

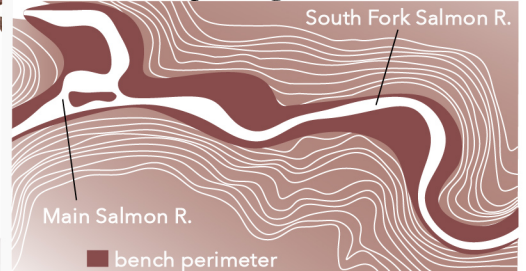
Our Confluence - bench -



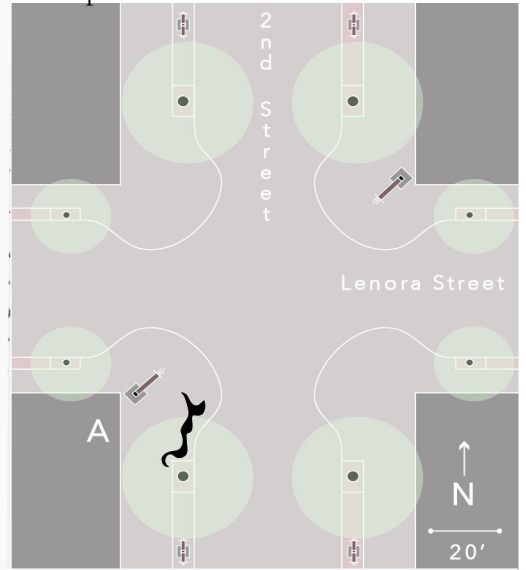
Bench- Alternative Perspective



Bench Concept Diagram



Plan- potential bench location- A



Our Confluence Design Summary

The Main Salmon and the South Fork of the Salmon are iconic local waterways. They are vibrant rivers that have fostered incredible life diversity- from a dynamic ecosystem to a rich human history. Together, these arterial waterways are the lifeblood of our region and the surrounding mountains, our backbone. *Our Confluence* honors the junction of these waterways, emphasizing both their elegance and their agency in bringing us together- man and nature.

This artwork will serve as a public bench downtown, stretching to nearly 16 feet long and seating up to 7 people. The bench seating surface is cast concrete with aggregates from the Salmon River. The concrete form is loosely derived from the river's high water line. Structurally supporting the seating are steel ribbings that emulate the topography adjacent to the river. From a distance, the bench resembles a flowing figure supported by vertebrae; however, at a closer glance, the bench evolves into a familiar landscape, as the rivers and canyon walls become apparent. The bench relates both to our natural environment and our bodies, culminating in a celebrated confluence.

Our Confluence Construction Information

The Confluence bench will be constructed from concrete and steel. The seating surface consists of fiber reinforced Ultra High-Performance Concrete (UHPC). UHPC uses extremely fine aggregates and a number of admixtures to create concrete 10 times the compressive strength of traditional concrete as well as increased tensile strength, ductility and toughness. Alkali resistant glass and acrylic fibers are integrated into the UHPC matrix providing reinforcement. This ensures no weak areas and allows complex shapes to be cast. The strength and density of UHPC also allows us to create much thinner, more elegant pieces that are at the same time more durable than their traditional concrete counterparts. We have cast table tops and benches as thin as $\frac{3}{4}$ " with no issues.

The concrete will be sealed with the latest reactive sealer technology. Reactive sealers are absorbed into the pore structure of the concrete where they chemically react with the UHPC forming a glass-like crystalline structure. Not only is this the most durable finish available, but it also gains strength with time, and if damaged can be spot repaired without stripping the piece, unlike topical sealers. This

makes it ideal for heavy outdoor use in a climate such as ours.

The vertical ribs of the Confluence bench will be plasma cut from $\frac{1}{4}$ " cold rolled steel plate. All edges will be let to ensure there are no sharp surfaces. The steel will be aged with rust colored patinas and sealed with Penetrol to ensure the patina does not transfer to peoples clothing. Penetrol forms a very thin film and, like the reactive sealer used for the concrete, can be reapplied as needed without stripping.

Portion of *Our Confluence* Bench
Construction Details

