Solid Waste Management Drainage & Traffic Safety Improvements
Location: Tacoma Recovery and Transfer Center, 3510 S Mullen Street
Project Description

Concerns
Customer and staff safety concerns were the primary project motivators. The Scale House intersection at the SWM facility had a high volume of vehicle and pedestrian traffic moving in several directions - confusing drivers and creating increased potential for accidents.

Additionally, the employee parking lot adjacent to the intersection is built on top of a portion of the City’s decommissioned landfill. Due to ground settling over time, the parking lot no longer provided adequate storm drainage. This led to puddling and ice in the winter, creating a hazard to employees and visitors.

Solutions
By eliminating several dangerous entrances and exits, newer and safer vehicle routes were created. A stormwater bioretention swale was installed near the parking lot, which allowed for safer redirects of traffic flow and reduced stormwater pollution concerns. New flashing crosswalk beacons were put in place and parking lot lights were installed to increase pedestrian visibility. Other improvements include new turnaround roads and traffic redirects, as well as installation of several electric vehicle charging stations for both public and employee use.

Project Schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Timeframe</th>
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<tbody>
<tr>
<td>Design Phase</td>
<td>January 2018 - February 2019</td>
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<tr>
<td>SWM Design Meetings</td>
<td>2018 - 2019</td>
</tr>
<tr>
<td>Employee Workshops</td>
<td>August 2018</td>
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<tr>
<td>Advertise and Award</td>
<td>March - June 2019</td>
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<tr>
<td>Employee Information Sessions</td>
<td>May 2019</td>
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<tr>
<td>Built Temporary Employee Lot &amp; Move in</td>
<td>May - June 2019</td>
</tr>
<tr>
<td>Construction</td>
<td>July 2019 - October 2019</td>
</tr>
<tr>
<td>Employees Moved into New Parking Lot</td>
<td>October 2019</td>
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</tbody>
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Project Funding

<table>
<thead>
<tr>
<th>Construction Funding</th>
<th>Total Amount</th>
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</thead>
<tbody>
<tr>
<td>Solid Waste Management</td>
<td>$2,025,223.86</td>
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</tbody>
</table>

* Costs as of March 2019. Including sales tax
During Construction
What is a bioswale?

These linear channels are designed to capture, slow, and filter stormwater runoff to keep harmful pollutants from reaching our waterways. In this project, the bioswale also created a necessary safety barrier between the parking lot and exit lane, increasing pedestrian and vehicle safety.
After Construction
Project Manager/Design Engineer
Amy Anderson

Design & Construction Team
Julia Peterson (Engineering Tech)
Phet Sinthavong (SWM Lead)
Erik Ward (Principal Review)
Drew Randolph (Construction Review)
Michael Carey (Street Tree and Landscape Design)
Janda Volkmer (EnviroHouse)
Craig Hamburg (Landscape & Irrigation)
Scott Hartung (Electrical)
Various SWM Supervisors & Employees
Sean Olson (Inspector)
Dustin Smith (Inspector)
Lisa Oestreich (Construction Manager)
Kerry Harper (Surveyor)
Ryan Vernon (Surveyor)
Gary Glidden (Surveyor)
Parametrix

Contractors
Active Construction Inc. (Prime Contractor)
American Electrical Services
Puget Paving
Tyee Concrete
NW Lining
ACF Environmental