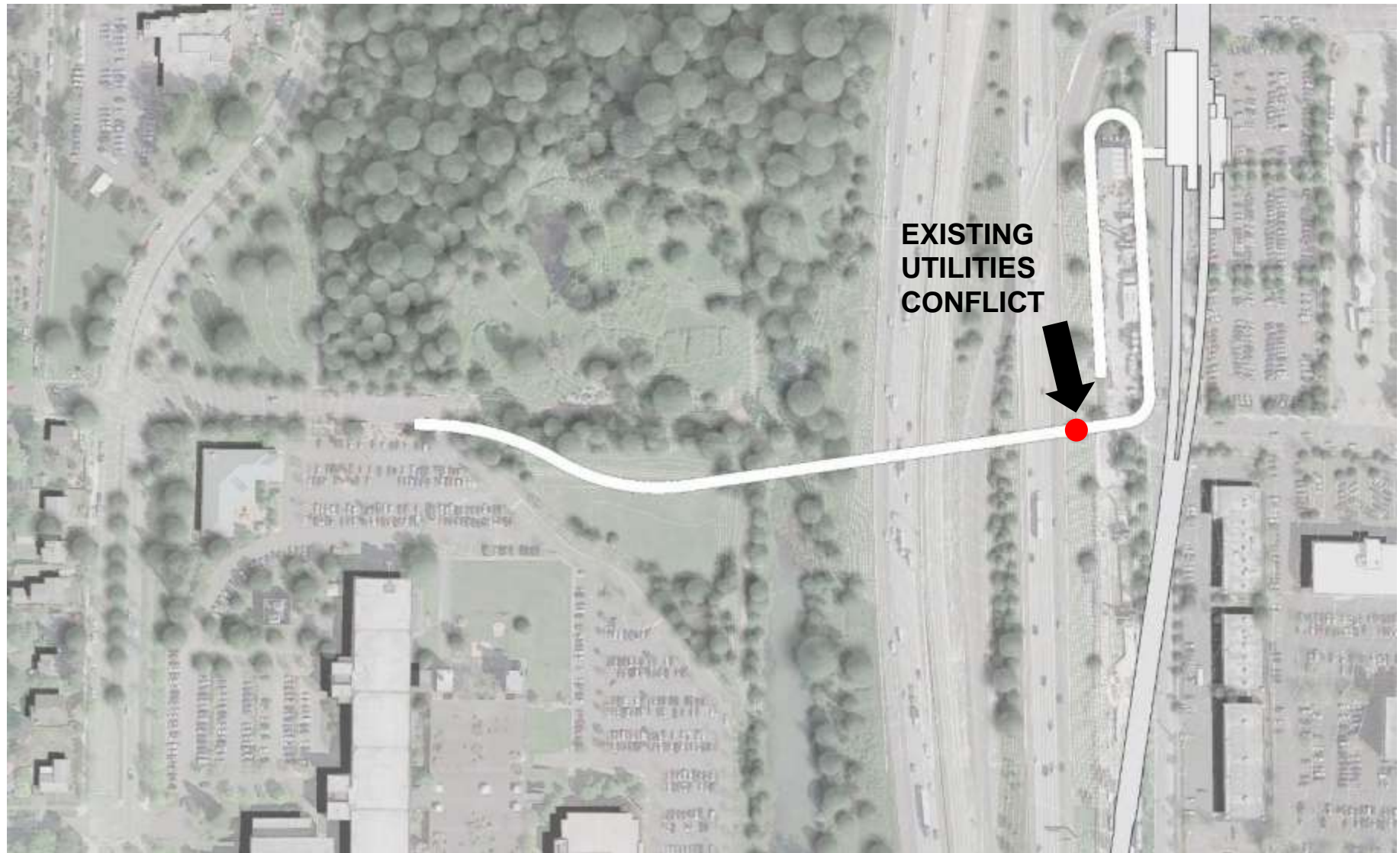
VIEW FROM NORTHEAST

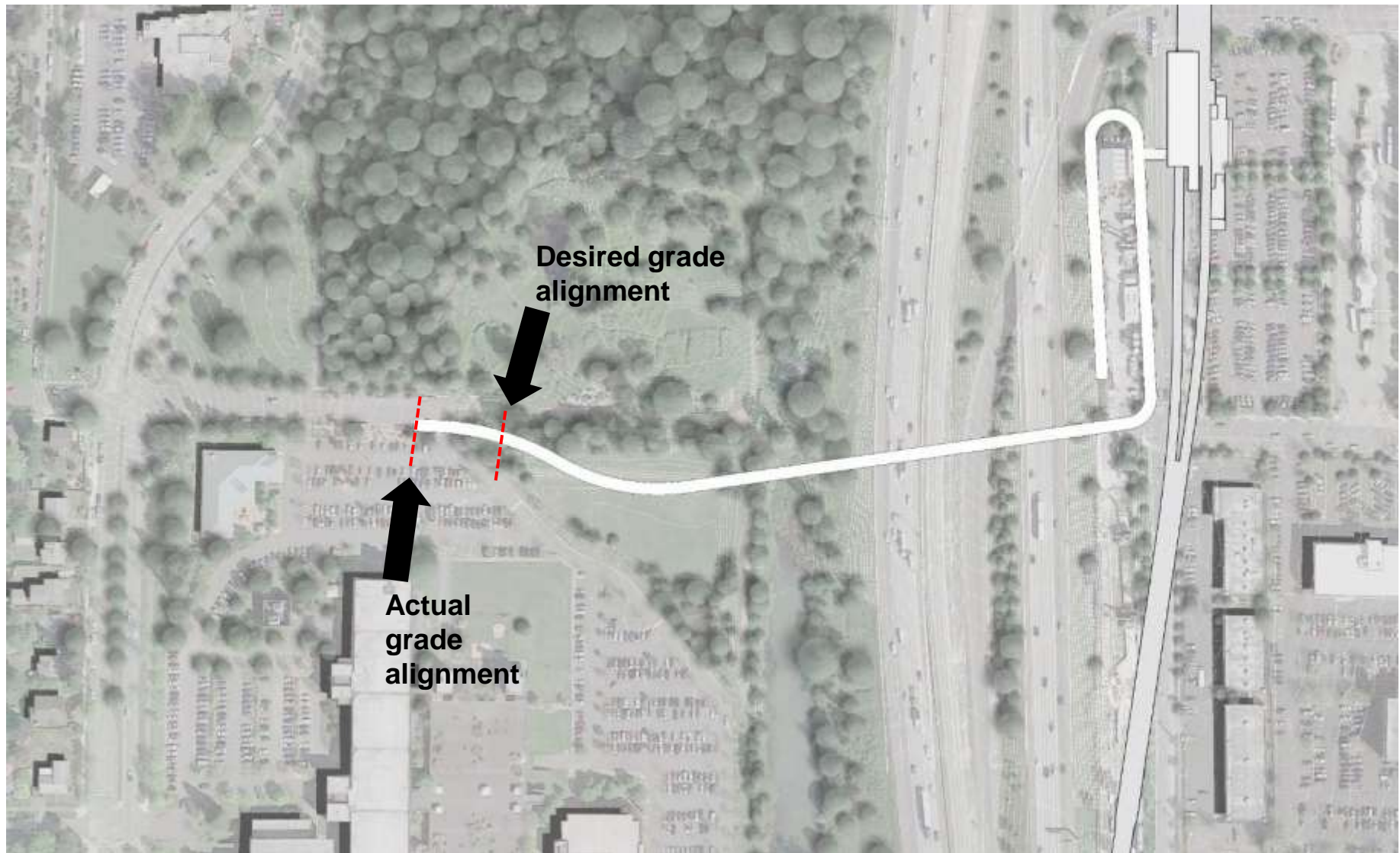
ALIGNMENT + OVERVIEW

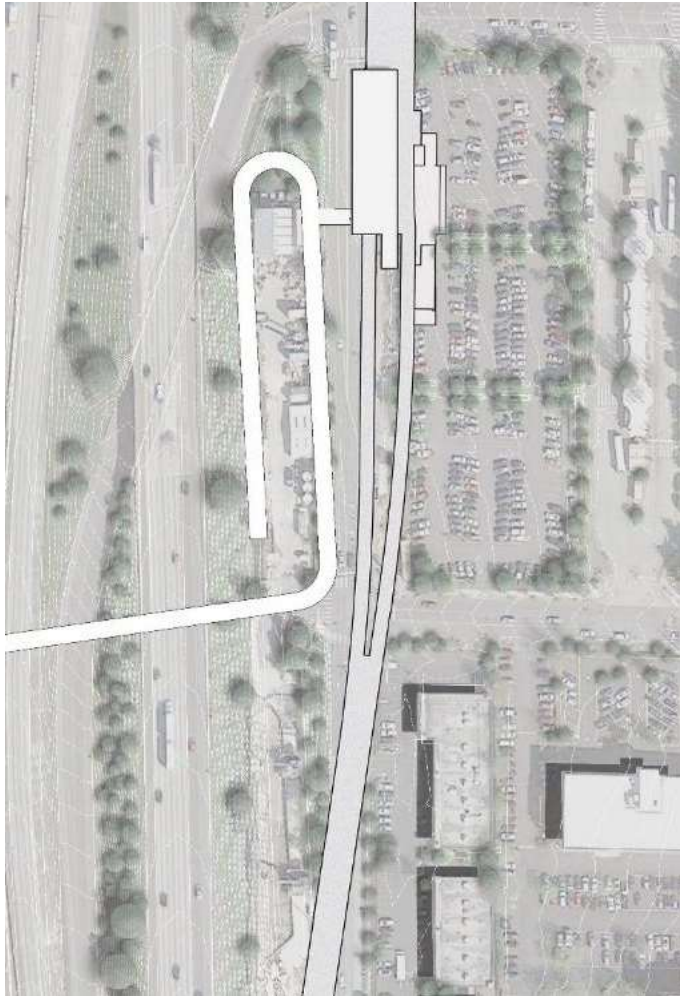










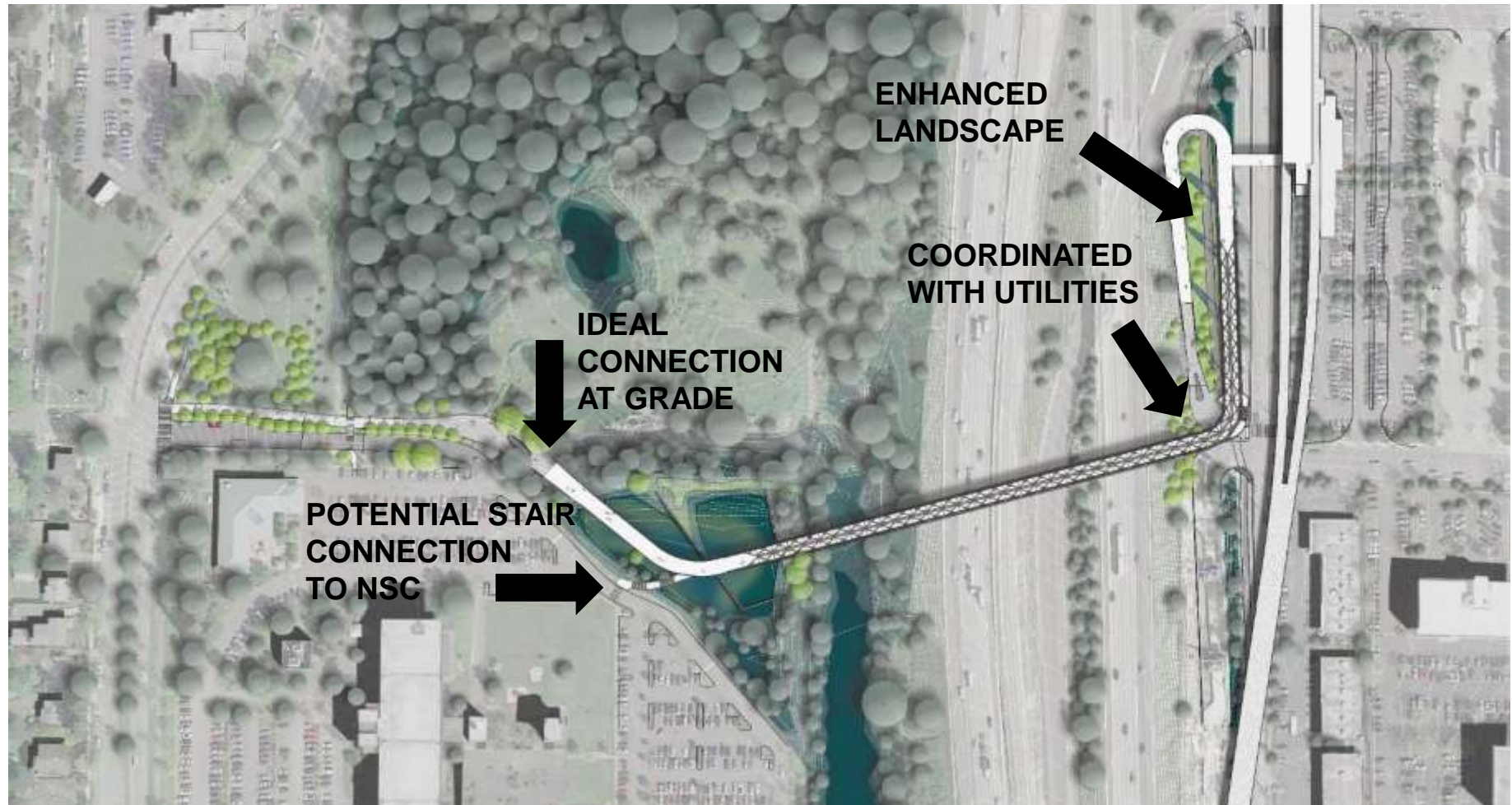


**CONCEPT PHASE:
EXCLUDE PARK-AND-RIDE LOT**

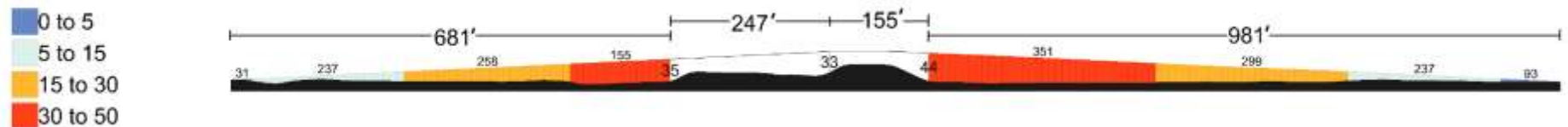


**DESIGN PHASE:
INCLUDE PARK-AND-RIDE LOT**

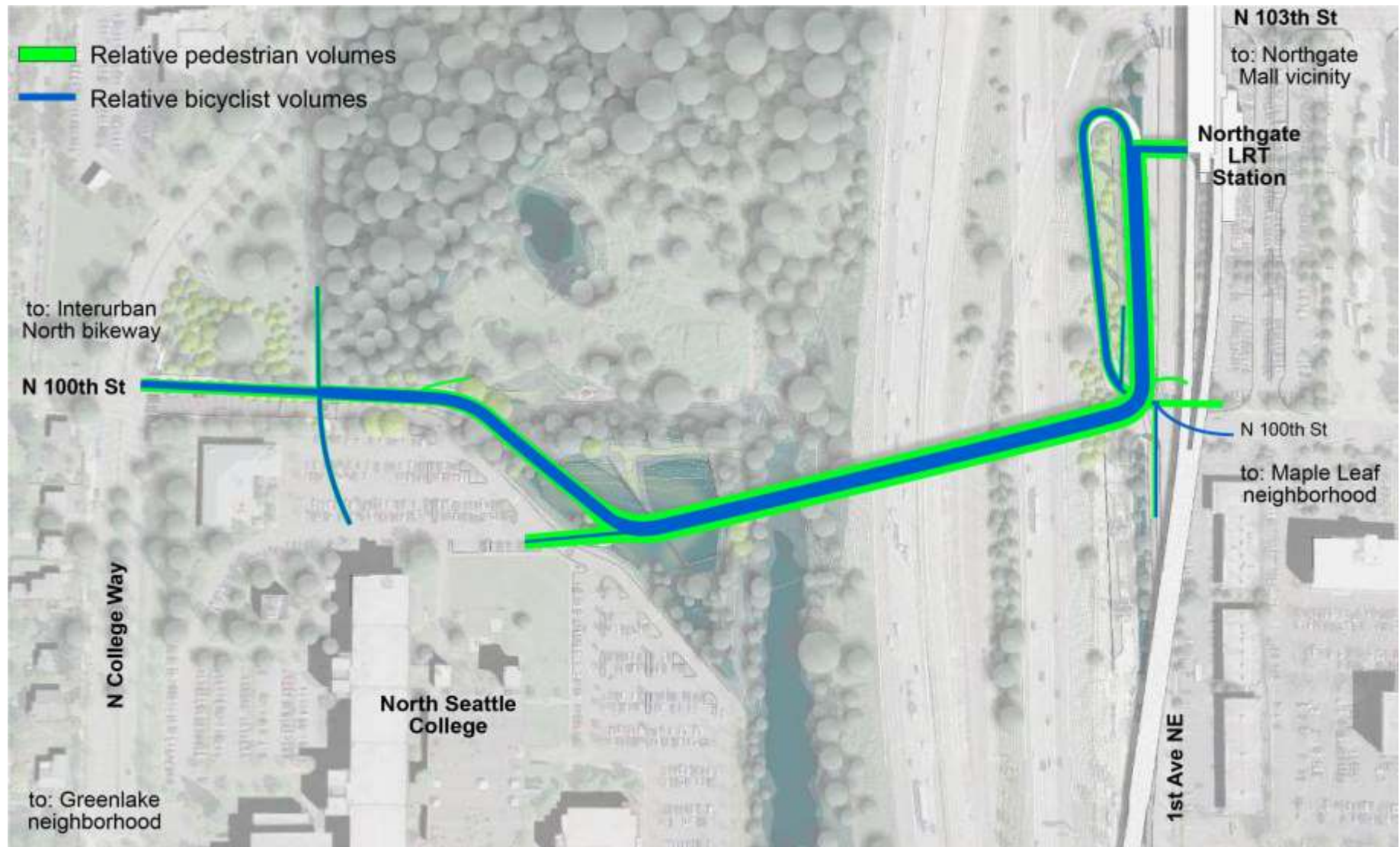




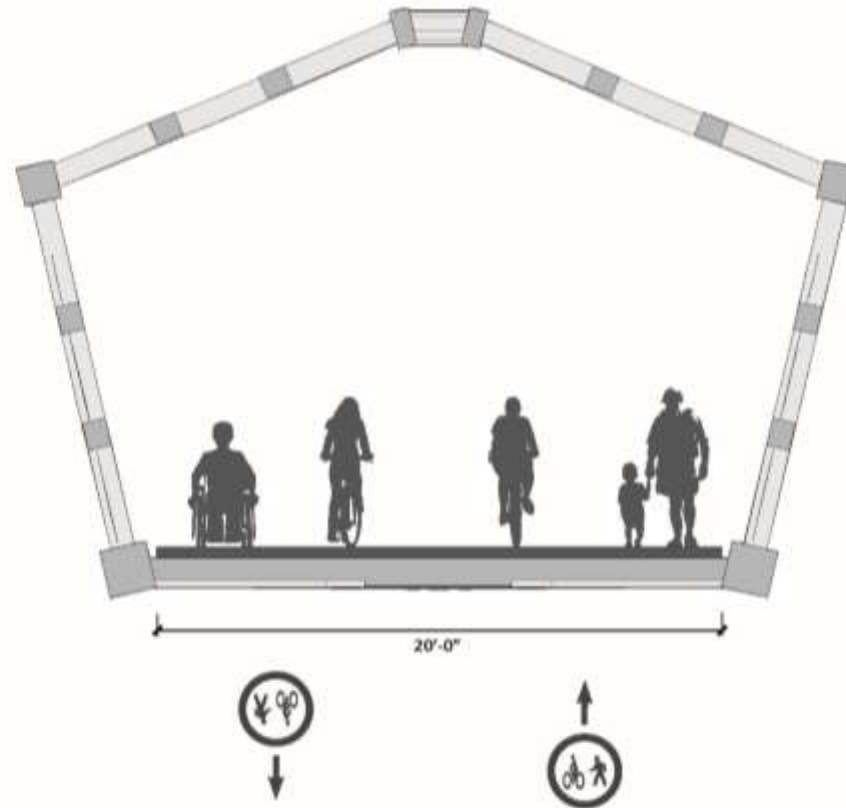
FEET ABOVE GRADE







All Users Keep Right



Northgate Bicycle and Pedestrian Bridge

Bridge Section
September 17, 2015





DISTANCE: 833 FT



WALK: 3.0 min



RUN: 1.5 min



