

RAILROAD AVENUE - Connecting Colman Dock + the Stadium District

Today, Railroad Avenue provides a unique connection between Coleman Dock and the Stadium District. The removal of the viaduct will create new streetscape opportunities for this thoroughfare. Proposed housing and commercial development in the area will bring new uses and the need for an improved urban environment. This streetscape concept for Railroad Avenue offers several ideas for improving cultural amenities in the area while implementing sustainable stormwater and energy management practices.

BUILDING SKINS

Vegetated walls and other building "skins" reduce major internal temperature fluctuations and help lower energy expenditures. Some membranes are responsive to the circulation patterns of hot and cool air and direct airflow to move through the structure. This system allows the building to heat and cool using natural processes. Skins can also help insulate the structure by screening exterior walls from major temperature fluctuations.



STORMWATER PLAZA + POCKET PARK

A urban plaza and park provides an amenity to new housing residents and stadium users while detaining and storing stormwater. The stormwater is artfully revealed by a sculpture that mists a vegetated wall and helps cool the adjacent building.

PROPOSED HOUSING DEVELOPMENT

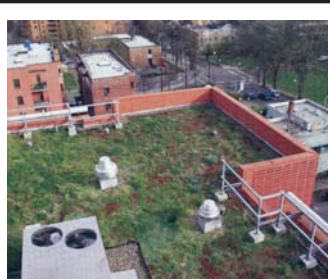
QWEST FIELD

EXISTING PAVING + RAILROAD TRACKS

Historic brick paving and railroad tracks are revealed at key intersections and provide a unique feature that visually connects pedestrians from block to block.



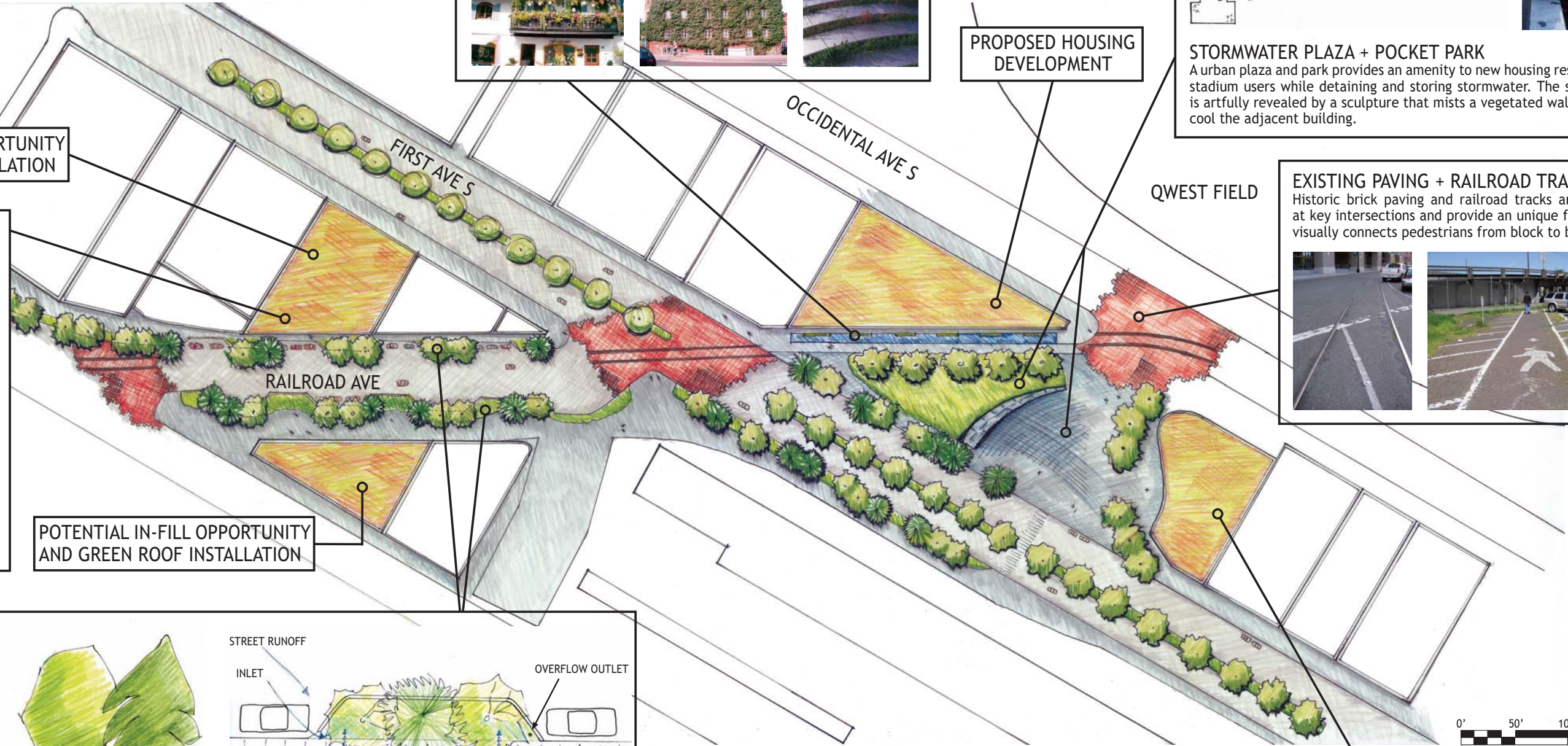
POTENTIAL IN-FILL OPPORTUNITY AND GREEN ROOF INSTALLATION



GREEN ROOFS

Green roofs provide multiple benefits such as reducing heat island effect city-wide, lowering building operating costs, and detaining stormwater runoff. They should be specified for new construction and retrofitted to existing buildings when appropriate.

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Detention

A gravel lens under impermeable parking spaces connects bioswales and increases detention capacity. The system could terminate at Elliott Bay allowing clean stormwater to return to the water cycle.

Infiltration

Stormwater runoff is collected from the street in bioswales planted with wetland plants. Wetland species and trees that uptake heavy metals would be planted to filter runoff. Soil layers provide additional filtration and detention properties.

INNOVATIVE FORMS

New buildings can assume innovative form that work in concert with ecological processes and respond to the surrounding streetscape design

