



mwa architects

ch2m

Civic Design Review Phase 1

SEP Biosolids Project

January 23, 2017

Design Objective and Strategies

Objective

- To bring industry, community, and environment together in an integrated urban campus that the community and SFPUC can take pride in.

Strategies

- Practical, efficient structures to house equipment
- Design features highlight functions and processes
- Daylighting operational spaces
- Durable, contemporary palette of materials
- Material colors/textures/patterns for visual interest and neighborhood scale
- Sustainable design and green infrastructure
- Integrated educational features and public art
- Campus vocabulary with consistent visual character

Stakeholder Design Input

Public Outreach

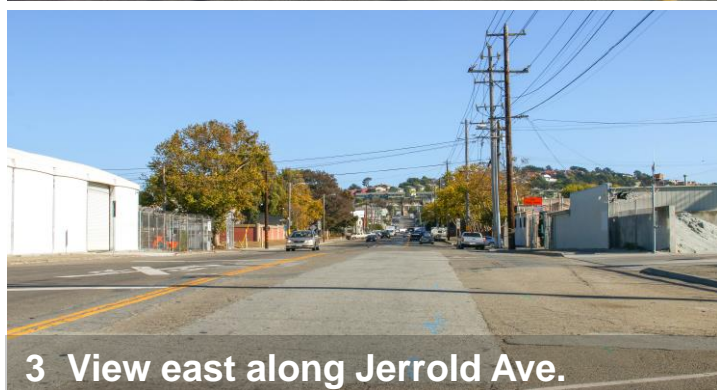
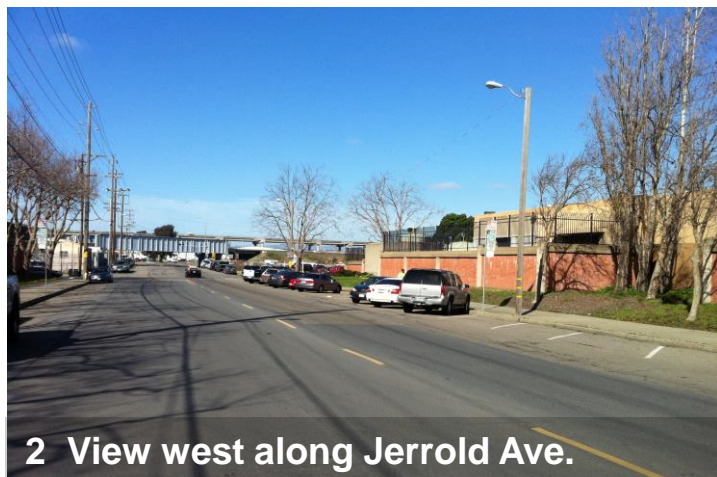
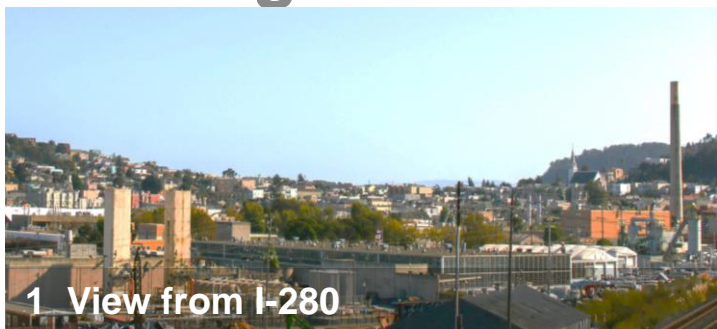
- Blend into the neighborhood
- Not too industrial
- Inviting pedestrian edges
- Wears well over time
- Welcoming

