



Eskenazi Health Parking Garage Indianapolis, Indiana

A seven story post-tensioned cast in place concrete parking structure with one level partially below grade. Each floor level is 611' x 242' in plan. The structural system is a post-tensioned beam and slab system with 36" deep beams and girders, a 6" thick slab and 30" square columns. The typical column bay spacing is 36' x 60'. The lateral system to withstand earthquake and wind forces is comprised of ordinary concrete moment frames in both orthogonal directions. The column foundation system is 20" diameter, 60 foot long auger cast piles. The piles were designed for a 230 ton working axial capacity, and the typical column support utilized 7 piles. The entire structure was designed considering a potential future "green" roof level.

The parking garage has approximately 2,750 parking spaces and includes 3 structural steel framed stair and elevator towers outboard of the parking structure. There is one speed ramp and one parking ramp at all levels. The cladding components are primarily precast concrete spandrel panels with the exception of the south elevation that has an architectural louver system which is supported by a structural steel backup system. The stair and elevator towers are enclosed primarily with curtainwall. The parking garage has adjacent buildings located on 3 sides. These buildings are part of the Eskenazi Health complex and are being designed concurrently with the garage. Coordination between numerous architectural and engineering firms was required between the garage team and the teams for the 6 adjacent buildings. The parking garage was designed along with the balance of the Eskenazi Health buildings for a LEED certification goal of Silver.

