Sullivan’s Crossing Bicycle & Pedestrian Bridge

Open House
December 5, 2017
The Skip scheme draws its logic from pragmatic constraints of constructibility and results in a bridge form embracing a single, graceful leap across Sullivan’s Gulch. The pedestrian experience is enhanced because most of the bridge structure remains below the deck level, but it is punctuated as the arches rise briefly above the deck before disappearing below again.
Note:
Print at 200% to produce 34"x22" presentation boards

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Stretch expresses the asymmetry of the site by taking advantage of the embankment on the north side of the alignment. This creates a structural configuration that reduces the loads on a suspension structure by cantilevering and anchoring the platform to meet the suspension section.

The two related and integrated structural systems create a light and airy structure above the deck and a solid anchored expression below the deck, as if to stretch the bridge’s structural fabric form the ground plane and across the alignment.
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View looking south from Lloyd Blvd

Leap

Elevation Looking East

Section

Plan

< 5% SLOPE

View looking south from Lloyd Blvd

Lloyd FUTURE TRAIL UPRR I-84 FUTURE LANES PLAZA
Leap takes advantage of the ability to anchor into the northern embankment to create an expressive truss structure that seems to spring from the ground and land lightly on the southern end of the alignment.
View looking south from Lloyd Blvd

Elevation Looking East

Plan

Section

0' - 42"

< 5% SLOPE

UPRR

LLOYD

FUTURE TRAIL

FUTURE LANES

PLAZA

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Weave creates an iconic structural expression that weaves together the deck and girders to create an integrated fluid form. The structure utilizes a center support and expresses abstractly the moment diagram of the loading condition.
Reach is iconic in its tower expression. The central tower support is highly visible and would serve as a gateway marker both entering and leaving the City of Portland.

The architectural elements are articulated as a kit of parts and the asymmetry of the site condition is expressed in the cable stayed span and the articulated back spanning members that anchor it.