

Alaskan Way Viaduct & Seawall Replacement Program



Urban Design Guidelines and Tunnel Operations Buildings Briefing March 16, 2010

Design Team Members and Process

WSDOT and SDOT have brought on world-class architecture and urban design firms to aid in design aspects of the proposed bored tunnel. The team includes:

- NBBJ
- PB Architects
- ROMA Design Group

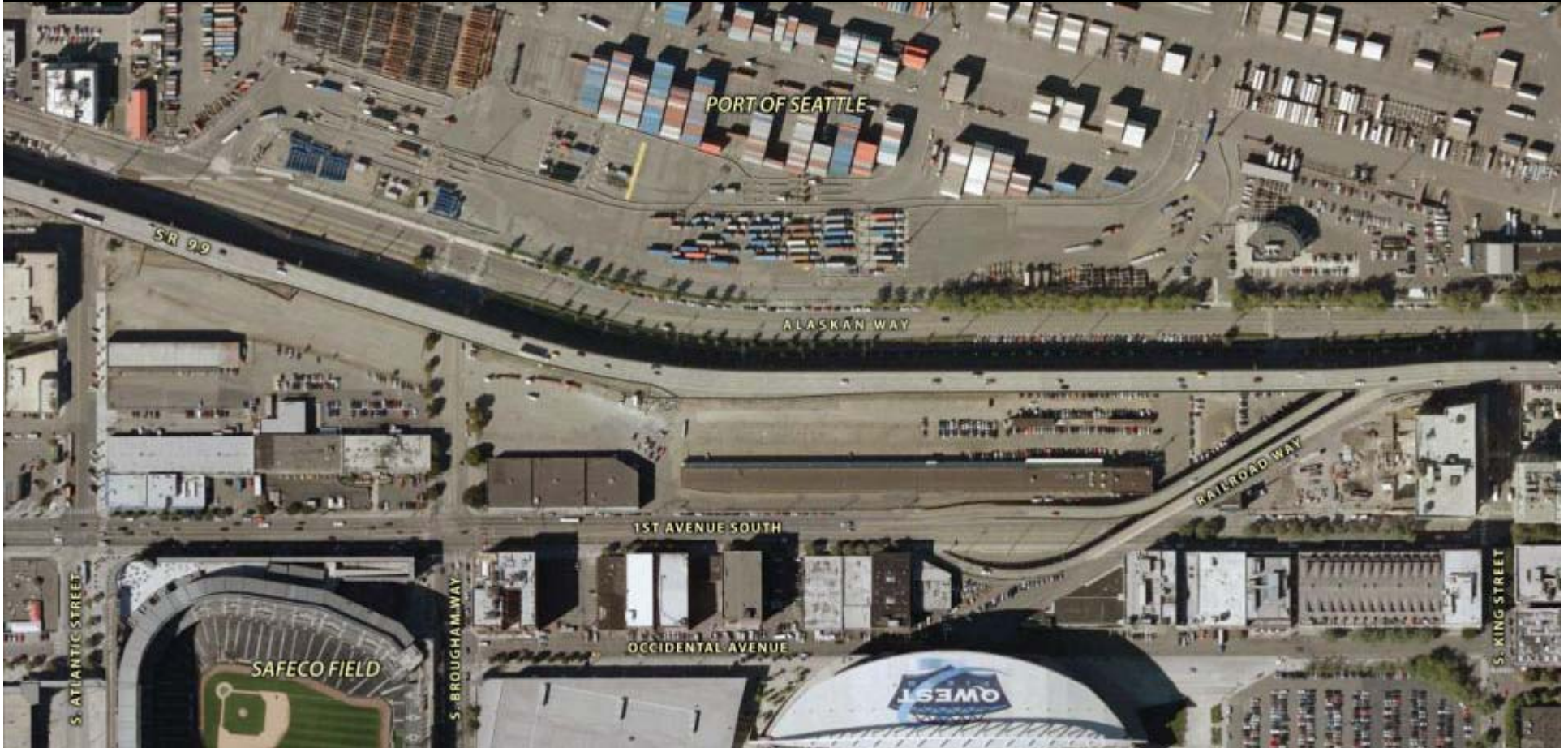
The design team is developing urban design guidelines that encompass the tunnel operations buildings, portals and north and south access areas.

- WSDOT and SDOT are meeting regularly with the Seattle Design Commission.
- Recommendations will be included in the final RFP to be released to pre-qualified design-build teams in May 2010.

Urban Design Guidelines Goals

- Provide for the safety and comfort of pedestrians, bicyclists, transit, freight and other vehicles.
- Reinforce the sense of place and give structure and orientation to the urban experience.
- Contribute positively to the fabric of the city and the unique qualities of adjacent neighborhoods.
- Contribute to the sustainability of the urban environment.

