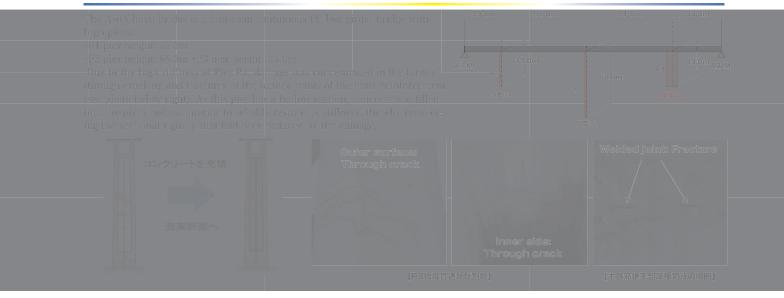
Temperature Stress Management During Concrete Placement

Construction Management for Seismic Reinforcement Work on Concrete Bridge Piers Damaged by the Kumamoto Earthquake



In 2016, the Aso Choyo Bridge sustained significant damage due to the Kumamoto Earthquake. At Josei, to prevent further damage to the earthquake-affected bridge piers during seismic reinforcement work and to evaluate safety during construction in the event of aftershocks, we conducted prior verification through analysis and formulated a management plan. On-site measurement and management were implemented using wireless fiber optic sensors.

P3 Pier Damage Status and Seismic Reinforcement Measures



Effects of Temperature Stress During Concrete Placement (Evaluation of Effects Due to Hydration Heat Reactions via Temperature Analysis)



Implementation of Monitoring Management During Construction Using Wireless Fiber Optic Sensors



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