



Civic Design Review (Informational)

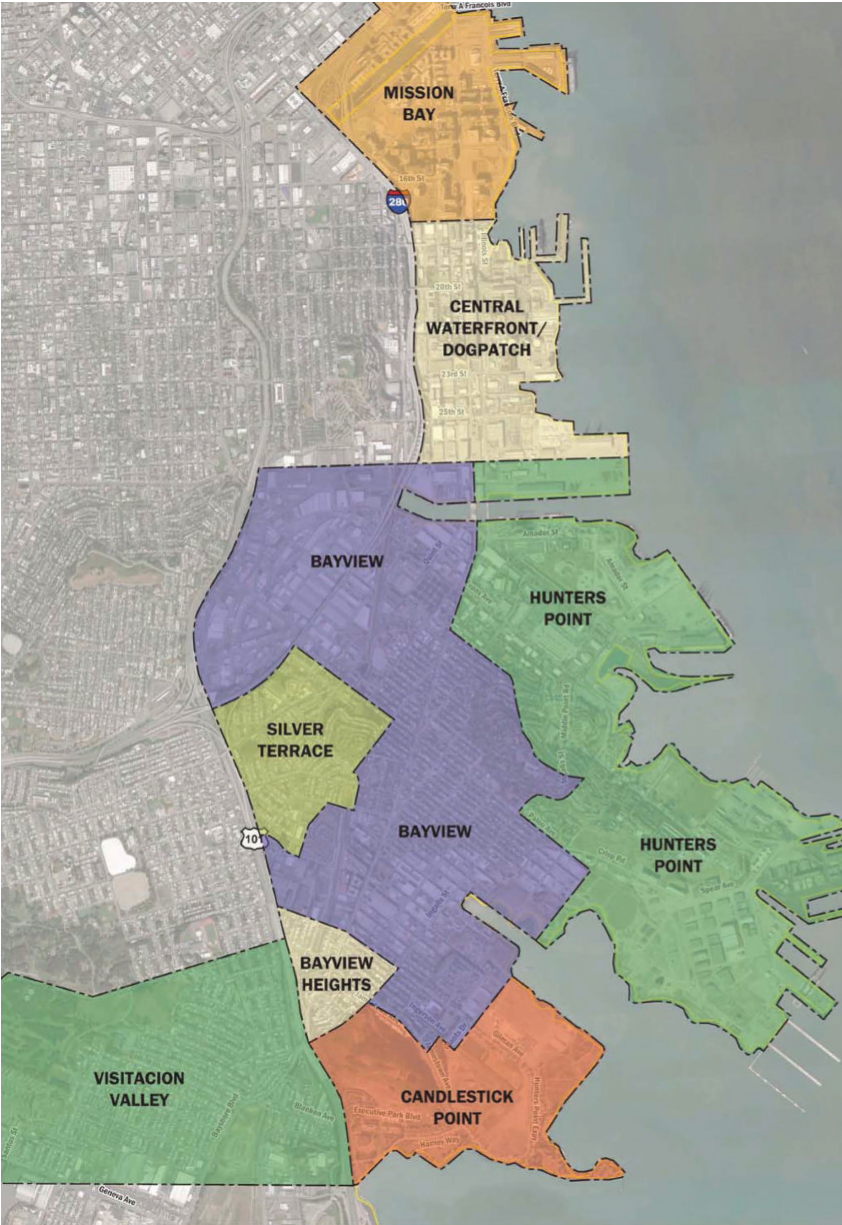
**BAY CORRIDOR TRANSMISSION DISTRIBUTION
SUBSTATION 398 QUINT STREET**

July, 2019

AECOM
lead consultant

incommon
design consultant

BCTD context



EASTERN WATERFRONT NEIGHBORHOODS



FEASIBLE FUTURE CUSTOMERS

BCTD context



Location plan 398 Quint St.



DAVIDSON AVE.

QUINT ST.

PHELPS ST.

JERROLD AVE.

EVANS AVE.

3RD ST.

CALTRAIN

EFWD

Substation site

- SSIP Phase 1
- 1 Biosolids
 - 2 Headworks
 - 3 Electrical bldg.
 - 4 Street landscape



250 500 1,000

Project brief

Site

- Area 10,740 sqft.
- Industrial zoning PDR-2 (65'-J)

O&M requirements

- Outdoor equipment only, no occupied spaces.
- Secure perimeter & firewall.
- Vehicular & pedestrian gates.
- Vehicular access ramp.
- 2 existing trees to be removed.

Sea level rise

- Equipment placed on concrete pads 2.5 - 3.0 ft above existing site elevation.

Stormwater management

- Project will create < 5000 sq ft of impervious surface.

