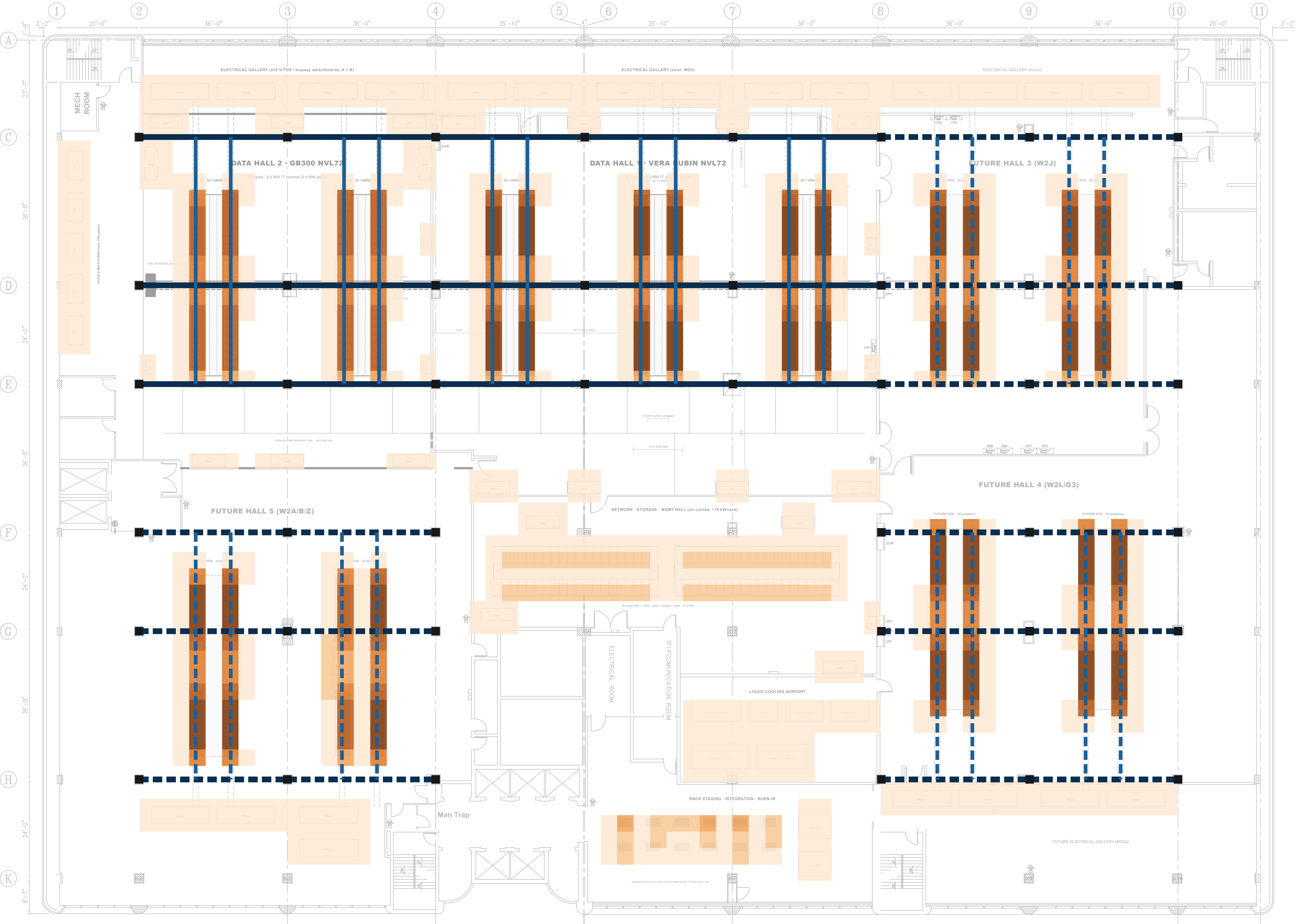


FLOOR LOADS · LEVEL 2 WHITE SPACE

Estimated equipment dead load at full build-out (Phases I–IV), psf averaged over 4 × 4 ft cells



WEST END DATA CENTER

801–809 W 4th St, Winston-Salem NC

LEVEL 2 · FLOOR LOADS (EST.)

Equipment dead load, averaged over 4 × 4 ft cells

LOAD (psf, per 4 × 4 ft cell)

- 0–100 psf
- 100–200 psf
- 200–300 psf
- 300–400 psf
- 400–500 psf
- ≥ 500 psf

Peak cell ≈550 psf. Blank = no equipment load.

EQUIPMENT (planning weights)

| Item                                     | lb each | psf on footprint |
|------------------------------------------|---------|------------------|
| Vera Rubin rack (2.2 tons) (96)          | 4,400   | 627              |
| Future rack, Vera Rubin (2.2 tons) (204) | 4,400   | 627              |
| GB300 NVL72 rack (2.0 tons) (64)         | 4,000   | 570              |
| Air-cooled IT rack, network hall (80)    | 2,000   | 250              |
| Network (NET) rack (20)                  | 2,000   | 250              |
| Network (NET) rack, future (24)          | 2,000   | 250              |
| In-row CDU, ≈1.8 MW, filled (30)         | 6,000   | 374              |
| In-row CDU, future, filled (36)          | 6,000   | 374              |
| PDS switchboard line-up (10)             | 9,000   | 160              |
| PDS switchboard line-up, future (12)     | 9,000   | 160              |
| Chilled-water CRAH / fan-wall (20)       | 3,000   | 125              |
| Humidifier (6)                           | 500     | 83               |
| Support / staging equipment (13)         | 3,000   | 50               |

POD AVERAGES (row area)

|        |          |
|--------|----------|
| Pod 2A | ≈280 psf |
| Pod 2B | ≈281 psf |
| Pod 1A | ≈301 psf |
| Pod 1B | ≈302 psf |
| Pod 1C | ≈301 psf |

NOTES

Racks: Vera Rubin ≈2.2 tons, GB300 ≈2.0 tons, as on the page. All other weights are planning estimates, not vendor data.  
Equipment dead load only: excludes the floor system, slab self-weight and code live load.  
Rack weight assumed spread evenly over its footprint; casters (≈1,100 lb each while rolling) are point loads.  
Future halls shown fully built (Phase IV).  
Pod averages include CDUs and NET racks over the row-pair footprint.  
For planning only. The structural engineer of record sets design loads and verifies the strengthened slab.

STEEL UNDER THE ROWS (concept)

- Beam under each liquid-cooled rack row
  - Girder on a column line, into the columns
  - Dashed: future halls
  - Existing column
- Rows sit directly on their beams, so the slab only passes rack load straight down. Beams run continuously over lines C, D, E (Halls 1–2, Future Hall 3: 36 + 24 ft) and F, G, H (Future Halls 4–5).  
Rev B: Halls 1–2 and Future Hall 3 pods moved 4'-10" north so rows end on line E (no cantilever) and each CDU cluster sits centred over the D girder.  
22 row beams, 33 girder runs, ≈97 tons of steel (≈44 tons for Halls 1–2): ≈W24 beams, ≈W27–W30 girders at a 5,000 lb rack allowance. Network-hall racks stay on the slab.  
Sized and stamped by the structural engineer of record.