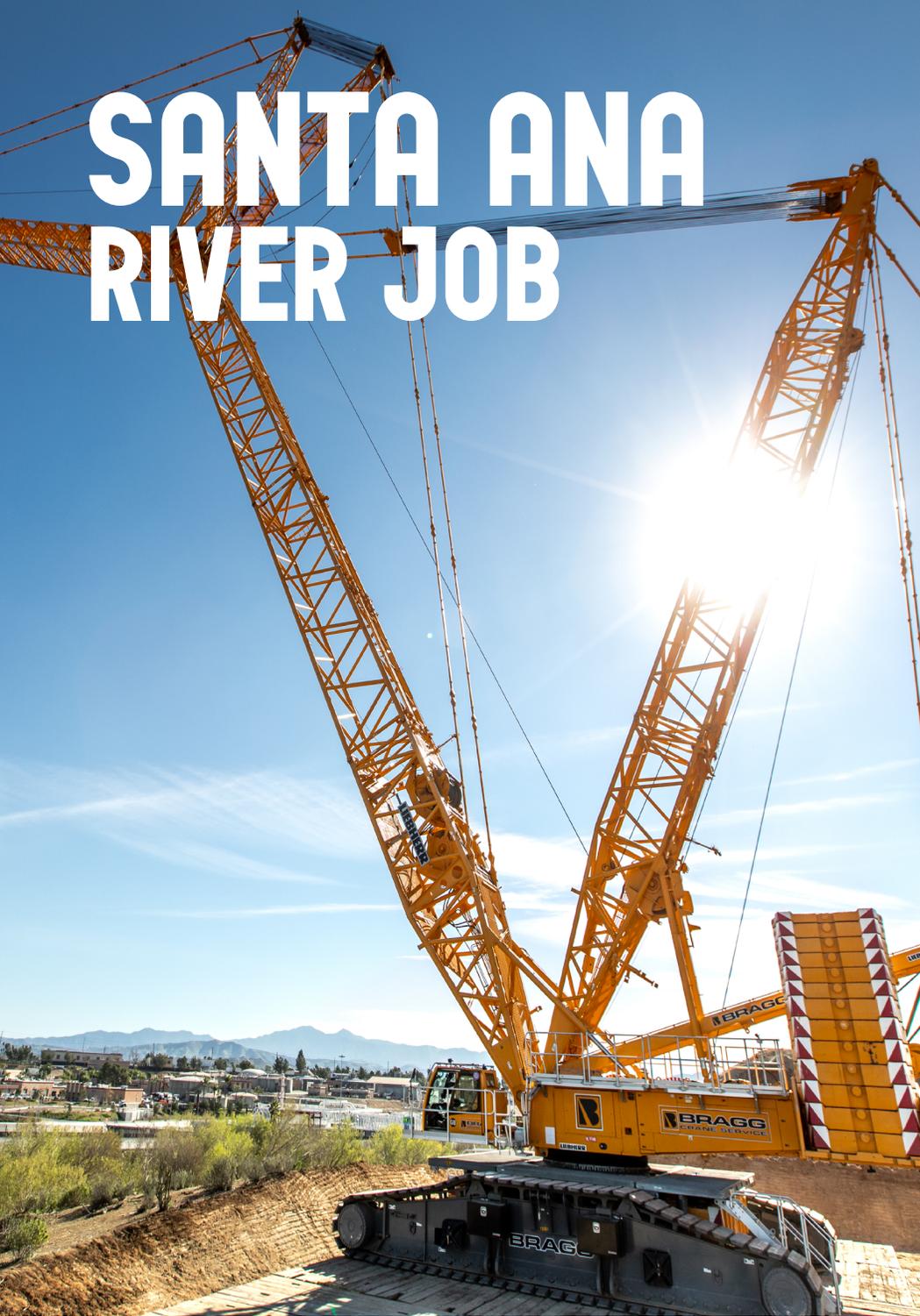




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**BRAGG COMPANIES**  
**NEWSLETTER ////////////////**

**SUMMER 2022**

# SANTA ANA RIVER JOB



In the fall of 2021, Bragg was contracted by SoCalGas and ARB to assist in the installation of a new pipe span under the Santa Ana River in Riverside. This was a unique job that required Bragg's Engineering team to devise a plan for removing the existing pipe, maneuvering the new pipe around the directional drilling equipment, and having minimal disruptions to the surrounding wildlife and environment. To start, a 500-ton crane and a 550-ton crane suspended the new pipe several feet in the air while the directional drill pulled the pipe under the riverbed. Then came the more precarious part. This original pipe was installed in 1950 and few details of its construction were available. Due to concerns about lead paint on the pipe, it had to be removed using as few cuts as possible to limit potential lead exposure to the crew and the surrounding environment. This was completed with ease and the limited cuts required. With so many variables to account for, Bragg's Crane Service and Engineering teams and our Ironworkers worked hard to execute this job with precision and efficiency.