Sidewalk

- New concrete sidewalk.
- Allow for future equipment replacement (crane).



Gas Insulated Switchgear

Project goals

- Meet O&M requirements.
- Integrate the substation with its context.
- Create a relationship with other SFPUC projects (SEP Campus & Headworks).
- Meet strict security requirements through positive environmental design.
- Create a discrete facility.





ISLAIS CREEK

I-280

BRUCE FLYNN PUMP STATION

NEW HEADWORKS

RAIL TRACK

CONSTRUCTION STAGING SFPUC

123 ft

SUBSTATION SITE

142 ft

DAVIDSON AVENUE

EVANS AVENUE

CONSTRUCTION STAGING SFPUC

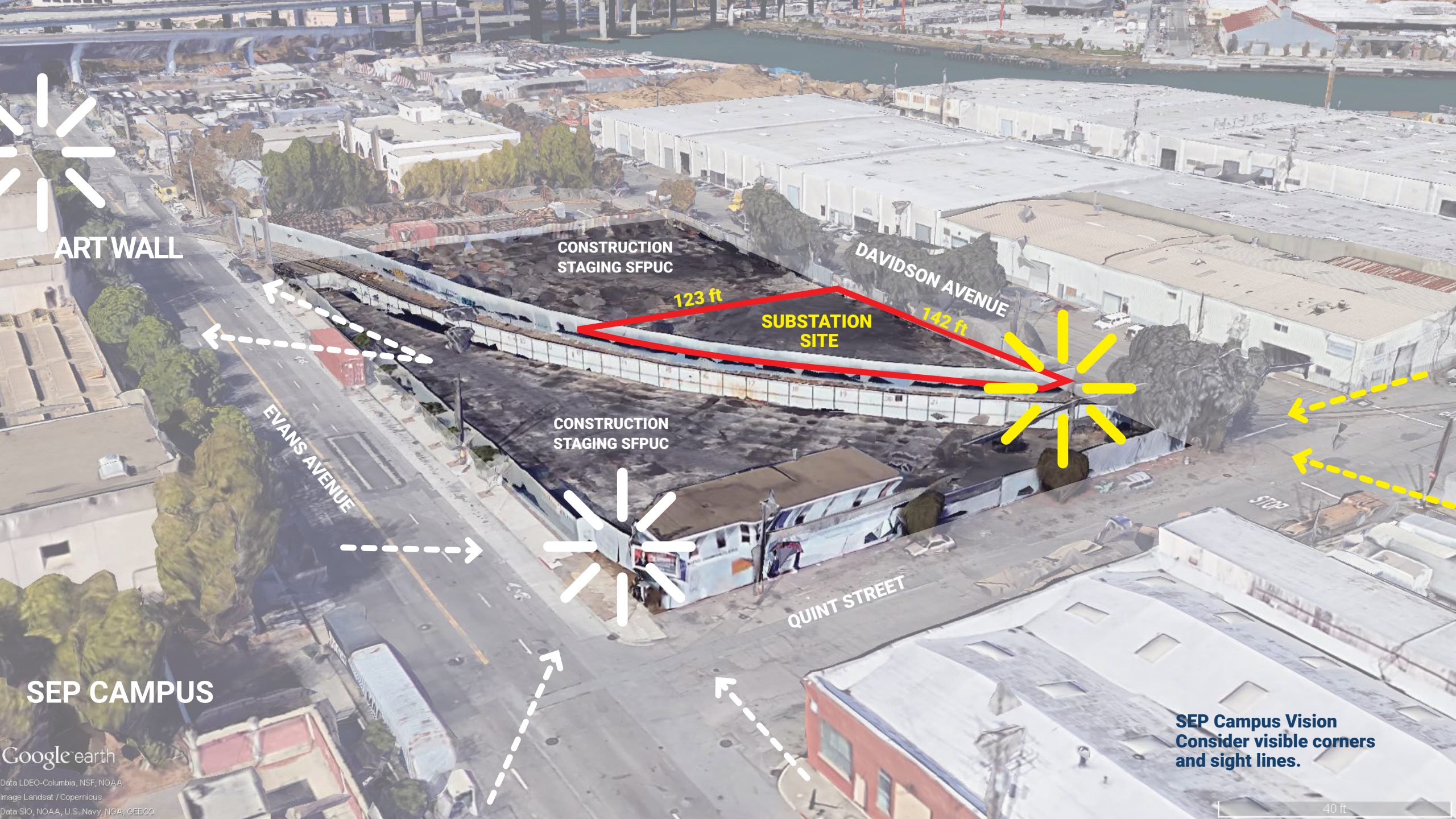
QUINT STREET

SEP CAMPUS

TO 3RD STREET

SEP Campus Vision:
Enhance connections to local destinations.