Existing South Portal Area

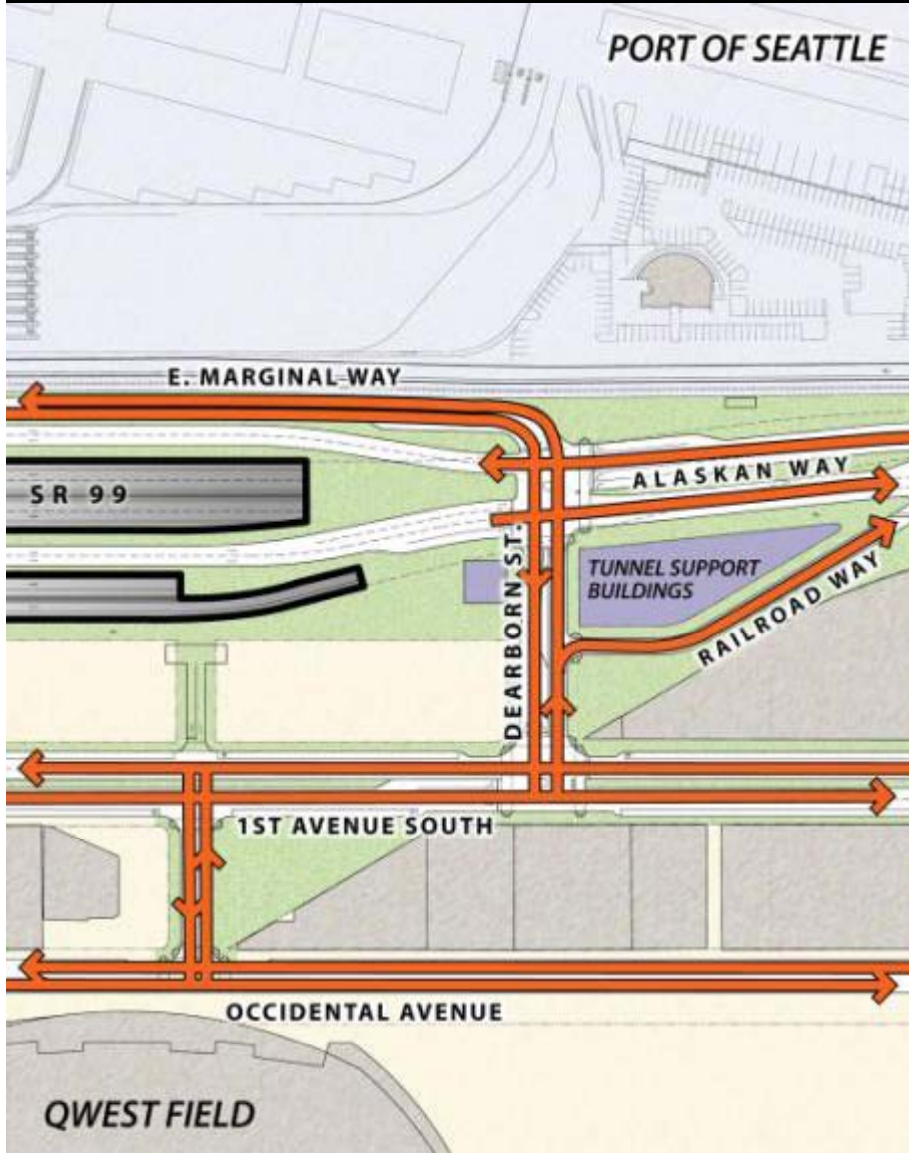


SOUTH PORTAL

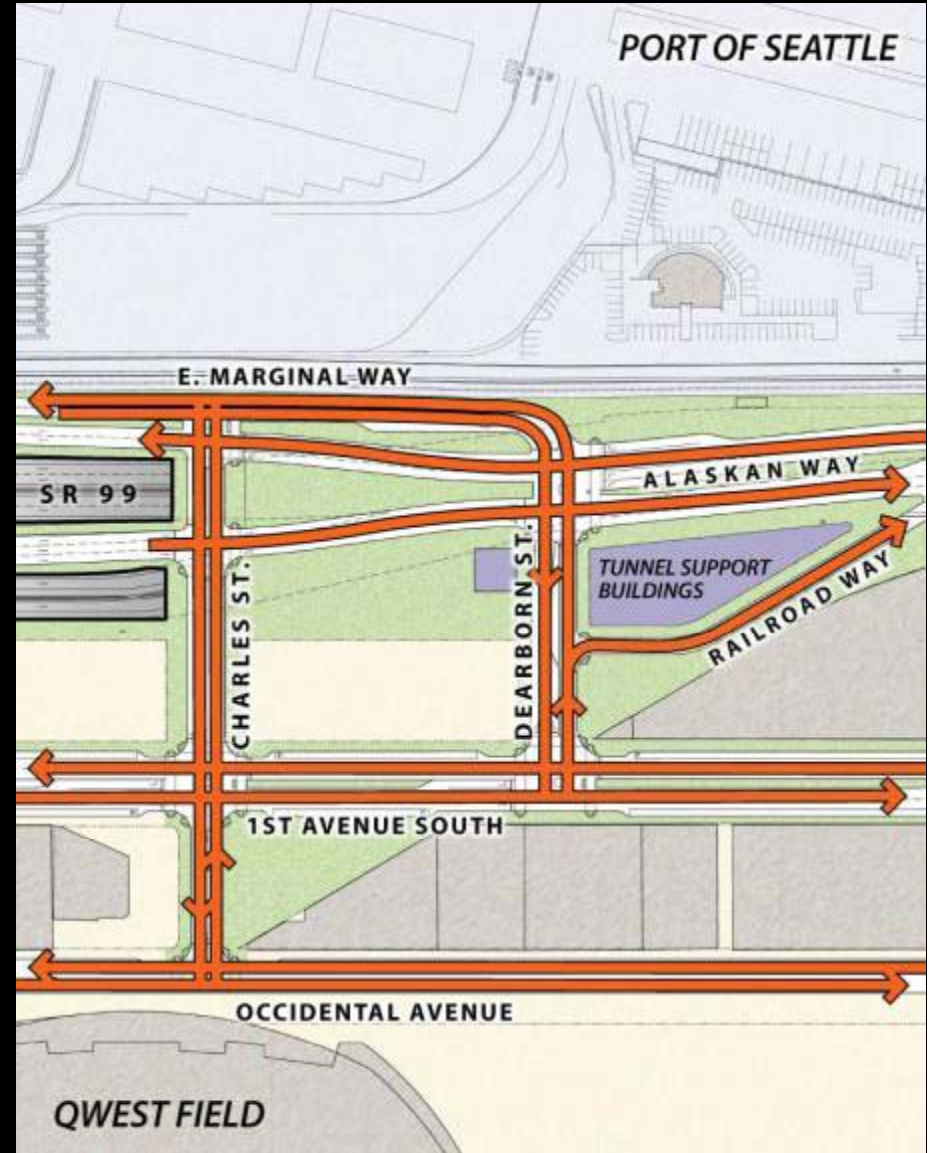
BORED TUNNEL ALTERNATIVE

City Streets Comparison

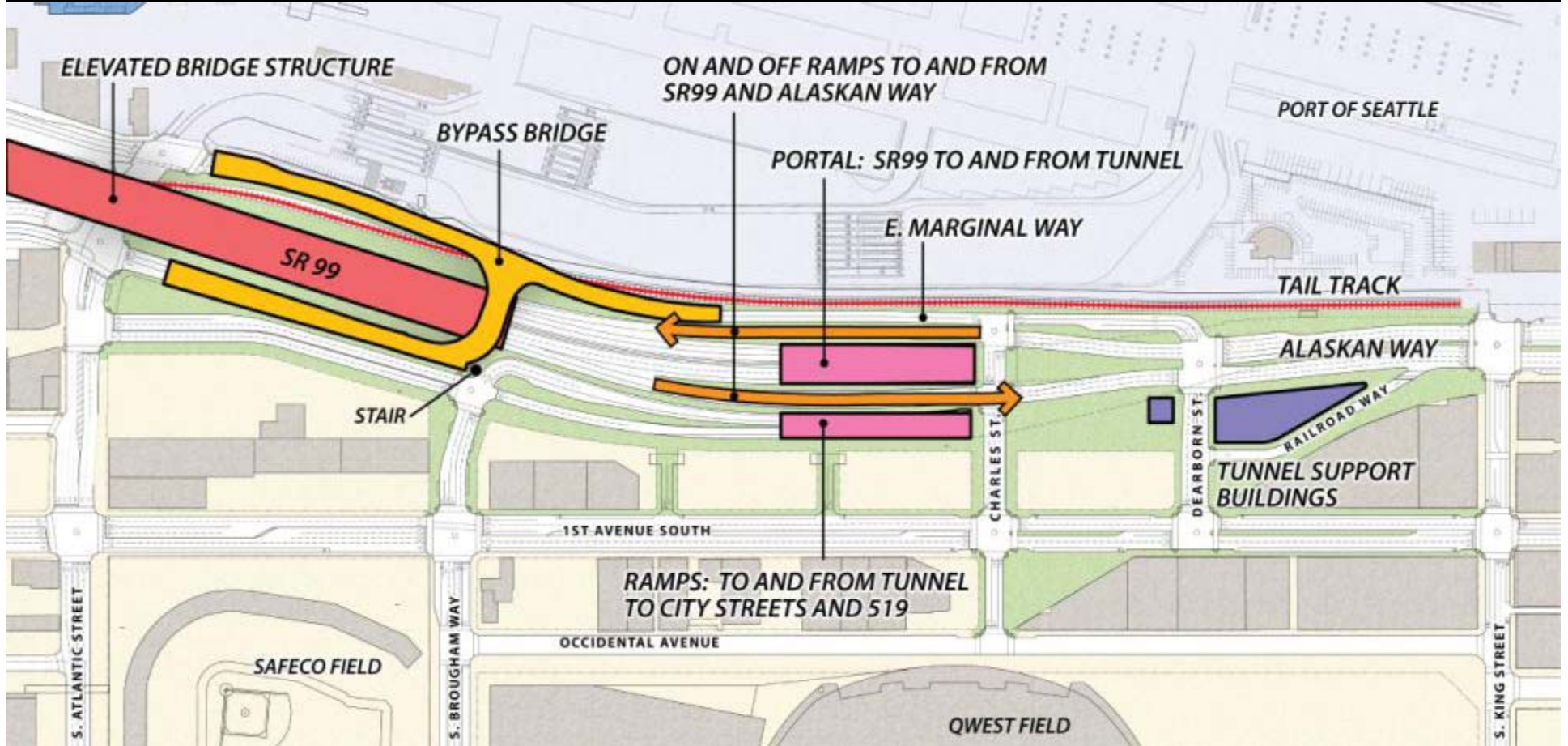
OPTION 1



OPTION 2



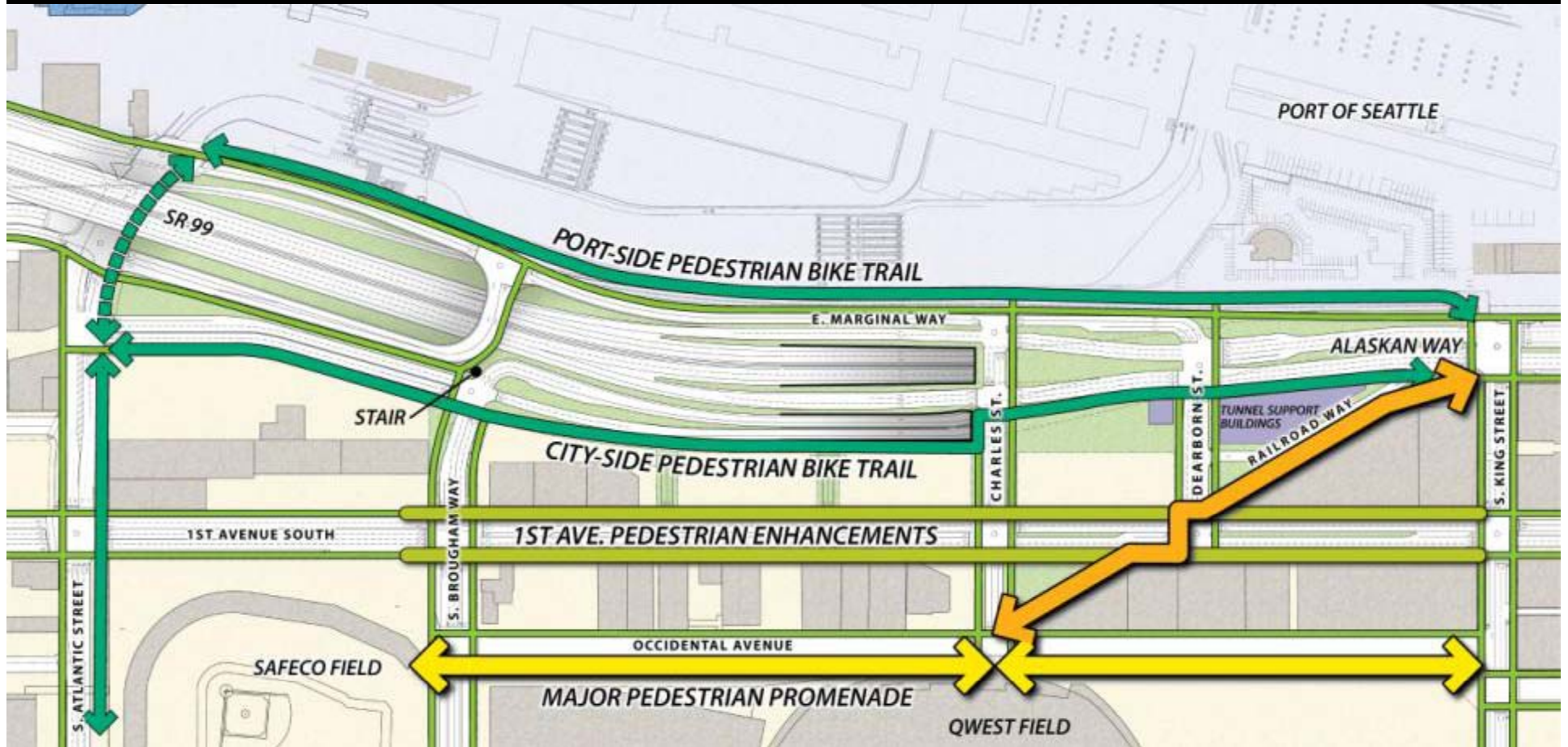
Elements



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Pedestrian and Bicycle Access



