



2024

BUILD Northwest Awards

C O M P E T I T I O N



The 2024 HUB Build Northwest Awards Entry Form - Contractors



PROJECT TYPE

CHECK ONE (See **Project Category** section in Entry Packet for detailed descriptions of each project type.)

- | | | |
|---|--|--|
| <input type="checkbox"/> Building (under \$10 million) | <input type="checkbox"/> Heavy & Utilities | <input type="checkbox"/> Small Projects |
| <input type="checkbox"/> Building (\$10 million and over) | <input type="checkbox"/> Sub-Contractor | <input checked="" type="checkbox"/> Special Projects |
| <input type="checkbox"/> Highway & Transportation | <input type="checkbox"/> Out of Area | |

CHECK ONE

- New Construction Renovation

CONTRACTOR INFORMATION

Must be an Inland Northwest AGC member in good standing

Company Name (list all if a joint venture): WM Winkler Company

Entry Submitted By: Scott Bernhard Title: Special Projects Manager

Email: sbernhard@wmwinkler.com

PROJECT TEAM INFORMATION

Owner: Silverwood

General Contractor: WM Winkler Company

Lead Architect: Architects West Lead Engineer: _____

Major Sub-Contractors: Nucor/Harris Rebar, Interstate Concrete

PROJECT INFORMATION

Project Name: Silverwood Pipeline Blast

Location: Athol Idaho

Contract Amount: \$1,848,500.00

Date Project Started: September 2023

Completion Date: April 2024

What was the percentage of volume of work on this project performed with your own field personnel? 85 %

Were there any fatalities on this project? Yes No

Attach additional sheets if necessary

Send this form and your completed entry package to:

Inland Northwest AGC
Build Northwest Awards
4935 E. Trent Ave.
Spokane, WA 99212

All entries must be received no later than 4:00 pm on November 1, 2024 at the AGC office. There will be no exceptions or extensions.



Concrete Contractor

SINCE 1919

WA REG. NO. WMWINC*935LA ~ ID REG. NO. PWC-C-C10110-UNLIMITED1-2-4 ~ MT REG. NO. 53384
5516 N. Starr Rd. ~ PO Box 430 ~ Newman Lake, WA 99025 ~ Ph: 509-489-6100 Fx: 509-484-0646



SUMMARY

2024 Build Northwest Awards

Project: Silverwood Pipeline Blast – Water Rollercoaster

Owner: Silverwood Theme Park

Designer: Architects West

Prime Contractor: WM Winkler Company

Key Subs and Suppliers: Harris Rebar, Interstate Concrete

At 925 feet in length the Silverwood water rollercoaster is the only dueling water coaster on the west coast and the longest in the United States. This is just one of several new slides added to Boulder Beach at the water park near Rathdrum Idaho. There is also a new splash pad and different slides. WM Winkler was excited to be part of this expansion of the water park.

WM Winkler Companies portion of the project was to get the project out of the ground with installation of footings and columns for the new slide. WM Winkler also assisted with the erection of the waterslide itself, assisting Silverwood in this task. The footings and columns were laid out in a random pattern that matched the curves of the slide itself.

Schedule failure was not an option. The waterpark had committed to opening the new attraction in the spring of 2024. Construction did not start until late 2023, meaning much of the work had to happen over the winter of 2023-2024. That posed some construction challenges that were overcome by the Winkler team.

The slide is part of a larger expansion vision for Silverwood. WM Winkler Co is applying for an award in the 'Special Projects' category. A lot of factors make this project worthy of consideration including but not limited to the uniqueness of building a water roller coaster, schedule criticality and the fact that there were no contractor-initiated change orders on the project. The project was completed with an excellent working relationship with the owner.

By all accounts the project was a success. Thank you for considering this WM Winkler application.



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NARRATIVE

AGC Build Northwest Submission

Project: Silverwood Pipeline Blast – Water Rollercoaster

Prime Contractor: WM Winkler Company

PROJECT OVERVIEW

Foundation work for this project involved numerous complexities and unique challenges. The Silverwood Pipeline Blast – Water Rollercoaster is an innovative and exciting addition to the amusement park, setting new standards in design and construction.

A. DIFFICULTY IN CONSTRUCTION

This project presented several challenges due to the design, location, and materials used:

- Footing bases at different elevations required a specific installation sequence, complicating the construction process.
- The large number of footings resulted in site congestion and restricted access for cranes and forklifts.
- Winter weather conditions necessitated the implementation of cold weather concrete practices to ensure the integrity of the foundation.
- The semi-remote location limited access to supply houses, making the timely acquisition of materials a significant challenge.

B. UNUSUAL CONSTRUCTION TECHNIQUES

Several innovative construction techniques were employed:

- Round column forms were prefabricated offsite, reducing the fabrication time on site and speeding up the time required to form and pour the columns.
- This project features the only dueling water coaster on the West Coast and the longest dueling water coaster in the United States.
- Trimble surveying equipment was utilized to upload the model developed from CAD design files for field use, significantly reducing the need for on-site surveyor time and cutting excessive layout costs.

- Anchor bolts for the coaster support legs required multiple bolt patterns oriented at various elevations and with varied spacing and bolt pattern "clocking", which were critical for the prefabricated coaster supports.
- Water-tight water holding tank penetrations utilized specialty flanged through-wall fittings to ensure durability and functionality.

C. FINAL APPEARANCE AND QUALITY

The visual quality of the concrete work is paramount as most of it is visible to the public. Every effort was made to ensure that the finished project met the highest standards of appearance and quality. There were no major concrete quality issues to address. All of the concrete test compressive test breaks were within specification requirements. Winkler used HDO plywood which is a higher cost and higher quality form facing to give all finished form surfaces a smooth high end look. The overall finished product looked good.

D. TIMELINESS OF COMPLETION

Despite the numerous challenges, the project was completed on schedule, showcasing the team's dedication and effective project management. The project had a fixed end date which is opening of the water park to the public. Schedule was continuously monitored to ensure the completion date was on track.

E. COMPANY'S SAFETY PERFORMANCE

WM Winkler Company maintained an exemplary safety record throughout the project, adhering to all safety protocols and ensuring a safe working environment for all team members.

In conclusion, the Silverwood Pipeline Blast – Water Rollercoaster project not only demonstrates advanced construction techniques and innovative solutions but also reflects the commitment to excellence and safety by WM Winkler Company. This submission highlights the exceptional efforts and achievements that make this project worthy of recognition in the Build Northwest Awards.

SILVERWOOD PIPELINE BLAST WATER ROLLER-COASTER PHOTOS











THE ALMOST FINISHED PRODUCT