40 ft



ART WALL

CONSTRUCTION STAGING SFPUC

DAVIDSON AVENUE

123 ft

SUBSTATION SITE

142 ft

EVANS AVENUE

CONSTRUCTION STAGING SFPUC

QUINT STREET

SEP CAMPUS

SEP Campus Vision
Consider visible corners
and sight lines.

SEP CAMPUS

DAVIDSON AVENUE
TO 3RD ST.

NEW HEADWORKS
ART WALL

BCTD SUBSTATION SITE

NEW SIDEWALK

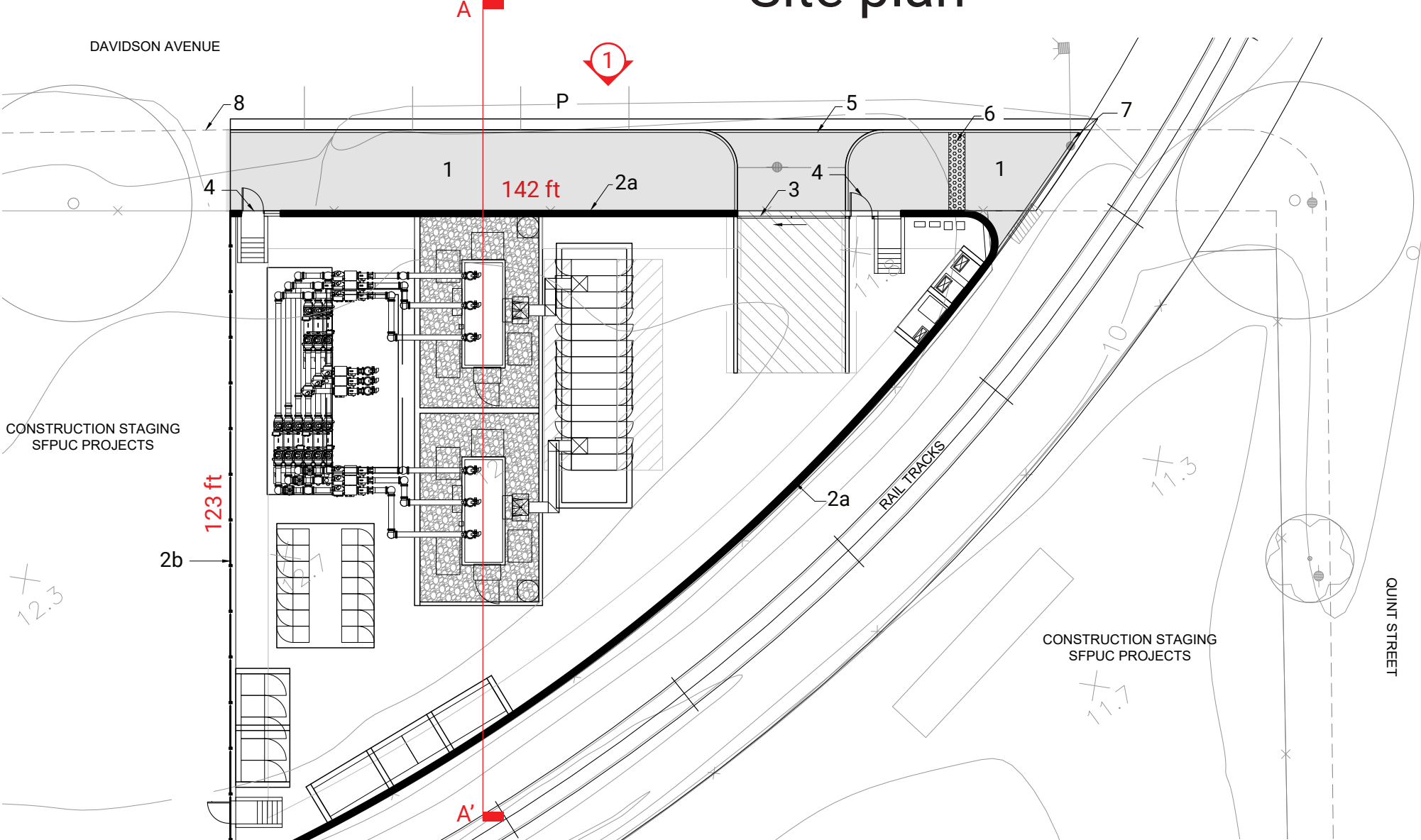
EXISTING TREES TO
BE REMOVED (2)