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Circulation: SR 99 Tunnel



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

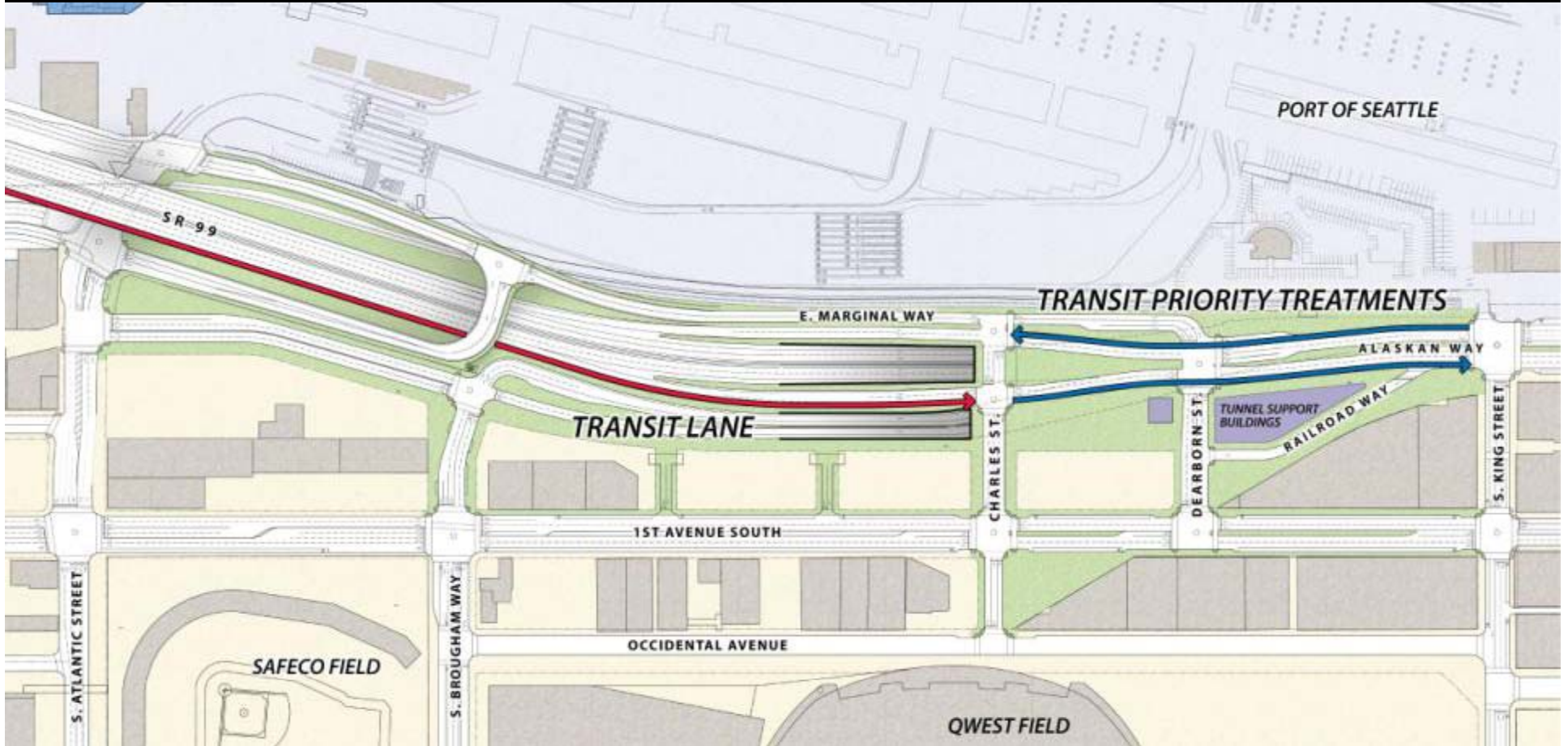
Tunnel to City Streets and 519



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Transit Access



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Opportunity Areas



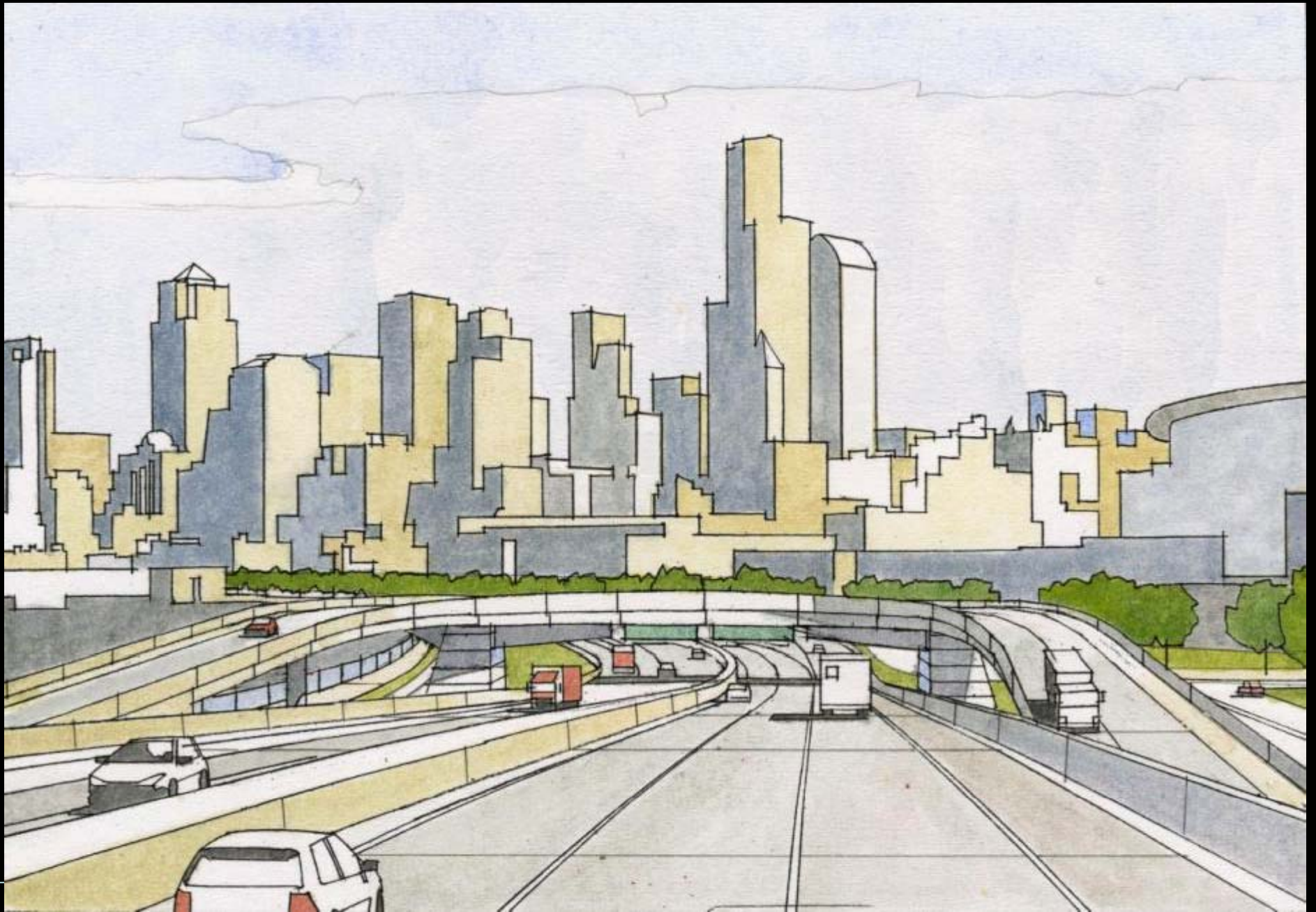
SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Overview of South Portal Area



Gateway to Downtown



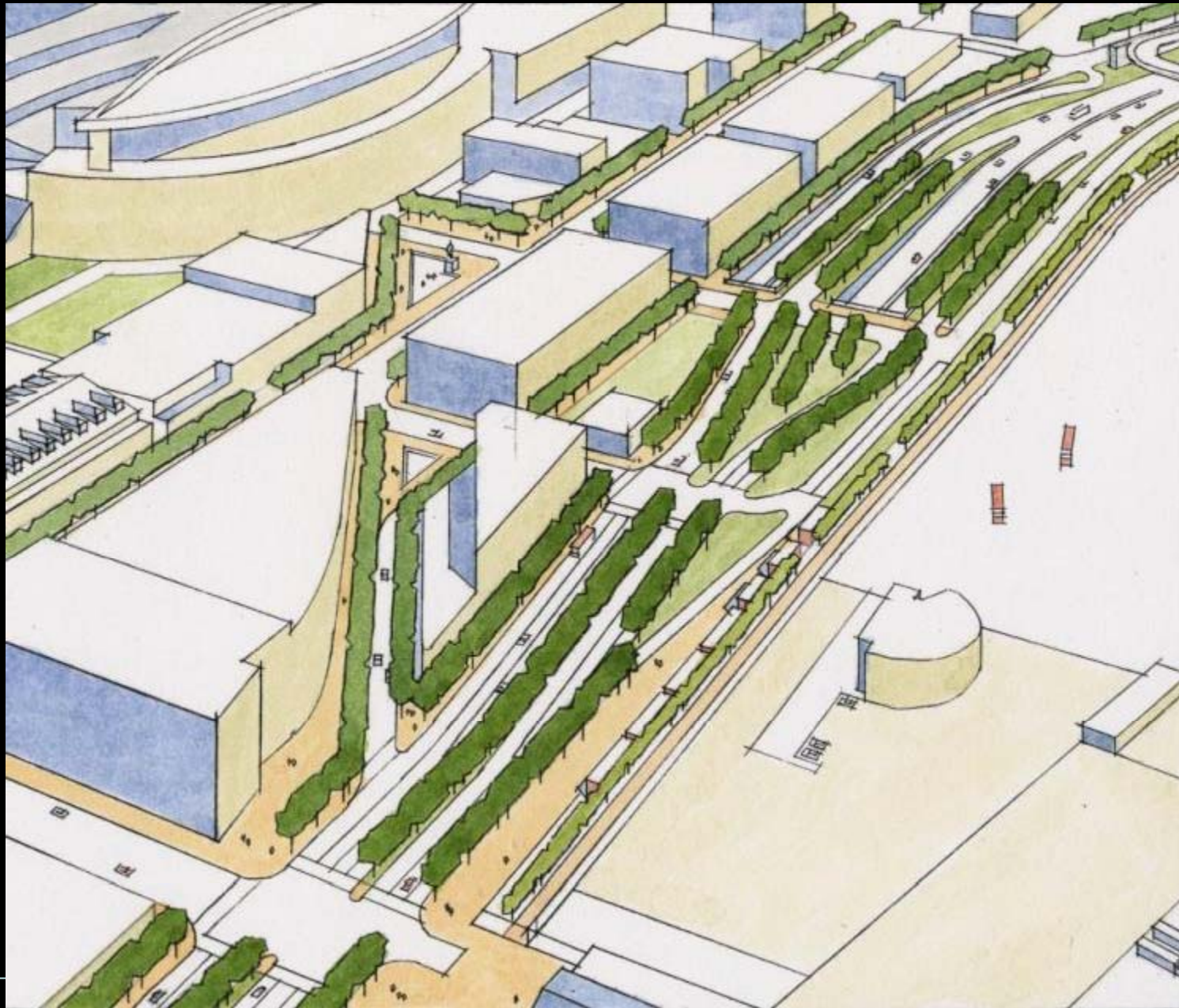
Portal Entrance to Tunnel and Ramps to City



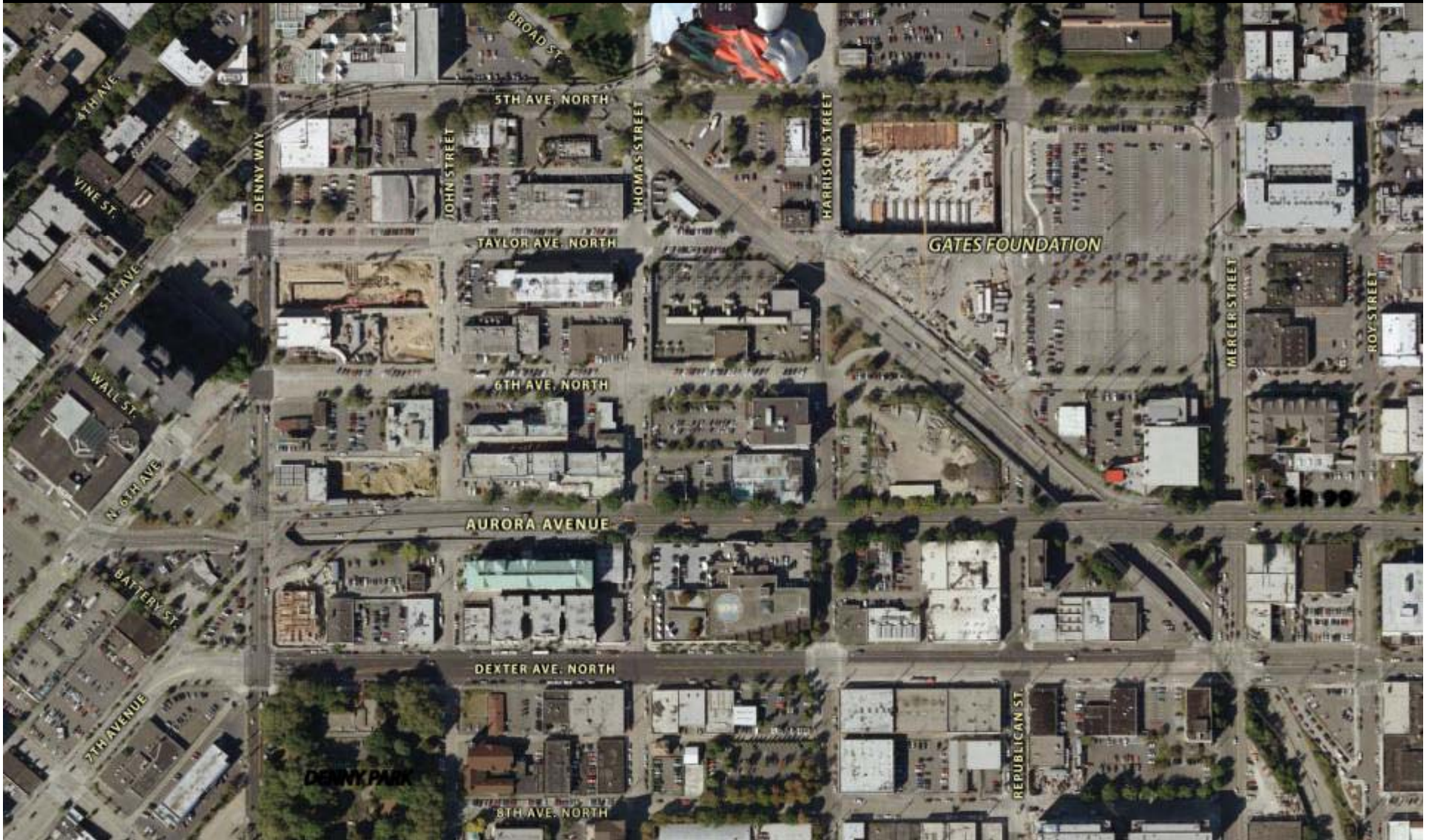
Alaskan Way – Entering the Downtown Waterfront