# POWERHOUSE CRANE MODERNIZATION



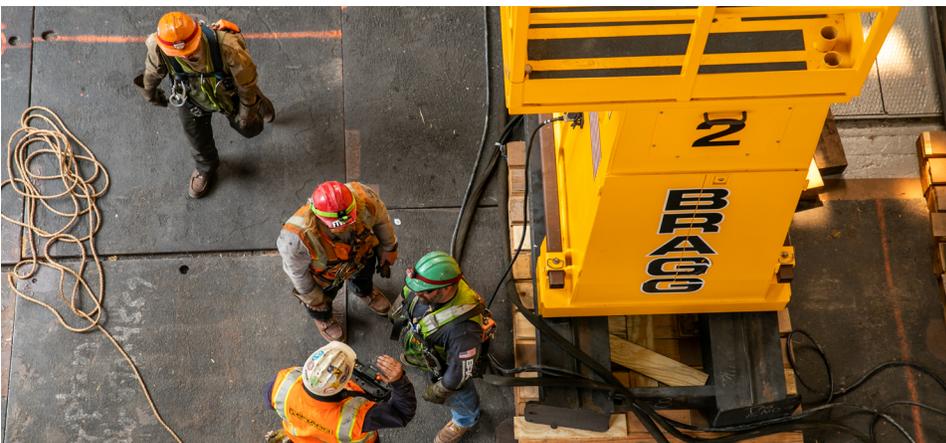
The small town of Burney in Northern California, a village nestled into the towering redwoods, is well known for its almost century old Hydro Electric facility which provides power all over Northern and Central California.

Bragg Companies was contracted for a uniquely challenging job: modernizing two 75-ton bridge cranes inside the functioning facility. These cranes needed to be retrofitted including wholesale replacement of catwalks, both mechanical and electrical as well as removing and replacing the trolleys.

The space inside the facility was constricted due to three fully operational turbines. The trolleys were 53 feet up in the air with limited headroom above, adding to the complication. The crew had a 30 X 40 ft workspace within the facility and utilized space outside for staging. The project required 300 hours of engineering time and 185 drawings to get to the final custom designs for how to execute the project, which blended old and new techniques as well as some existing and custom-built equipment solutions.

