



General information

Location: North Carolina, United States

Purpose: mixed-use building

Date of completion: 2016

Area: 700,000 ft²

Structural system: Structural concrete (reinforced, prestressed)

Type of Project: Preliminary design

Description

As a consequence of the mixed-use, and the different floors' layouts, various structural systems were used in this building.

The critical aspect of the structure is the transition between levels, where the column layout changes. Post-tensioned transfer beams provide direct support for the upper stories of residential units and a centrally-located pool deck. Concrete cores were used as the main mechanism for resisting seismic and wind actions.