NEW PERIMETER

QUINT STREET
TO ISLAIS CREEK



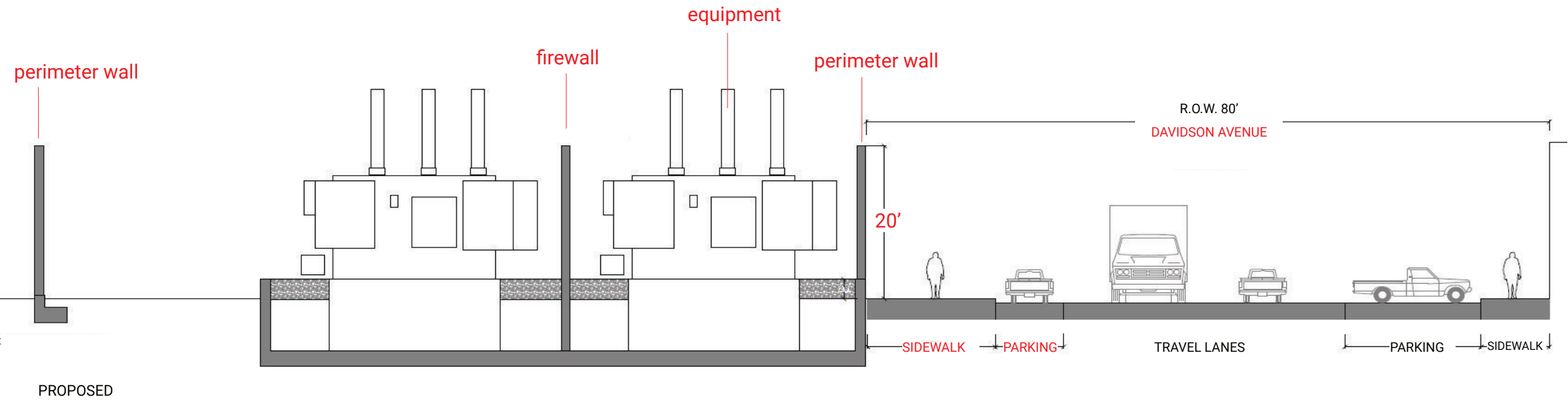
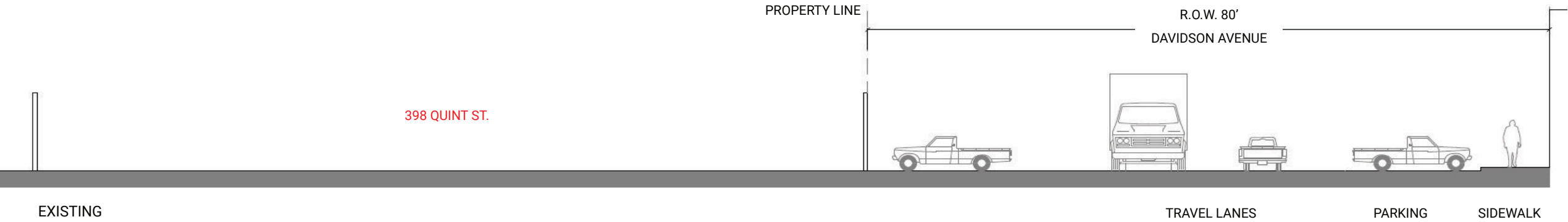
Site plan



LEGEND

- 1 NEW CONCRETE SIDEWALK.
- 2a CONCRETE PERIMETER WALL.
- 2b METAL FENCE AND GATE.
- 3 VEHICULAR GATE.
- 4 PEDESTRIAN GATE.
- 5 VEHICULAR RAMP.
- 6 CONCRETE TACTILE PAVERS.
- 7 SIDEWALK SLOPES TO MATCH TOP OF RAIL GRADE.
- 8 FUTURE SIDEWALK EXTENSION.
- P STREET PARKING.

