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ZARATE-BRAZO LARGO BRIDGES ACROSS RIVER PARANA / ARGENTINA

TECHINT, BUENOS AIRES Ing. Eduardo Baglietto LEONHARDT UND ANDRÄ, STUTTGART Dipl.-Ing. Reiner Saul

MAIN CHARACTERISTICS

- TWO WITH EXCEPT OF THE FOUNDATIONS IDENTICAL, CABLE-STAYED BRIDGES WITH MAIN SPANS OF 3300' FOR FOUR LANE HIGHWAY AND 10' CENTRICALLY PLACED RAILWAY
- BEAM BUILT FROM STEEL TOWERS FROM CONCRETE
- SHOP-FABRICATED PARALLEL WIRE CABLES WITH HAIR ANCHORAGES, PROTECTED AGAINST CORROSION BY PE-DOCTS AND CEMENT GROUTING
- FOUNDATION WITH LARGE DIAMETER BORE-PILES IN DEPTH UP TO 70M
- TRANSFER OF BEARING FORCES TO BOTH TOWERS BY MEANS OF HYDRAULIC DAMPERS
- FREE CANTILEVERING, ERECTION SYMMETRICALLY FROM THE TOWERS OUTWARDS TO ANCHORAGE PIERS AND BRIDGE CENTER
- CABLE ERECTION WITHOUT CATTWALKS BUT WITH AUXILIARY CABLEWAYS
- EXTENSIVE MODEL TESTING, AMONG OTHERS STATIC AND DYNAMIC TESTS ON A 1/25th-SCALE MODEL OF THE ENTIRE BRIDGE (1:33' IN SCALE)

