

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



December 2021

### Harbor Bridge Project (HBP) Highlights and Milestones in 2021

**Environment:** 1) Lead efforts for the HBP to attain the highest Platinum-level award in the INVEST, Federal Highway Administration (FHWA) sustainability program. 2) Coordinated efforts to reuse select embankment dirt and asphalt millings Project-wide. 3) Provided environmental awareness training for FDLLC subcontractors and personnel that reached the 5,000 person mark. 4) Established controls to protect nesting birds from construction activities.

**Pre Cast Yard:** In March, crews finalized casting all 1,869 North and South Approach segments. In August, crews resumed casting Main Span segments and Delta Frames. Mold 6 cast 51 South Approach segments, Mold 7 cast 52 North Approach segments, Mold 8 cast 16 Delta Frame segments, and all Expansion Joint segments were completed. A total of 349 segments were transported to the South Approach in 2021, with 1,350 segment transports to date.

**South Approach:** Superstructure teams erected nine spans utilizing the launching gantry crane (LGC), and three spans using a falsework erection method. LGC operators spent considerable time reconfiguring the massive crane for side-shifting and back-launching into position for each span. By year-end, Substructure crews completed all 12 cofferdams, 298 of 314 column lifts (~14' each), 52 of 57 bent pier caps, and all 1,212 foundation pre cast piles were driven into place. In addition, the large abutment wall is complete, which will be the tie-in point for SH 286 (Crosstown Expressway) to connect to the South Approach.

**Cable Stayed Bridge (CSB):** In September, Arup-CFC completed the review and recertification of the New Harbor Bridge design, and crews mobilized to the North and South Pylon to resume CSB construction. Crews completed Lift 11 on both towers, and they worked day and night on Lift 12 to construct the tower table(s) and to commence the reinforcing for Upper Tower Lift 1.


**Utilities:** Crews worked on City of Corpus Christi water and wastewater utility packages throughout 2021. Continuous inspections were performed year-round by the City of Corpus Christi Inspector, TxDOT, and FDLLC Quality Assurance(QA) / Quality Control(QC). Utility teams provided the electrical services and grounded High Mast Lights to bring into service throughout the Project. Third-party utility relocations are 93% complete. City of Corpus Christi utility relocations are 82% complete.

**Drainage:** Flatiron/Dragados, LLC. had multiple crews dedicated to drainage installation and reached 82% completion for the Project.

**Roadworks:** Roadworks had a very productive 2021. 1) Completed a traffic switch on IH 37 westbound main lanes and frontage road from Port Avenue. 2) Continued work at Bridge 11 on Leopard Street. 3) Completed and opened Detour D for traffic heading northbound on SH 286 towards US 181 and the uptown area. 4) Completed and opened the Northwest Loop Ramp for traffic connecting to southbound SH 286 from Martin Luther King Drive and US 181. 5) Completed and opened to the new Direct Connector for traffic heading northbound on SH 286 to westbound IH 37. 6) Completed a ramp reversal from eastbound IH 37 to southbound SH 286 in preparation for opening a new Direct Connector to southbound SH 286 in early 2022. 7) Demolition of three previous Direct Connectors occurred around the South Interchange to make way for new freeway and overpass construction. 8) The embankment roadway leading to the South Approach abutment wall is 87% complete. 9) Several traffic switches occurred along US 181 at North Beach, and half of the Burleson Bridge was demolished.

#### Operations and Maintenance performed the following tasks in 2021:

- Debris Removal – 769 miles
- Silt Fence Repair – 3360 feet
- Safety Fence Repair – 900 feet
- Litter Removal – 313 acres
- Weed Prevention – 10 hours
- Sign Maintenance – 274 each
- Inlet Cleaning – 276 each
- Pothole Repair – 314 each
- Sweeping – 202 miles
- Mowing – 13 acres
- Drain Inlet Covers – 6 each
- Snow and Ice Removal – 135 hours

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