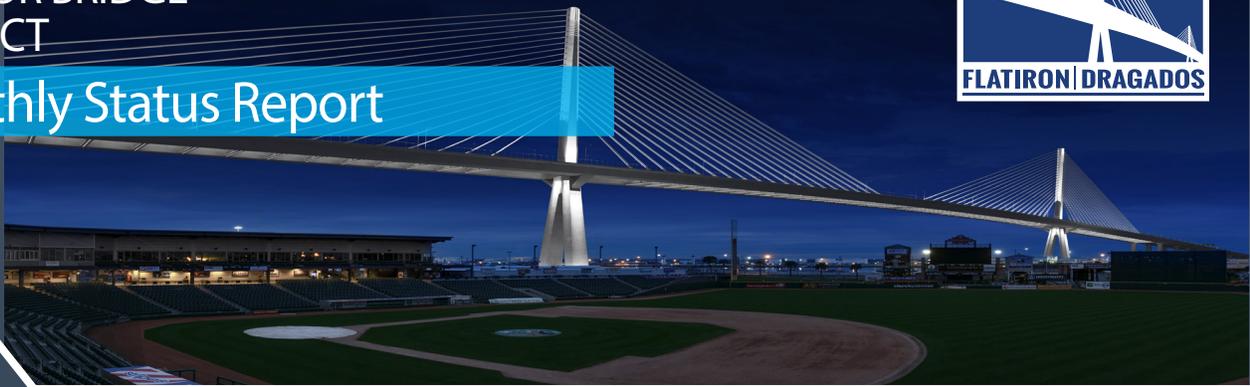


# US 181 HARBOR BRIDGE PROJECT

## Monthly Status Report



Toll Free: 1.877.227.4144 • Public Information: [publicinformation@harborbridgeproject.com](mailto:publicinformation@harborbridgeproject.com)

February 2021

### ***Longest Span Erection Successfully Achieved on the Harbor Bridge Project (HBP)***

In February, the HBP Gantry crew achieved a major milestone by erecting the longest Approach Span on the Project and North America! Most Approach Spans on the Project are 180 feet long however, the launching gantry crane is currently building a stretch of three back-to-back spans that are 207 feet long. Although the launching gantry can accommodate spans from 115 to 207 feet long, a 207-foot span is too heavy for the gantry to lift independently. To build a span this large, the first six (out of 20) segments need to support their own weight independently from the gantry as a cantilever structure that projects from the column. Once the gantry launches to a 207-foot span, it fastens these first six segments one at a time to the pier using internal steel cables that anchor them to the previously constructed span. From the ground view, it appears the first six segments are just hanging or extended straight out with no support. Project engineers and gantry operators review detailed plans to analyze and mitigate every possible hazard before each launch. The HBP engineer who oversees this operation was mindful and cautious as the gantry launched to 207 feet to set new records. On top of the Approach deck, he points out how the launching gantry was stretched to its maximum configuration, how the nearest support foot is more than 200 feet away, and everything in between is configured in a manner that remarkably balances the gantry's three million pounds of steel. "It takes tremendous precision and faith in colleagues to safely execute a procedure that reaches a machine's maximum capability."

### ***Operations and Maintenance (O&M) Dedication to Safety Prevails During Severe Weather***

Over a five-day period, O&M crew members worked 24-hour shifts and remained vigilant in assisting the DPS and CCPD with major road closures throughout the HBP. The team continually monitored and treated IH 37, SH 286, US 181, and other HBP-impacted roadways and bridges while intermittently resting in their vehicles parked inside a warehouse. In all, over 1,200 gallons of brine and 12,000 pounds of Meltdown 20 salt were dispensed Project-wide to maintain safe roadways. After a few day's rest, the bleary-eyed were back in action to clean streets and remove the granular effects.



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### Calendar Events

March 18:  
Seashore Charter  
School "Building  
Bridges" Virtual Event

