

# Fish Passage Solutions

**Box Culvert  
Designs**



# Overcoming Fish Migration Challenges

Fish passage replacement in Washington State poses unique challenges that demand innovative and tailored solutions. Oldcastle Infrastructure understands the importance of ensuring unimpeded fish migration while meeting stringent regulatory standards set by the March 2013 federal culvert injunction for the Washington State Department of Transportation (WSDOT). We are proud to have partnered with WSDOT to have completed more than 100 fish passage culvert projects to date. These projects have helped to improve access to hundreds of miles of blocked salmon and steelhead habitat.

Our box culvert designs are engineered with a focus on customization to meet specific site requirements such as size, shape, and flow characteristics. This versatility allows for seamless integration into diverse environments, ensuring optimal fish migration while preserving ecological balance. With the ability to provide comprehensive support from initial design and engineering services through timely delivery as a single source of supply, Oldcastle Infrastructure is a trusted partner and a premier supplier for fish passage solutions.



Visit our website to continue to  
explore our Fish Passage solutions.

# Our Products

Our box culvert solutions are available in multiple styles and are manufactured with weld pockets at the joints for in-field weld connections. Options include head walls, wing walls and access openings for maintenance and inspection.



## Box Culvert

The seamless nature of monolithic box culverts means there are fewer pieces to install and less joints and connections to maintain.

- Monolithic design provides a smooth path, minimizing turbulence
- Quicker and easier to install than cast-in-place concrete
- Easier maintenance compared to structures with multiple components



## Split Box Culverts

Split box culverts, also known as a cantilever wall design or a clam shell, are lighter and easier to maneuver than a monolithic box.

- Two design types available: Type 1, a U-shaped bottom with a slab top; Type 2, U-shaped bottom and top sections.
- Easier transport and installation
- Ideal for remote locations



## Three-sided Bridges

Three-sided bridges are the optimal choice for engineered solutions that are environmentally friendly. They create short-span bridges over waterway with little impact on the existing environments.

- Section designs can be skewed 0° to 45° to match angled intersections
- Minimal disturbance to the existing landscape
- Optional precast footings



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