SFPUC Management

- Timeless design
- Educational
- Earth tones
- Neighborhood connections

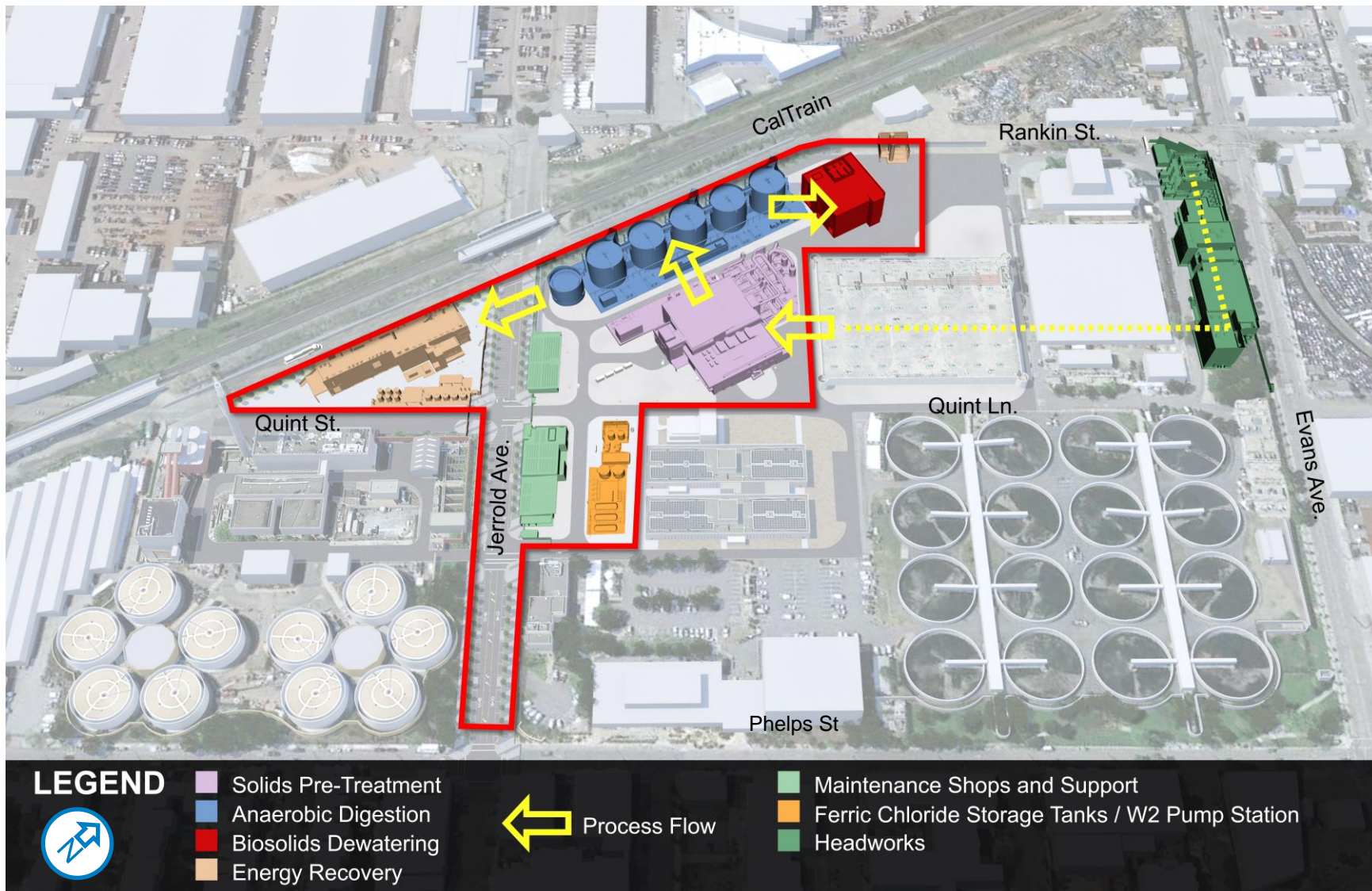


Existing Conditions

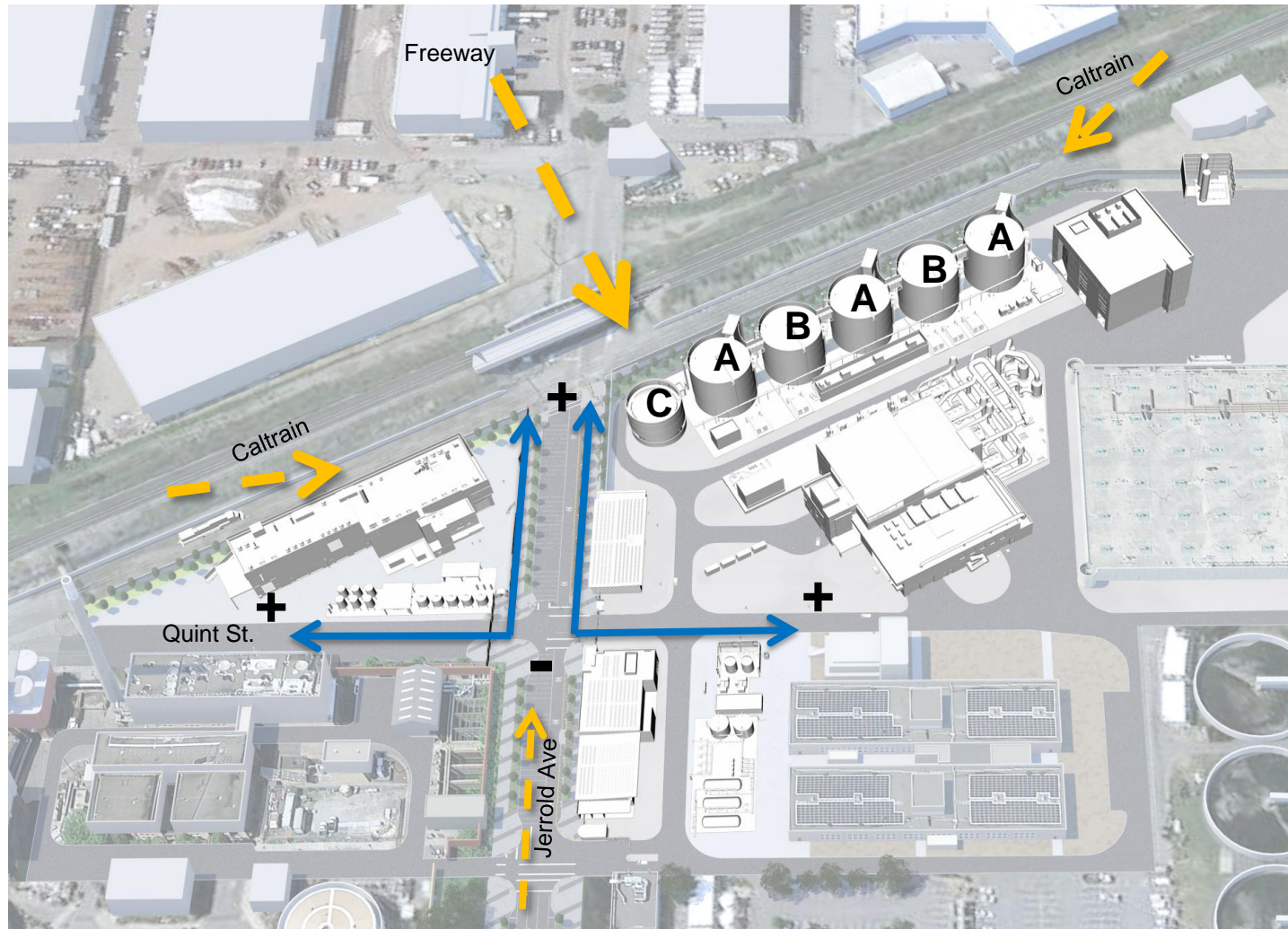


Project Site

Facility Layout



Massing Diagram



MASSING



+ More Height

- Less Height

VIEWS



Material Palette

① Textured Concrete



② Terra Cotta



③ Weathered Zinc