Pedestrian, Bicycle Linkages



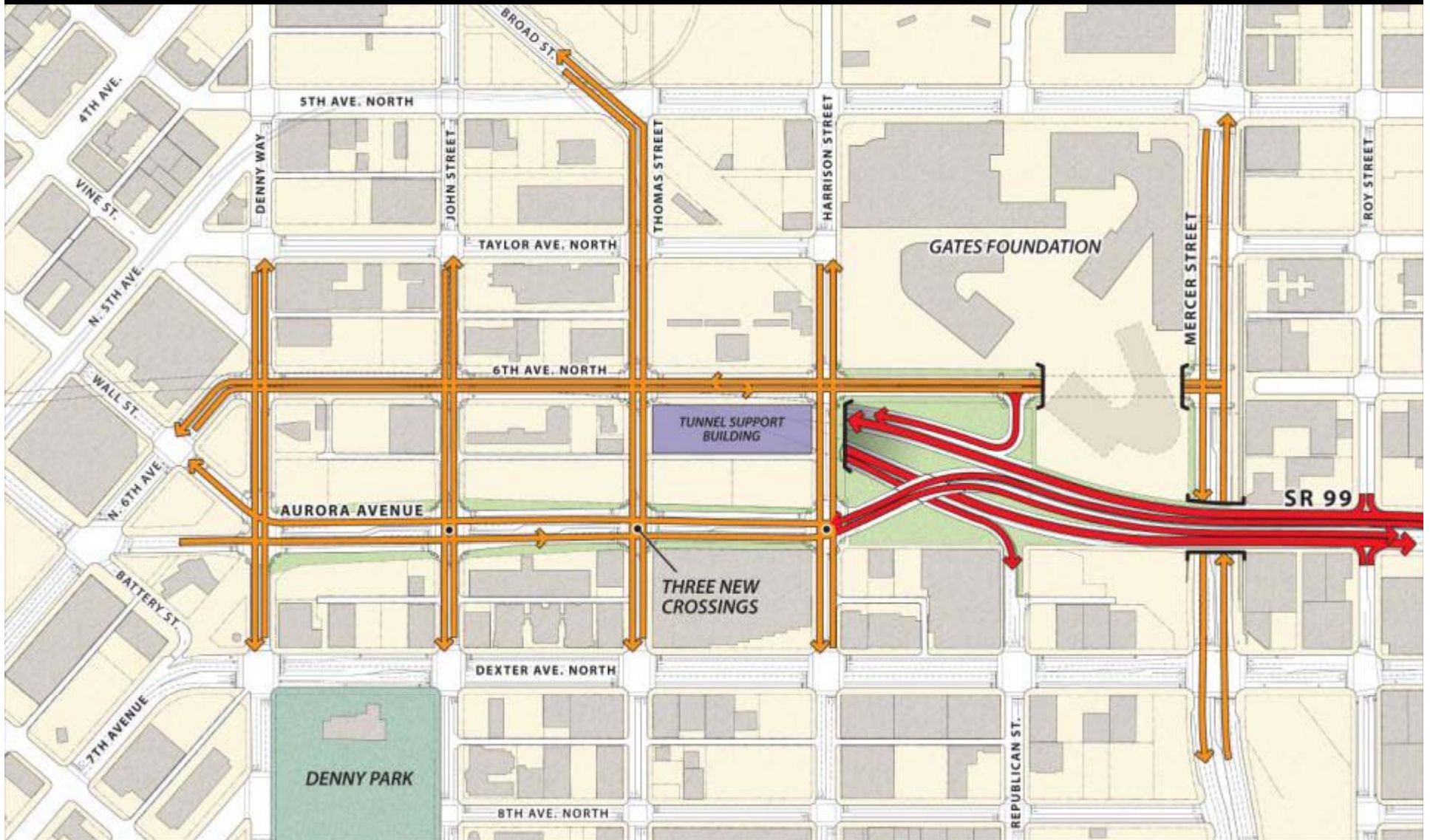
Existing North Portal Area



NORTH PORTAL

BORED TUNNEL ALTERNATIVE

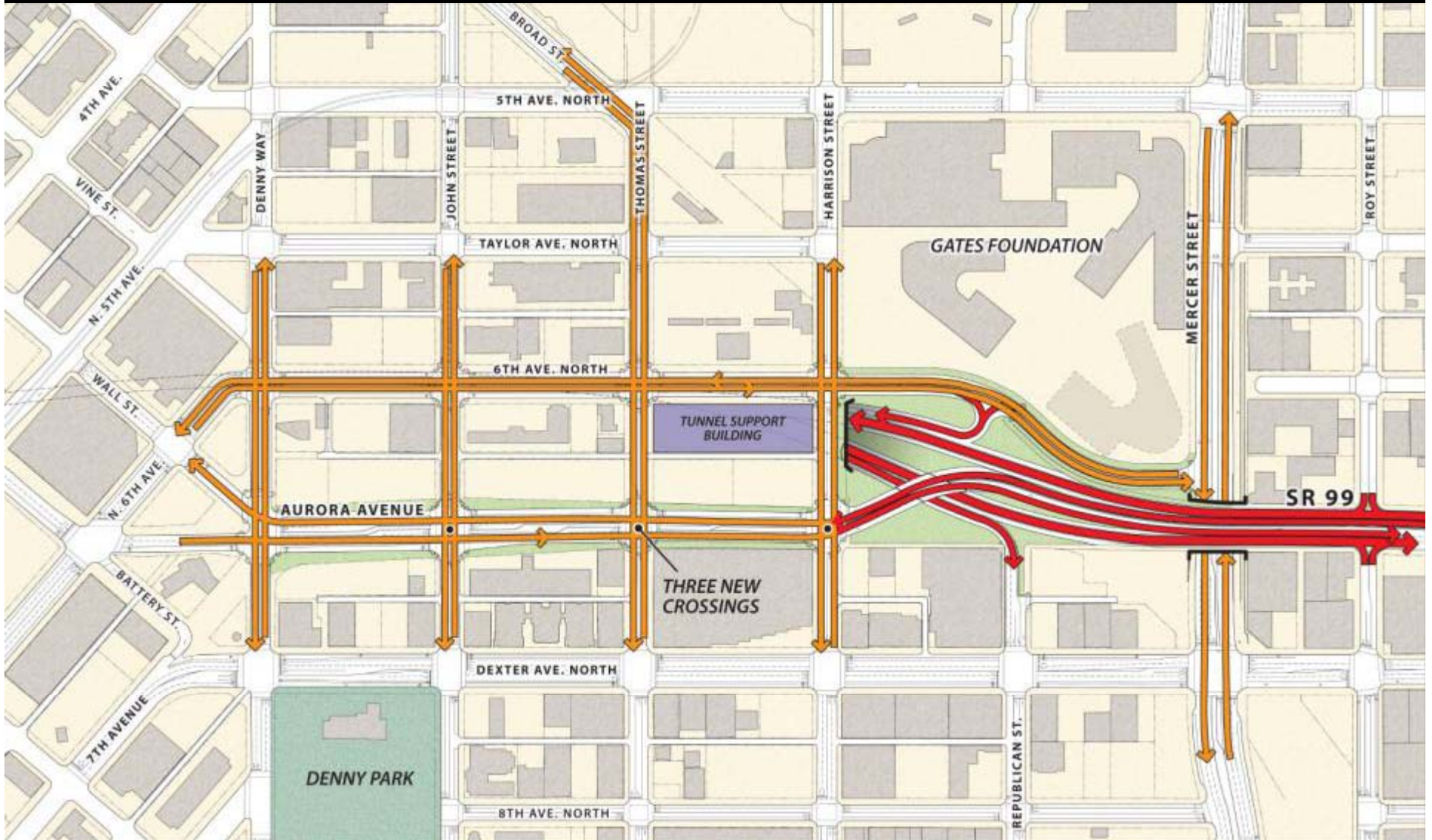
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NORTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

