

#### May 5, 2021, Spring vol. 44

#### ROCK ISLAND DAM SPILLWAY PIER ONE REPAIRS

Work is wrapping up for the season at the Rock Island Spillway project. Electrical infrastructure was installed and energized in mid-March, allowing IMCO to complete demolition of the expansion joints. This season, crews were able to make the miscellaneous concrete repairs along with drilling, grouting, installing, and locking off the posttensioned anchors at Pier 1. The subcontractor completed the epoxy injection for the crack repair scope just in time as the PUD needed spillway access for their fish spill habitat conservation Program. The remaining work left to complete this season is the final saw cutting at the Pier 14 expansion joint, cleanup saw cutting at Piers zero and three expansion joints, and installation of all expansion joint materials.

Over the past decade IMCO intentionally pursued work in the hydroelectric sector because work is highly technical, performed in active operating environments, includes fast-paced or complex scheduling, and draws sophisticated clients who find value in what IMCO offers and excels at delivering.

Over the past five years, IMCO has worked for several pacific northwest hydro clients including Chelan County PUD, Grant County PUD, Idaho Power, Snohomish County PUD, the Army Corps of Engineers, and Northwestern Energy. A strong pipeline confirms more hydroelectric work is in the near future. The team is working to prepare and build strategic partnerships to pursue these projects successfully.



### **MOUNTAINS TO SOUND**

# New 100 Mile Trail for Community to Enjoy this Summer!

The completion of the Mountains to Sound project in March has provided the City of Bellevue with a new bike and pedestrian path, closing a gap in the existing 100-mile-long trail from Seattle to Ellensburg. With the arrival of Spring weather, the trail is already busy!

This project faced many challenging obstacles, including tight closure windows and around the clock shifts within a multimodal congested high-volume interstate. One of the most challenging scopes was when IMCO crews installed a precast box culvert, working around the clock to meet a tight 55-hour closure window, completing it in time to open the road several hours ahead of schedule.

In the fall, IMCO worked with the city to implement alternate traffic control closures that would allow roadway paving to be placed during two full weekend closures rather than spread out over multiple night shifts. These weekend closures allowed the paving to be completed before winter and within contractual paving deadlines. This alternative approach upheld IMCO's commitment to delivering projects with client needs and goals in the forefront.



### MADISON CIVIL TURBINE GENERATORS

"The word 'honored' is an understatement, to lead this crew through such a challenging and difficult project. The crew should be very proud of what they've accomplished through the worst conditions you could imagine; and they did so with such great attitudes!

We took a few weeks off and waited for better weather and are now back on site to finish the entryway modifications outside, in preparation for the installation of the new generators and turbines." - IMCO Project Superintendent

Photo above:

*IMCO's crew worked through the harsh winter* to reach stage one concrete completion at the end of February.

### SEATTLE CITY LIGHT SPILLWAY NO.1

### **TDG MODIFICATIONS**

On April 12<sup>th</sup>, IMCO was awarded this historical modification project located at the Boundary Dam near Metaline Falls, Washington, north of Spokane. The project includes designing the removal of modifications made in 2016, and infill and repair of the reinforced concrete spillway. After major safety considerations surrounding the modifications, it was decided that the ramps and roughness elements should be removed, and the post-tensioned anchors decommissioned to return the spillway surface to as near its original condition as possible.

The spillways on this scenic dam are cut into the rock and oriented in such a way that full capacity water discharges from both sides and meets midair to dissipate the falling-water energy that might otherwise erode canyon walls. These spillways have a combined capacity of 108,000 cubic feet per second.

The dam is the largest underground power generation dam in the nation and provides nearly 50% of the power generated by Seattle City Light. The team will complete the project within a 10week time frame.

'The Postman', directed by and starring Kevin Costner, was filmed in the front of the dam. The production brought in over \$11 million in revenue to the local area.



*Pictured above left, current Boundary Dam. Above right, dam construction in 1965.* 

### SKAGIT RIVER RAW WATER PIPELINE AND CLEARWELL

The Skagit River Raw Water project is nearing completion. The new 2.3-million-gallon clearwell is newly coated on the interior and our subcontractor is finishing coating of the exterior, which will be complete mid-May. The baffle subcontractor - a baffle is a device used to restrain the flow of fluid, gas, or loose material - is reinstalling two of the three baffles inside the tank that broke off due to material failure. The nice weather has allowed crews to work on the site restoration sooner than anticipated. All components of this project have been successfully started, tested, and calibrated. IMCO's team is proud to have delivered this local pipeline project which carries water to the City of Anacortes Water Treatment Facility, which IMCO expanded in 2013.