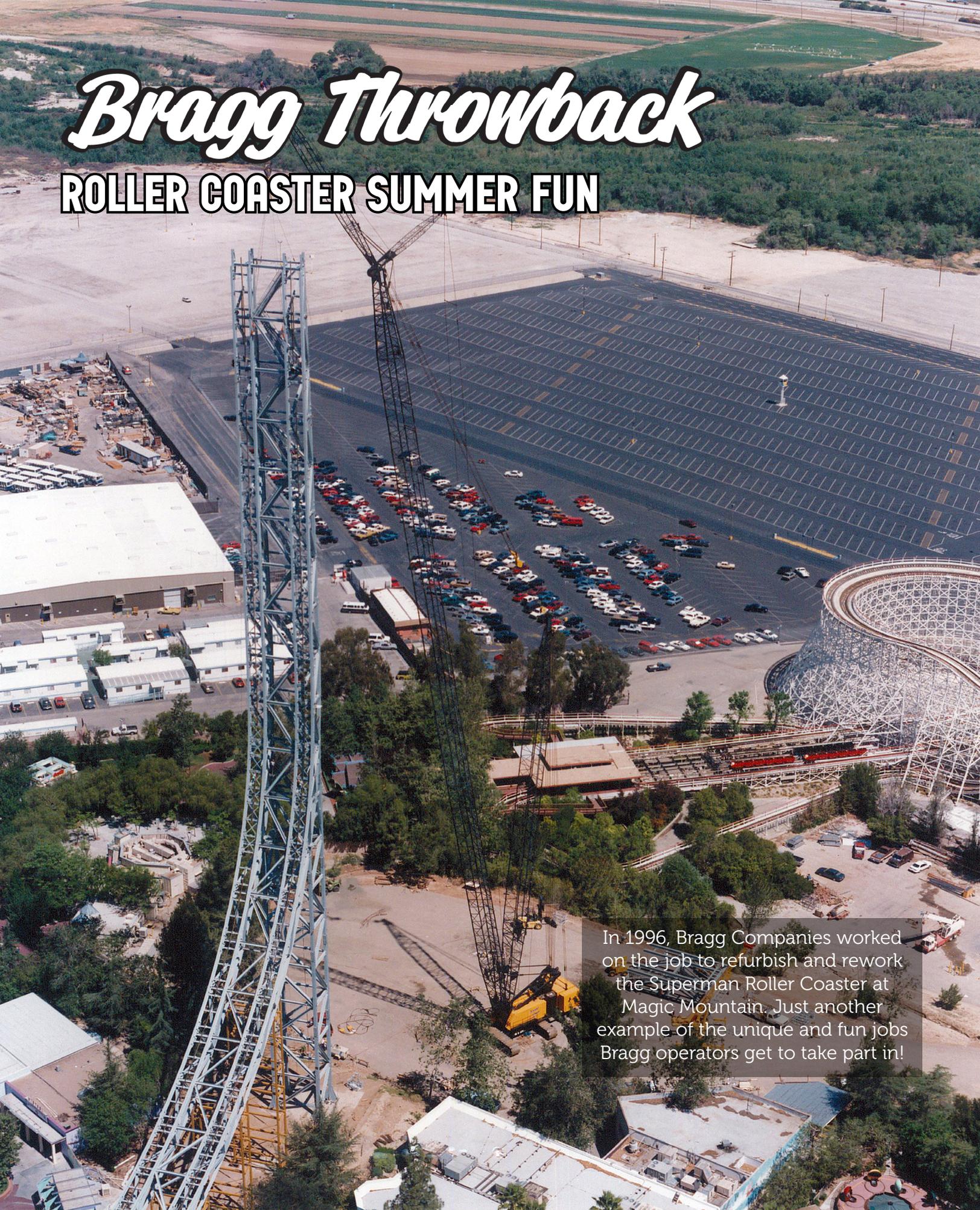
A specially built gantry extension system was created to lift the trolleys off of their existing track and lower 25 feet. From there, the team attached a chain hoist, lowered to the floor and removed from the building using Bragg's 60/80 hoist truck. The team repeated this system three times, as well as in reverse to put in the new trolley systems. This load transfer required precise calculations, clear communication within the team and a focus on detail to ensure a safe and smooth transfer of the trolleys.

The job was completed on time to the day, with zero incidents and under budget!



# *Bragg Throwback*

## ROLLER COASTER SUMMER FUN



In 1996, Bragg Companies worked on the job to refurbish and rework the Superman Roller Coaster at Magic Mountain. Just another example of the unique and fun jobs Bragg operators get to take part in!

# BRAGGING ABOUT OUR COMMUNITY



Benefiting



*The Blood Drive, pictured above, was a great day of engagement and connection for our employees, enjoying a delicious lunch from The Habit while also helping those in need at City of Hope.*

This Spring, Bragg Companies hosted two of our favorite events to support our community: Our Annual Blood Drive as well as our Annual Golf Tournament.

The 13th Annual Blood Drive in support of City of Hope hospital was held on April 7th at our Long Beach headquarters. Held each year in memory of our former president, George Bragg, this year's drive collected 31 pints, which City of Hope estimates will help them save 97 lives! Employees who attended received lunch from The Habit Burger and were able to interact with the Health Fair of local wellness vendors.

Next, on May 13, Bragg's 9th Annual Charity Golf Tournament was held at Skylinks Golf Course in Long Beach. The weather came through, giving warm temperatures and clear skies for our 167 Golfers. In the end, the tournament raised a record high of donations for our charity partners: Ronald McDonald House of Long Beach, Food Finders and The Guidance Center.



*This year's Charity Golf Tournament was a great day of golf. Thank you to our golfers, sponsors and EMG Team for making it another year of great golf.*

# BRAGG COMPANIES WELCOMES SPECTRA ELECTRICAL & INSTRUMENTATION SERVICES

Bragg Companies and Spectra each have a rich history of servicing similar industries in their own specialties. By combining these specialties, we will be able to better serve our customers in the power, petrochemical and refinery markets.



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