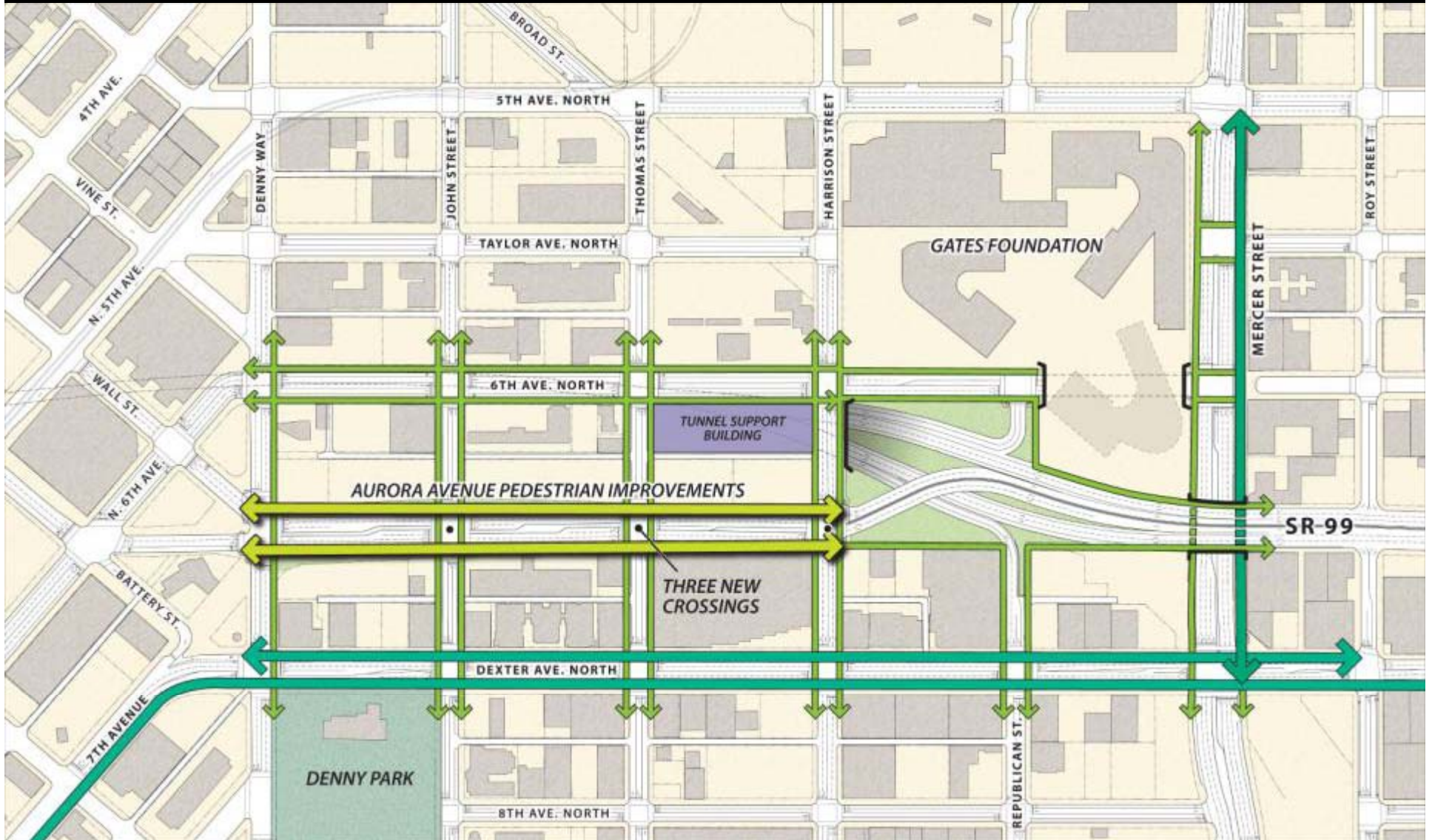
Elements



NORTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

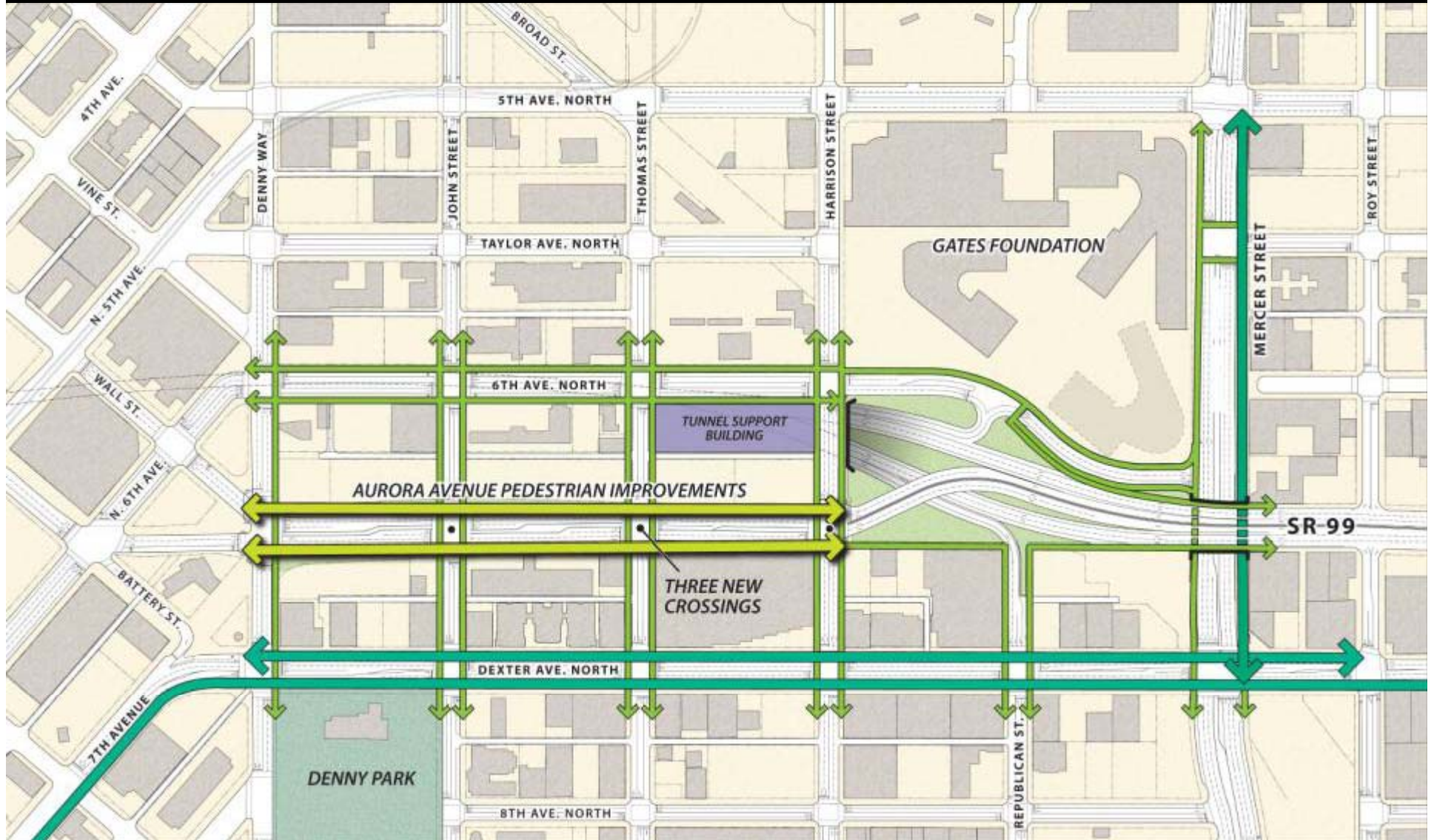
Pedestrian and Bicycle Access



NORTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

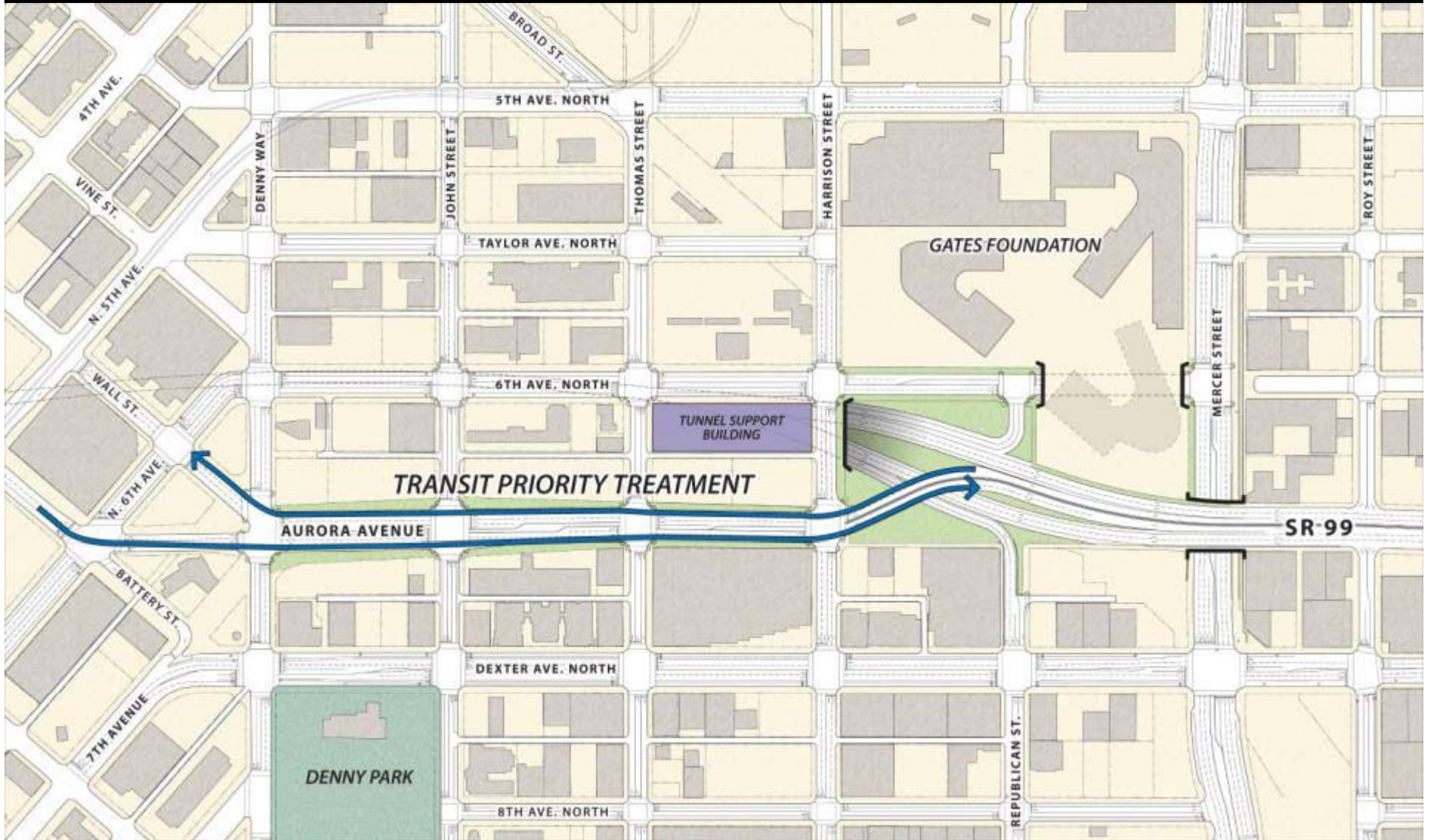
Pedestrian and Bicycle Access



NORTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Transit Access



NORTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

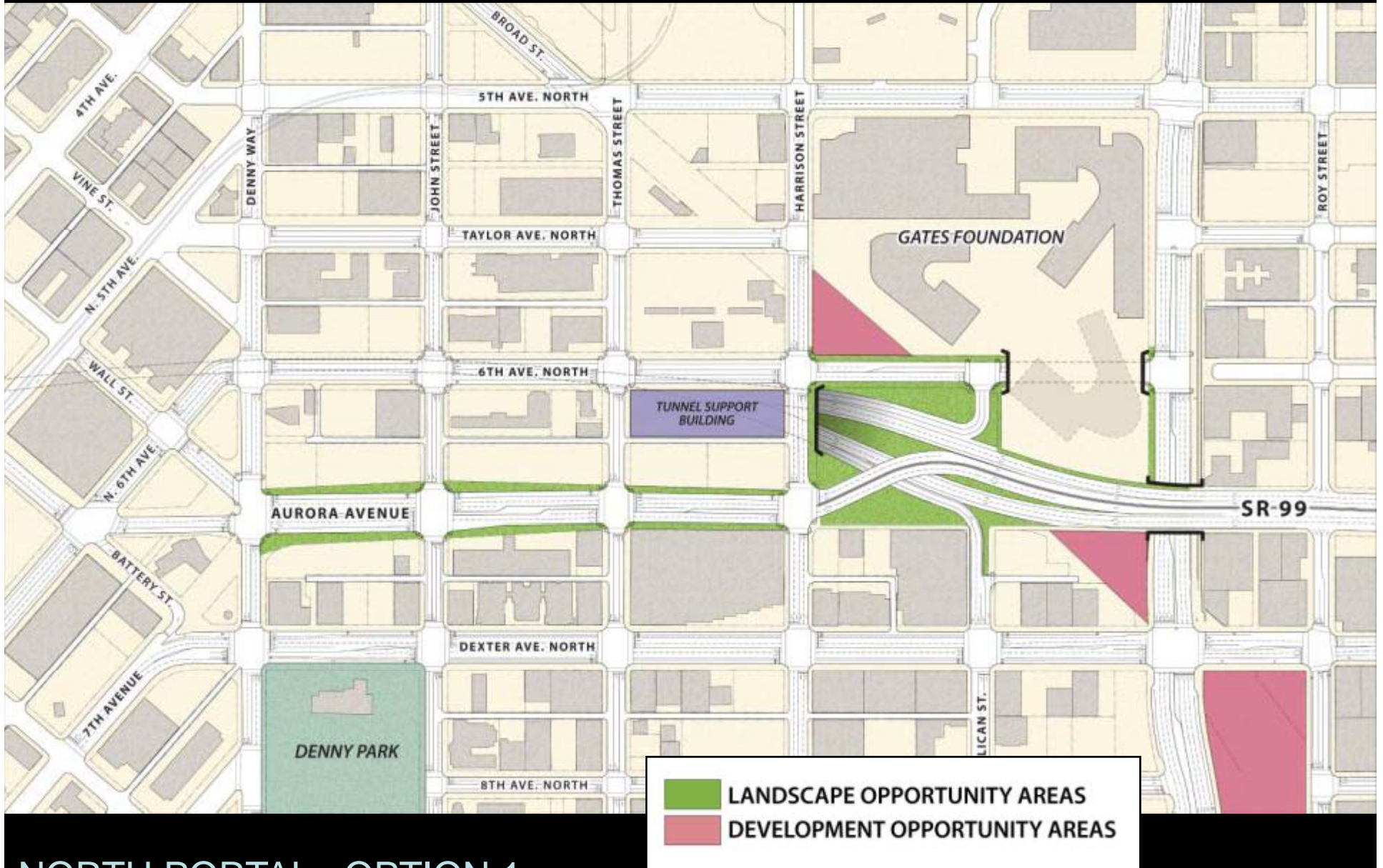
Transit Access



NORTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Opportunity Areas



NORTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

Opportunity Areas



NORTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

North Portal – Aurora Avenue



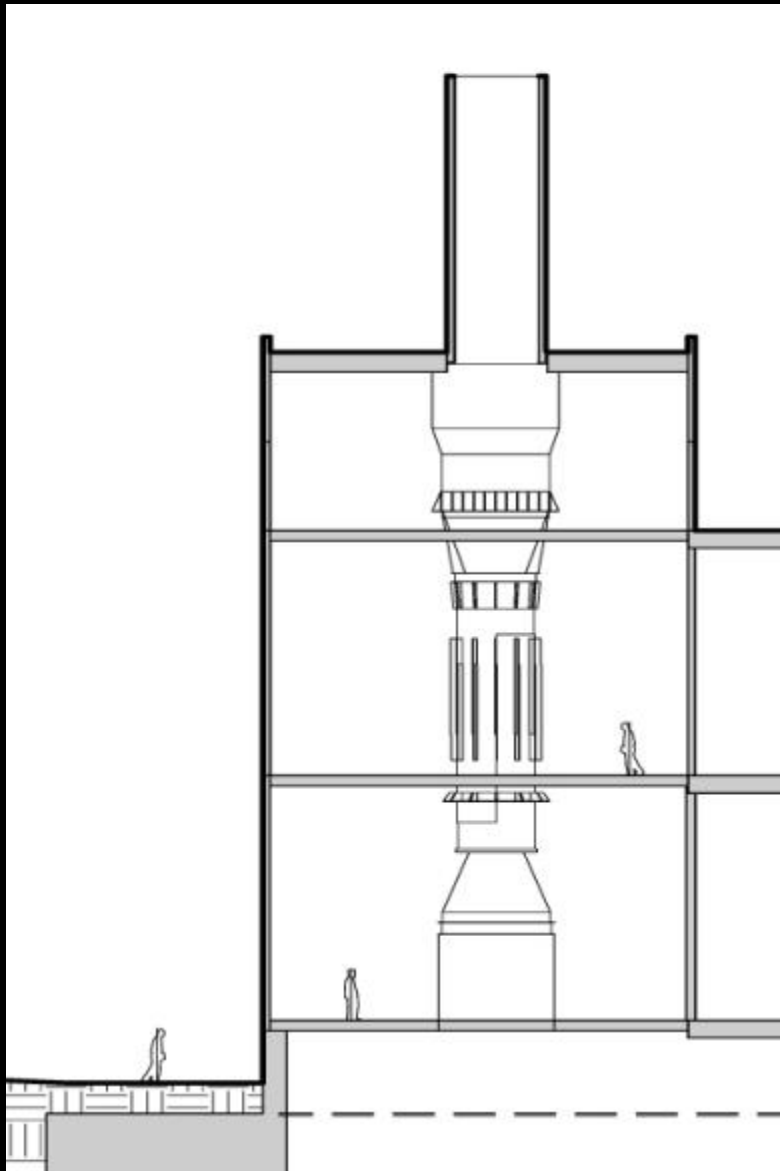
North Portal



Tunnel Operations Buildings

PROGRAM FUNCTIONS :

- ***EMERGENCY VENTILATION; 4-5 FANS***
- ***ELECTRICAL SYSTEMS AND EQUIPMENT***
- ***MAINTENANCE FACILITIES WITH PARKING***
- ***OPERATIONAL BACKUP AND SYSTEMS MONITORING***



Building Functions
Systems- Ventilation Fans



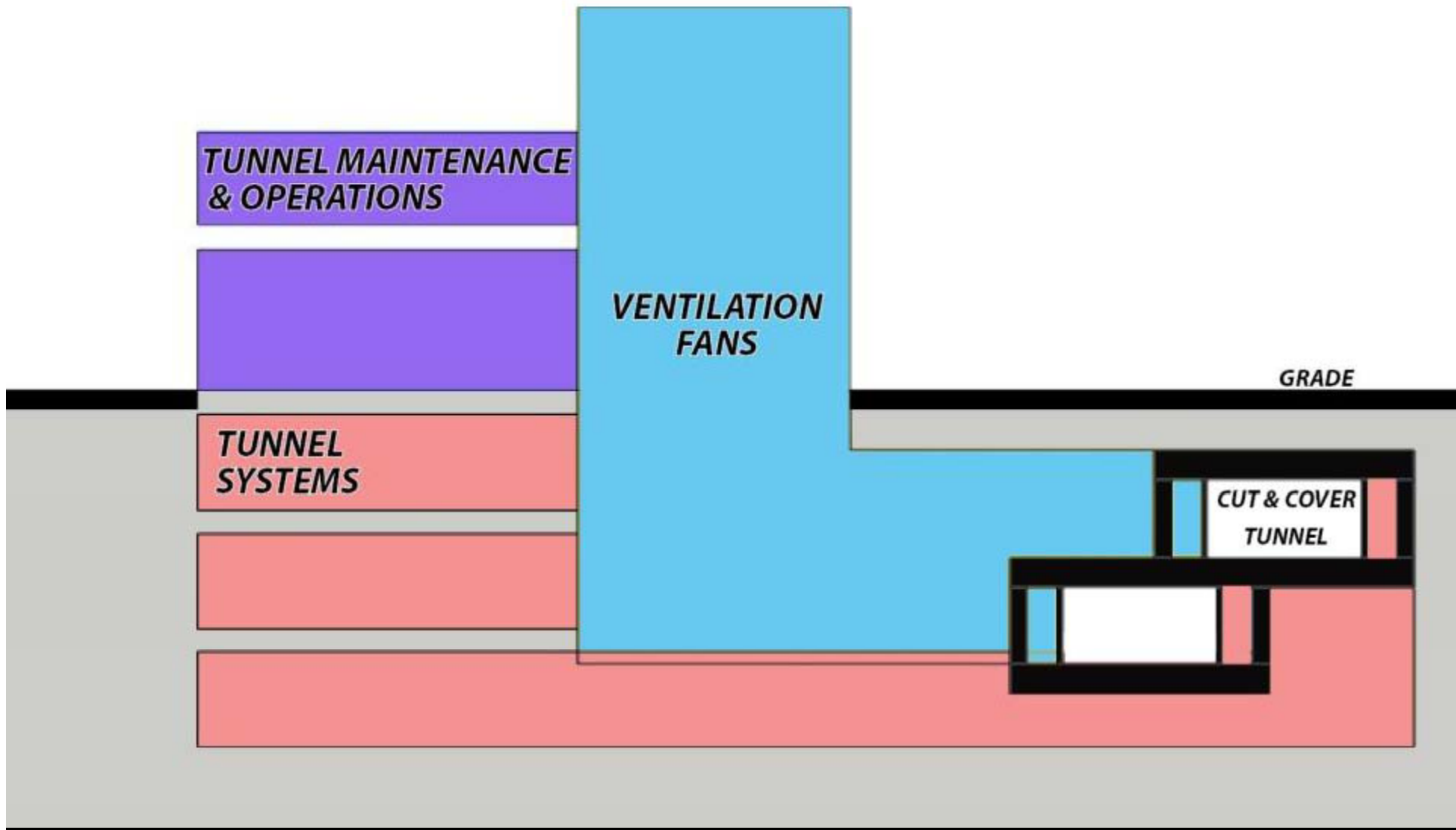
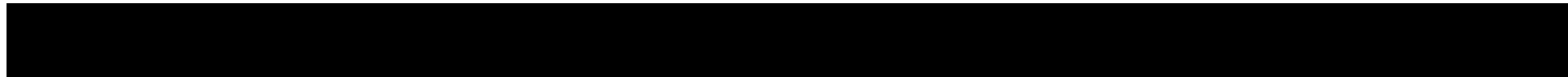
Building Functions
Systems- Electrical Power