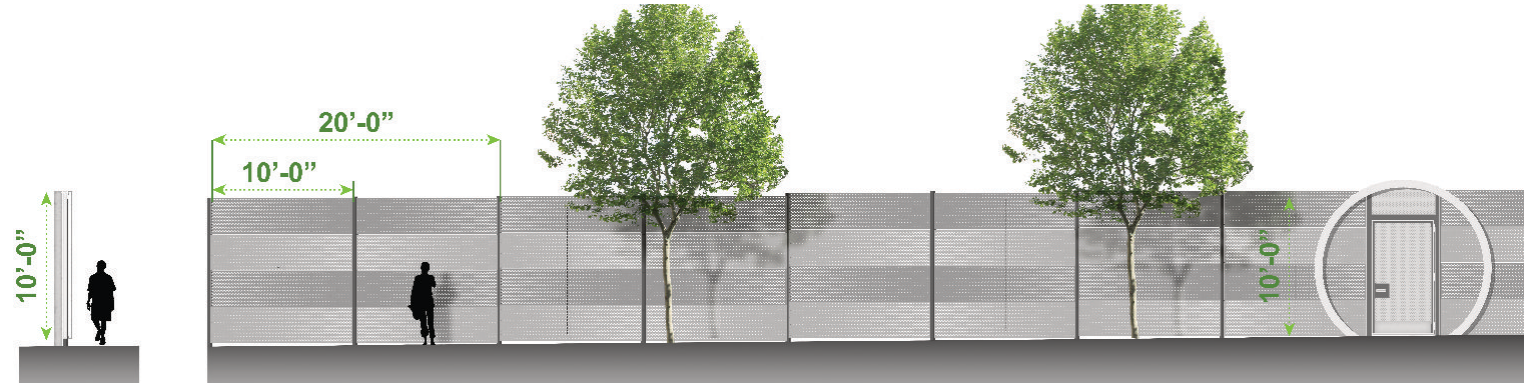
Section A-A'



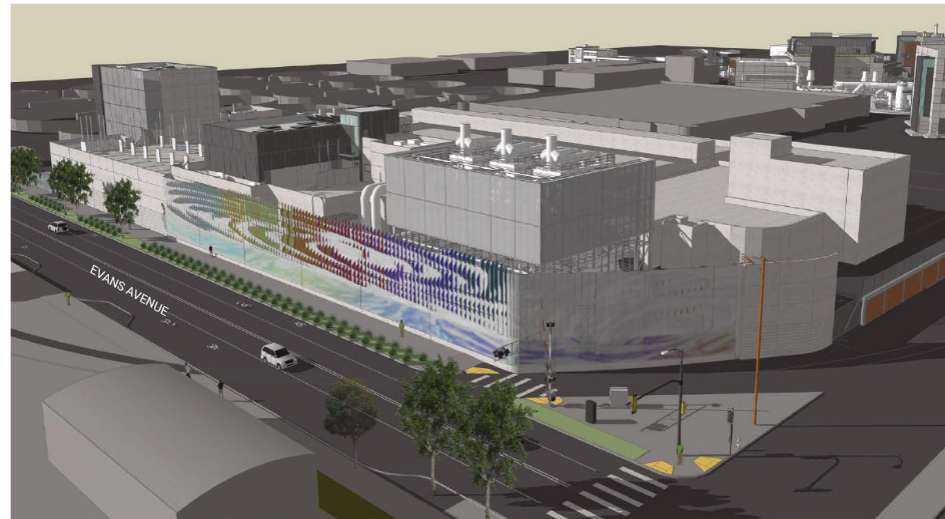
Design context



Existing SEP perimeter
(old perimeter approach)



SEP Campus fencing (new perimeter approach)