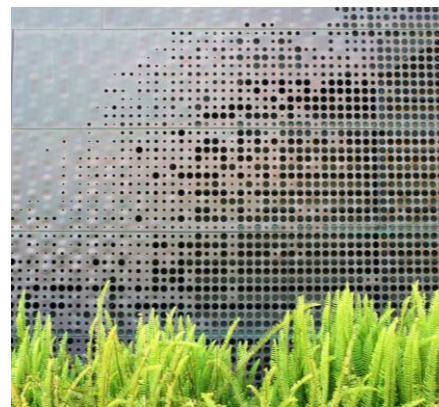
④ Stainless Steel



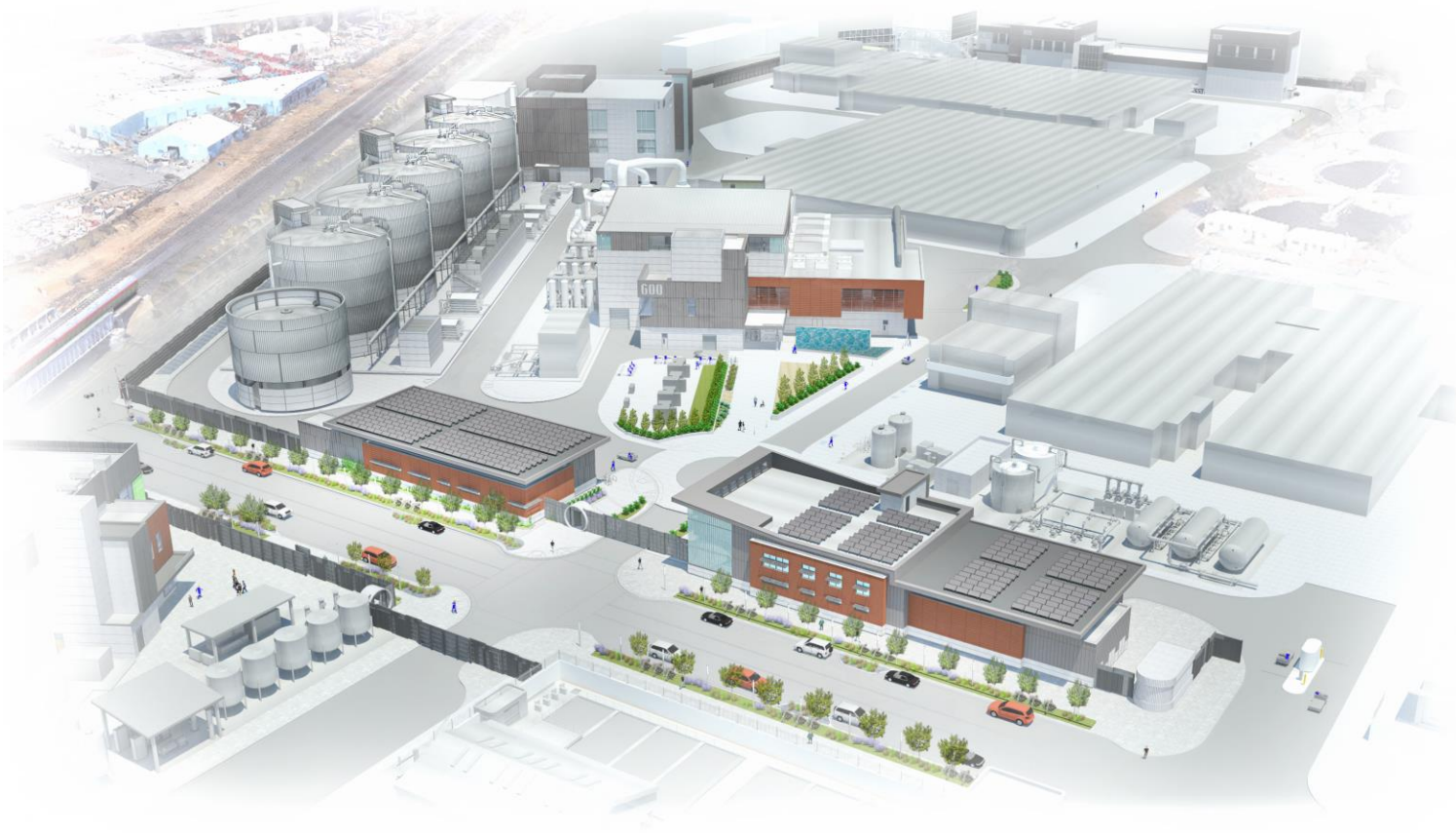
⑤ Channel Glass



⑥ Perforated Aluminum



Biosolids Phase 1

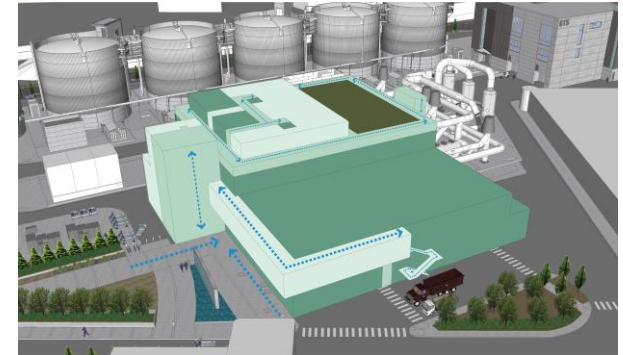


- Coordinated with SEP guidelines to develop urban campus vocabulary and integrate project into larger urban context
- Internal education plazas connected by pedestrian access across Jerrold Ave