DISTANCE: 2,584 FT



WALK: 10.0 min



RUN: 5.0 min

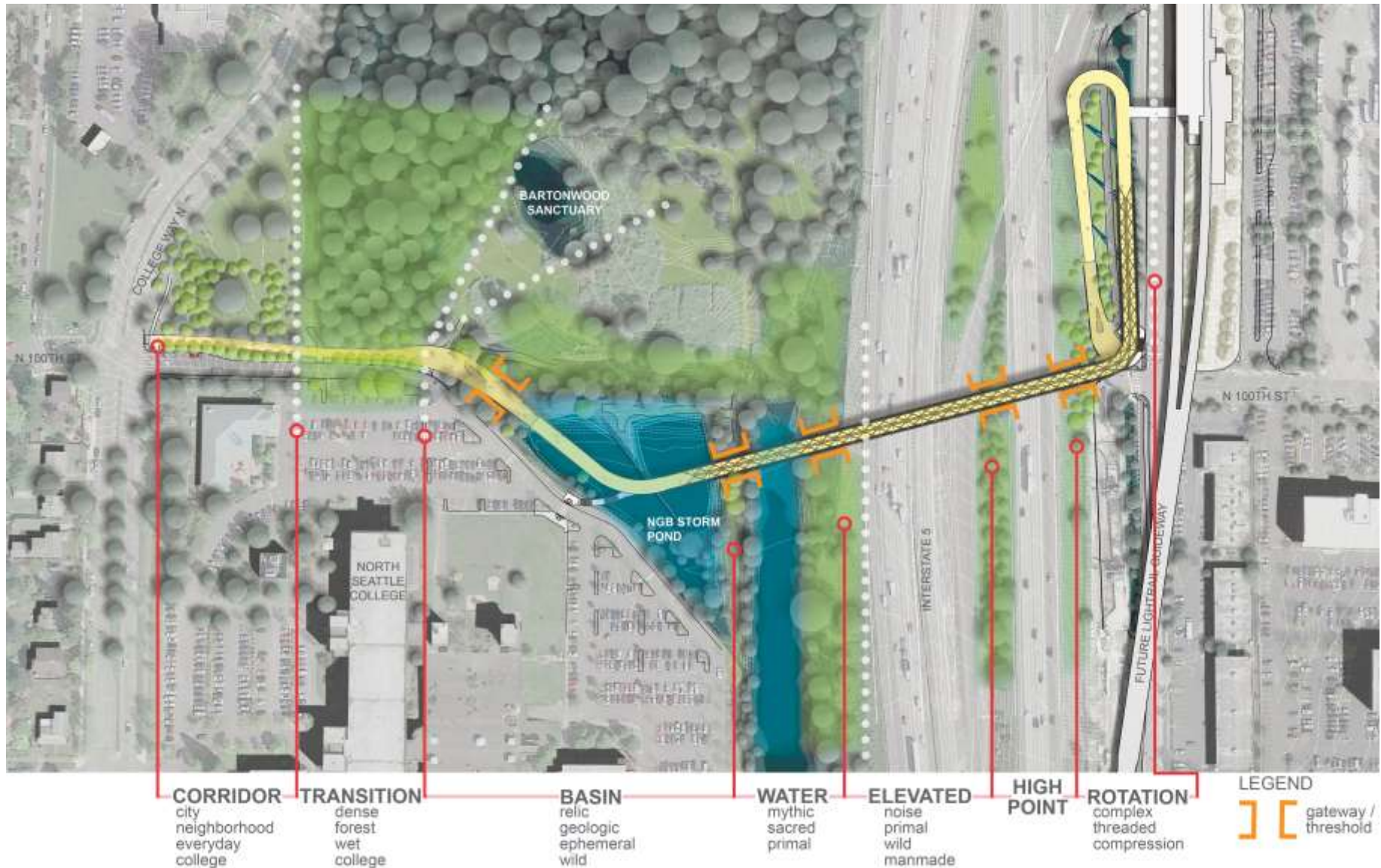


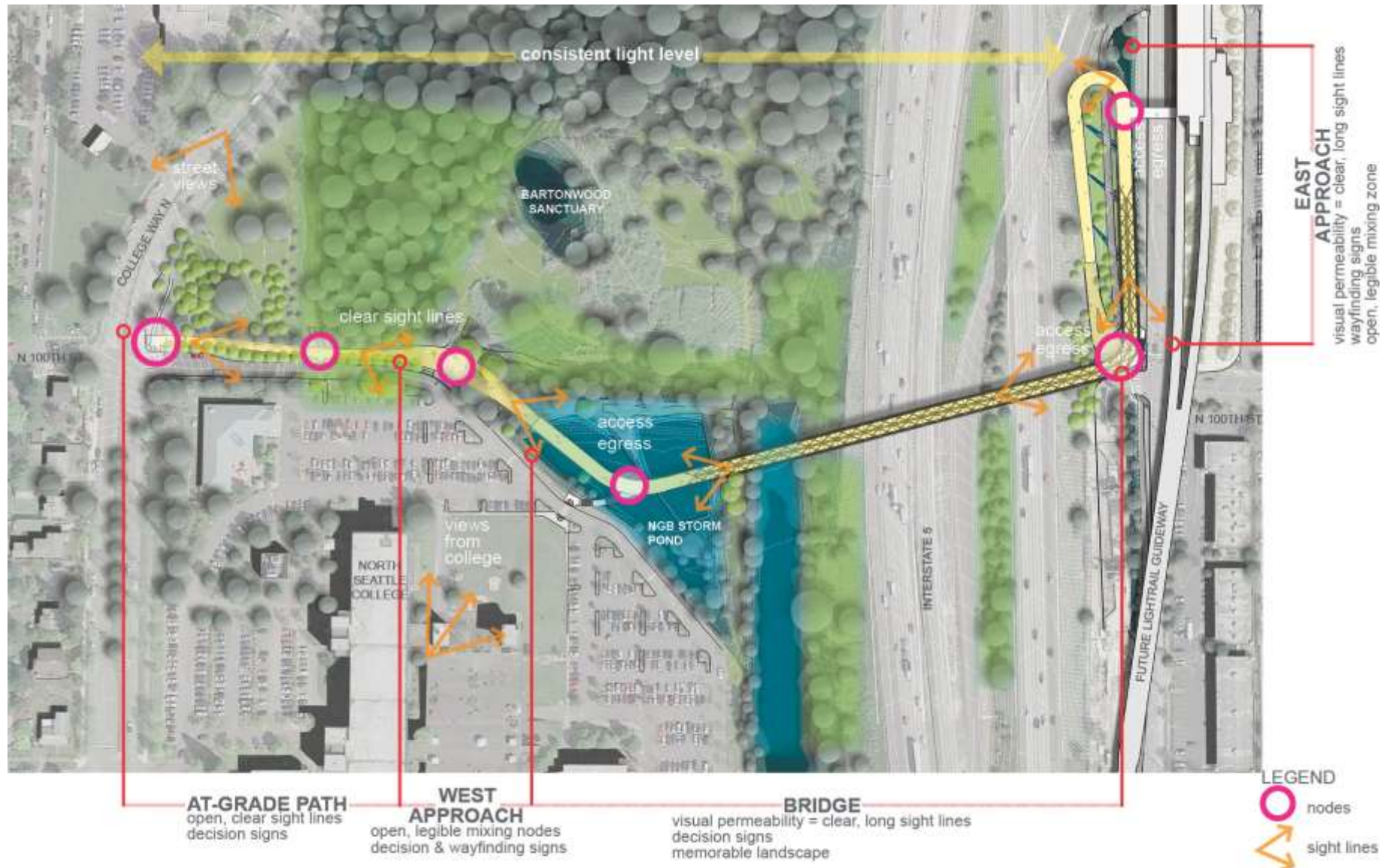
WHEELCHAIR:
15 min

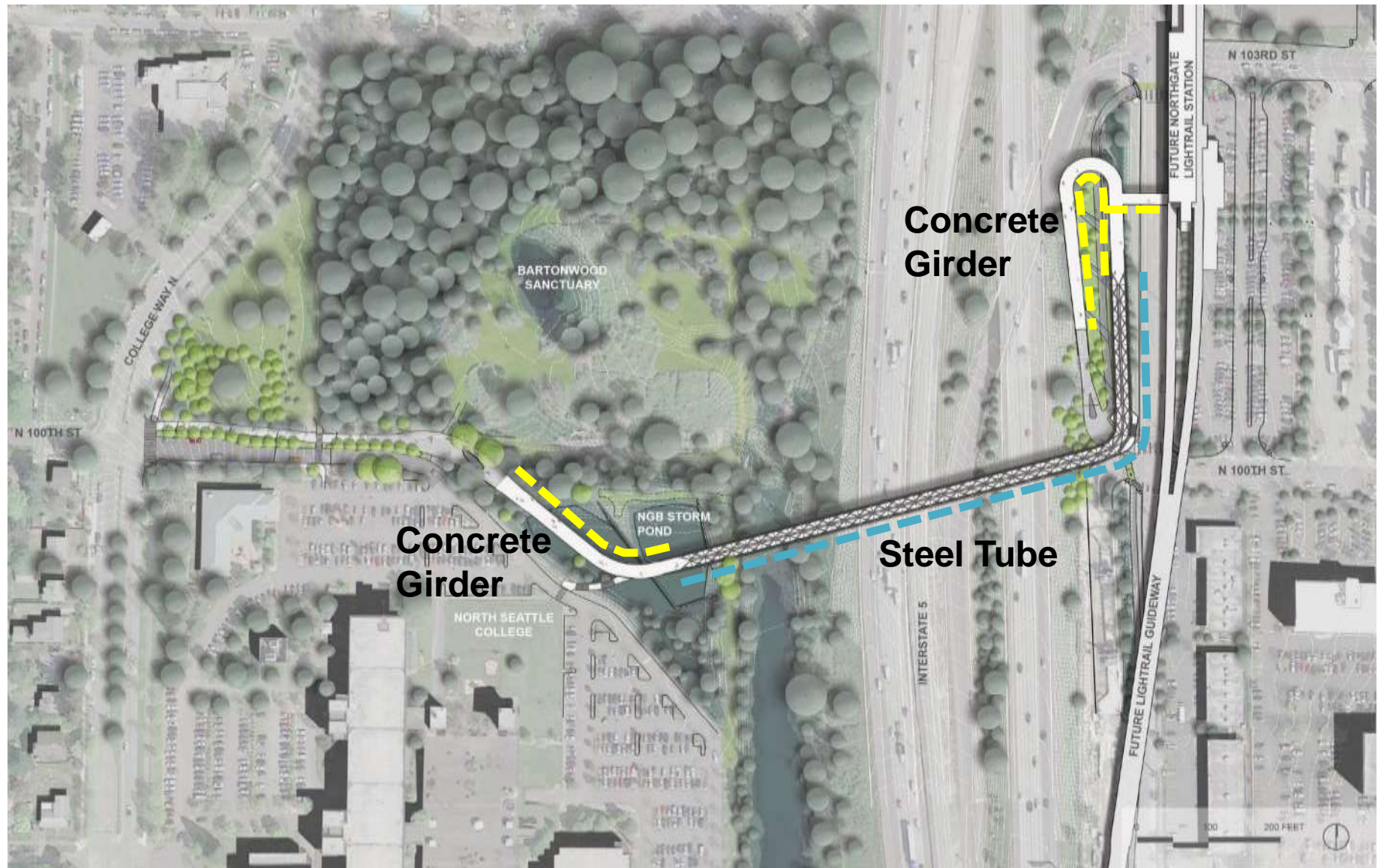


SKATE/BIKE:
3.5 min





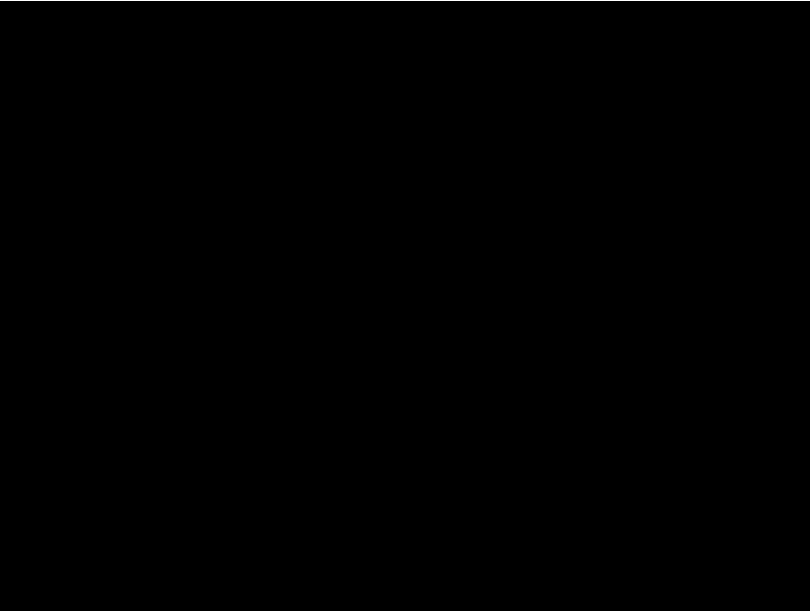




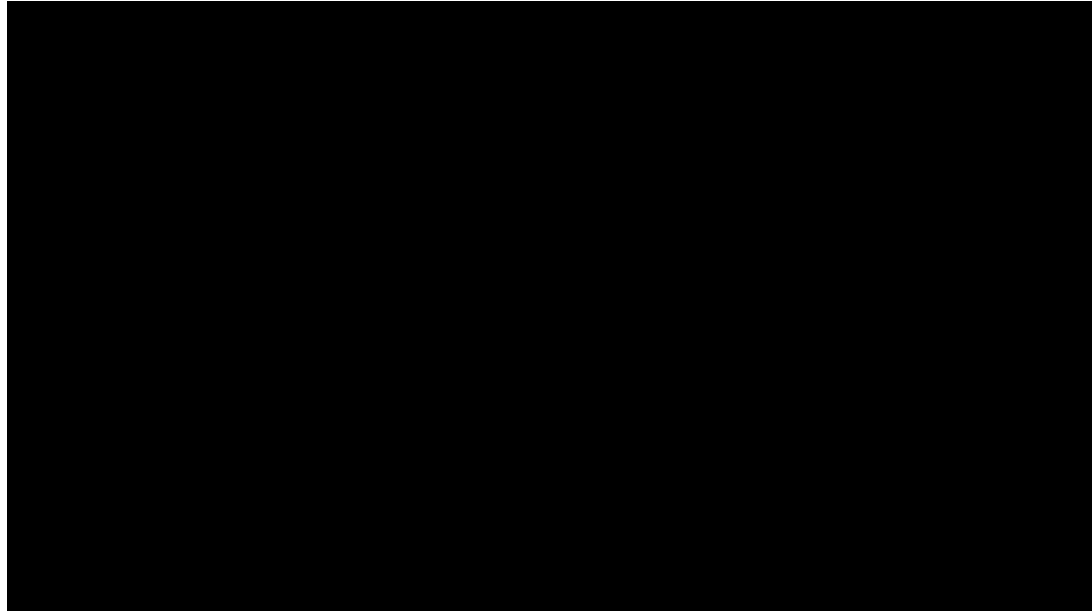




Concrete Girder ↔ **Transitional Truss** ↔ **Structural Steel Tube**



WAVE WALL: LIGO, Livingston, LA

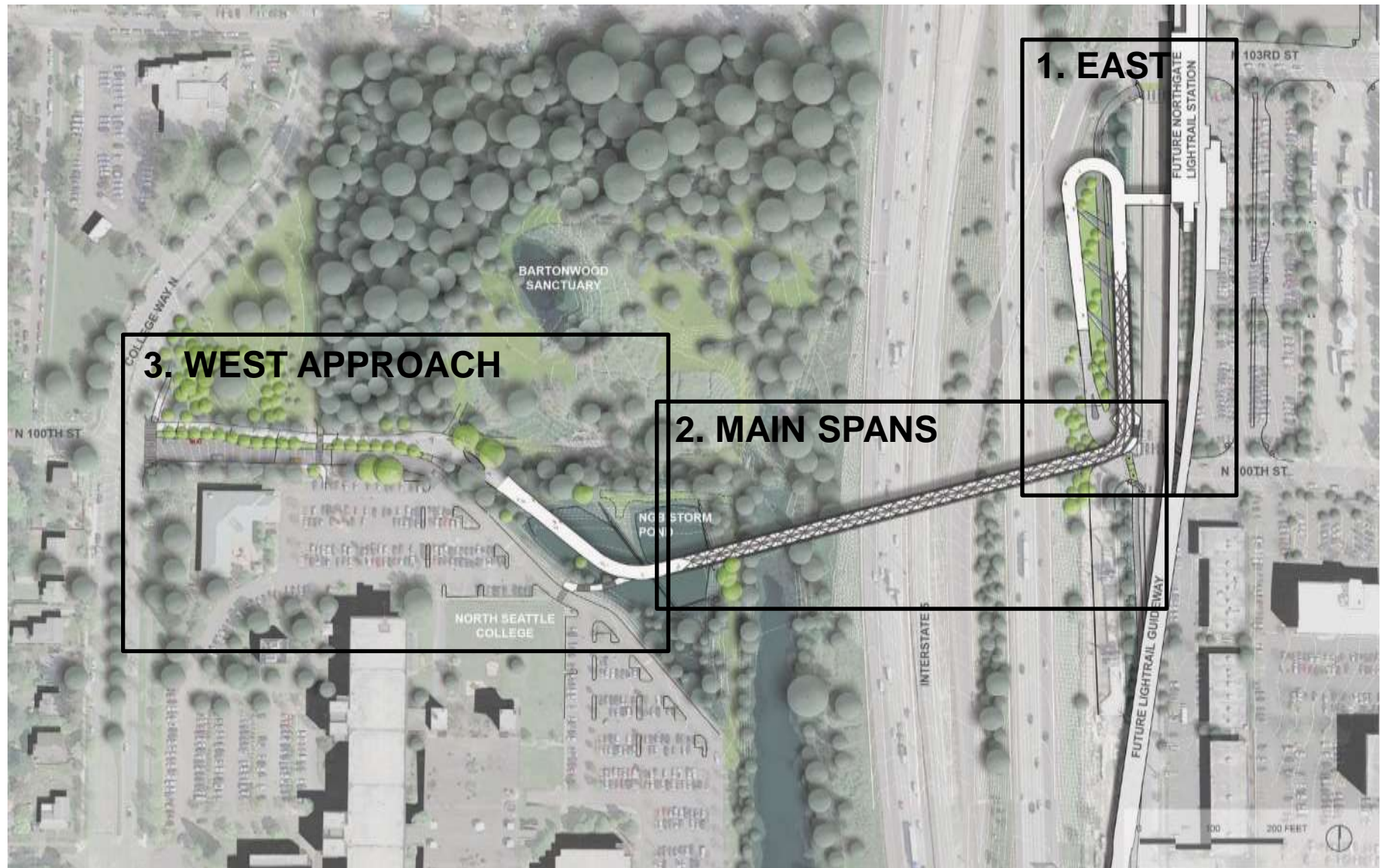


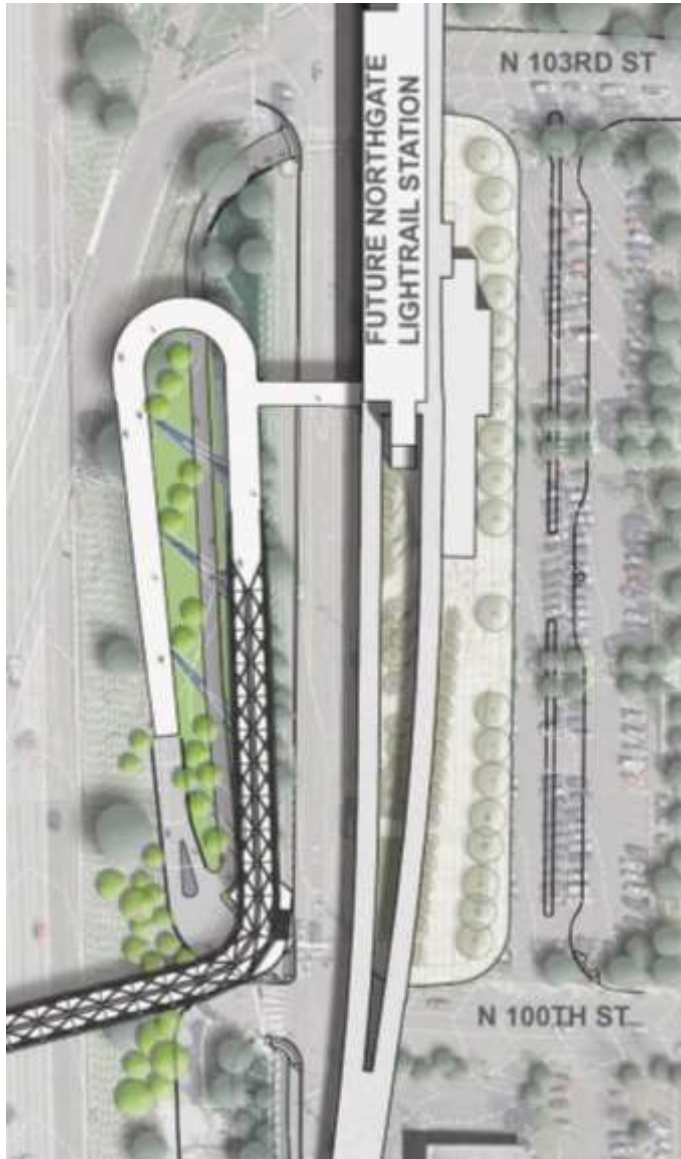
WINDSWEPT: Randall Museum,
San Francisco, CA



UNDERGROUND ESTUARY: Real-time graphing of sub-surface tidal fluctuations.

