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The combination of reinforced concrete and precast concrete is commonly used in civil engineering. The use of precast concrete is often preferred over cast-in-place concrete for its lower cost and ease of transport. Its superior compressive strength ensures the usage of precast concrete in constructions requiring high compressive strength, such as columns. However, the ductility, tensile strength and other compressive strength properties of precast concrete can be notably lower than those of cast-in-place concrete. Plaxis already includes a specific module, Cement Concrete with a bending strength of 82 MPa, but for special occasions, more significant numbers are necessary to simulate concrete-reinforced precast concrete. Therefore, in this study, a new modeling tool was introduced to determine the desired bending strength for precast concrete according to the target engineering standards. A construction of a Reinforced Concrete Precast Column under the American code is used as an example. The new development provides the possibility to enter non-standard data by providing the soil bearing capacity, the reinforcement concrete compressive strength, the reinforcement concrete ductility, the reinforcement concrete torsional strength and the reinforcement concrete compressive strength reduction coefficient. Subsequently, under the data proposed, Plaxis was used to perform a static analysis. According to this, the correct design and selection of the prefabricated concrete components are important and thus, optimization or assembly of the precast components must be considered during the design phase.

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Pole-concrete drift cable (PCDC) and piles are basic forms of anchorage used in the construction of foundations of long-span bridges. The influence of sedimentation on PCDC structural performance and piles anchorage is of interest for structural engineers. Hence, the present study aims to investigate the behavior of these devices embedded in sandy soils under the action of water. The combined effect of natural loose sand layer in contact with the water level and sedimentation is also considered. The finite element method (FEM) was applied to the analysis of the effects of sedimentation on the behavior of PCDC and piles. Results show that a 75% increase in resistance was observed with the action of water, while the resistance of piles did not increase even if the pile length was increased by half. For the PCDC case, the resistance increased by 75% at the water level as compared to the dry level. For the case of the piles, the resistance did not increase even if they were twice as long as the initial length. Regarding the sedimentation, the resistance increase of both devices was more significant in the case of a long sediment layer. This study is a step forward to the understanding of interaction between sedimentation and the basic structures in the construction of piles and PCDC. In addition, the study showed that the present numerical model could be a very useful tool for the evaluation of the behavior of each of the systems, whether during construction or in the presence of sedimentation. 5ec8ef588b

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