

The Waverly on Lake Eola Orlando, FL



Primary Project Team

Owner: ZOM Development

Architect: Graham Gund Architects

General Contractor: Hardin Construction

MEP Engineers: GRG Inc.

Structural Engineers: HWA

Electrical: Encompass Electrical Technologies



Architecture

- 23 Stories
- 230 Luxury condominiums
- 371,000 Square feet
- 450 Car parking garage
- Distinctive "Wave" design



Structural

- Cast-in-place concrete columns
- 27-Foot bay spacings provide large, column-free spaces
- 2-way, flat-plate, post-tensioned slabs



Lighting / Electrical

- Compact fluorescent downlights and wallwash for common areas
- 2 main distribution panels
- 48,358 Amps feeding 120/208 Volt panel
- 35,798 Amps feeding 277/480 Volt panel

Mechanical

- Heat pump units for each apartment
- 3 Rooftop Air Handling Units
- 100% outdoor air supply
- A two-cell fluid cooler
- One atmospheric boiler
- Solvent sanitation system

Construction

- Duration: 740 Days
- Cost: \$38 Million
- Subcontractors: 93 total



Blake Herrschaft
Mechanical Option

www.arch.psu.edu/thesis/eportfolio/current/portfolios/bhl65