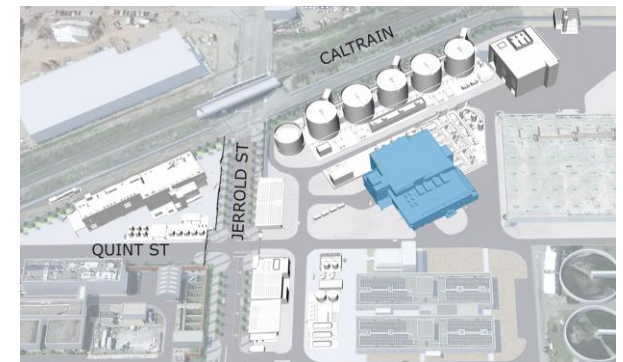
Solids Pretreatment



Aerial View

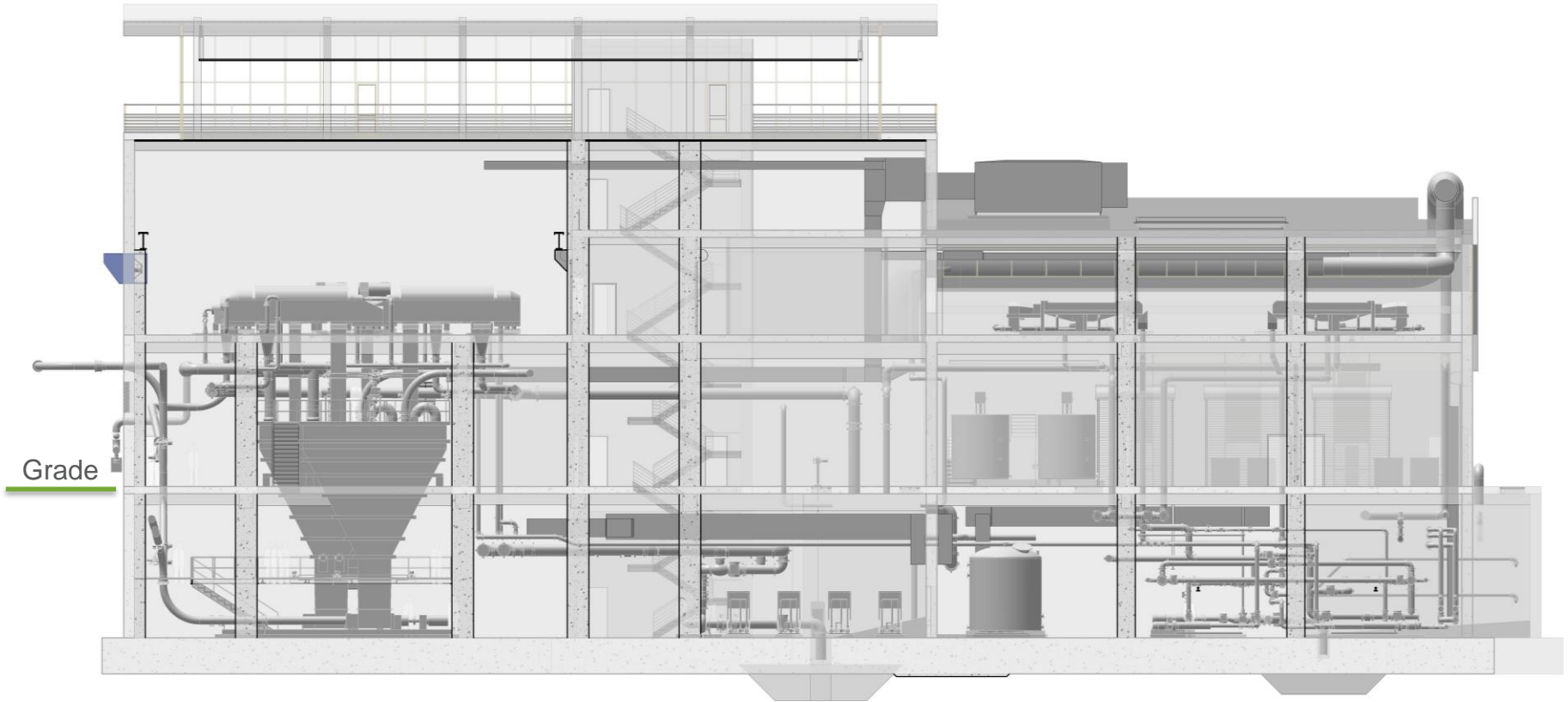


Functional Diagram



Key Plan

Solids Pretreatment



Building Section

Solids Pretreatment

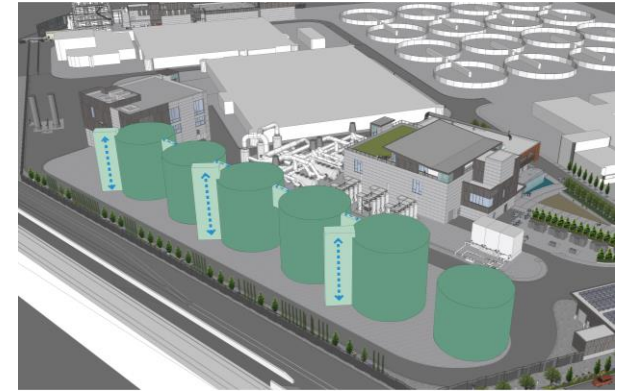


Entrance View

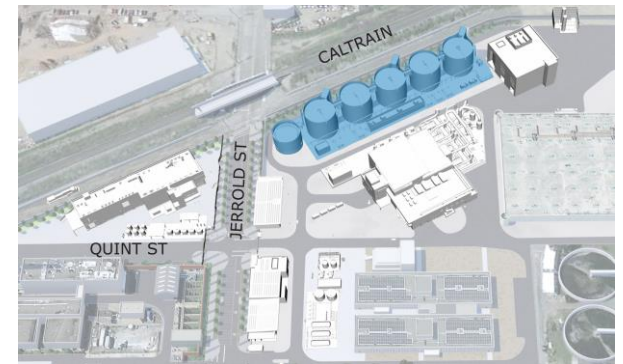
Anaerobic Digestion



Aerial View

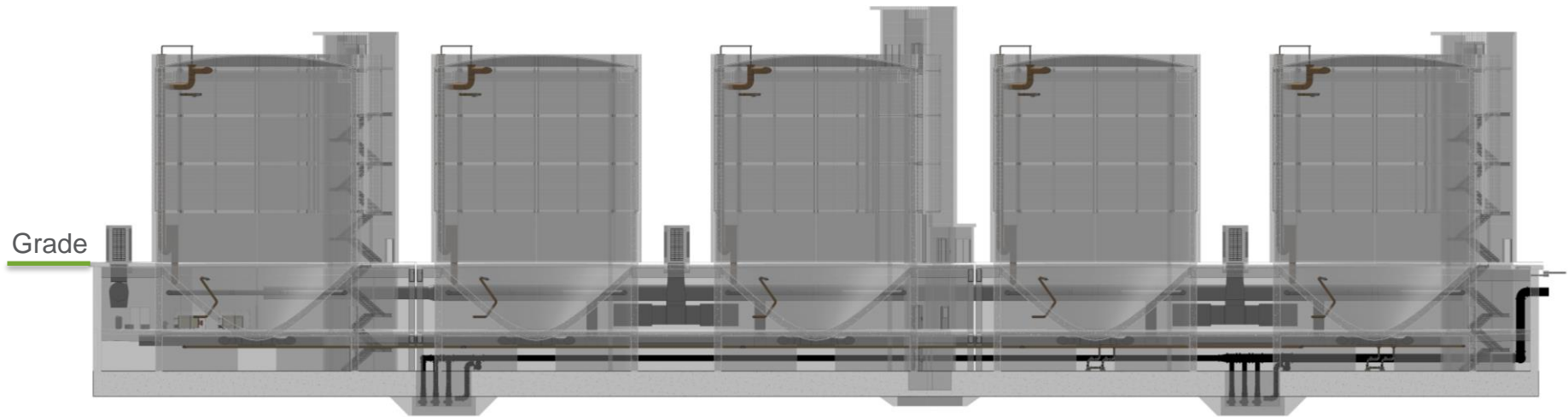


