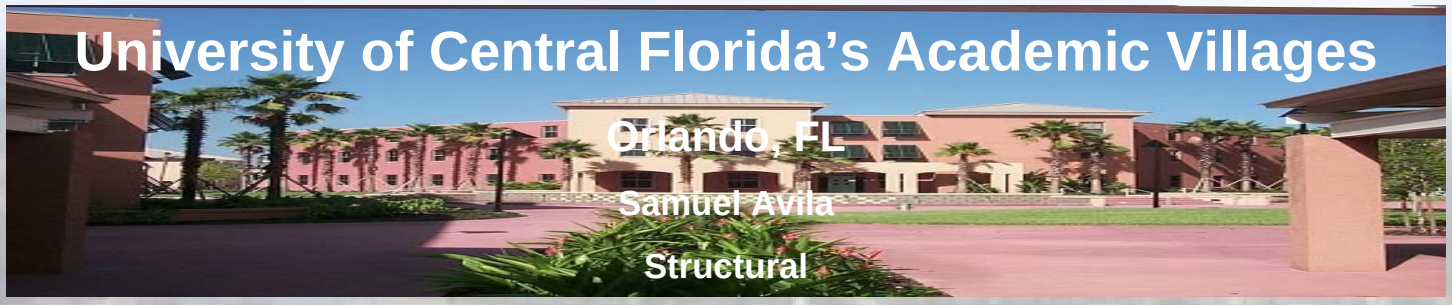
University of Central Florida's Academic Villages



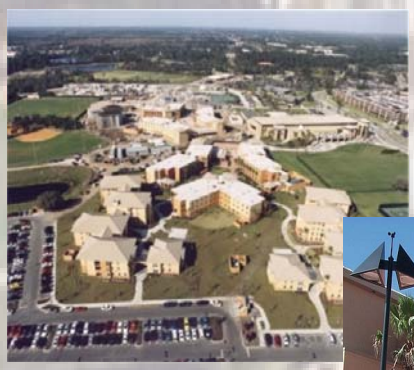
Orlando, FL

Samuel Avila

Structural

PROJECT OVERVIEW

- **Occupancy:** Undergraduate Student housing
- **Dates of Construction:** August 2000 – September 2002
- **Overall Project Cost:** $63 million
- **Stories high:** 4 stories with height of 40 feet



PROJECT TEAM

Owner:	University of Central Florida www.ucf.edu
Architect:	Hanburry Evans Wright Vlattas www.hewv.com
Engineer:	TLC Engineering www.tlc-engineers.com
Geotechnical Engineer:	Nodarse & Assoc. www.nodarse.com
Delivery Method:	Design-Bid-Build

STRUCTURAL

- Shallow foundation system consisting of strip and stepped footings
- 8" cmu interior and exterior lateral shear walls
- 2" 22 gage galvanized Epicore metal decking with cast in place concrete slab floor system
- Concrete columns on base floor / light gage metal built-up columns on remaning floors
- Light gage metal trusses with 1" 20-gage galvanized G-90 metal decking roof system

ARCHITECTURAL

- 10 separate buildings varying in size and layout, the smallest around 14,000 sq. ft. and the largest about 22,000 sq. ft.
- Exterior façade consisted of stucco over bricks to give a traditional Spanish "villa" appearance

ELECTRICAL/LIGHTING

- Primary Switchboard: 277/480V 3 phase 4 wire
- Stepped down to 120/208V when needed
- Fluorescent lighting

MECHANICAL

- Constant volume of air throughout ductwork to provide natural ventilation to each building
- Each apartment unit is equipped with its own heat pump
- Central system on roof provides main public spaces with conditioned air