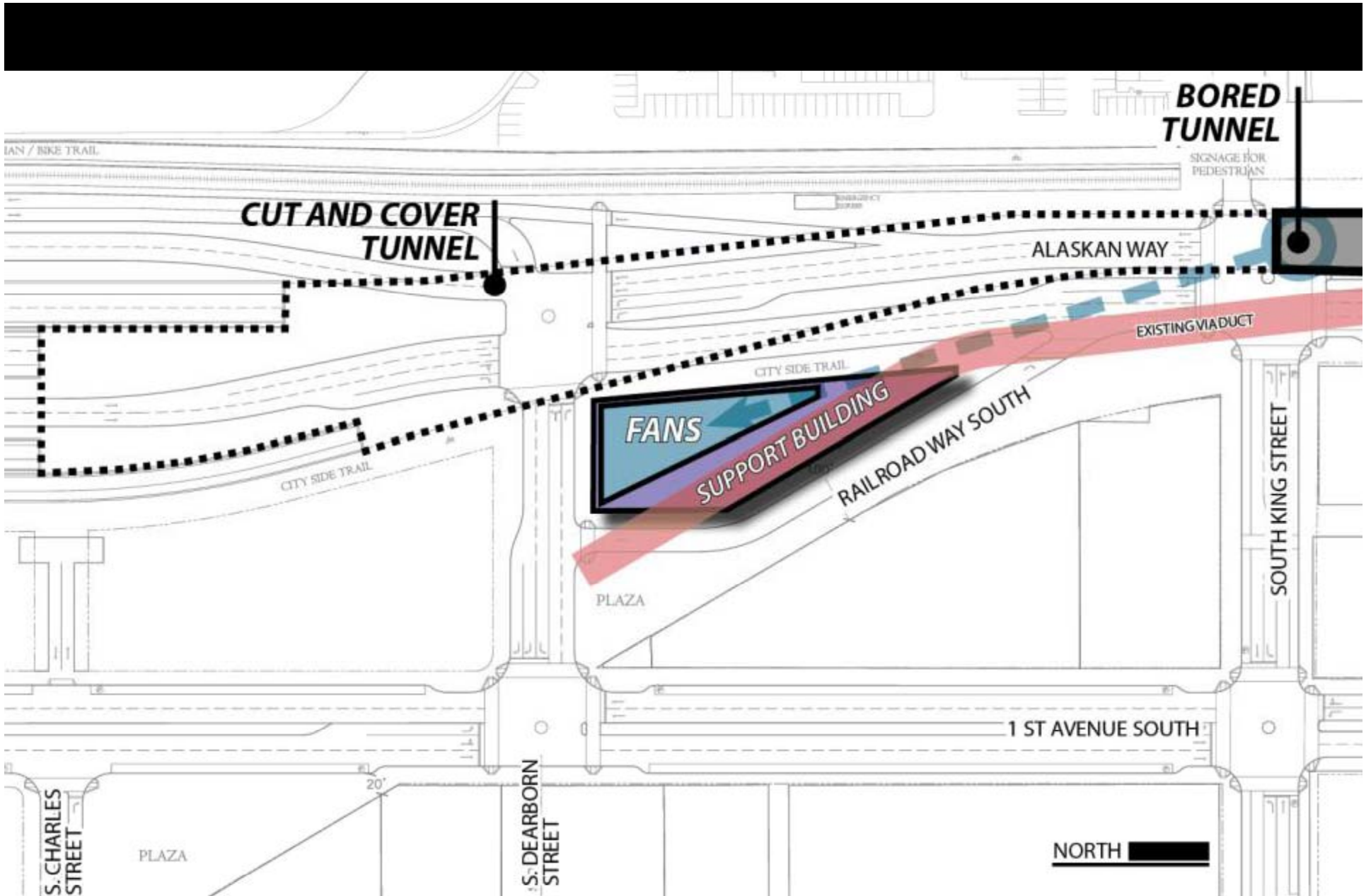


Building Functions
Operations- Systems Monitoring

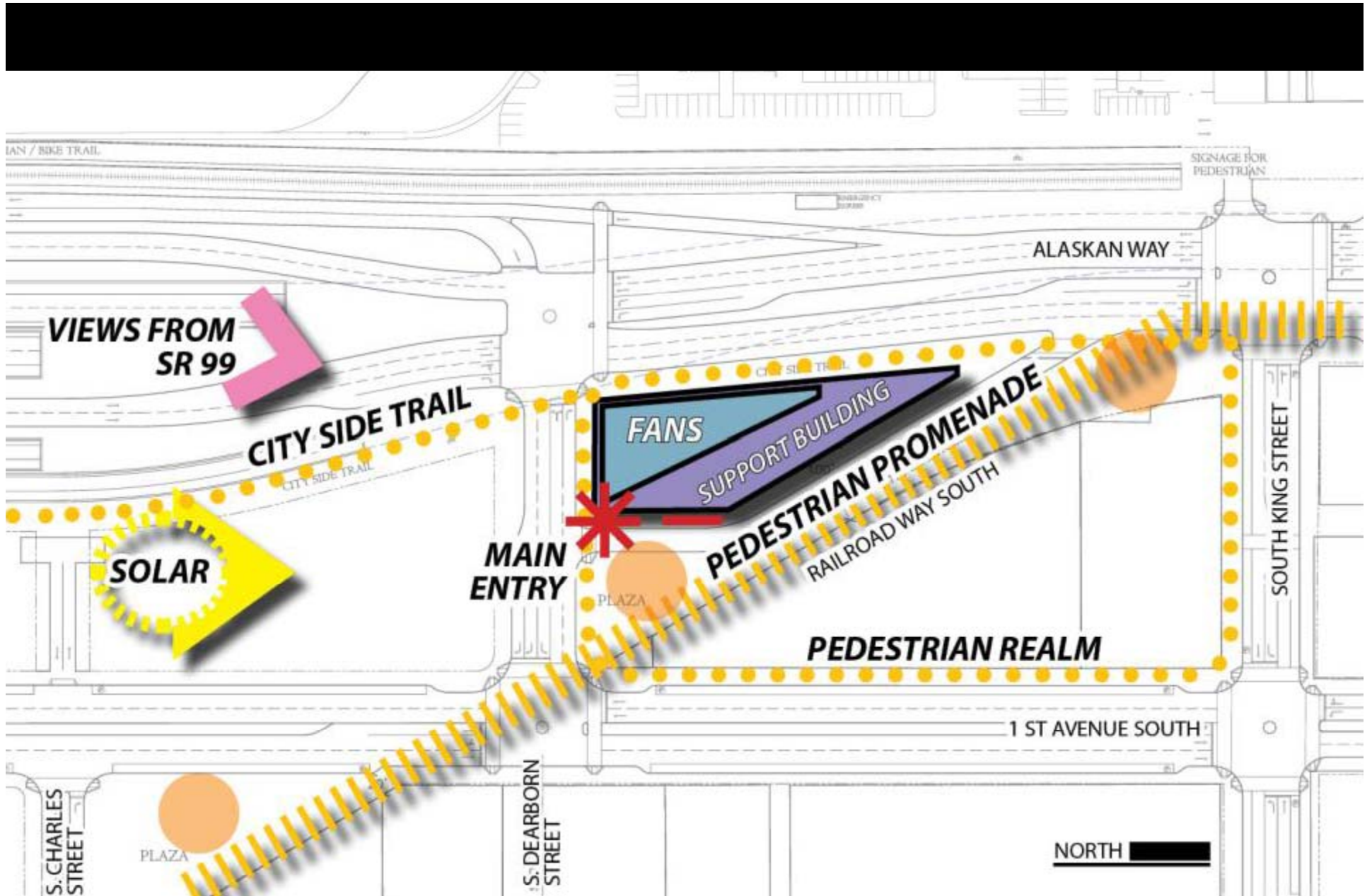


Building Functions
Operations- Maintenance





South Site Location



South Site Design Influences






South Immediate Context



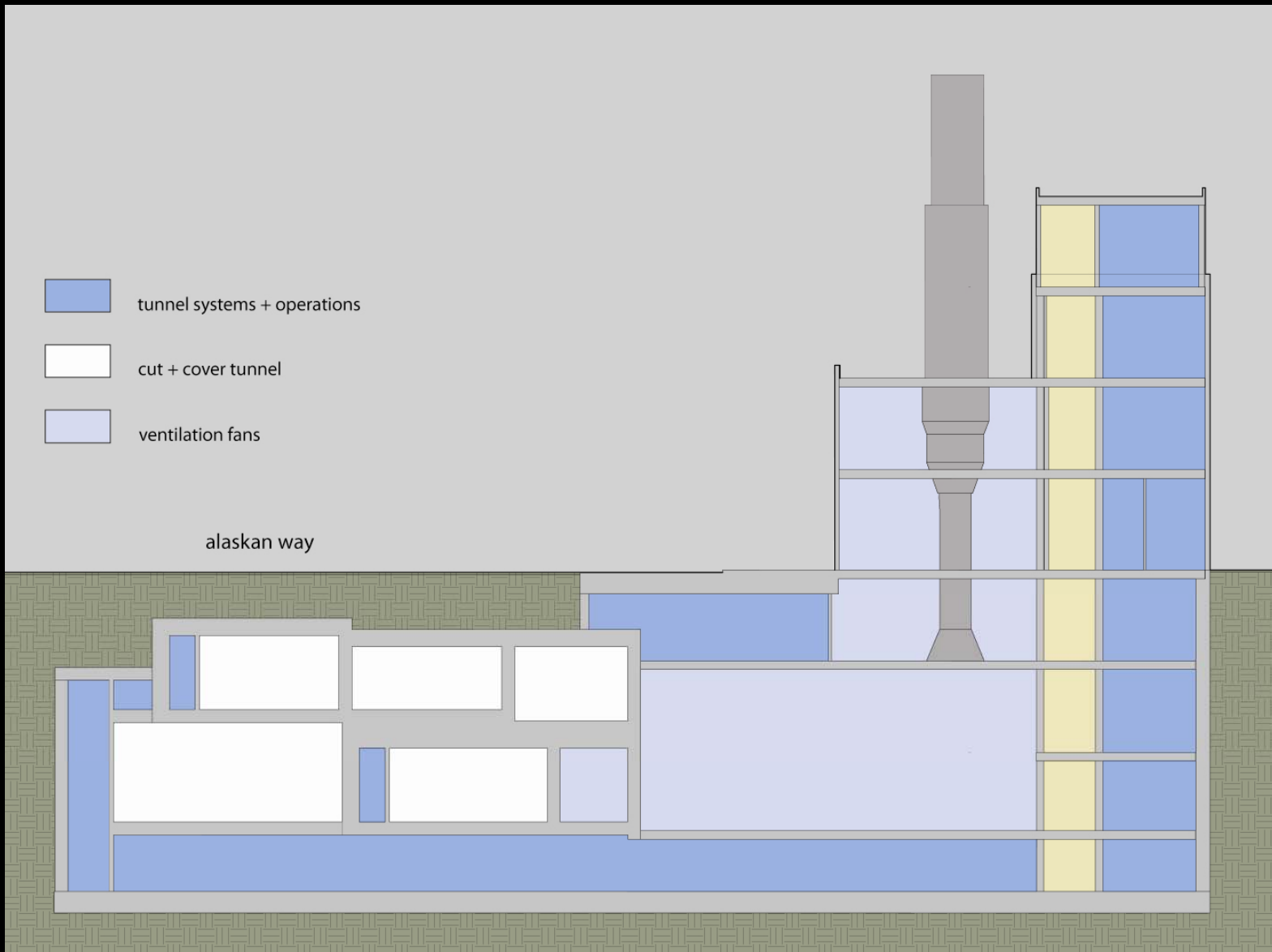
South Context
pioneer square



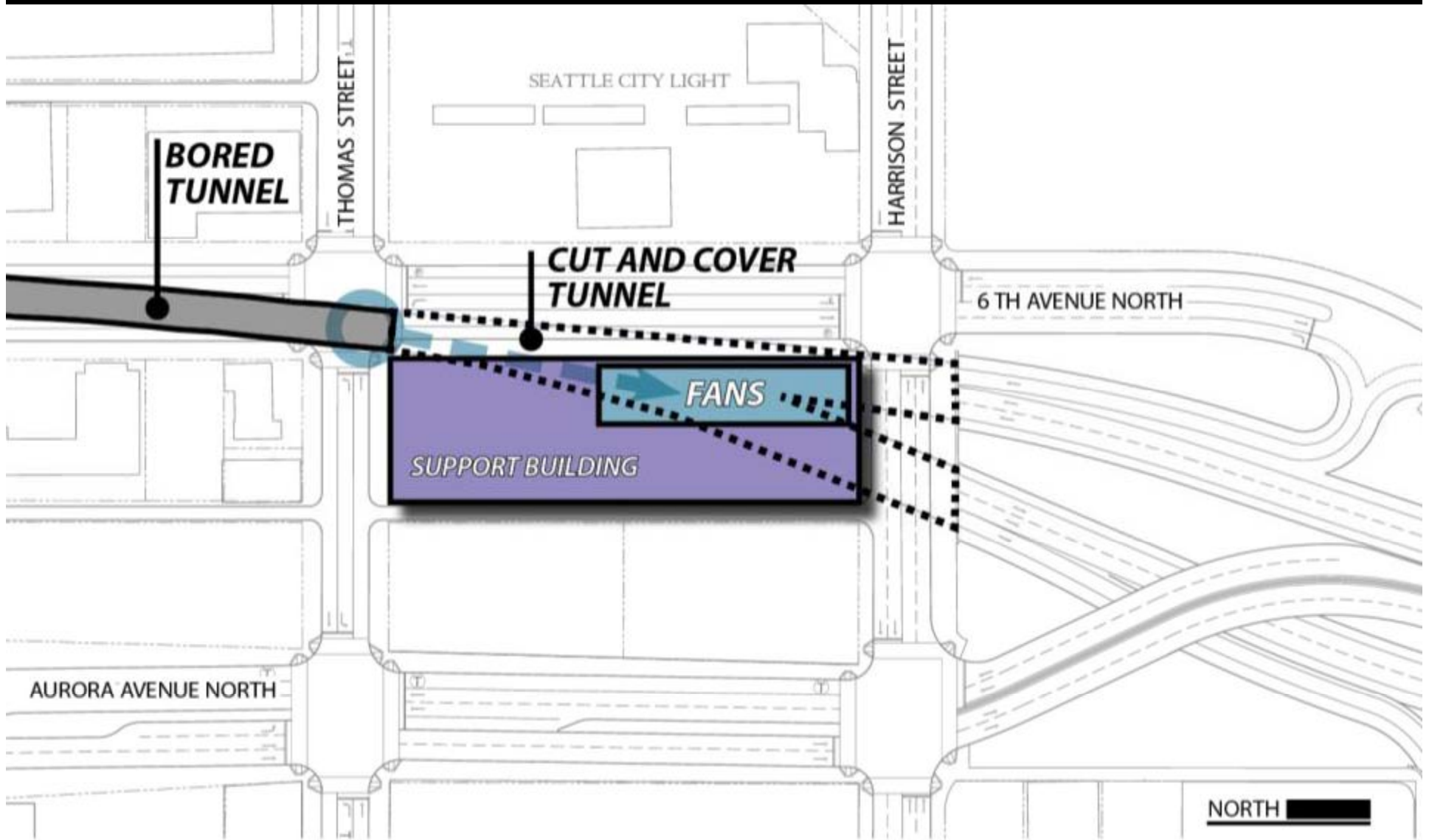
South Context
pier structures and stadiums

-  tunnel systems + operations