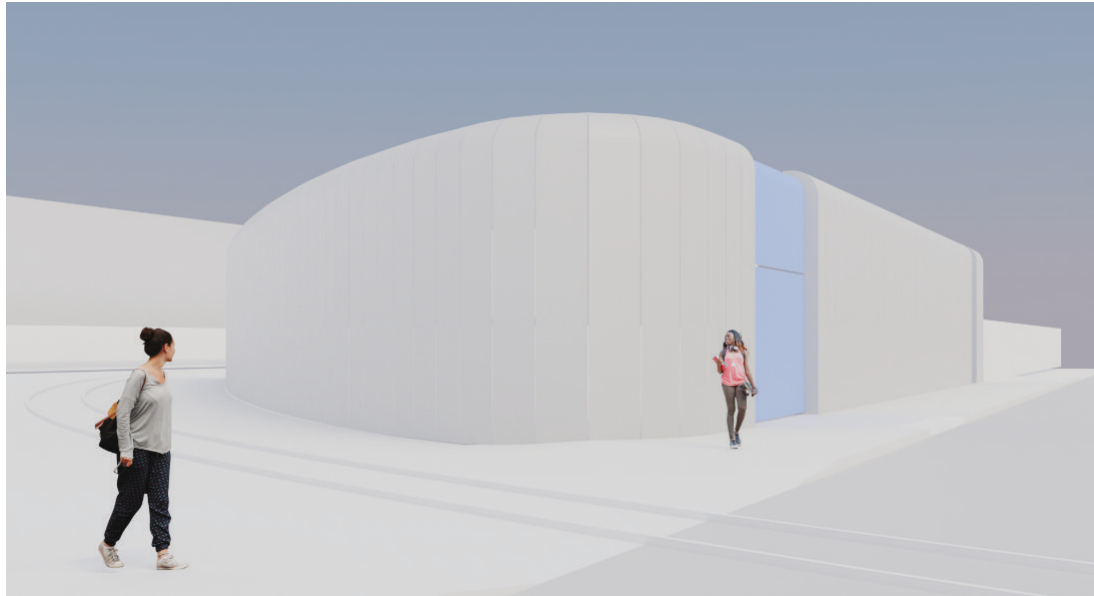
Headworks perimeter



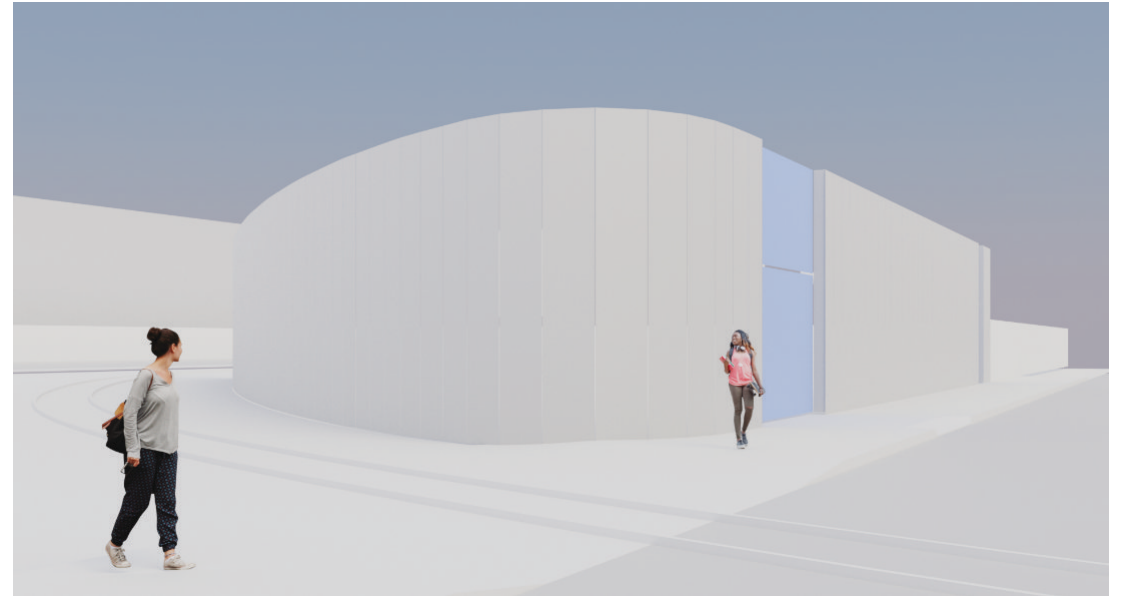
New approach to safe anti-climb barriers