BRIDGE AND LANDSCAPE DESIGN





1. Context
2. Access
3. Landscape Design
4. Sound Transit Connection
5. Stairs

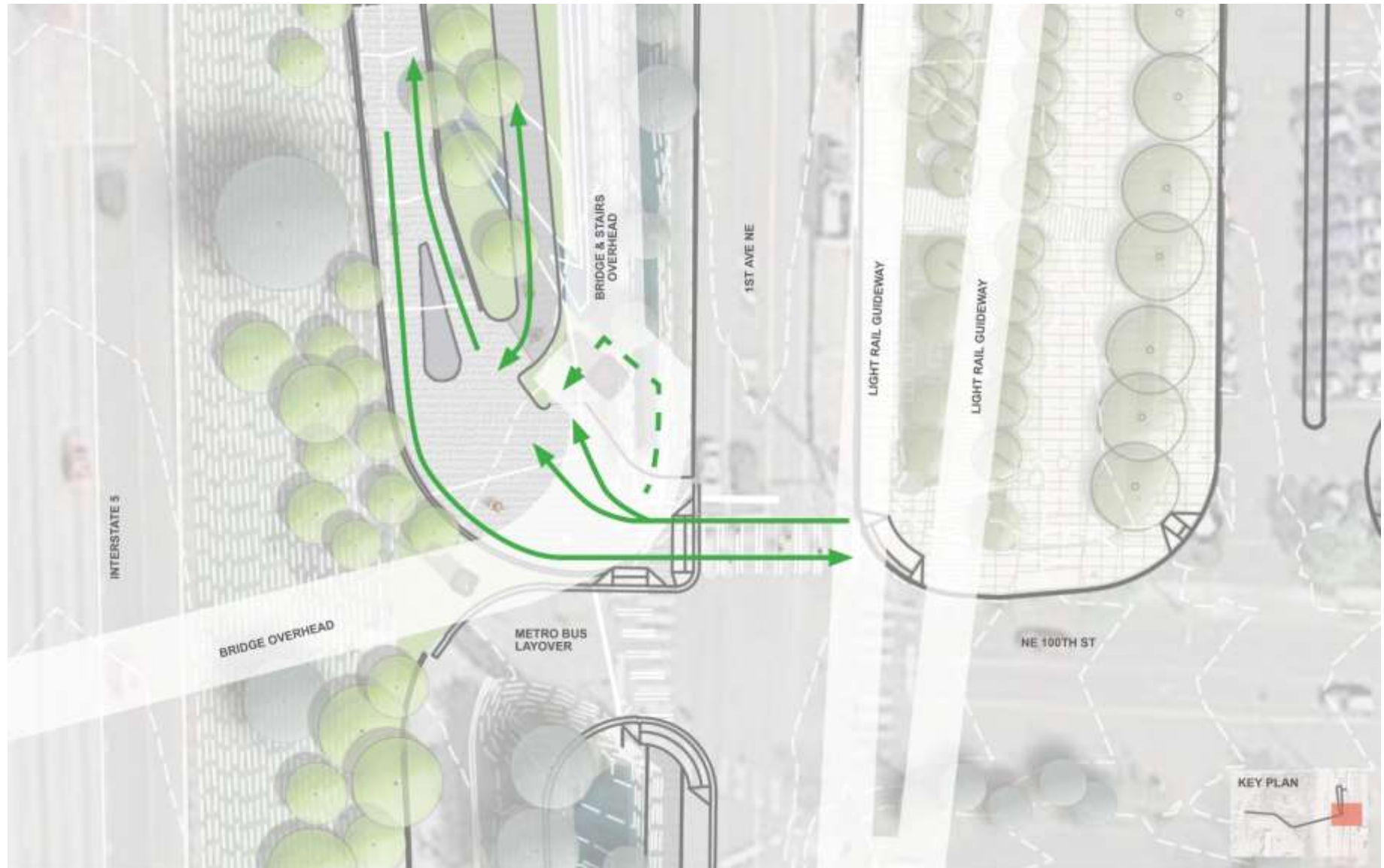


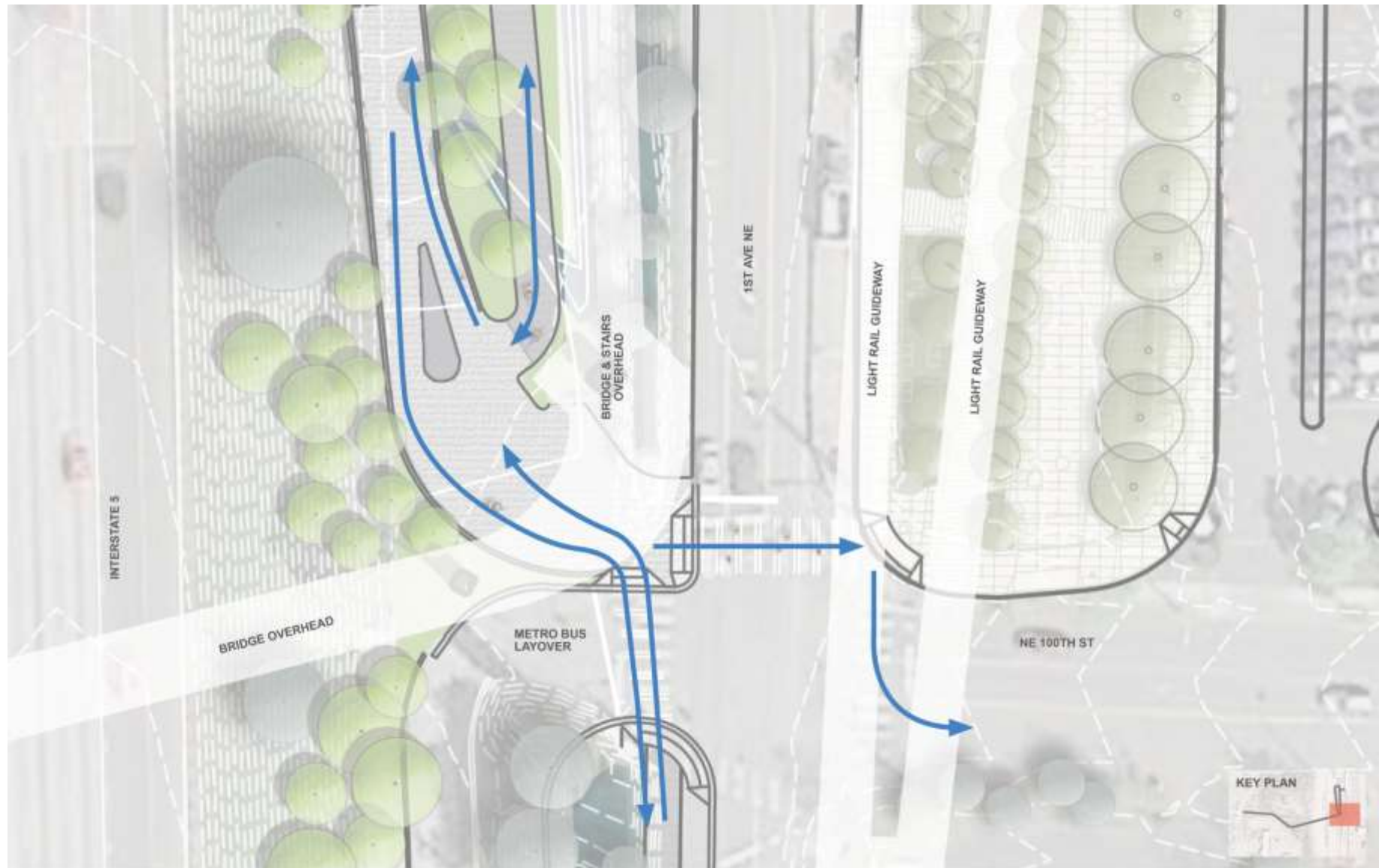


--- Existing Water Flow
— Northgate Bridge Water

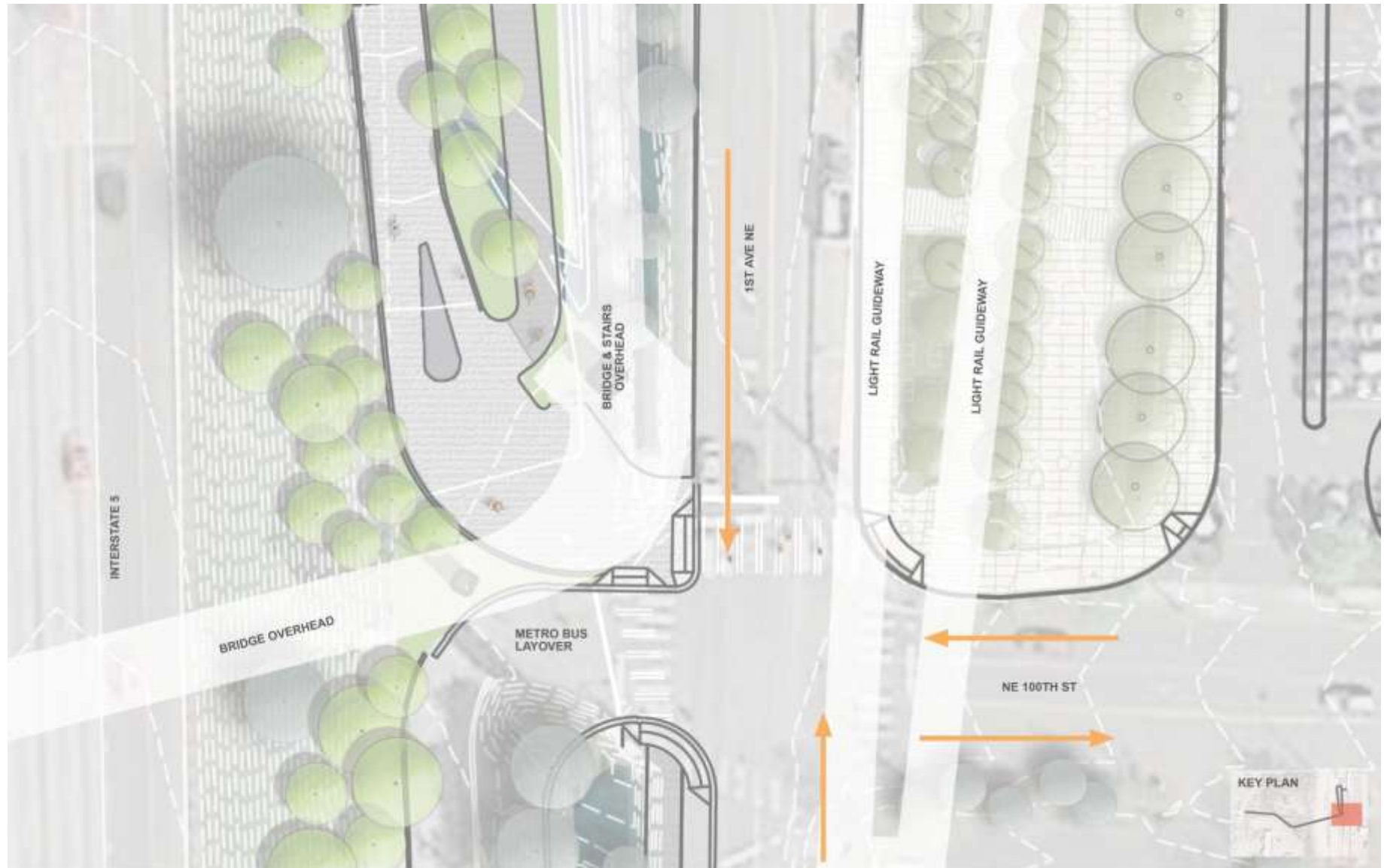


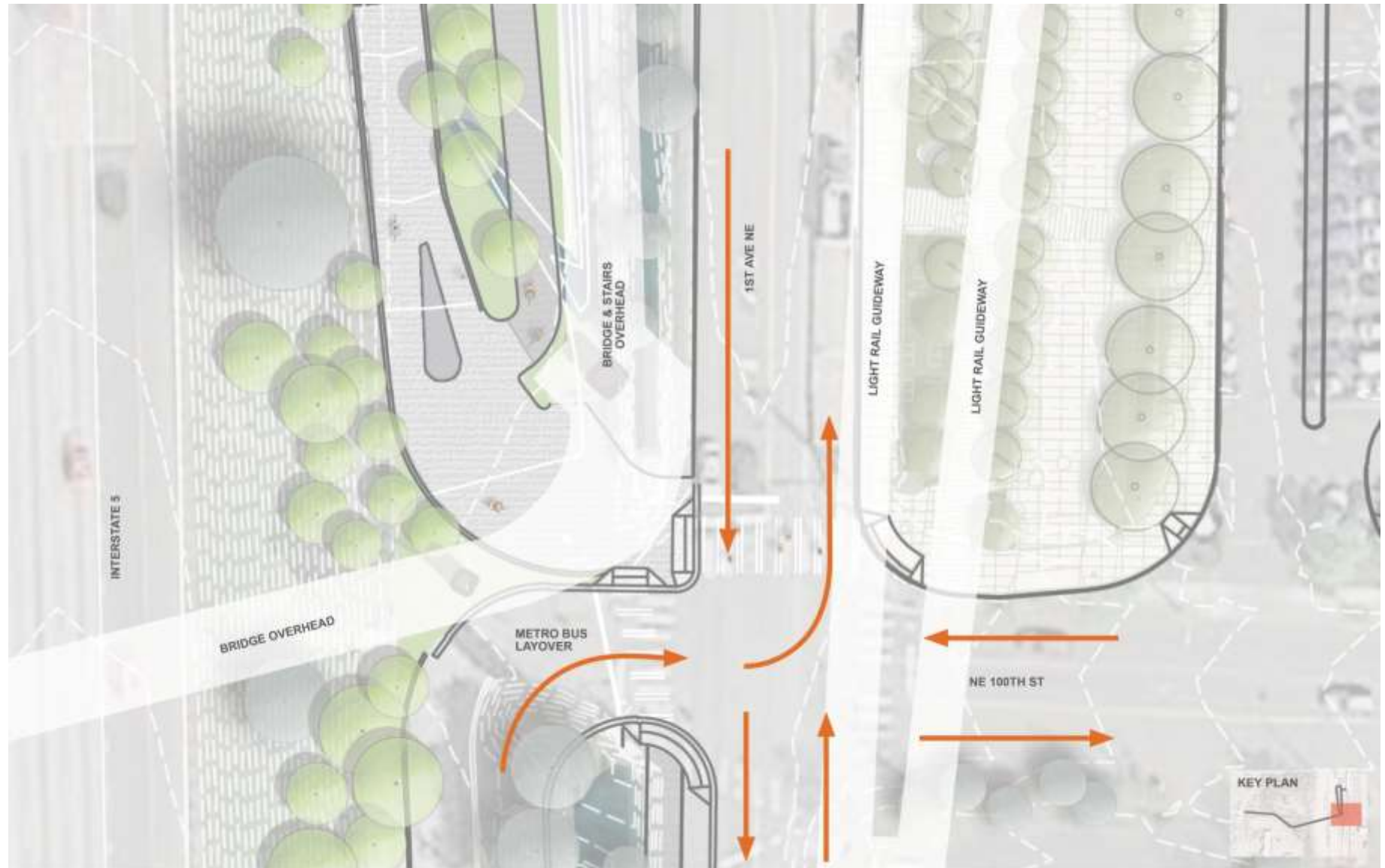


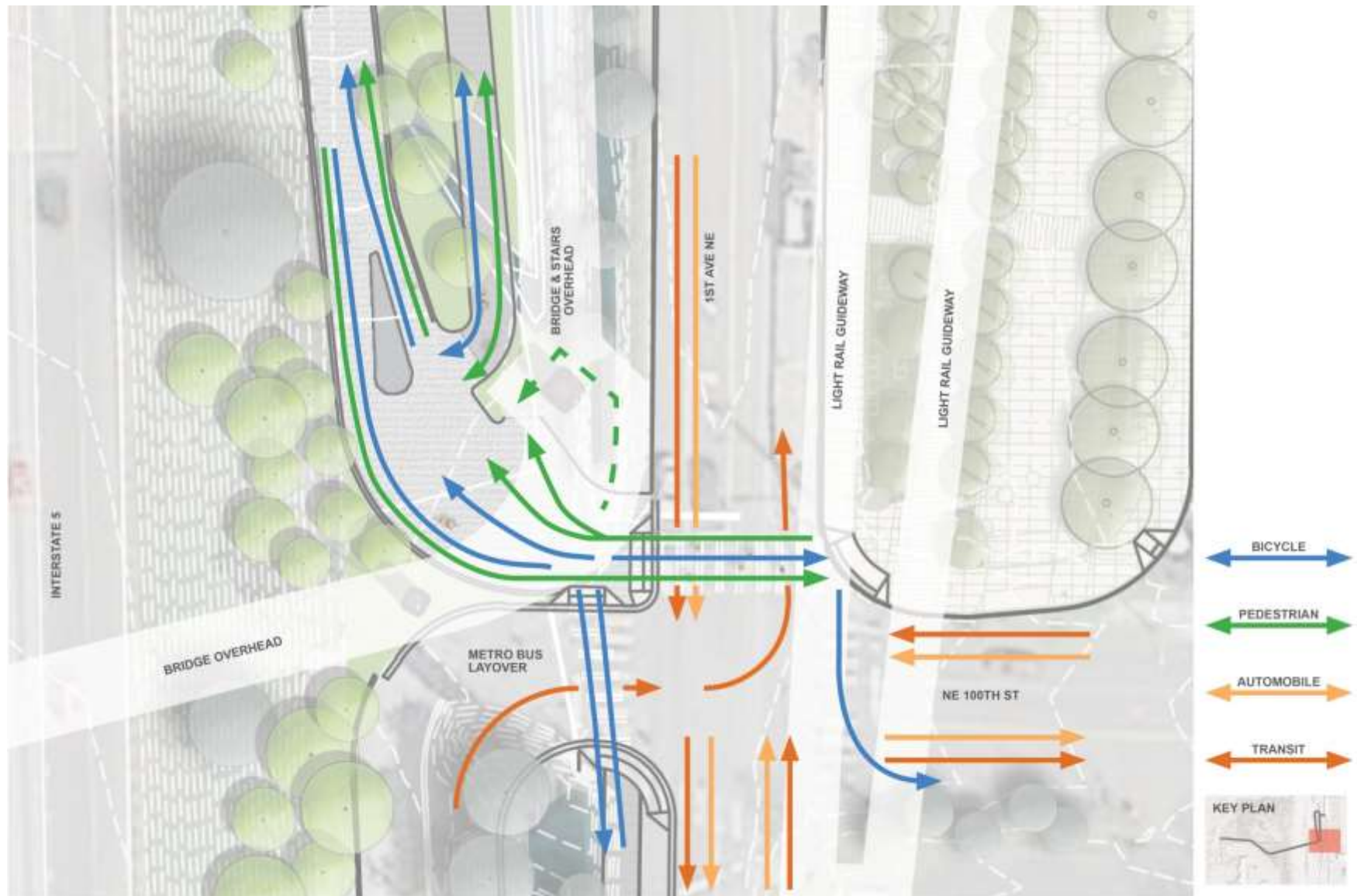


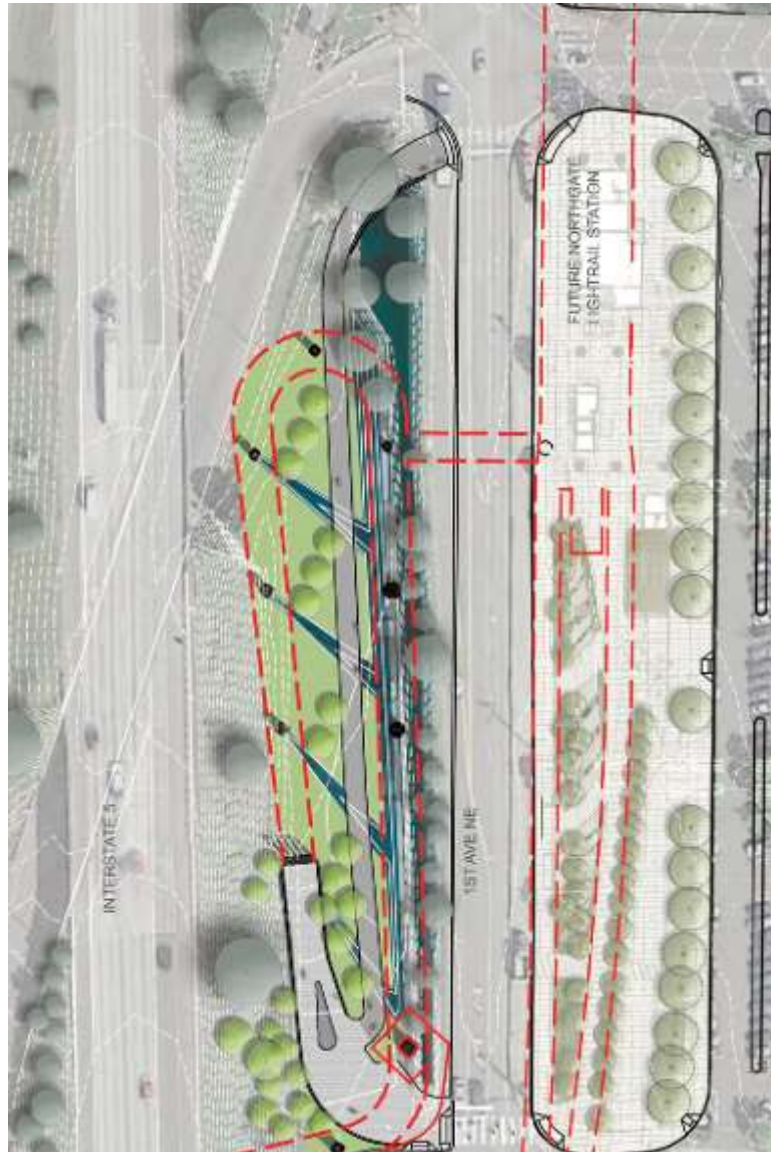


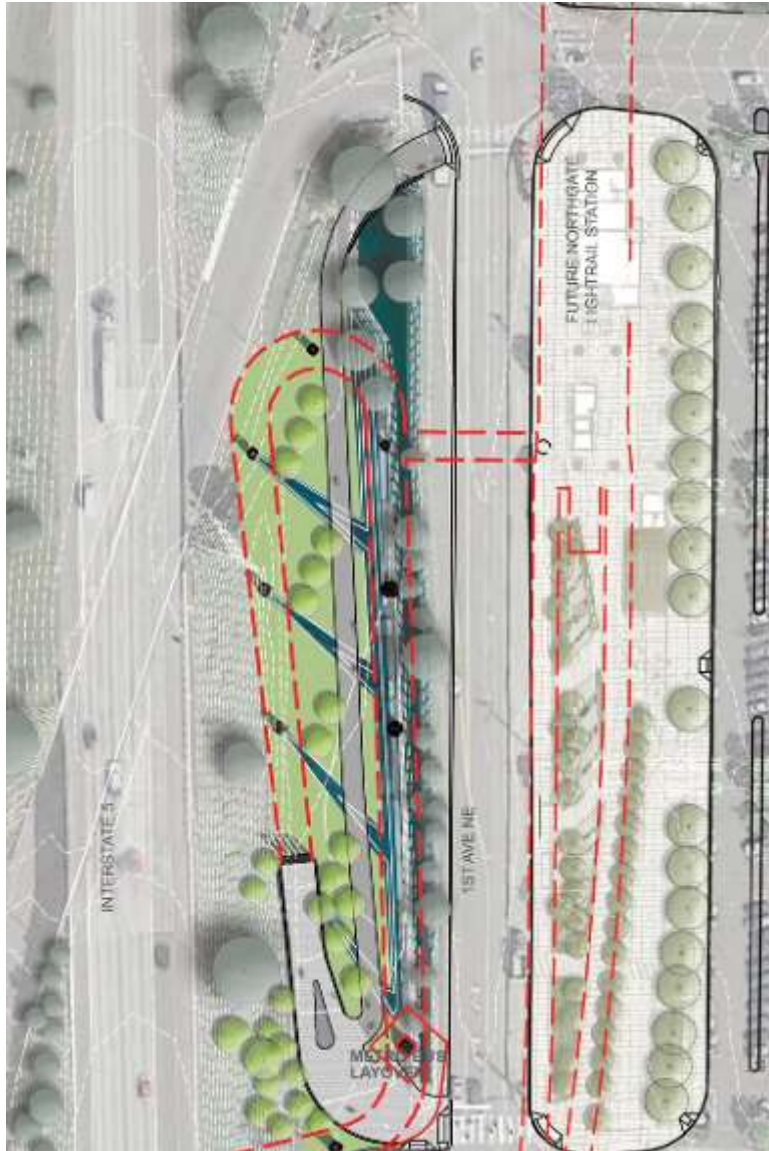
EAST APPROACH | Access: Adjacent Automobile Movement 46