Functional Diagram



Key Plan

Anaerobic Digestion



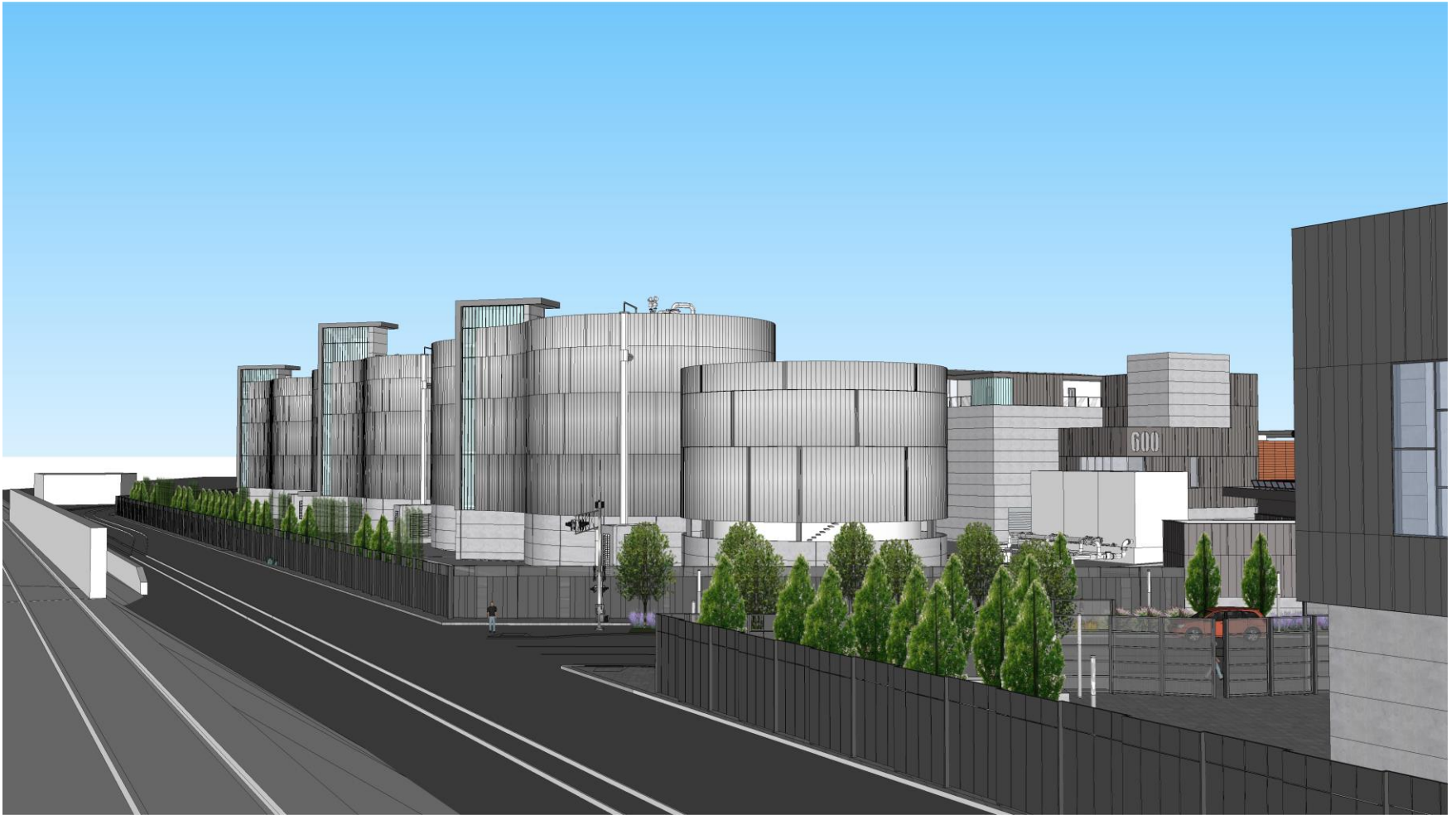
Building Section

Anaerobic Digestion



View from Train Line at Night

Anaerobic Digestion

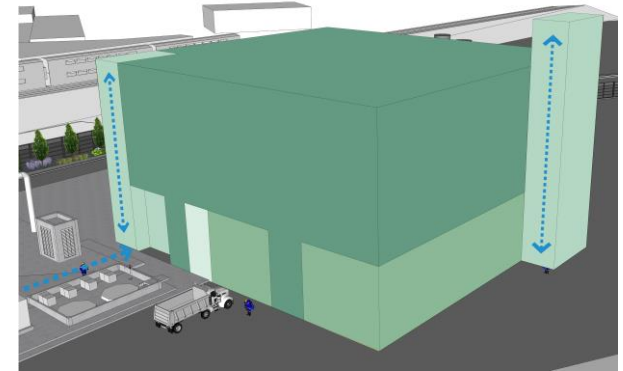


Train Line View Looking North

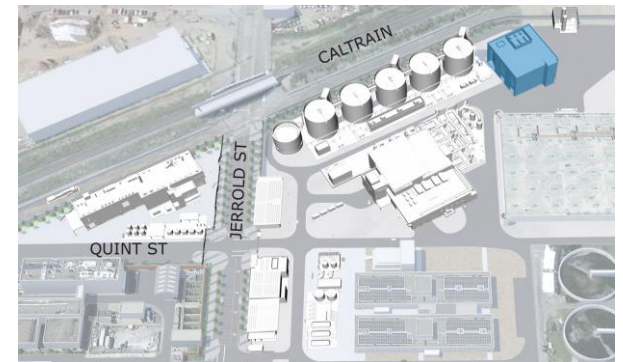
Biosolids Dewatering



Aerial View Looking Northwest

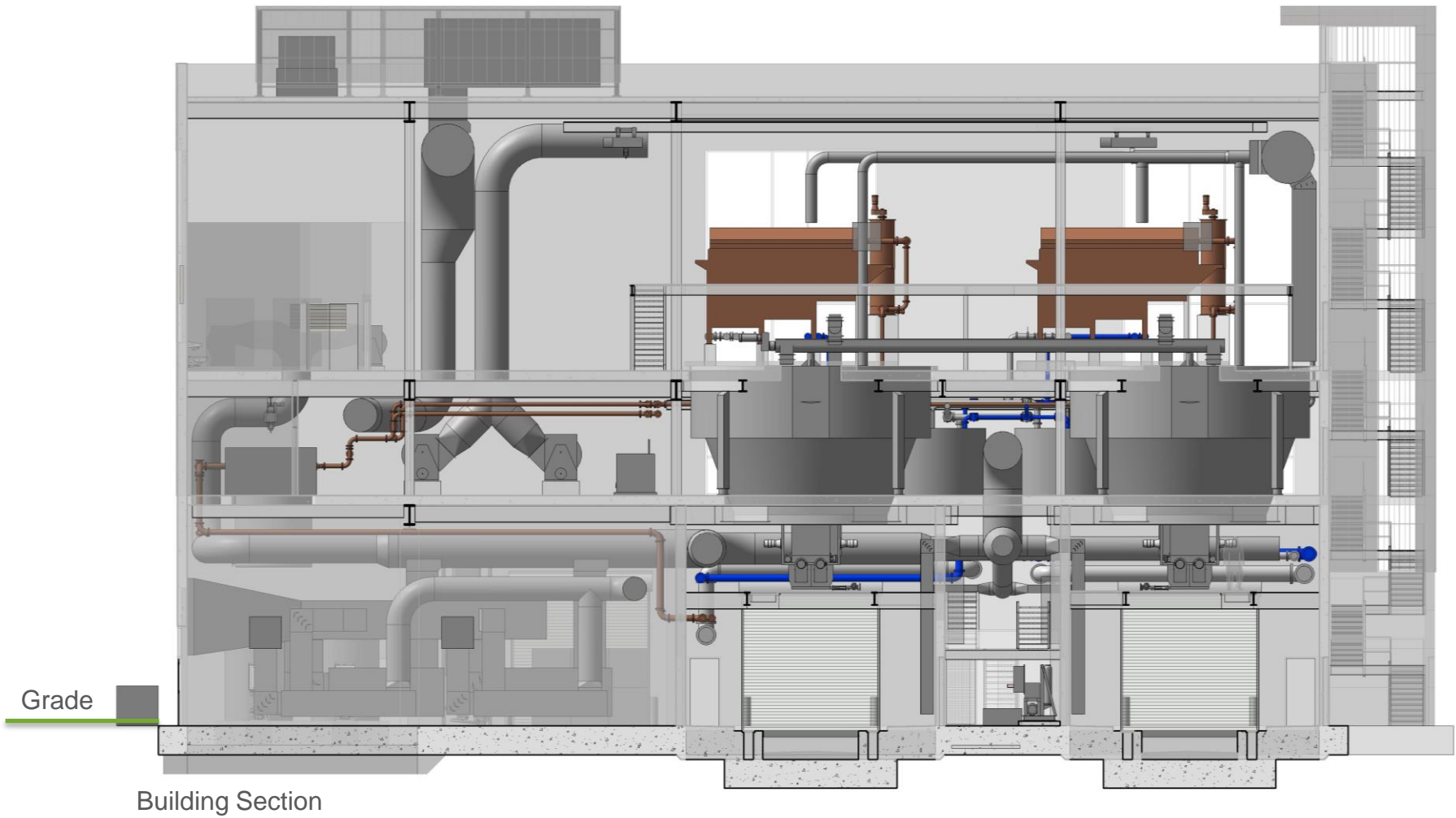


