

CHRISTINA LANDING APARTMENT TOWER

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Wilmington, DE

Structural Option

Project Team

Owner: Buccini Pollin Group
Website: <http://www.bpgroup.net/>
Architect and Engineering Disciplines: Kling
Website: <http://www.kling.us>
General Contractor: Gilbane Building Co.
Website: <http://www.gilbanco.com>

Project Overview

22 Story High Rise Apartment Building
Size: 248,884 sqft
Construction: April 2004 — October 2005
Cost: 60 million
Delivery Method: Design-Bid-Build



Structural

Cast-in-place concrete structure
Reinforced 8" concrete slab with perimeter beam
Reinforced concrete columns (square and round)
Main Wind Force Resisting System: Concrete shear walls
Foundation: Pile caps and H-piles

Architectural

Building Materials: Brick, Glass, Metal Cladding
173 one and two bedroom apartments
Part of a residential construction project including
63 townhouses and a park
Façade: Non-structural precast concrete panel with a thin architectural brick veneer and aluminum framed glass curtain walls

Mechanical

Air Handling: Air to air heat pumps in apartments
Air to water heat pump for common areas
System also uses electric resistance heaters
Fire Protection: Entirely sprinkled wet system
Automated pressurization for smoke control

Lighting/Electrical

Two feeds (208/120V and 480/277V)
208/120V feeds 3 phase, 4 wire plug-in busway for apartments
Apartments metered individually
480/277V line serves mechanical equipment
500kW/625kVA generator serves emergency systems