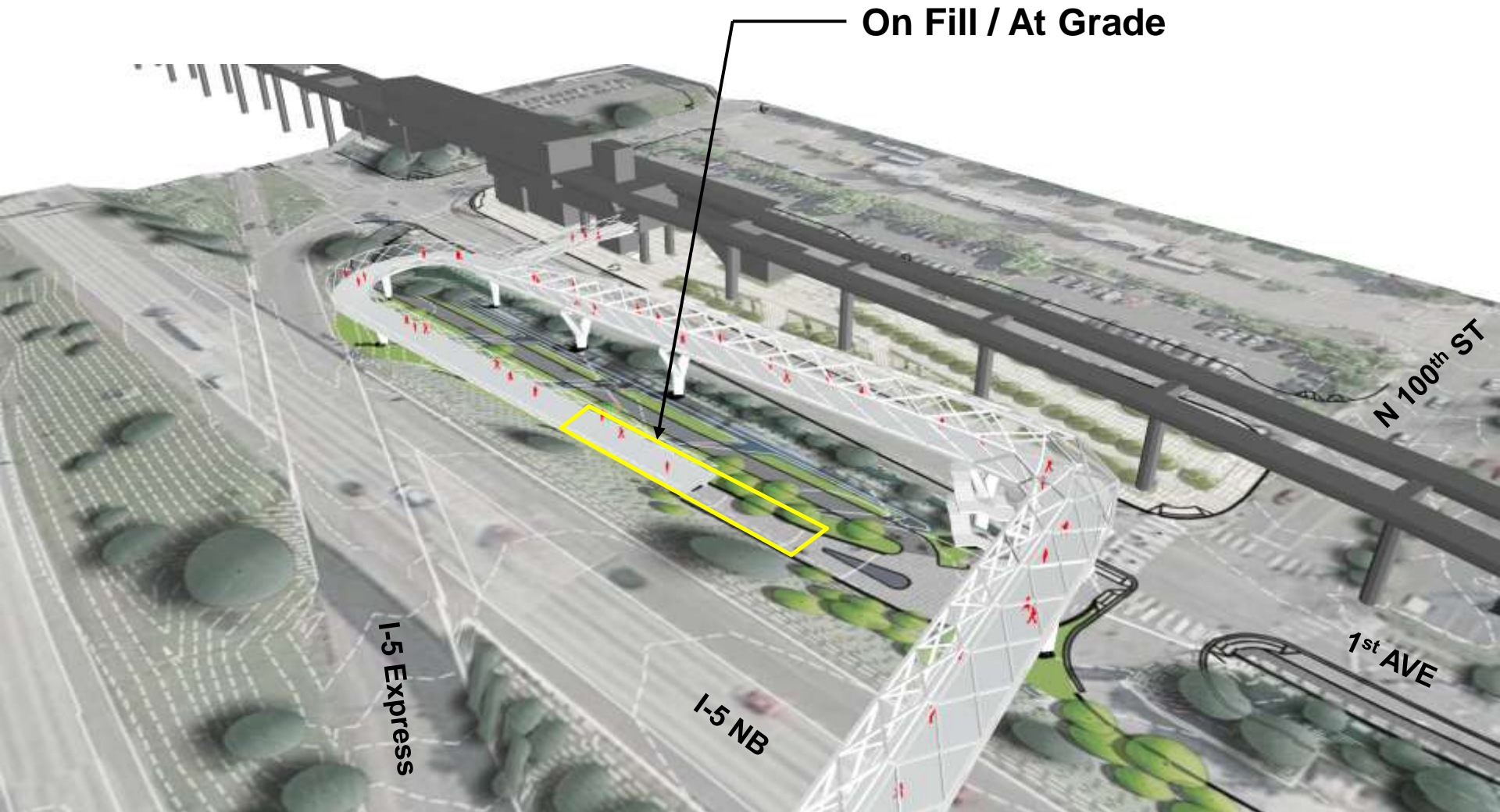


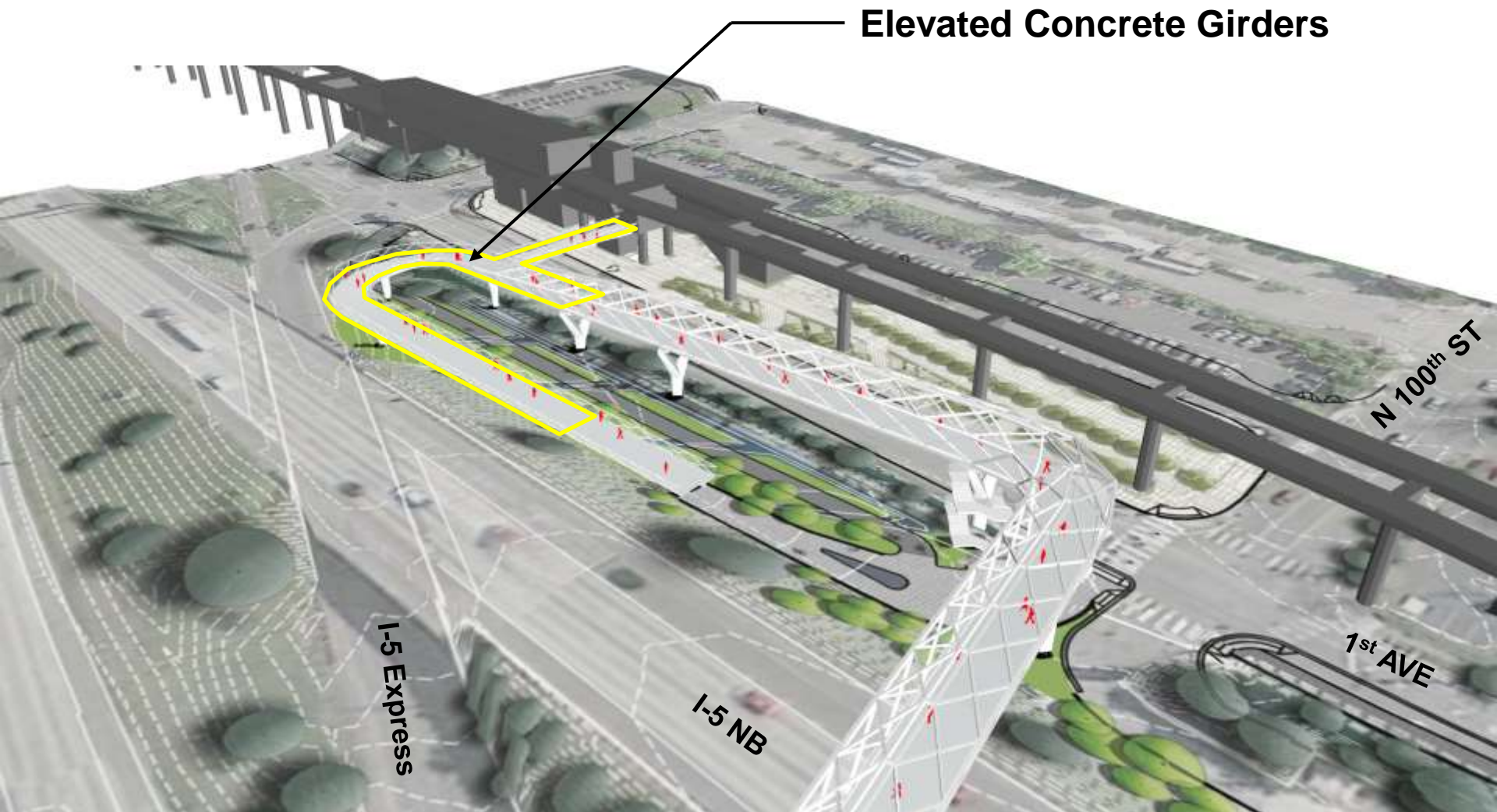


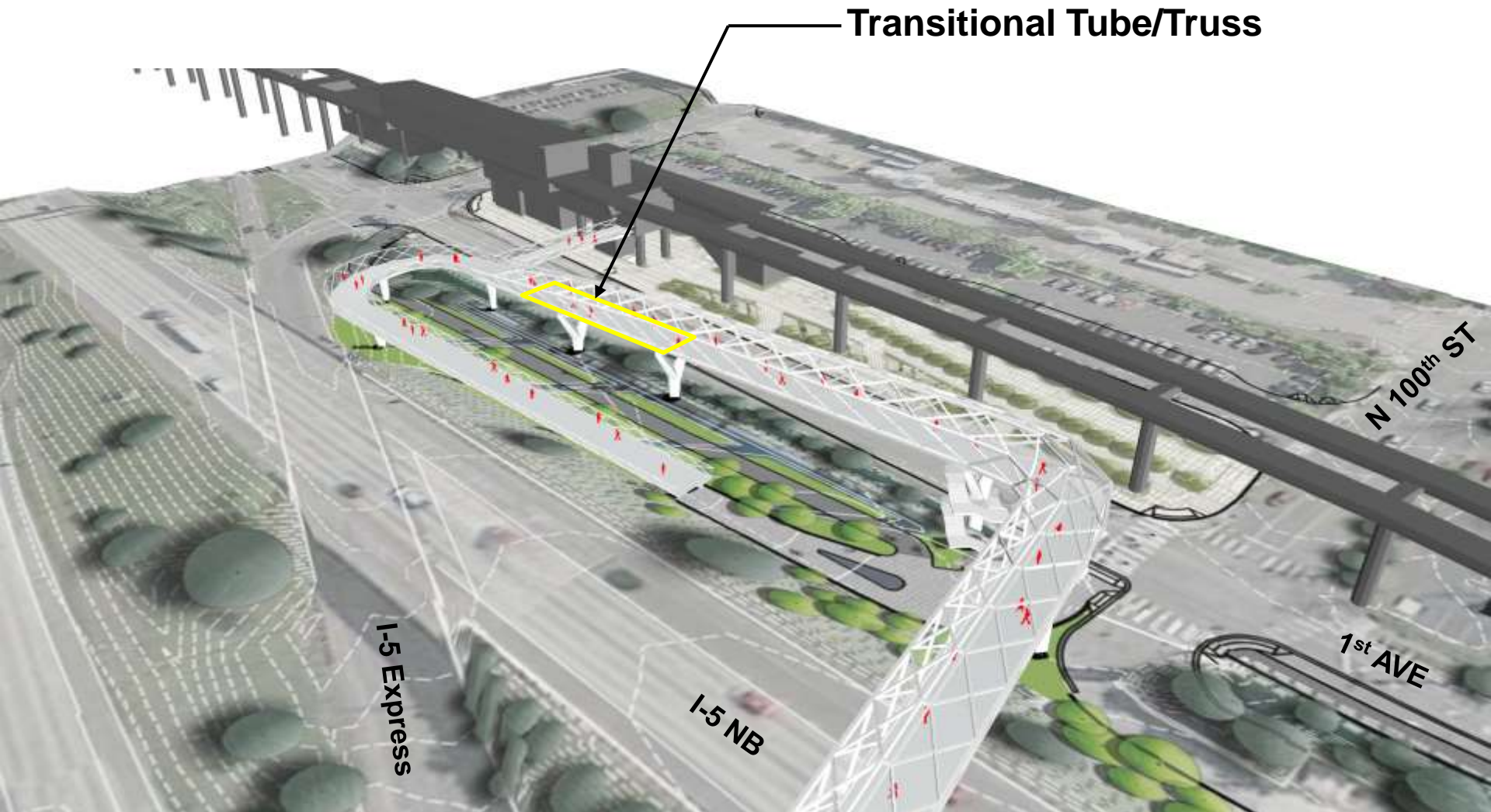


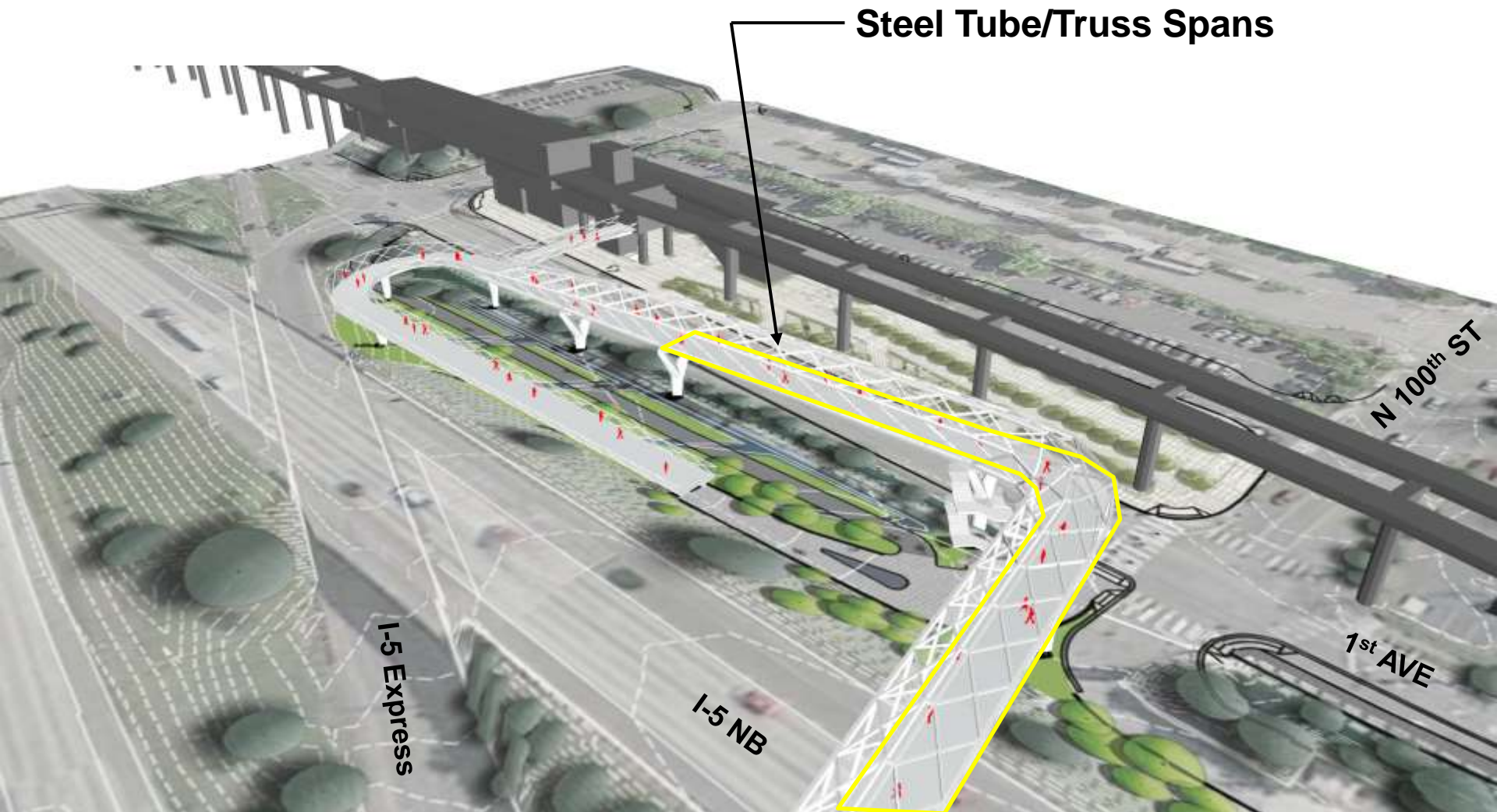


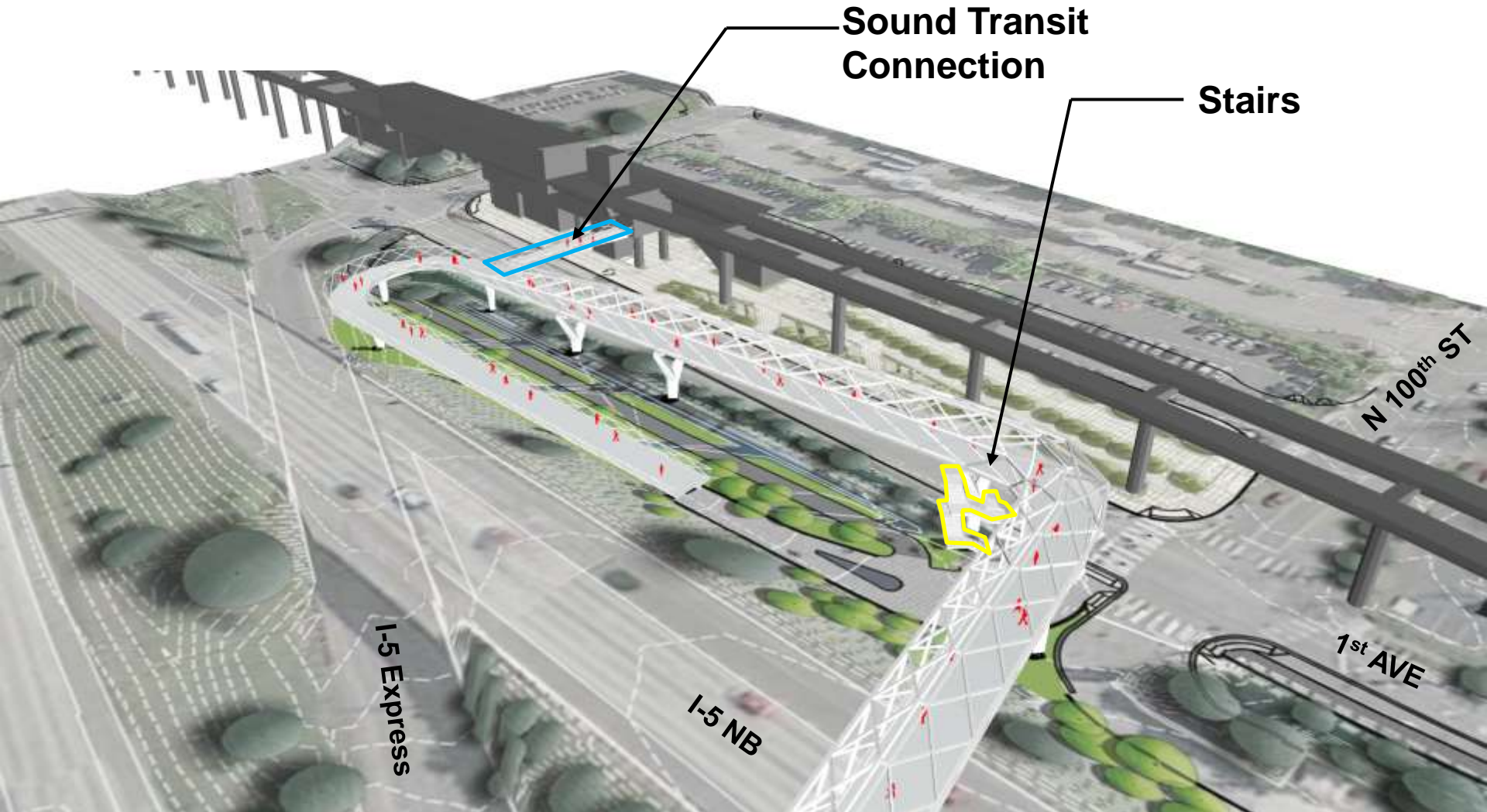


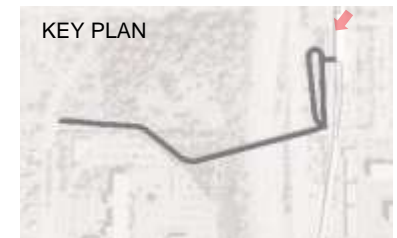


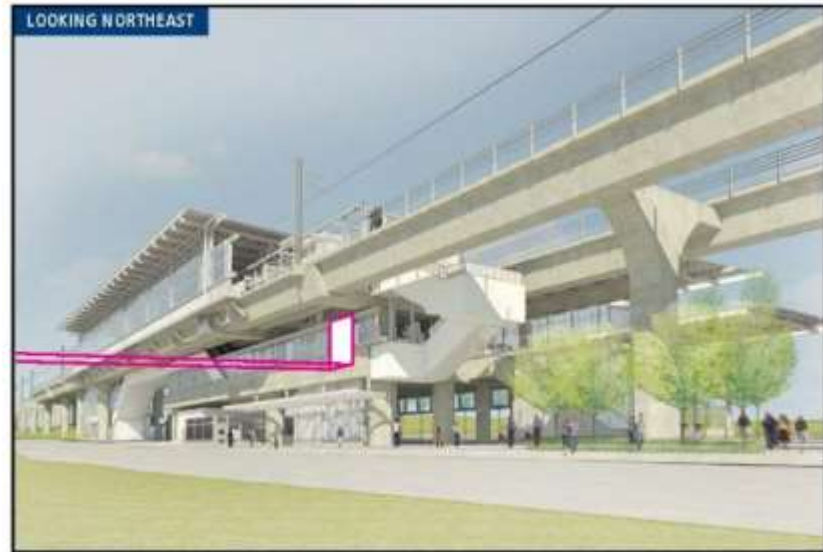














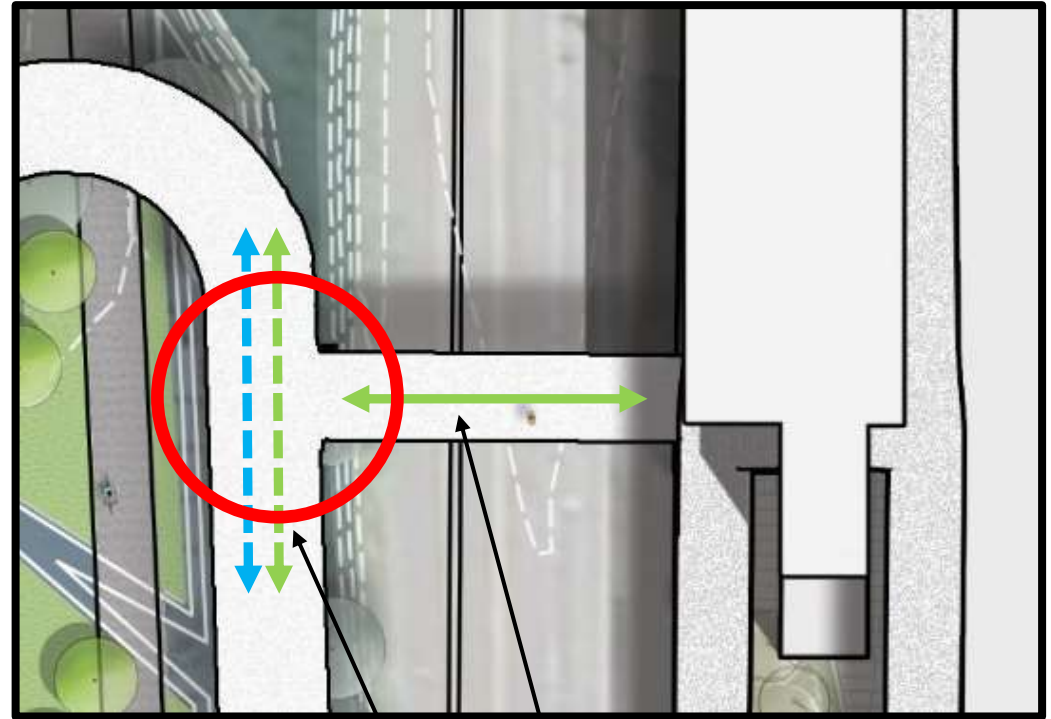
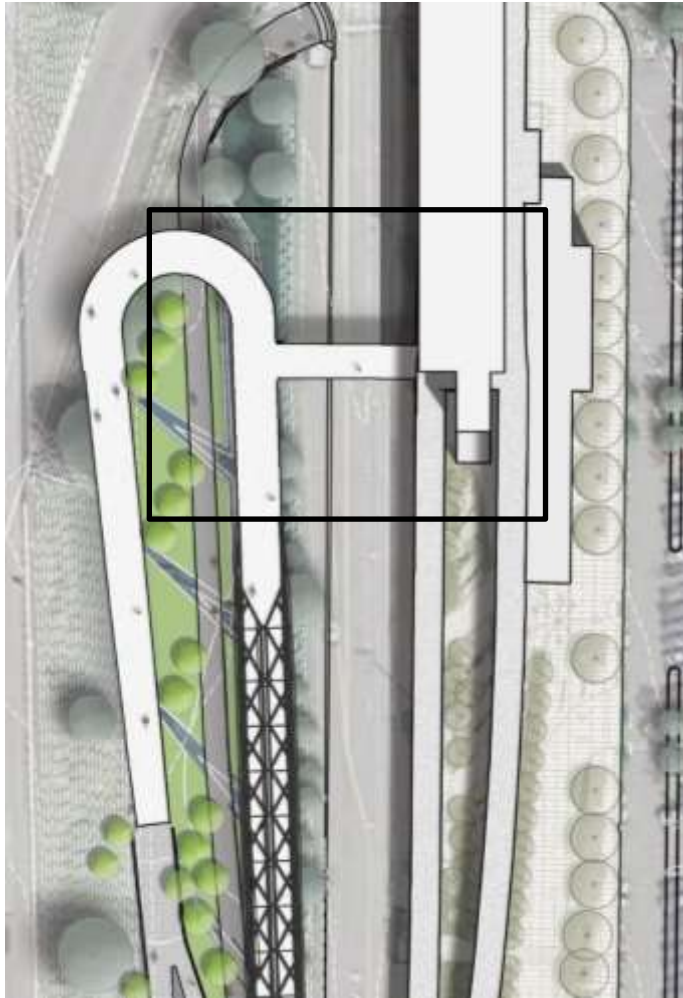
View from Station Mezzanine