Functional Diagram



Key Plan

Biosolids Dewatering



Biosolids Dewatering



Train Line View

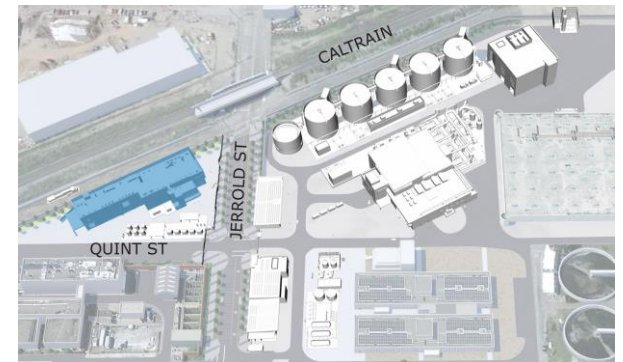
Energy Recovery



Aerial View

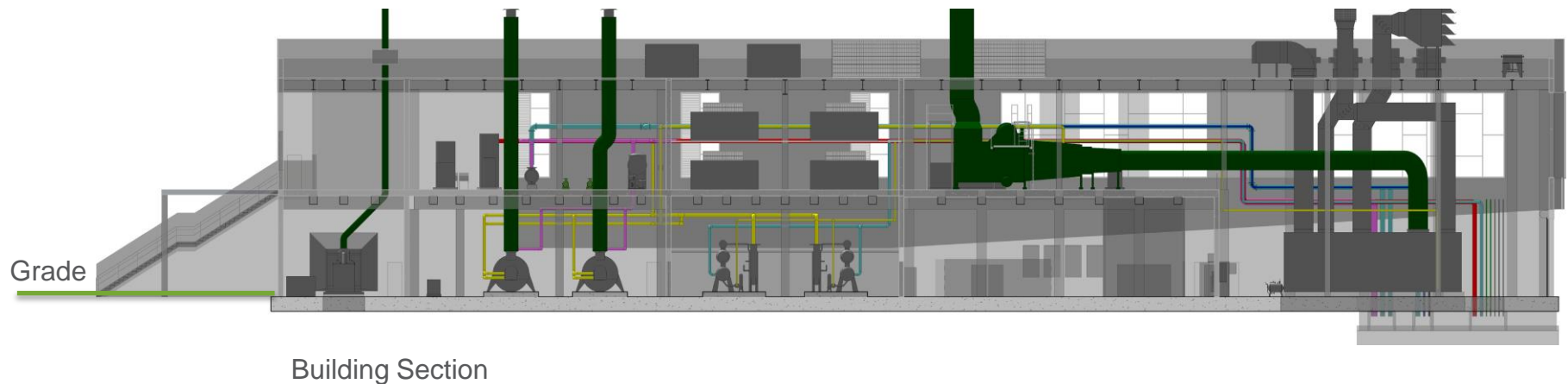


Functional Diagram



Key Plan

Energy Recovery



Energy Recovery



Train Line View

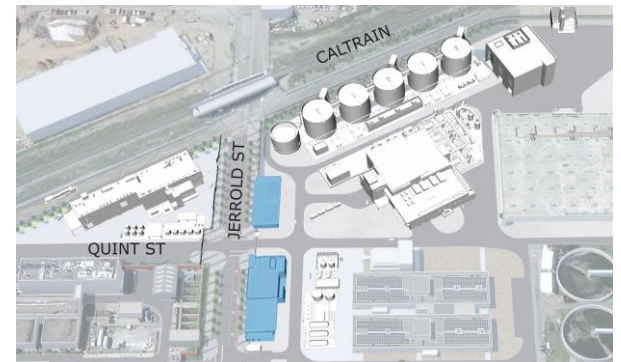
Maintenance Shops



Aerial View



