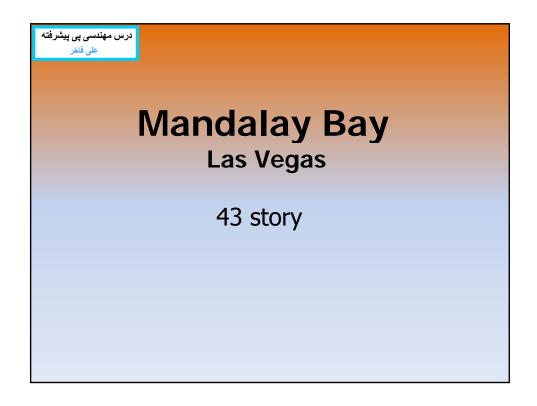


ساختمان مورد نظر شامل دو برج است. هر یک از برجهای دوقلو، دارای پلان مثلثی به عرض 50 تا 54 متر هستند. برج اداری که بزرگتر است، 52 طبقه و بزرگتر است، 52 طبقه و کوچکتر که هتل است، دارای ارتفاع 305 متر است.









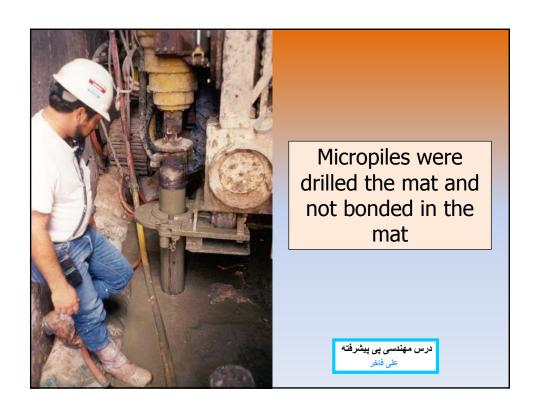


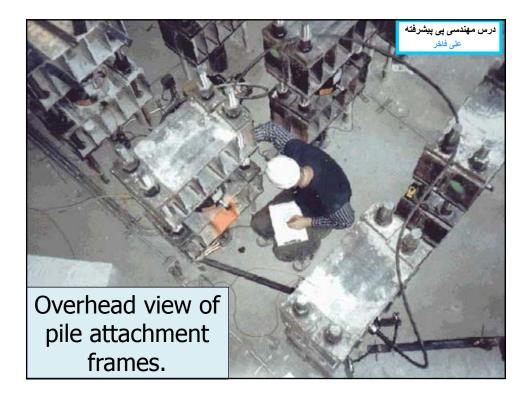
درس مهندسی پی پیشرفته علی فاخر

The valley of Las Vegas consists of very deep interbedded layers of alluvial sands, silts and clay

In 1998, it was recognized that differential movements between the tower core and the wings were unacceptable. If the movements were not stopped structural damage would occur. The center core at this point was sinking at a rate of about ½ to ¾ inches per week. It was imperative to quickly develop and implement a plan for supporting the structure. Micropiles were installed with small equipment, inside the structure and adjacent to the large concrete shear walls that surrounded the elevator shafts were proposed and accepted by the owner and his engineers.

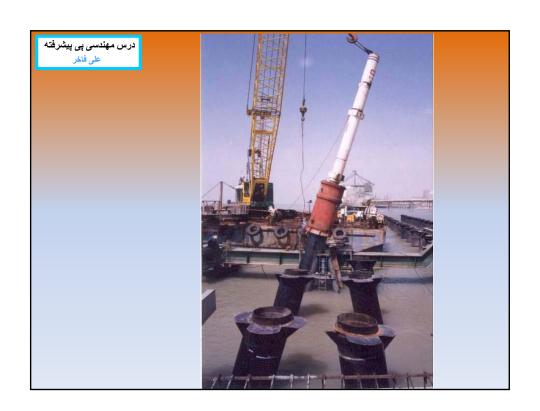
درس مهندسی پی پیشرفته علی فاخر





درس مهندسی پی پیشرفته علی فاخر

اسكله دوم مايعات بندر امام خميني















## درس مهندسی پی پیشرفته علی فلکر از و میه احداث پایه های پل از و میه



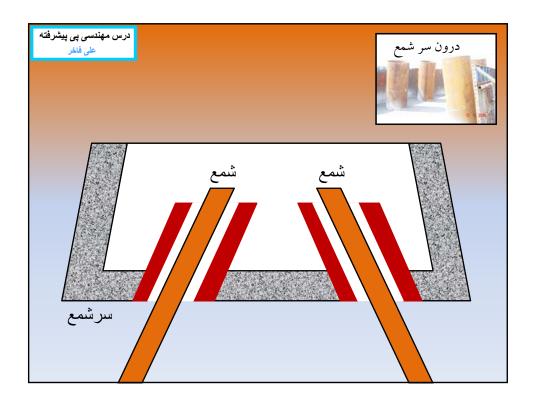
















درس مهندسی پی پیشرفته علی فاخر



The project adopted the "Jack-in Spun Pile" foundation system to mitigate the potential ground movement during the piling processes. This method of piling was clean, no noise, no pollution or vibration.