View East from 1st Ave

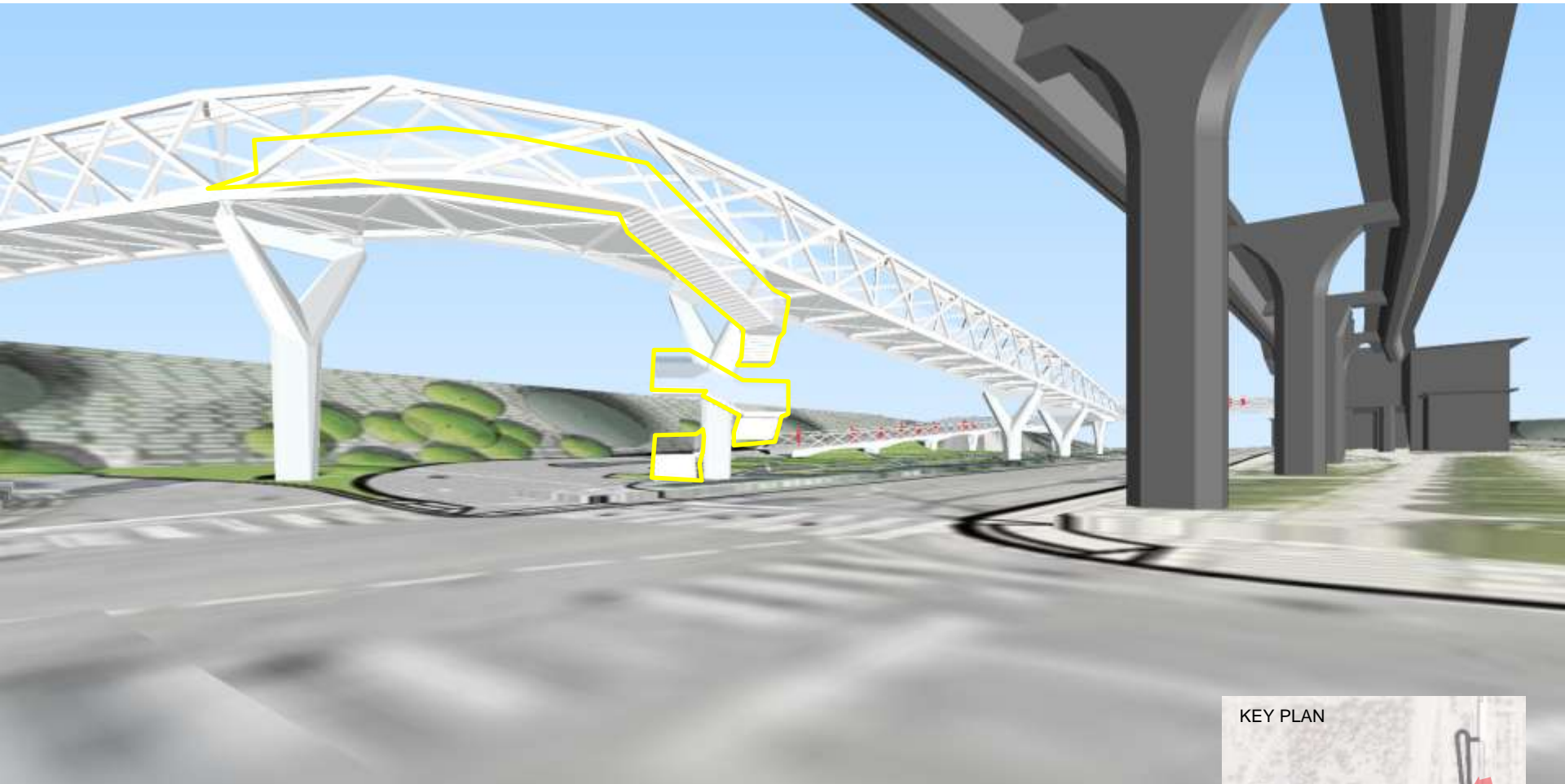


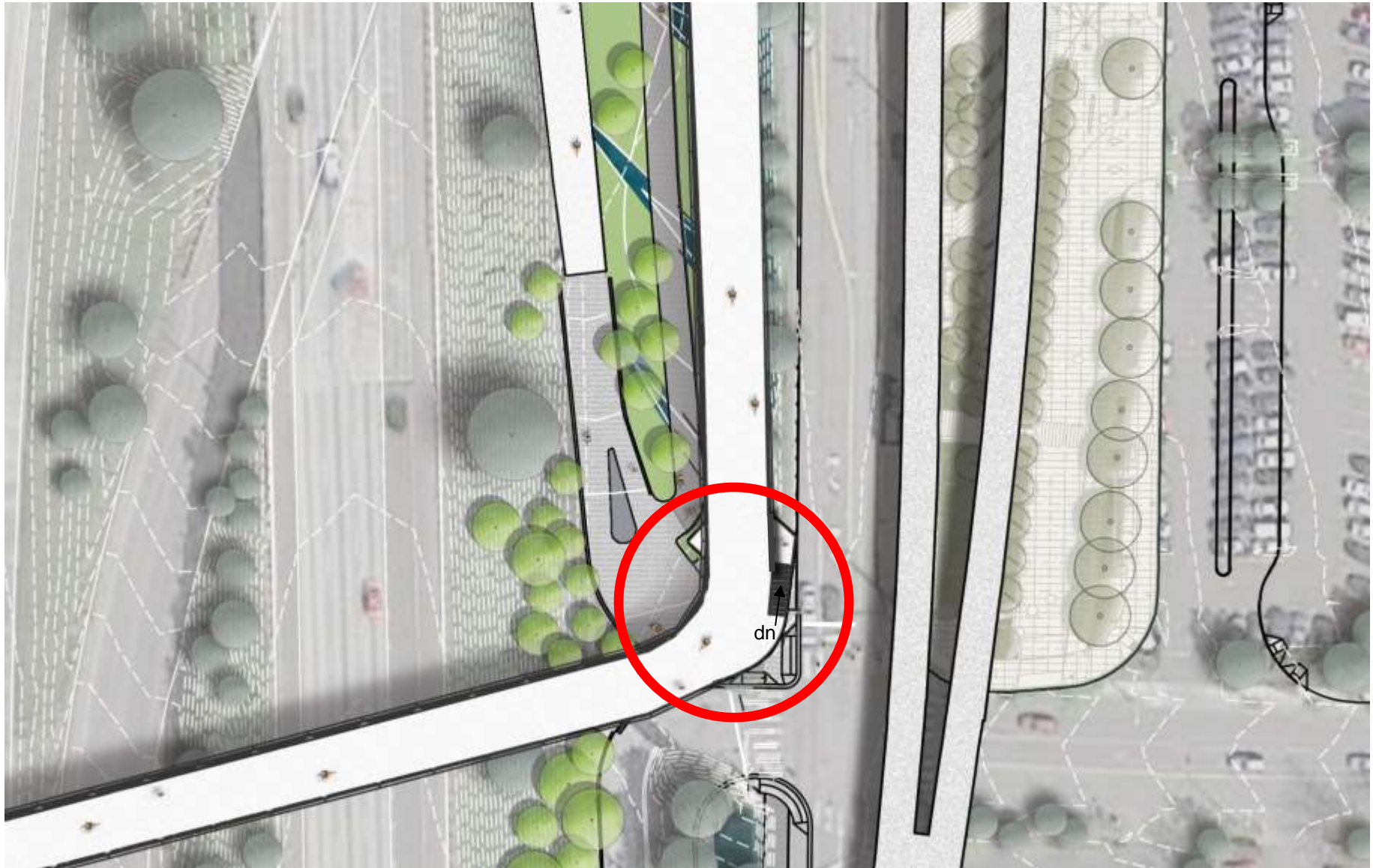
View South along 1st Ave



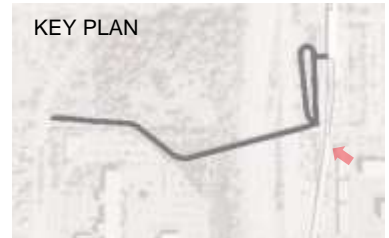
Walking Only

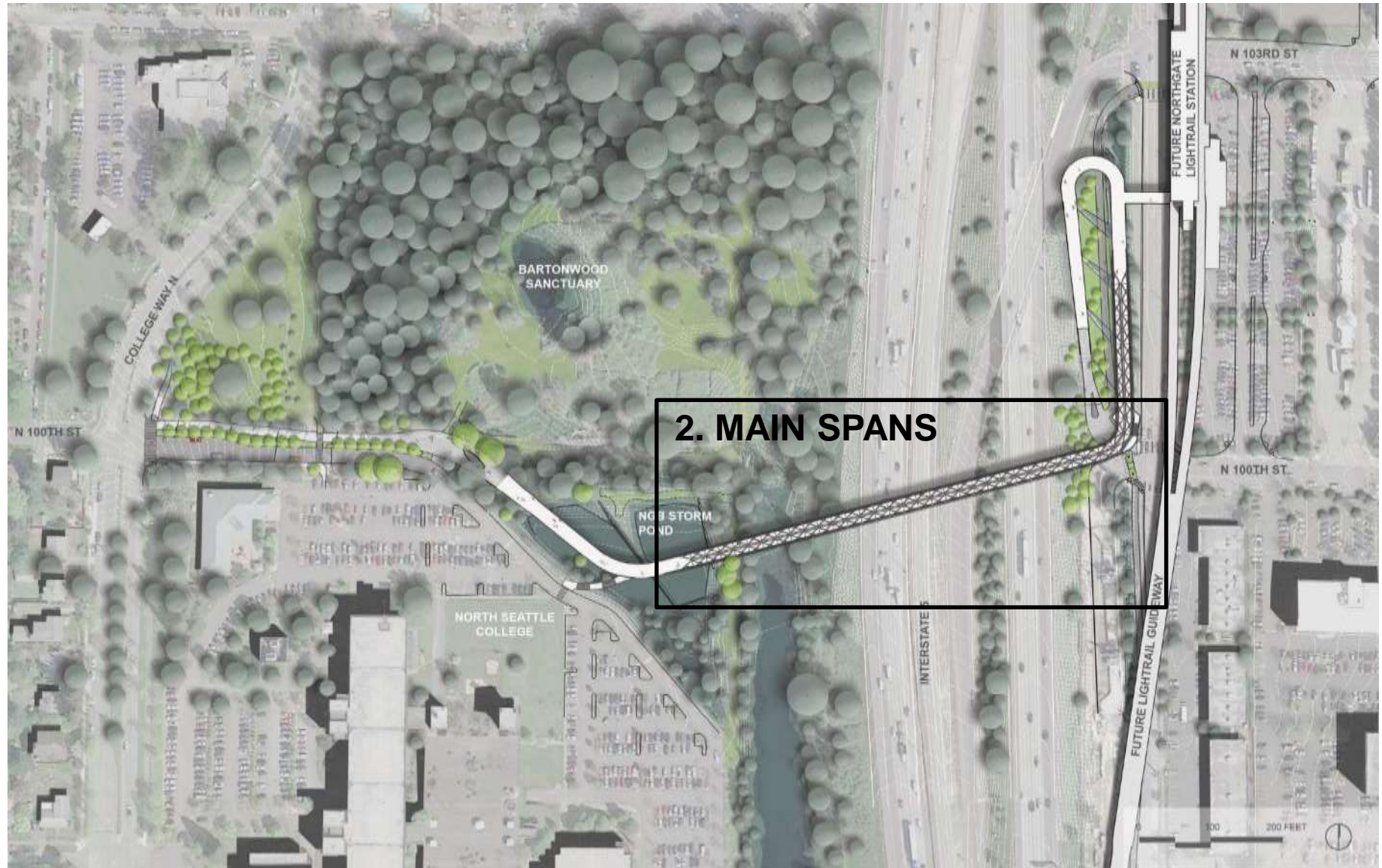
Mixing Zone



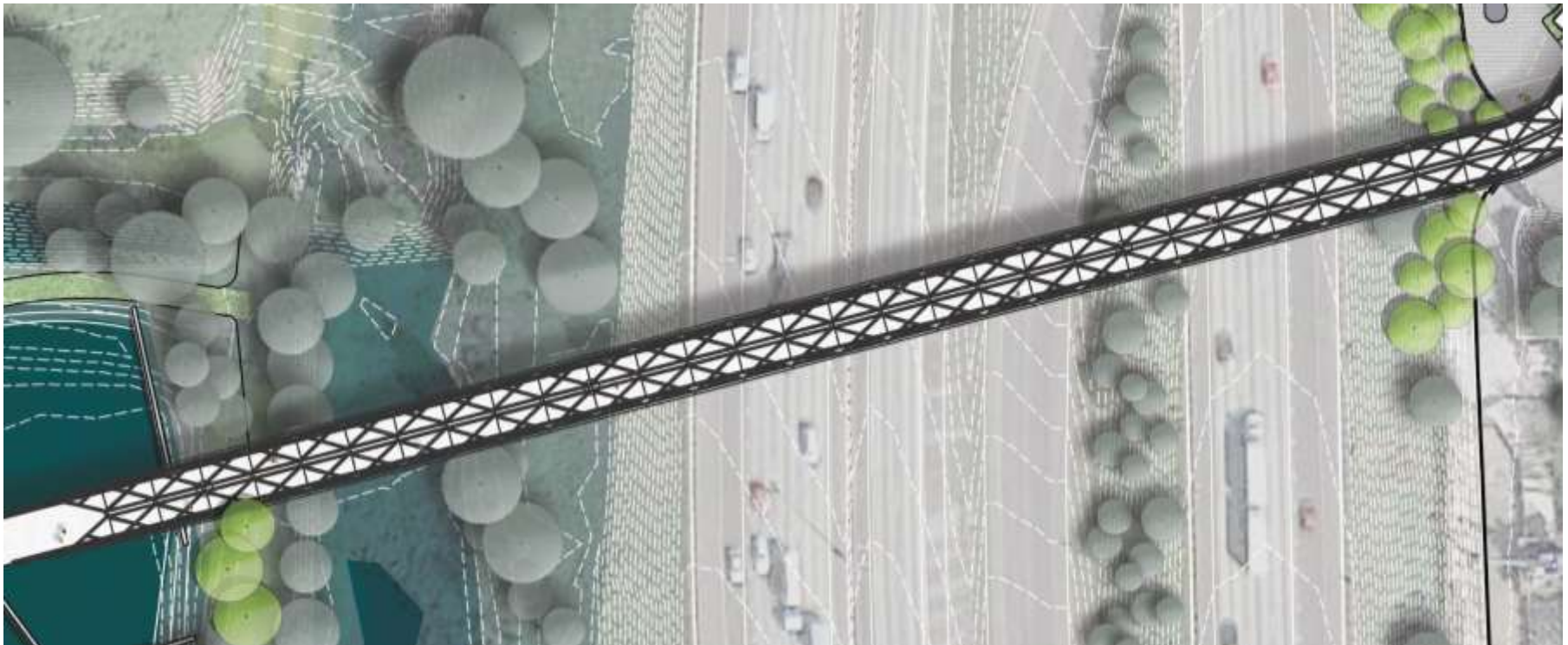


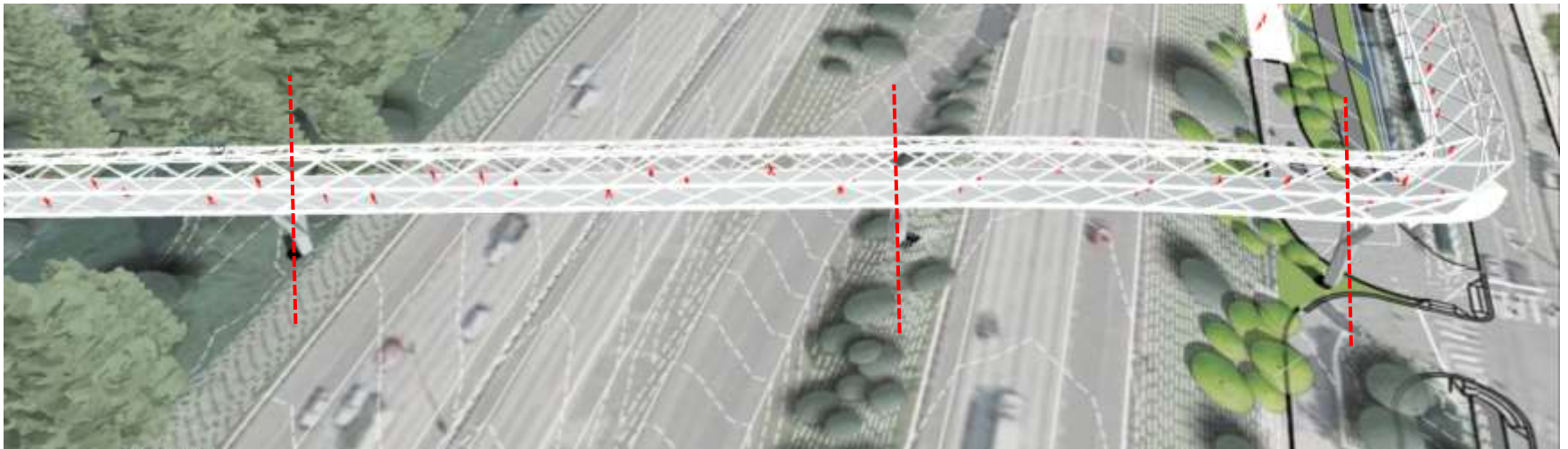
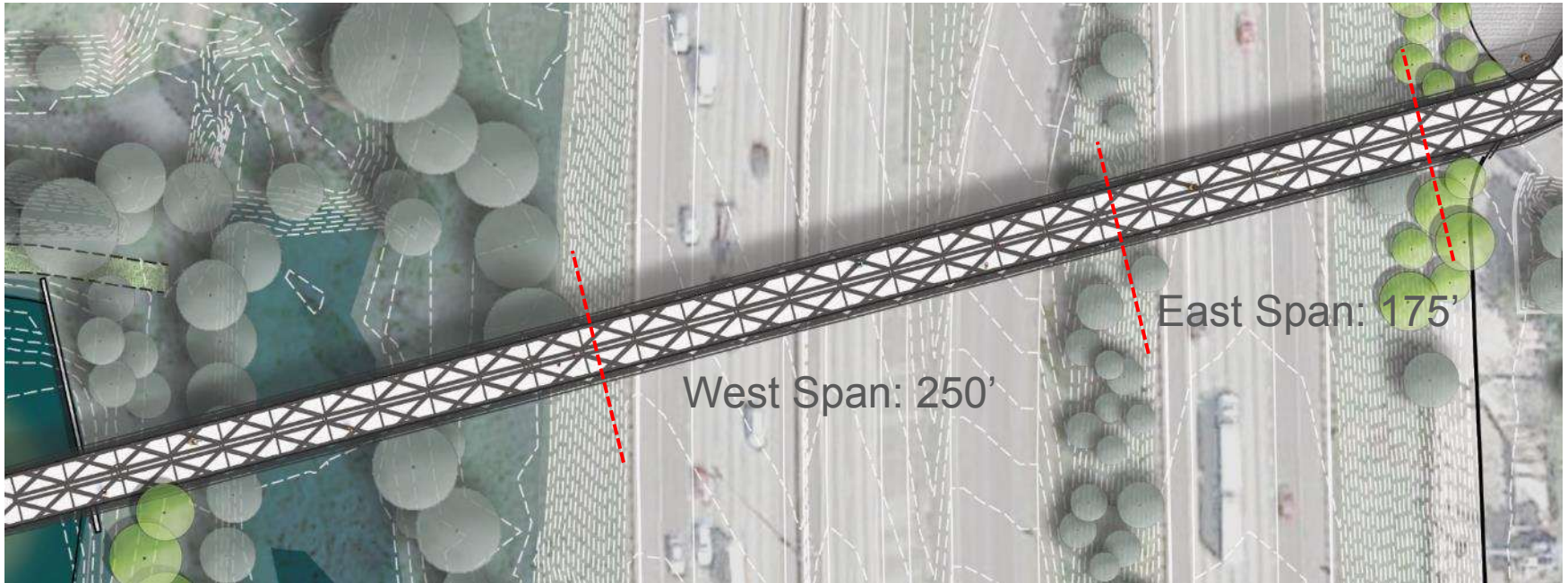






