South Park Bridge

Timothy Lane

Puget Sound Green Infrastructure Summit 2017
Having the incentive to do it differently

1. King County adopts Green Building and Sustainable Development Ordinance in 2008. Bridge design starts in 2008 and King County pushes to comply with new ordinance.

2. Eco-charrette held with consultant – brainstorming session - identify materials and methods to minimize environmental impacts during construction. Prioritize ideas.

3. Further research ideas and then settle on elements to incorporate into design.

4. Attempt to make bridge tower LEED certified.
Bridge parts repurposed for education, bricks from historical road

Bridge parts repurposed

Bridge parts salvaged for other projects

Historical features day lighted for educational and historical preservation

Old bridge recycled – concrete, rebar, structural steel

Shoreline mitigation – intertidal shelf
Big bang for the buck – rain garden, river access, interpretive signs, historic preservation - all in a pocket park.

Plastic planks in fender piers

Buying out the boatyard to make way for green space

Pervious pavement

Balanced spans, solid concrete deck, minimized pier footprint and aesthetics!

1 of 7 interpretive signs

Big bang for the buck – rain garden, river access, interpretive signs, historic preservation - all in a pocket park.
Defending Puget Sound

Jessica Knickerbocker, P.E.
City of Tacoma
THE WHY & HOW

1. Puget Sound
2. Opportunity
3. Asarco
4. Outfall Capacity
5. Education & Outreach

Goals: Education, Park Amenity, ENVIRONMENT
Puget Sound Green Infrastructure Summit 2017
THE DETAILS

Puget Sound Green Infrastructure Summit 2017

Pretreatment
Pools
Treatment Cells
Bioswale
WHAT’S NEXT?

• Watershed Planning
• Sediment Removal
• Monitoring & Tours
Puget Sound
Green Infrastructure Summit
Mountaineers Club, Seattle / 8:30am-5:30pm / February 16, 2017

Goodwill Job Training and Education Center

Dorothy Faris, ASLA
Mithun
Approx. 80% storm capture (historical)
207% of code performance
The Mithun Way
Start with a High Bar

1. **Aim High**: Manage all site runoff to a minimum of 95% event on all projects

2. **Green over Gray**: Use vegetated facilities to manage this runoff (green roof, bioretention, trees, rain gardens)

3. **Integrated Sites**: Supplement with non-vegetated integrated site strategies (permeable paving, rainwater harvesting)

4. **Maximize Resilience**: Strive for increased capacity to future-proof against climate change, larger storms

5. **Design Drives Infrastructure**: The goals of the design and client values drive site stormwater strategies, not code or civil
Ballard Natural Drainage Systems II

Shanti Colwell, PE
Seattle Public Utilities
Survey results
Approximately 20% response

Informed block selection
• Groundwater and surface water issues
• Aware of natural springs
• Neighborhood improvements
Do Your Homework