### EAGLE WWTP LAGOON EXPANSION

The Eagle Idaho team is already halfway through this tight 11-month schedule, expanding the wastewater lagoon treatment system. This project includes construction of two new aerated lagoon cells and two new settling lagoon cells.

Currently, the team is working with a lining subcontractor to complete a major milestone which is to line all four lagoons with a HDPE liner. This lining scope is the glue that holds the project together and generates a great leap of progress. After the lining is complete, the IMCO team will fill the large lagoons with effluent liquid for testing. This testing is a vital scope that requires close collaboration with the lining subcontractor. Following testing, crews will install aeration equipment (diffusers) which is used to treat the effluent before discharge to Boise. IMCO's crews are also installing HDPE piping, ductile iron piping, valves, and pouring concrete structures.



#### ORCHARD COMBAT RAIL ADDITION FULL STEAM AHEAD

IMCO crews recently completed an important milestone when they set the 17-foot precast bridge over a 100-year-old flood plain. This bridge will be equipped with rails to carry military equipment and supplies through the site. This is a celebrated milestone and a critical component to this project.

A few major subcontractors have mobilized to the site. The rail subcontractor has started installing the track, which is a large scope of work lasting through September. The electrical sub has started the vast amount of underground electrical work for the 54 light poles. The mobile concrete batch plant is also set-up on site and ready to begin processing and making concrete for the large slabs. The slabs will be used as loading and unloading docks. IMCO crews are installing storm drainage pipe and over 100 manholes, and trucking imported aggregate to the site while preparing to start pouring concrete this month.

The IMCO team is embracing efficiency, safety, and quality of work. Safety culture on site is excellent due to clear and honest work observations from craft workers. This is an exciting project and one for IMCO's team to be proud of!

## **MUKILTEO FERRY TERMINAL**

IMCO's team celebrated the milestone of opening the beautiful terminal building in December and successfully completed an important and demanding fourth quarter. The crew completed a major milestone paving the new roadway which links the terminal exit and entrance to the highway. In some places the new roadway is 14 feet higher than the old holding lanes. Crews also tied in the waterline and storm line utilities under SR525 during night time closures.

The team overcame tight scheduling and phasing to complete the paving work and faced the added challenge of ferry traffic driving through the site. The Mukilteo-Clinton route is a major transportation corridor, connecting Whidbey Island to the Seattle-Everett area. This route handled over 2 million vehicles and nearly 4 million passengers annually before the COVID-19 pandemic restricted travel.

The next phase of work includes tearing out the temporary bypass road and finishing the concrete-faced retaining wall. The completion of these scopes and electrical, guardrails, and landscaping will bring the project to a close on May 14th.

#### **ORCHARD PROJECT BY THE NUMBERS**



IMPORTED AGGREGATE MATERIALS 1.2 MILLION TONS



67

CONCRETE TO BE POURED 26,000 CUBIC YARDS



SIZE OF THE SITE 60 ACRES

> DIRT TO BE MOVED 50,000 CUBIC YARDS



### DARRINGTON WOOD INNOVATION CENTER NEGOTIATIONS

IMCO's team is negotiating a preconstruction services contract for a new manufacturing facility in Darrington, Washington, in Snohomish County. This is expected to be a significant project for IMCO, who has been chosen to build the facility after preconstruction concludes.

The scope includes civil, structural, mechanical, and electrical work to build a cross laminated timber manufacturing facility. This is an opportunity to work for an innovative new client on a project that will provide sustainable construction materials and bring 150 timber industry jobs to Snohomish County! IMCO GENERAL CONSTRUCTION | 5

### AGC/WSDOT Contract Admin Award

## **CONGRATULATIONS**

#### **KELLER FERRY TERMINAL PROJECT TEAM!**

In March 2021 the Keller Ferry Terminal project was awarded the 2020 AGC/WSDOT Partnership for Excellence in Contract Administration award. This award is given to projects that excel in providing a partnered atmosphere with empowered project team members who are able to recognize and overcome obstacles, initiate effective public involvement, maintain effective and open communication between all stakeholders, and streamline project administration where appropriate.

The key elements on which the projects were judged included customer-focused administration, innovative problem solving, overcoming extraordinary challenges, effective contract administration, timely completion of the project, and safety.

This project provided upgrades and improvements to the existing terminals at the Washington State Keller Ferry Terminal. The contract included demolition and the removal of the existing ferry terminal, new pontoons, approach spans, decking, structural framing, railing, anchors, mooring components, coating systems, and the relocation of electrical and mechanical systems. It was complex due to the highly demanding scheduling requirements and a complex approach span design that had never been built before.

Congratulations to the Keller Ferry Terminal project team on winning this award!