Design studies

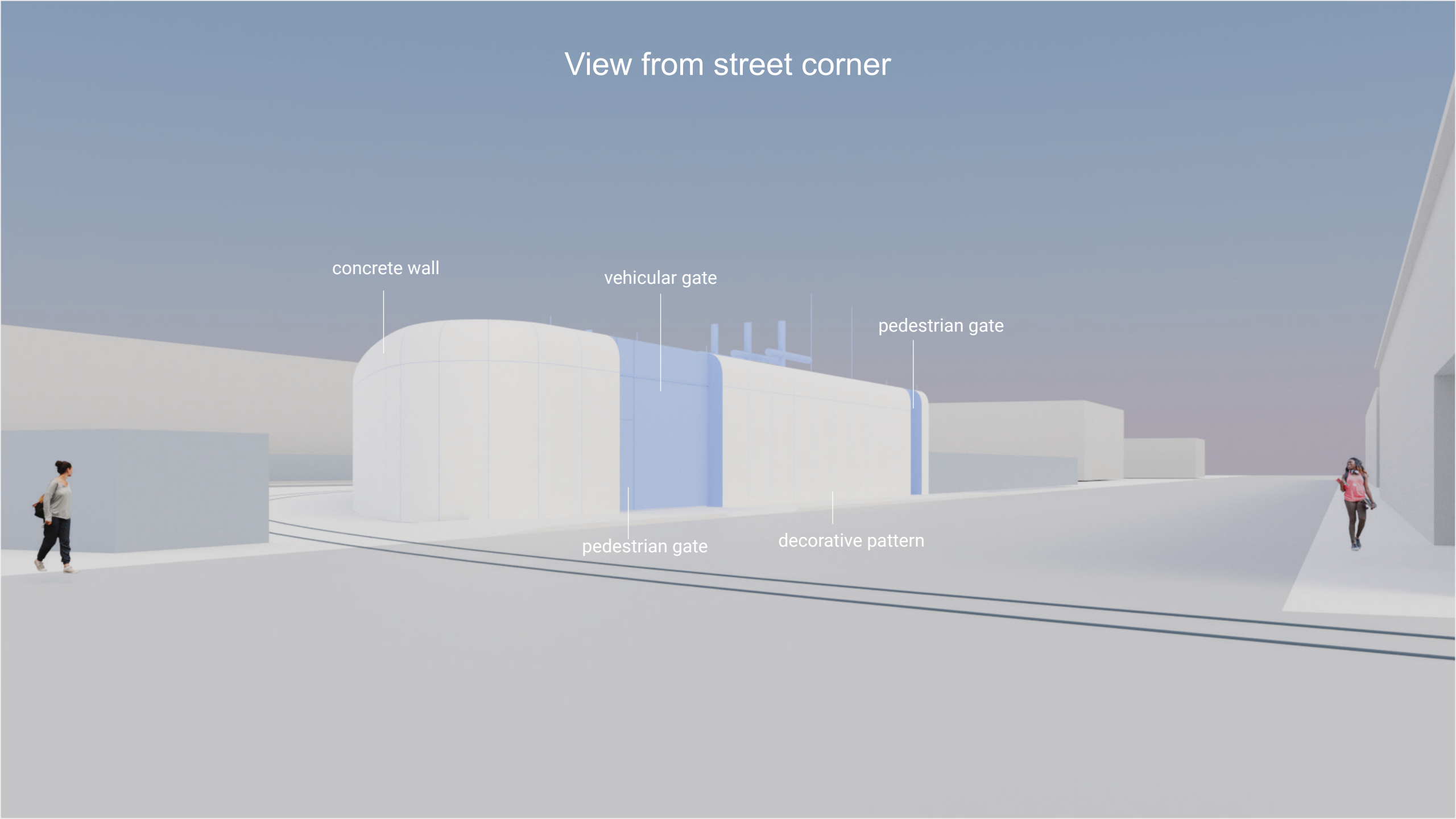
curved inward



vertical



View from street corner



concrete wall

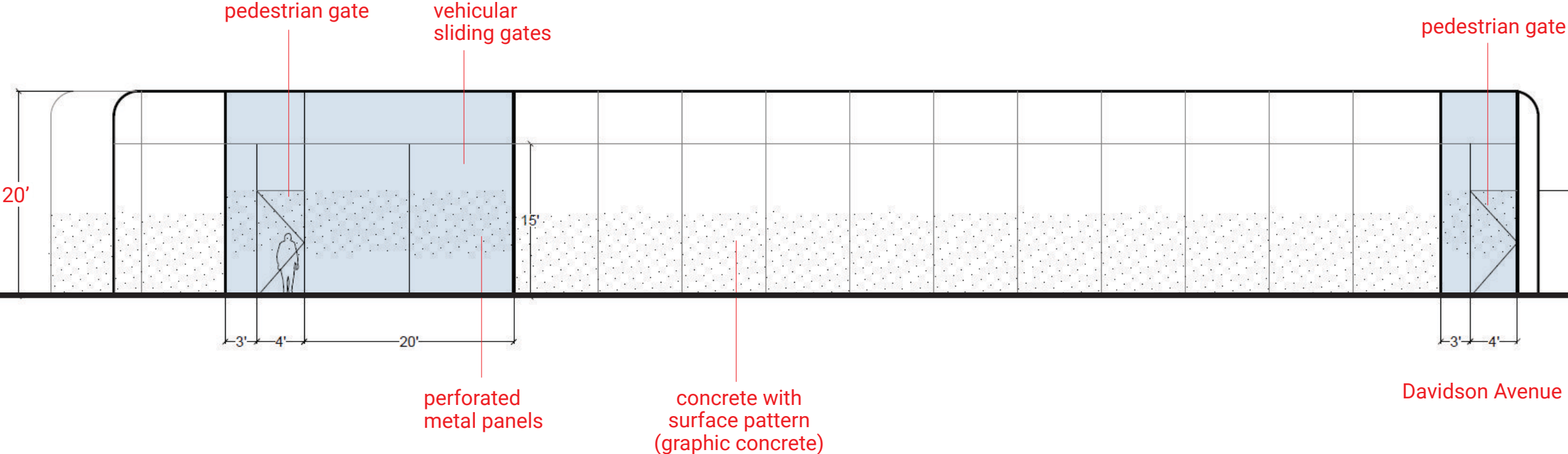
vehicular gate

pedestrian gate

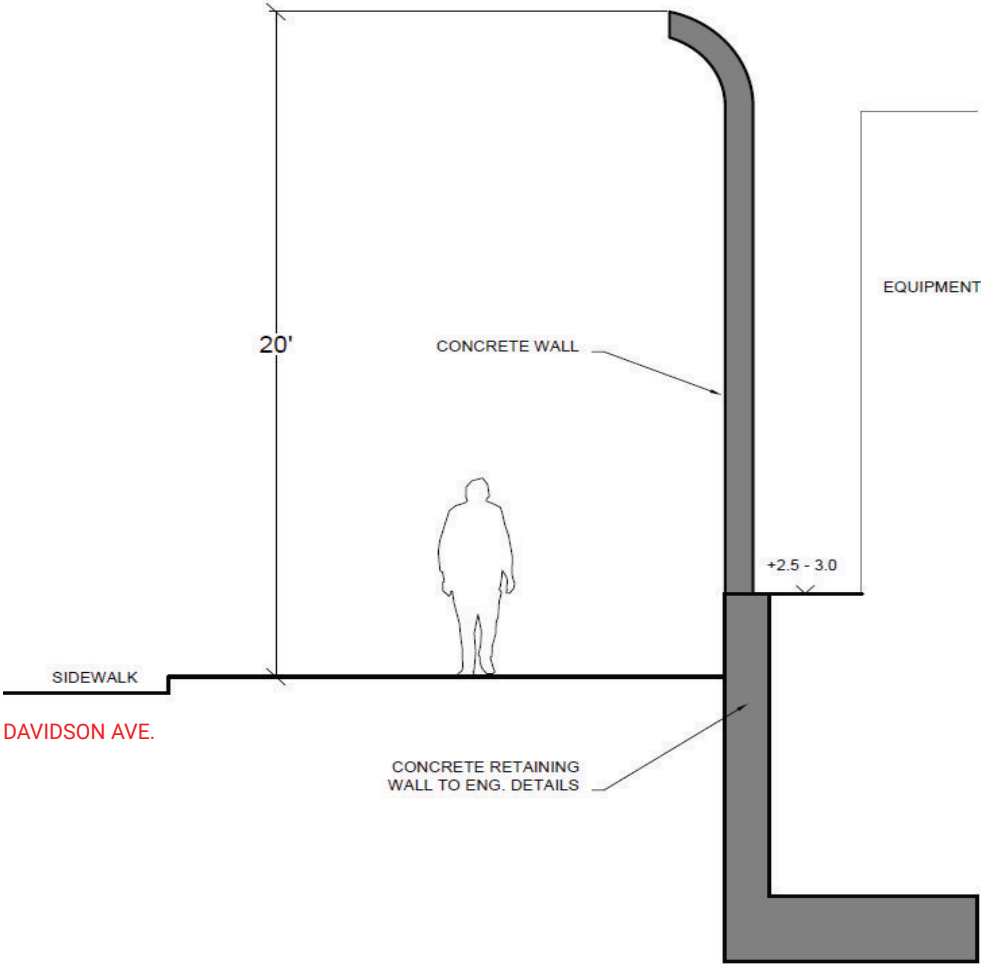
pedestrian gate

decorative pattern

Elevation

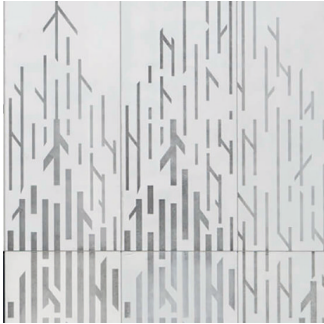