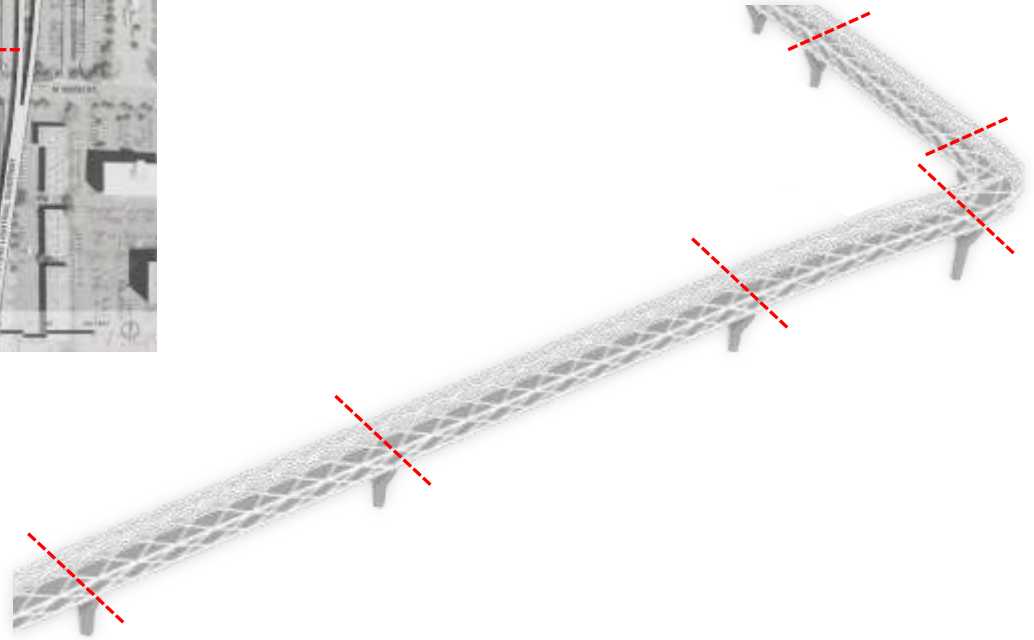
1. Spans
2. Structural Concept
3. Railings and Barrier
4. Lighting
5. Column Design
6. Transition Truss

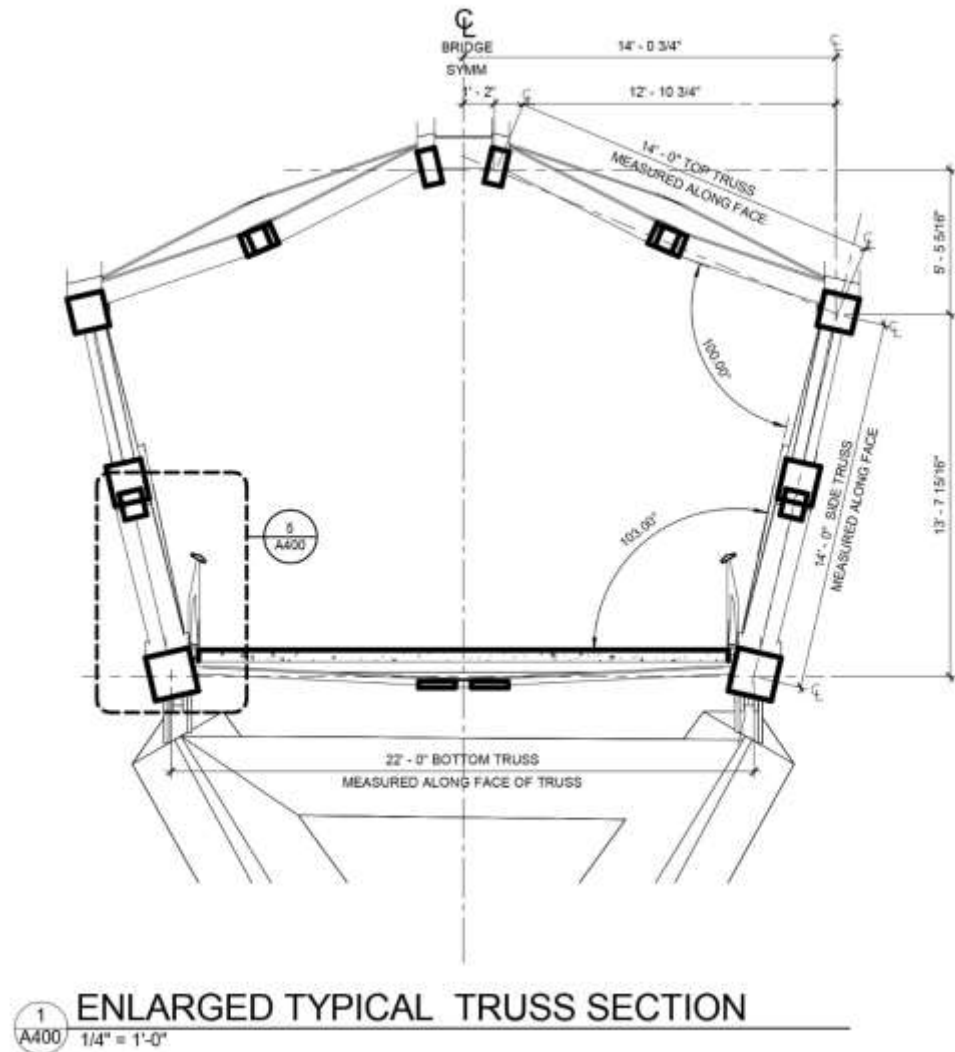


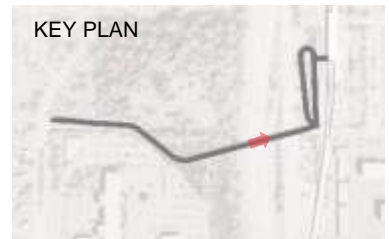


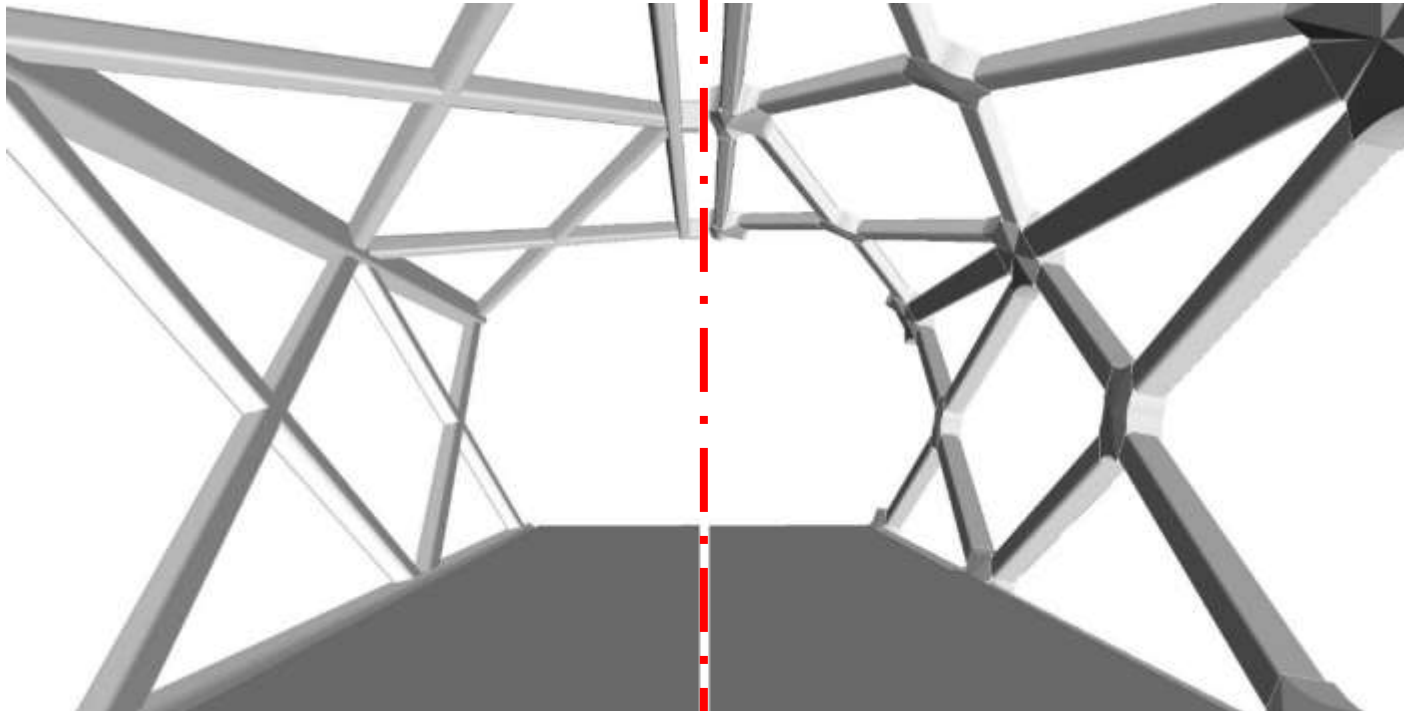


- Higher Quality Fabrication
- Minimizes costly on-site labor
- Minimized impact to i-5





