

GOOD DRAINAGE, GOOD VIBES

revitalizing, reprogramming, and revealing stormwater at South Eugene High School



invisible



underutilized

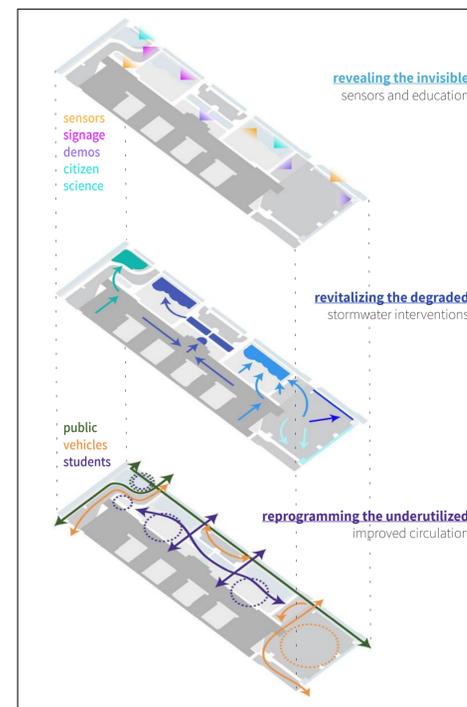
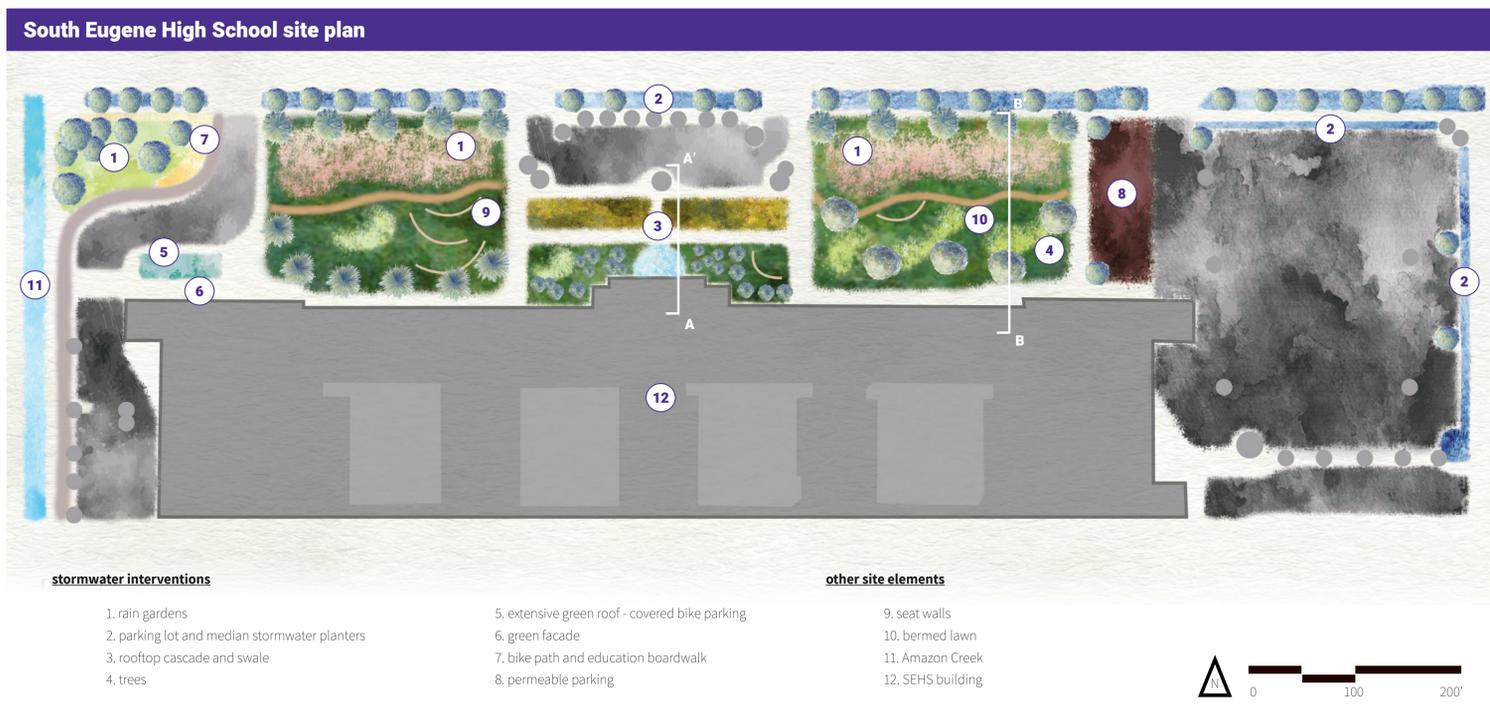


