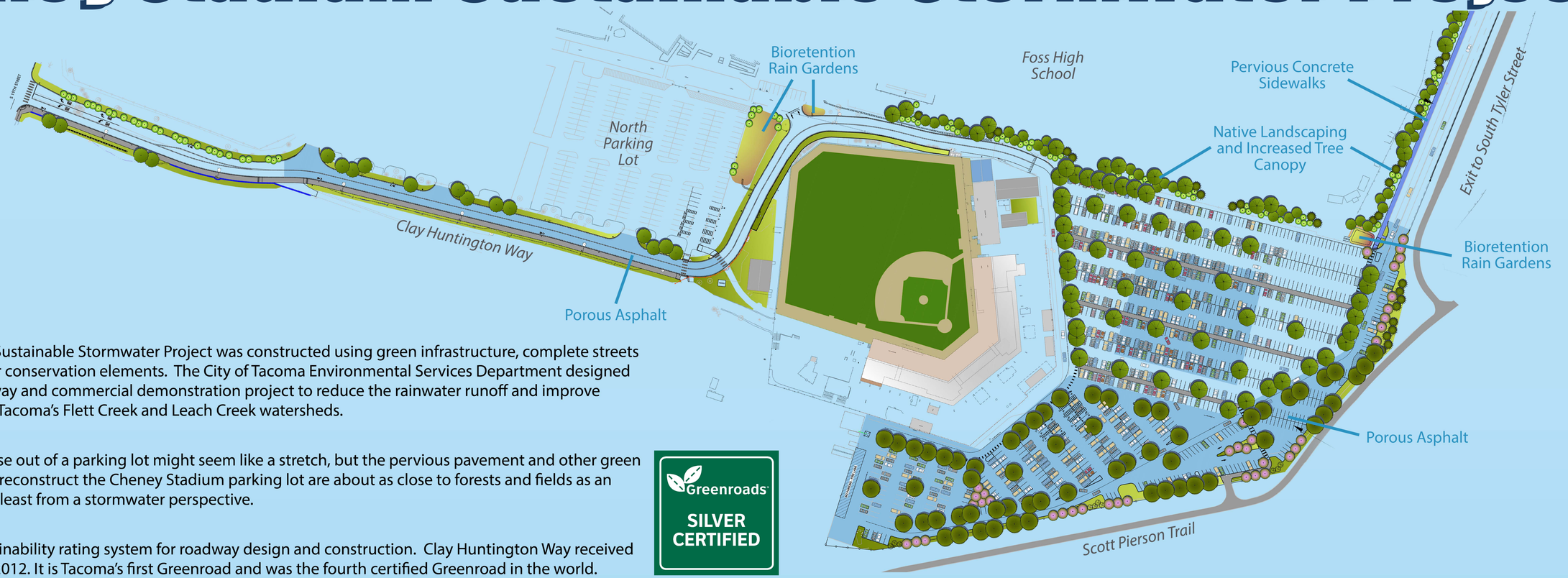
Cheney Stadium Sustainable Stormwater Project



About the Project

The Cheney Stadium Sustainable Stormwater Project was constructed using green infrastructure, complete streets techniques and power conservation elements. The City of Tacoma Environmental Services Department designed this sustainable roadway and commercial demonstration project to reduce the rainwater runoff and improve stormwater quality in Tacoma's Flett Creek and Leach Creek watersheds.

Green Parking

Trying to make paradise out of a parking lot might seem like a stretch, but the pervious pavement and other green infrastructure used to reconstruct the Cheney Stadium parking lot are about as close to forests and fields as an urban area can get, at least from a stormwater perspective.

Greenroads ®

Greenroads® is a sustainability rating system for roadway design and construction. Clay Huntington Way received Silver Certification in 2012. It is Tacoma's first Greenroad and was the fourth certified Greenroad in the world.

Greenroads SILVER CERTIFIED

Rhubarb Approved!

Green Infrastructure

Pervious Pavement

Allows rainwater to filter naturally through the soils below. This replenishes the groundwater and reduces downstream flows that contribute to nearby lakes, streams and Puget Sound. Stormwater runoff from 11 acres is infiltrated within 6-acres of permeable pavement.

Bioretention Rain Gardens

Filter rainwater through amended soil, which removes pollutants. Rain gardens also help replenish groundwater, control the flow of stormwater, reduce flooding and provide habitat for beneficial birds and insects.

Sustainable Landscaping

Minimizes the need for irrigation and maintenance by planting a dense canopy and native, drought-resistant plants. These features also help filter rainwater, save water and energy and improve air quality. As the trees and plants grow, so will the benefits.

Complete Streets

Bicycle Amenities

Encourage bicycle use by providing safe, comfortable and convenient access for bicycles. Features include wider roads, shared lane markings and bicycle racks.

Pedestrian Amenities

Enhance the pedestrian environment and safety for those traveling on foot or by bus. Features include sidewalks, lighting, 440 new trees and 7 acres of new tree canopy.

A more comfortable and inviting environment was created by providing walkable and bicycle-oriented streets and sidewalks which includes connectivity to the Scott Pierson Trail.

Power Conservation

LED Streetlights

Improve visibility at night along Clay Huntington Way. These lights have a significantly longer lifespan, lower energy consumption, reduce maintenance costs, and have an overall smaller environmental footprint.

Charging Stations

Support the electric vehicle infrastructure of Tacoma. Better access to charging stations helps increase the viability of clean transportation technology. Charging stations are located in the Cheney Stadium North Parking Lot.

Design Team

Civil Engineer: KPG, Inc.
Geotechnical: Landau Associates and GeoDesigns, Inc.

Construction Team

Phase 1: Tucci and Sons, Inc. **Phase 2**: Stan Palmer Construction

Construction Budget

Phase 1: $1,400,000 **Phase 2:** $1,700,000
Project Total: $3,100,000, which is estimated to be about half the cost of traditional improvements providing the same stormwater benefit.

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