Typical section

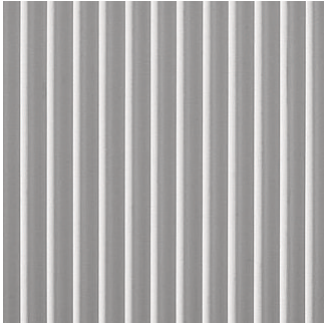


Materials

CONCRETE WALL

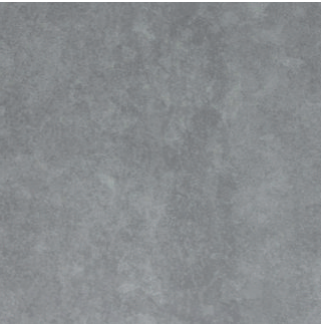
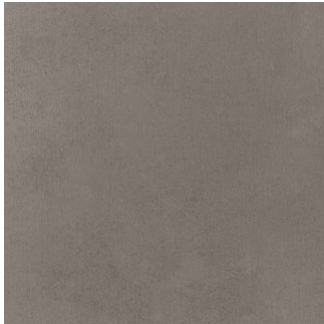


Graphic concrete



Cast-in-place

METAL PANELS (gates only)



All finishes to be evaluated in final design stage and include anti-graffiti coating.