Functional Diagram



Key Plan

Maintenance Shops



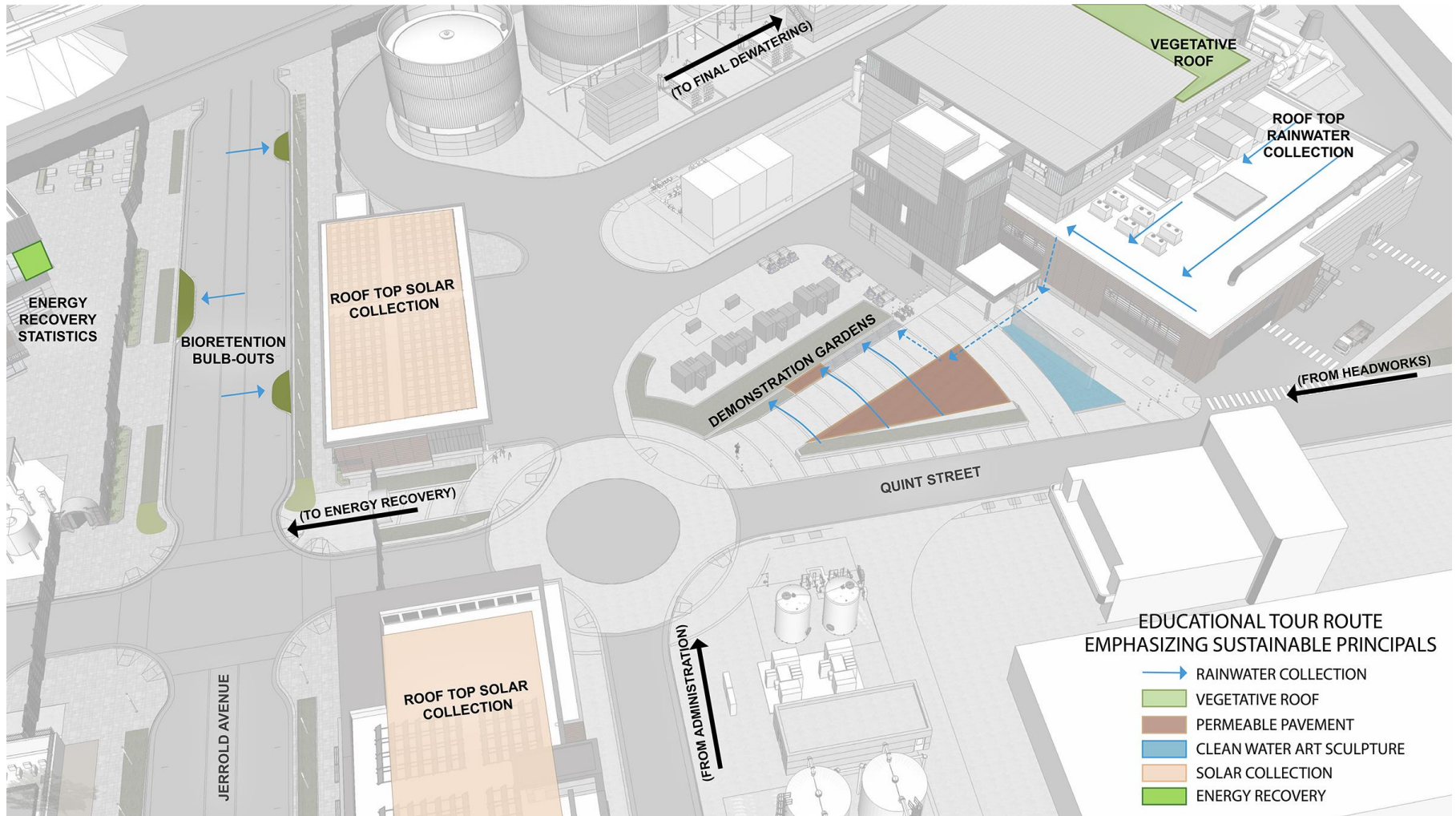
Plant Side View

Solids Pretreatment Gathering Plaza



Aerial View

Solids Pretreatment Gathering Plaza



Educational Components

Solids Pretreatment Gathering Plaza



Pivot/Intersection inside north Quint gate



Seating/gathering area looking south



Educational gardens aerial view



Water sculpture looking north

Plant Material Palette

- ① Evergreen Trees
Italian Cypress



- ② Flowering Evergreen Trees
Flax Leaf Paper Bark



- ③ Deciduous shade Trees
Armstrong Columnar Maple



- ④ Evergreen Shrub
Dwarf Holly, multiple species



- ⑤ Flowering Shrubs
Multiple species



- ⑥ Ornamental Grasses
Blue Oat Grass, multiple species



Maintenance Shops



View west along Jerrold Ave