degraded

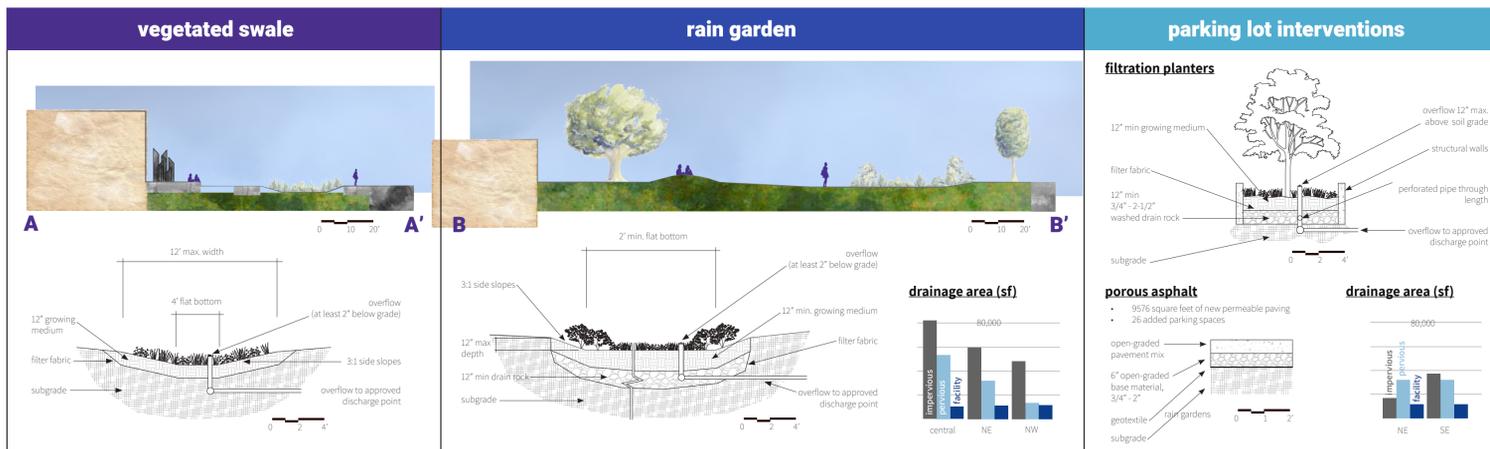
“Good Drainage, Good Vibes” demonstrates a regionally relevant green infrastructure site redesign that combines the benefits of stormwater treatment, climate mitigation, active transportation planning, and ecological education, catering to current user experience with an eye towards informing resilient urban watershed management.

Despite South Eugene High School’s proximity to Amazon Creek, a major local waterway, this connection is currently **invisible** to students and community users of the nearby bike path. The front entry to the school is flanked by large, flat expanses of lawn which become waterlogged in the wet Oregon winters and go largely **underutilized** by students. The water flowing off these lawns, parking lots, and rooftops, is piped unfiltered into the **degraded** and channelized creek, to eventually flow into the Long Tom and finally Willamette Rivers.

“Good Drainage, Good Vibes” envisions a school campus that manages stormwater on-site and makes the flow of stormwater demonstrable and legible to the community, **revealing** the invisible, **reprogramming** the underutilized, and **revitalizing** the degraded.



Who is Learning?	What can be Learned?	How is it Measured?	Where on Campus?
SEHS Students	Water Temperature	On Site Sensor	Parking lot planters and rain gardens
	Rate of Flow	On Site Sensor	Near cascade fountain or green facade
University of Oregon Students and Faculty	pH	On Site Sensor	Rain gardens
	Drainage Rate	On Site Demo	New permeable parking lot
City Designers and Maintenance Staff	Total Rainfall	On Site Demo	Near cascade fountain
	Sediment Buildup	On Site Demo	Inlets of parking lot planters
Eugene Community	Plant and Animal Diversity	Yearly Survey	Rain gardens and planters
	Plant Growth and Condition	Photo Monitoring + Social Media	Education boardwalk or rain gardens
	Ecology Information	Sign or QR Code	Education boardwalk or rain gardens
	Watershed Information	Sign or QR Code	Rain gardens and planters
	New Data!	Conducted by SEHS or UO Students	Designed by SEHS or UO Students



On-site monitoring and interpretive signage provide educational opportunities to students and the public

New paths and seating provide access and gathering spaces in the previously underutilized front lawns

New trees pay for themselves in under 25 years through stormwater management, carbon sequestration, and energy savings

On-site management of impervious surface runoff reduces monthly stormwater fees by over \$1,000

The addition of over 20,000 new ground cover plants and shrubs creates food and habitat for pollinators, birds, and amphibians

Over 90% of new plant species included on site are native to the Willamette Valley

