

# NVA5

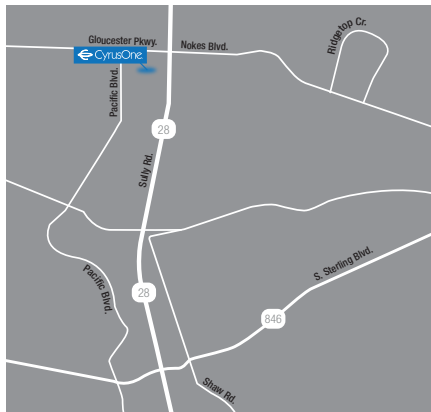
**Northern Virginia - Sterling**  
**CyrusOne Data Center**  
**21350 Pacific Blvd.**  
**Sterling, VA 20166**

NVA5 facility will be a two story building and at full build will offer over 1 million square feet of data center space. It will provide up to 90,000 square feet of class A office space. The location offers direct access to one of the largest internet exchange points in the US and superior fiber connectivity.



## Overview

- Approximately 1 million data center square feet at full build, 90,000 square feet of office space
- Carrier-neutral and part of the CyrusOne Internet Exchange (IX)
- 100% uptime service level agreement
- 24/7 year-round staffed NOCC and remote hands support
- Dedicated cages and private suite options available
- Wholesale and retail colocation options
- Zone X flood zone rating (low risk)
- Zone 1 seismic zone rating (low risk)



## Power

- Up to 105 MW at full build
- Up to 1000 W per square foot
- Multiple levels of redundancy available within the same footprint (e.g., N, 2N)
- Diverse power delivered by two independent circuits
- 750kVA Mitsubishi UPS systems; each power leg has a dedicated UPS with battery backup
- Scalable 2.25MW Detroit Diesel dedicated generators pre-wired for additional capacity
- 6,800-gallon belly tank per generator

## Cooling

- 36-inch raised white floor design
- 24 foot ceiling height from data center floor, utilizing Stultz 200 Ton CRAH's units with electronically commutated (EC) variable-speed fans
- Highly efficient multiple 500-ton Trane chillers with rapid restart and adaptive controlled microprocessors (with ability to scale as density increases)
- Closed-loop chilled-water-cooling design

## Security

- Video surveillance and recording of the exterior and interior
- On-site security guards 24/7 year-round
- Dual authentication entry into building and data halls; biometric and key card (color-coded) security for rigid access control
- Cabinet and cage security options include individual locks and biometric scanners
- Perimeter fence

## Fire Detection and Suppression

- Very Early Smoke Detection Apparatus (VESDA) system; sampling air in parts per million coupled with a zonal dual-action interlocking dry-pipe pre-action system

## Location/Amenities

- Dulles International Airport – 8 miles
- Washington National Airport – 35 miles
- Various restaurants and hotels nearby

## Sustainability

- **Water Free Cooling:** No water is used to cool this facility (such as water towers or evaporative cooling). Minimal amounts of water are used for humidification and facility maintenance.
- **Water risk:** Currently rated at Medium to High Risk; projected to remain at this risk level through 2040 (based on WRI Aqueduct Tool).
- **Carbon Intensity:** Carbon emissions of the local grid were 805 pounds CO2/MWh in 2016 (last year reported), a 30% improvement over 2004 (based on US EPA eGRID data).
- **Grid renewables:** The local grid gets 5.6% of its power from renewable sources (wind, solar, biomass, hydro, and geothermal; based on US EPA eGRID data).

## Site Plan

