



# Army National Guard Readiness Center

Arlington, VA

Ian Herron | Lighting/Electrical

## Project Team:

**Owner:** Army National Guard

**General Contractor:** Tompkins Builder, Inc.

**Architect:** CH2M Hill

**Engineer:** AECOM

## Project Overview

**Function:** Administrative office building.

**Size:** 251, 500 ft<sup>2</sup>.

**Stories:** 5 stories above grade +3 below.

**Cost:** 100,000,000.

**Delivery Method:** Design-Bid-Build.

## Electrical System

- 35.4 kV total utility load.
- (2) 15 kV medium voltage feeders at building.
- 480/277, 3 phase, 4 wire system in building.
- 208/120, 3 phase, 4 wire lighting system.
- (2) 1500 kW diesel-powered back-up generators.
- Majority of illumination done with fluorescent lighting.

## Structural System

- Cast-In-Place Concrete and Structural Steel.
- Two-Way Concrete on Metal Deck.
- Shear Wall Lateral System.
- Spread Footing Foundation.
- Typical Bay Size: 20'x25' - 20'x30'
- Typical Column Size: 1'-10" x 1'x10"

## Mechanical System

- AHU's and VAV units on each floor.
- Hydronic four-pipe heating and chilled water system.
- Emergency generators and energy recovery units located in mechanical penthouse.

## Architectural Features

- Aluminum curtain wall system.
- Architectural precast panels.
- Single-ply roofing system for tower.
- Outdoor Plaza also functions as a green roof for lower floors.
- Building expected to achieve LEED Silver Rating.
- Steel Tricorn on top of building designed to give the appearance of an eyebrow.