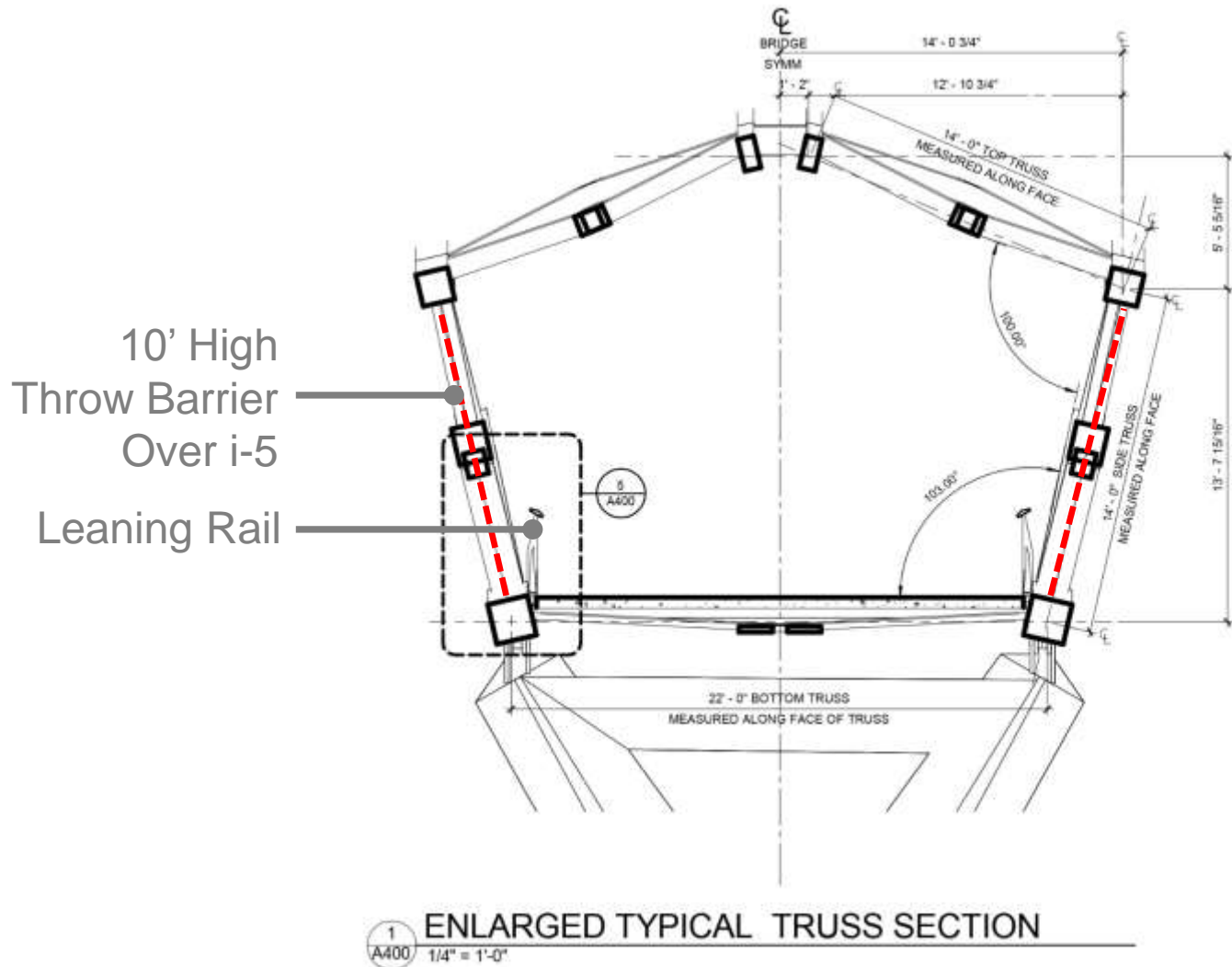




Direct Weld

Cast Steel Nodes



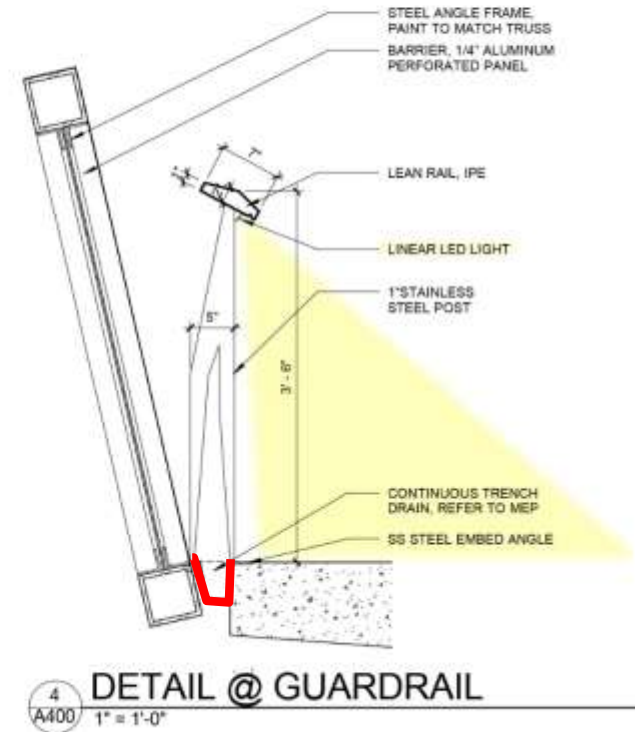
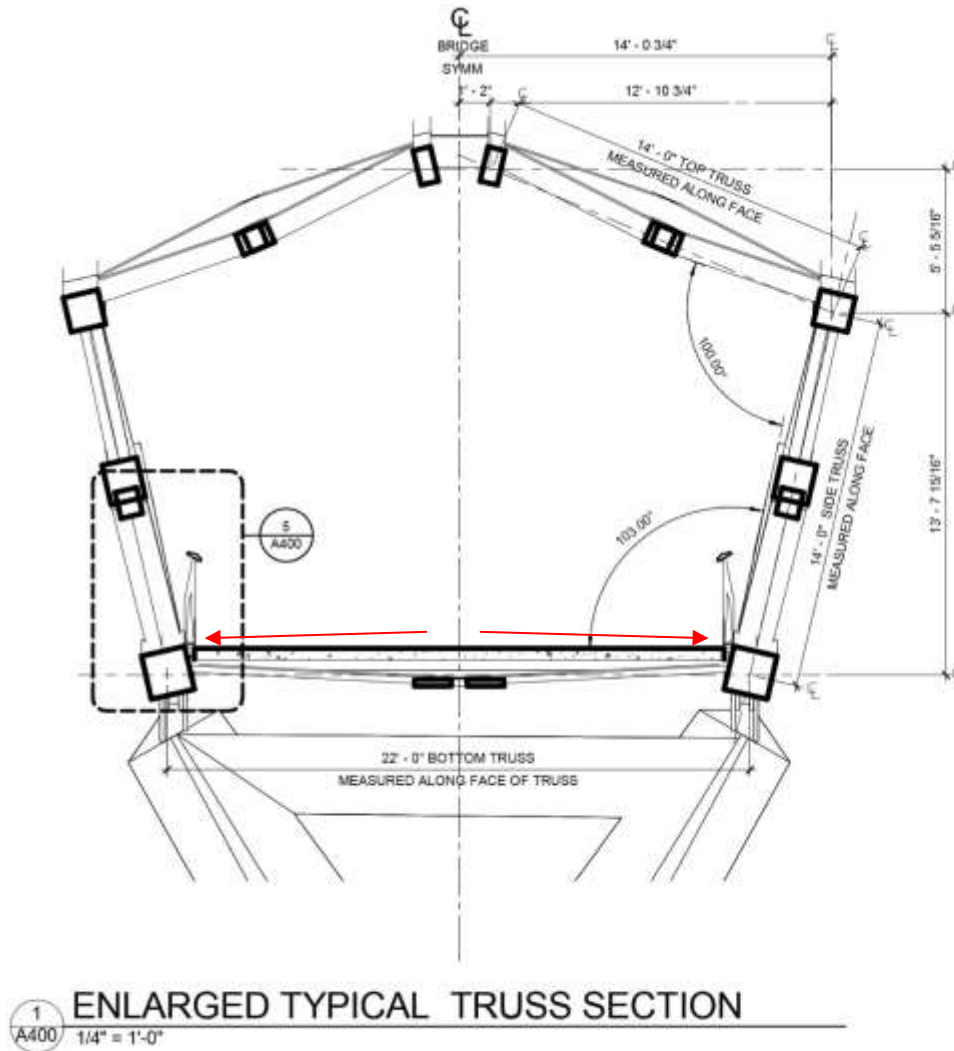


Throw Barrier / Guardrail:
Stainless Steel Cable Mesh

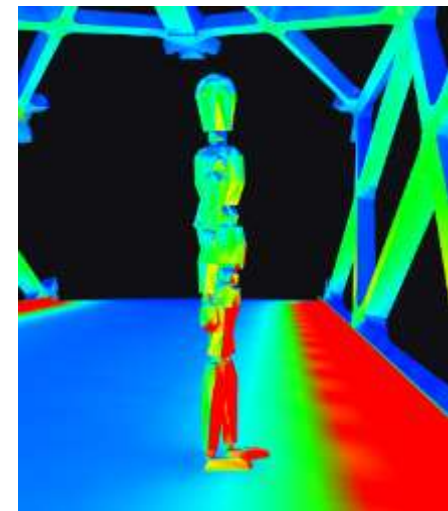
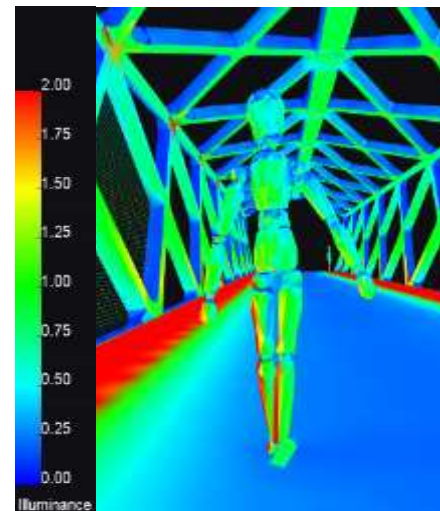
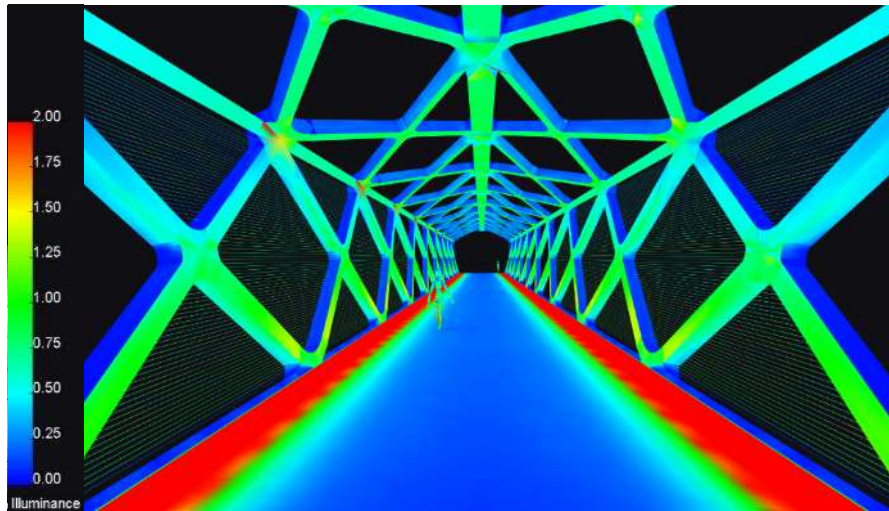
Railing:
Black Locust

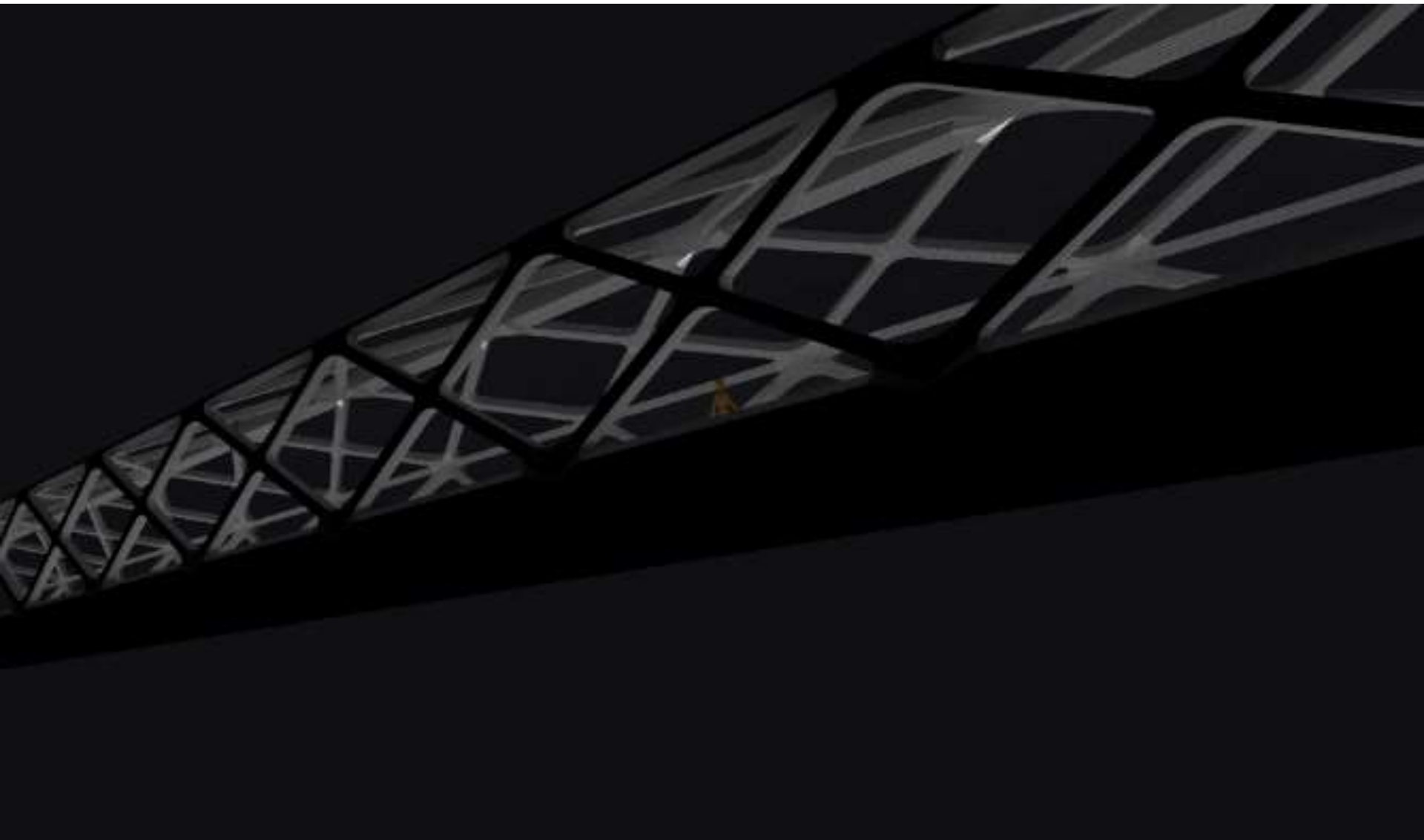
Support Structure:
Stainless Steel



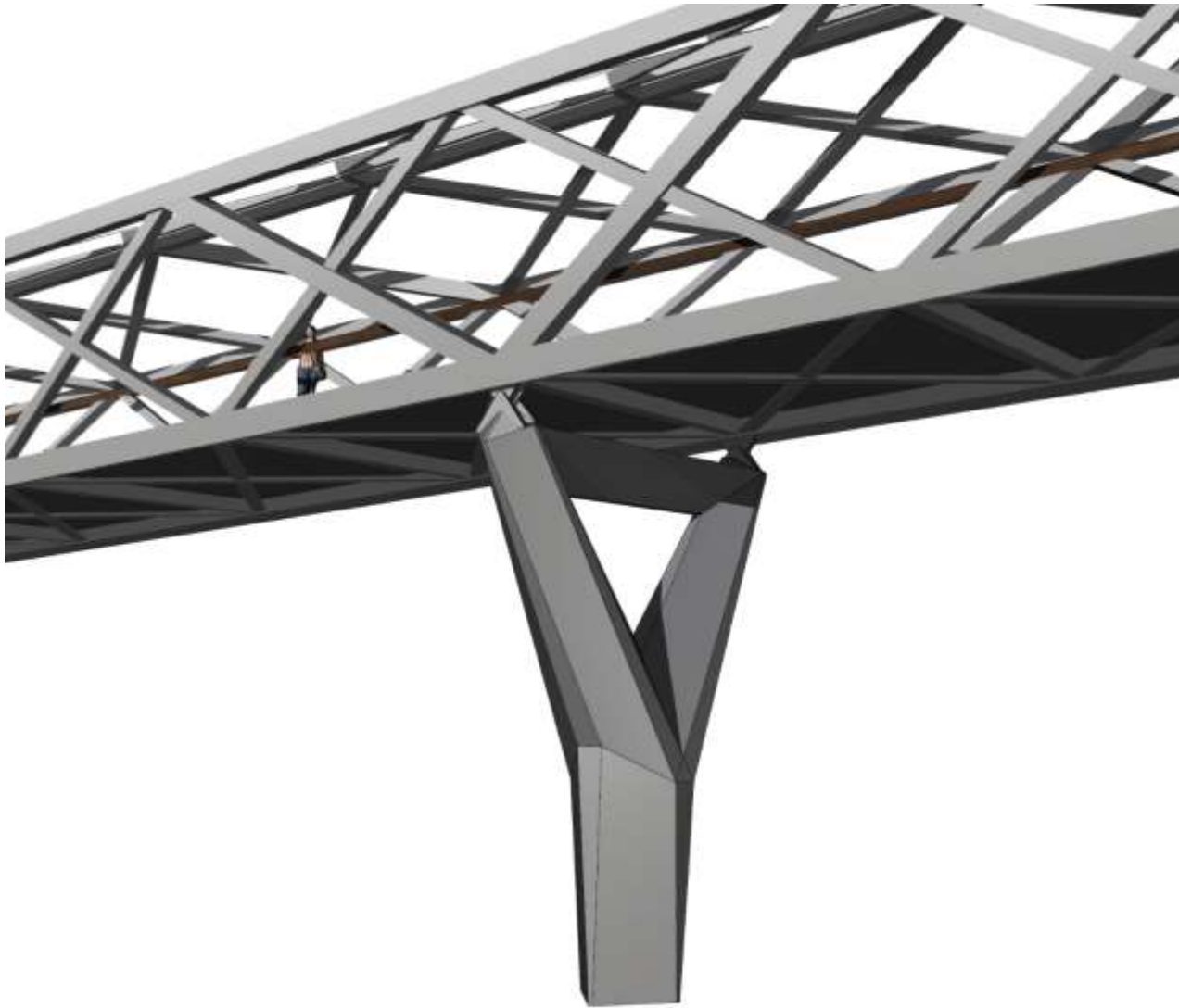


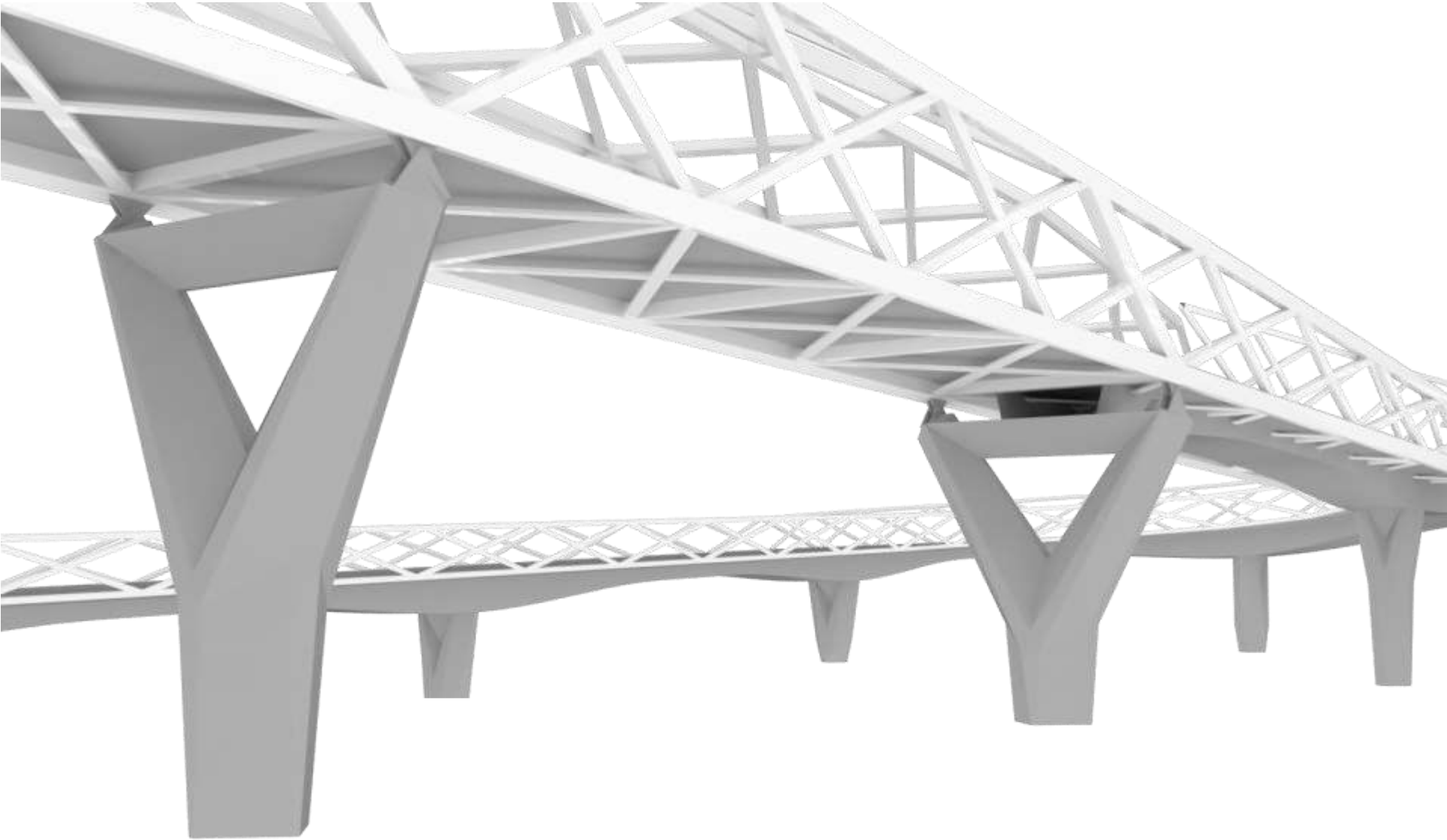


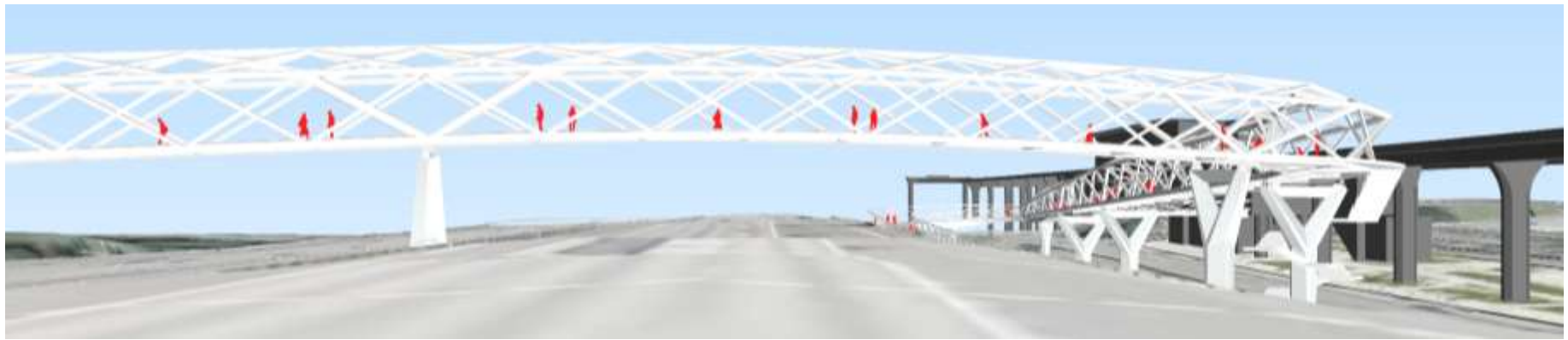




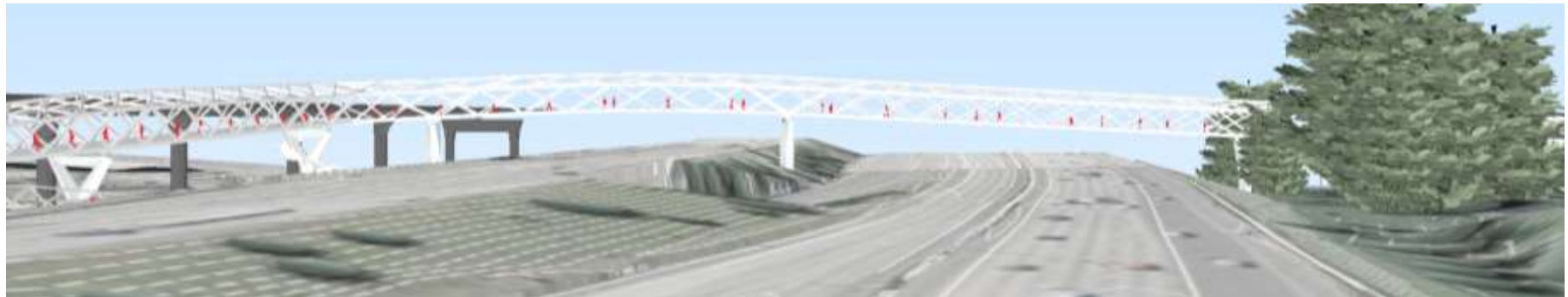
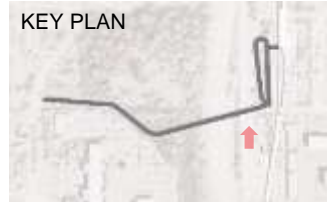