-  cut + cover tunnel
-  ventilation fans

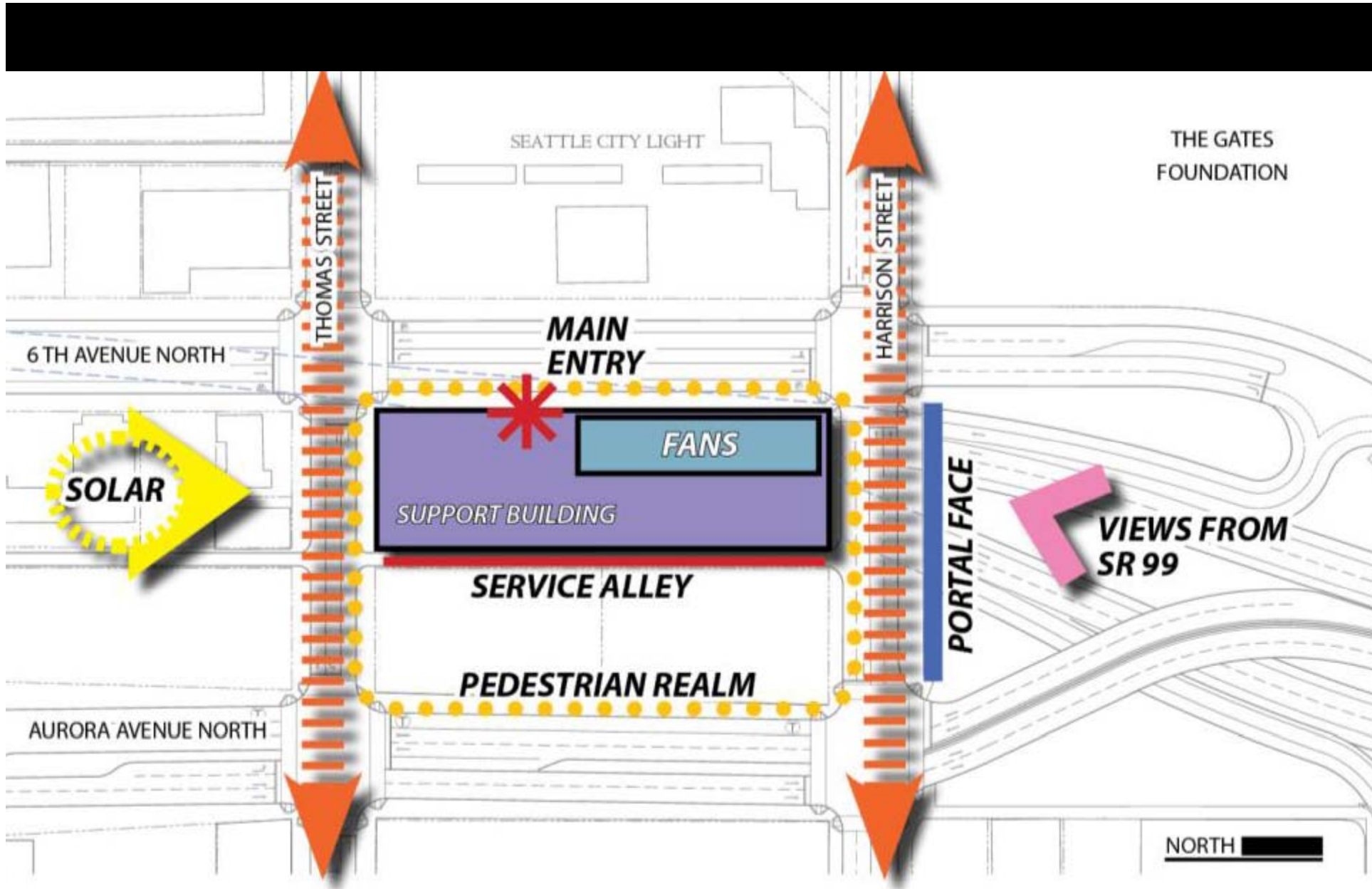
alaskan way



South Building Concepts
section



North Site Location



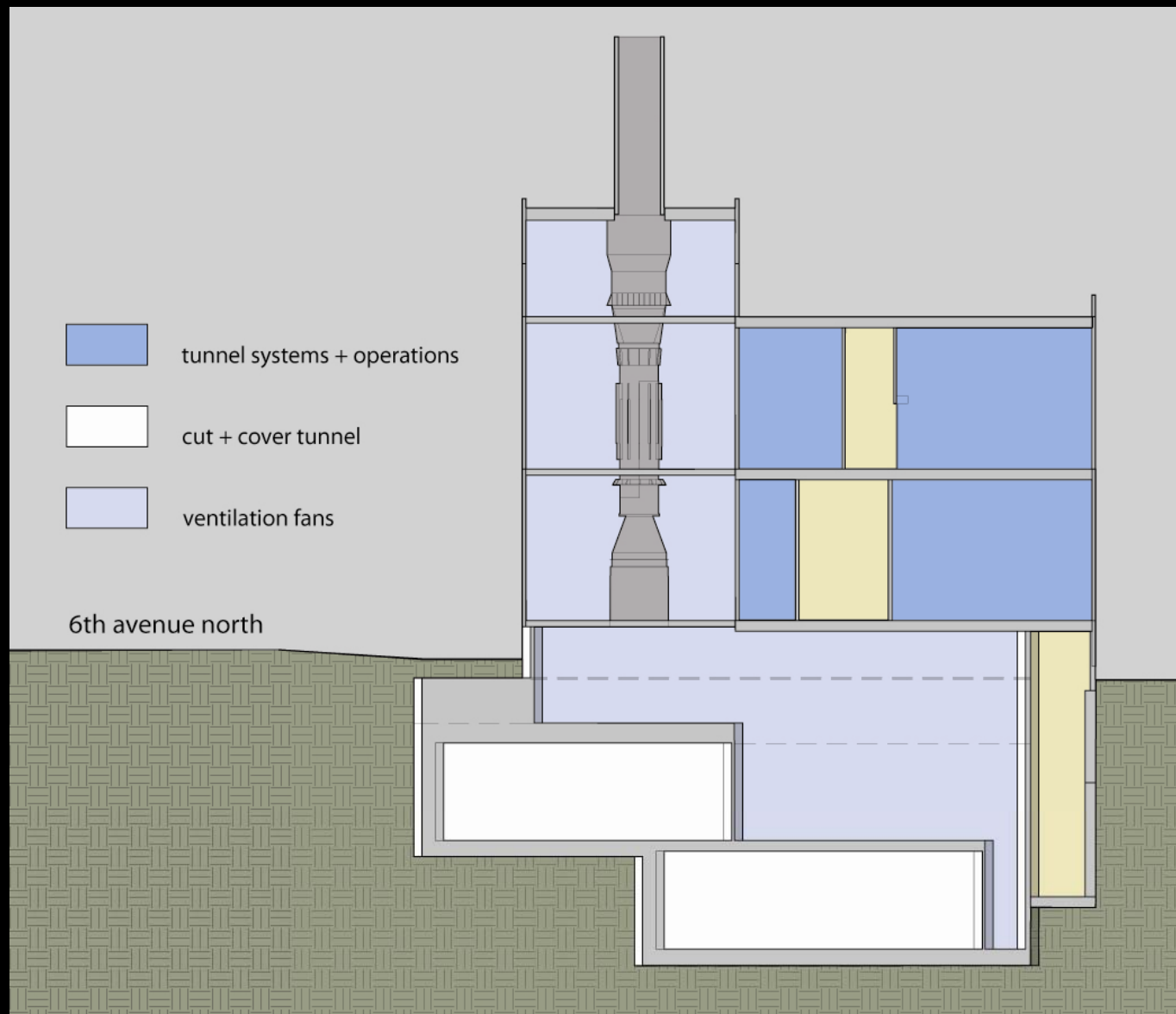
North Site Design Influences



North Immediate Context



North Context
mixed use



North Building Concepts

section

A Different Scale and Design Direction



Boston



Urban Infrastructure Buildings



Urban Infrastructure Buildings