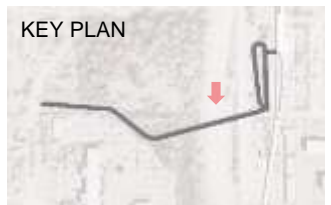




From NB I-5



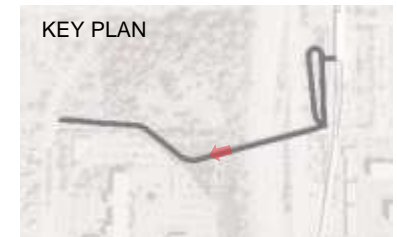
From SB I-5







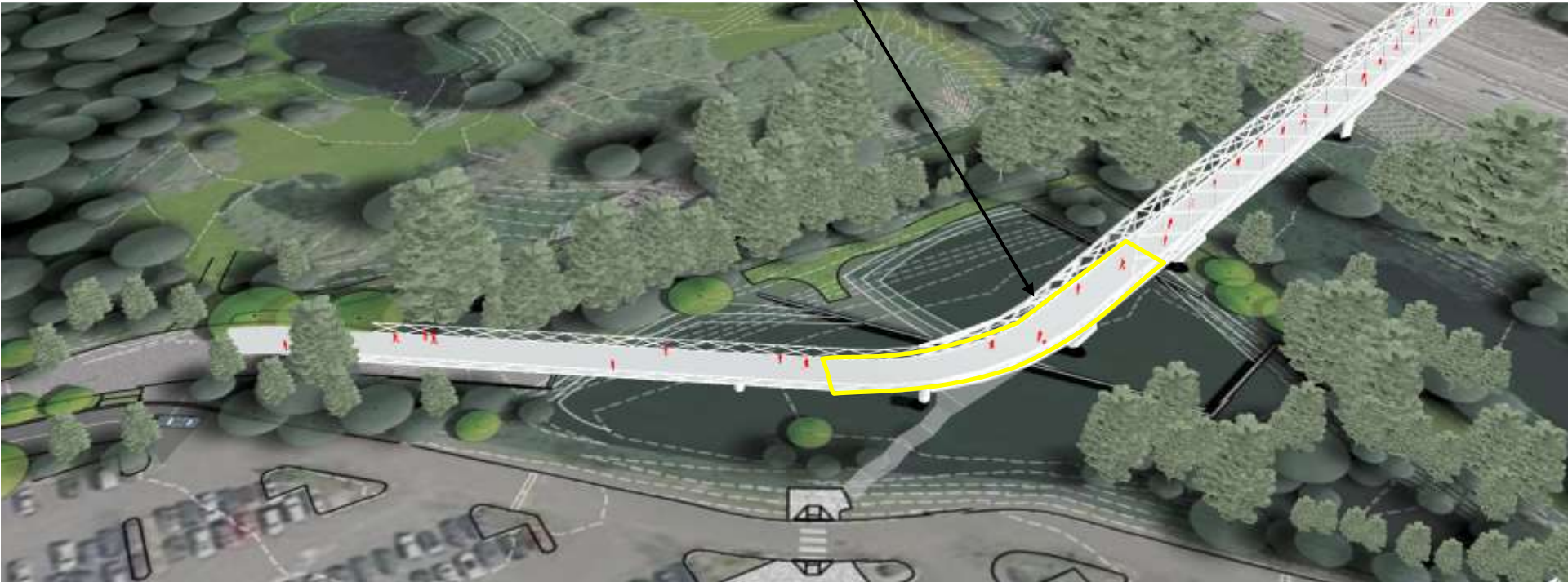
1. Components
2. Stairs
3. Vegetation
4. Water
5. Connections



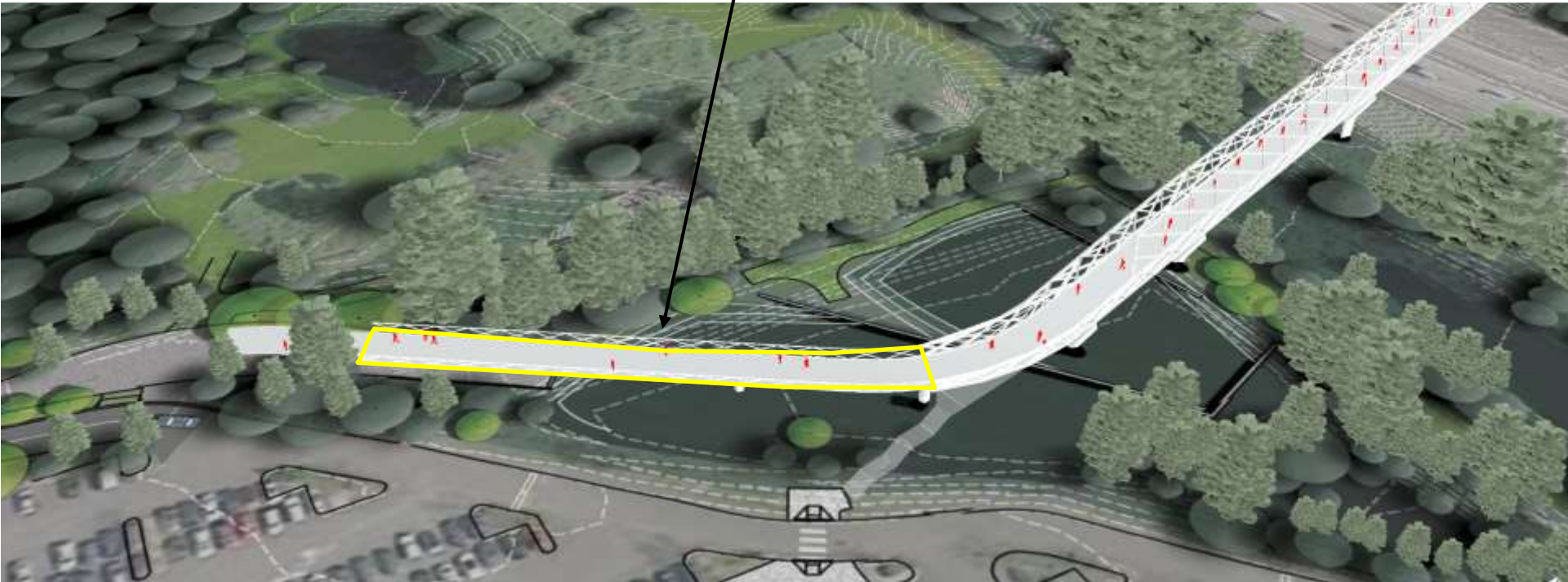
Steel Tube/Truss Spans



Transitional Tube/Truss



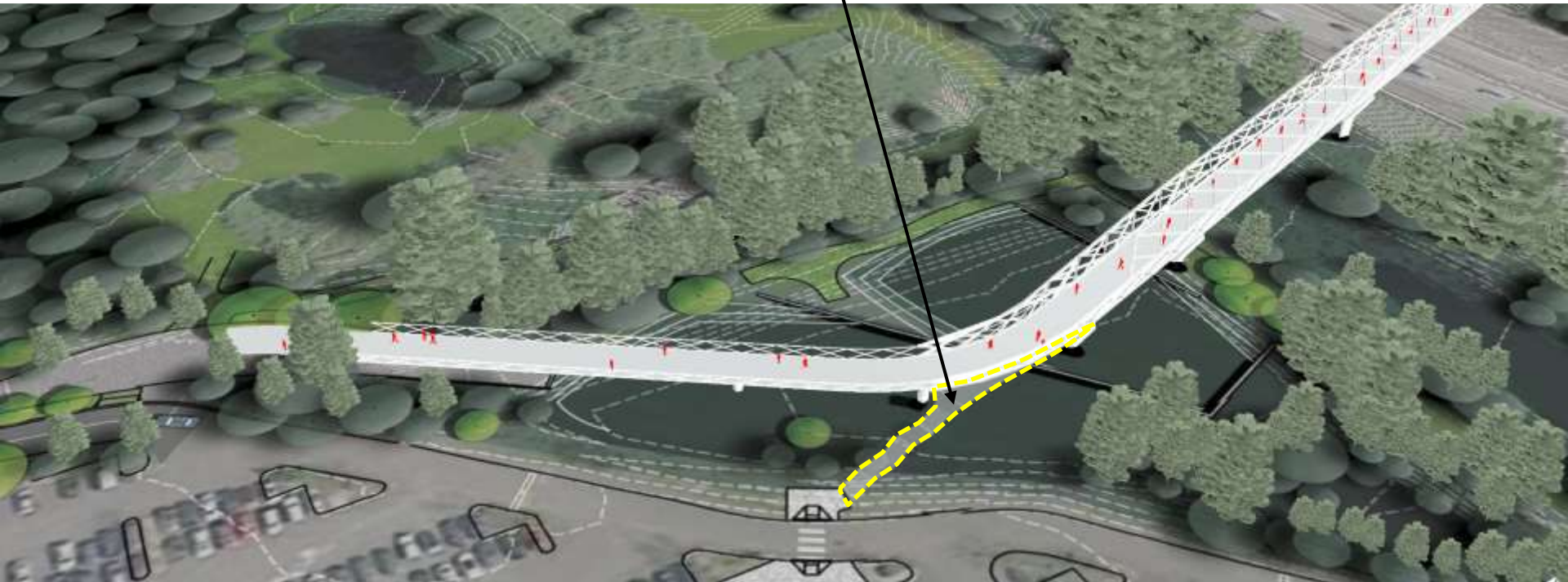
Elevated Concrete Girders



On-fill / At Grade



Potential Access Stairs











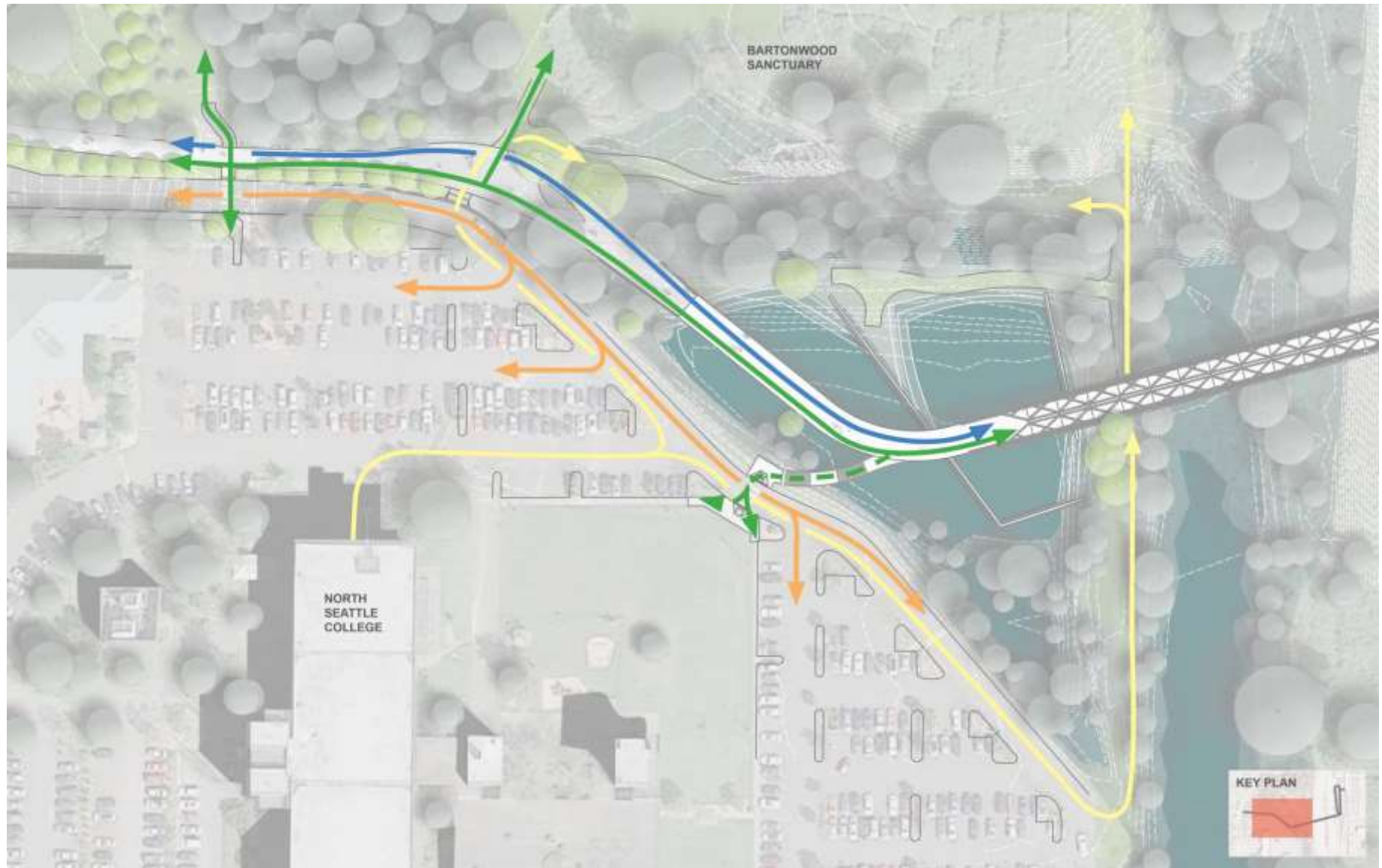


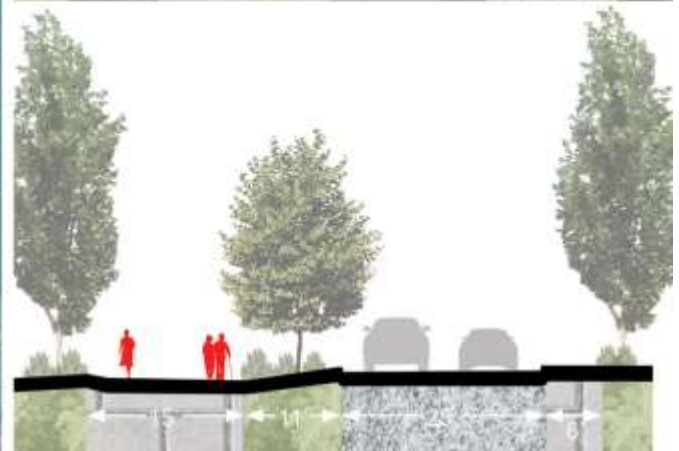




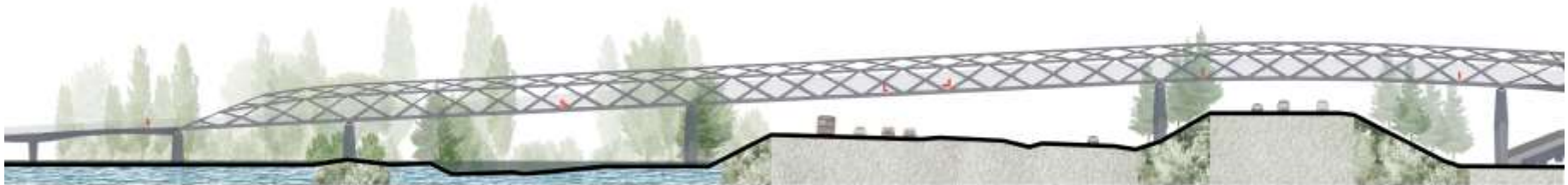












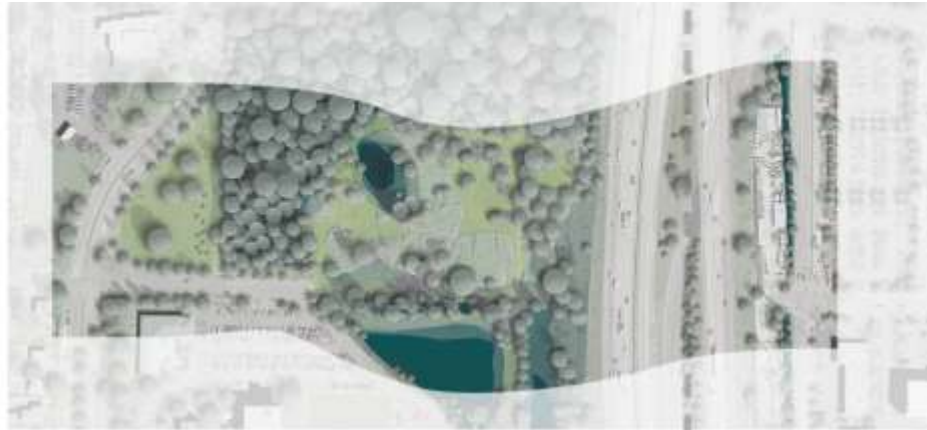
EXISTING

WATER
29%

VEGETATION
59%

IMPERVIOUS
37%

PERVIOUS
63%



EXISTING

WATER
9%

VEGETATION
30%

IMPERVIOUS
61%

PERVIOUS
39%

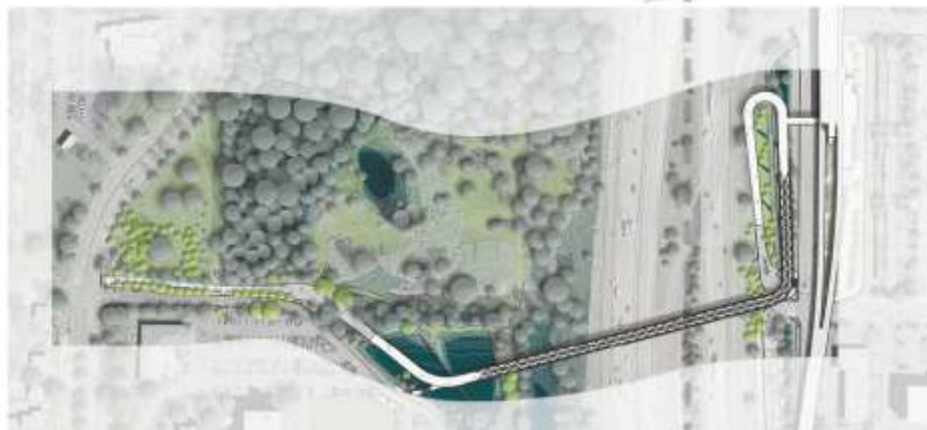
PROPOSED

WATER
31% +2%

VEGETATION
63% +4%

IMPERVIOUS
39% +2%

PERVIOUS
61% -2%



PROPOSED

+3% WATER
12%

+9% VEGETATION
39%

-5% IMPERVIOUS
56%

+5% PERVIOUS
44%









DISCUSSION

109



END