



South Hill Data Center

Specifications Brochure



AVAILABLE – Greater Seattle Location

www.southhilldatacenter.com

NORTH BUILDING
Commissioned Data Center Available Today

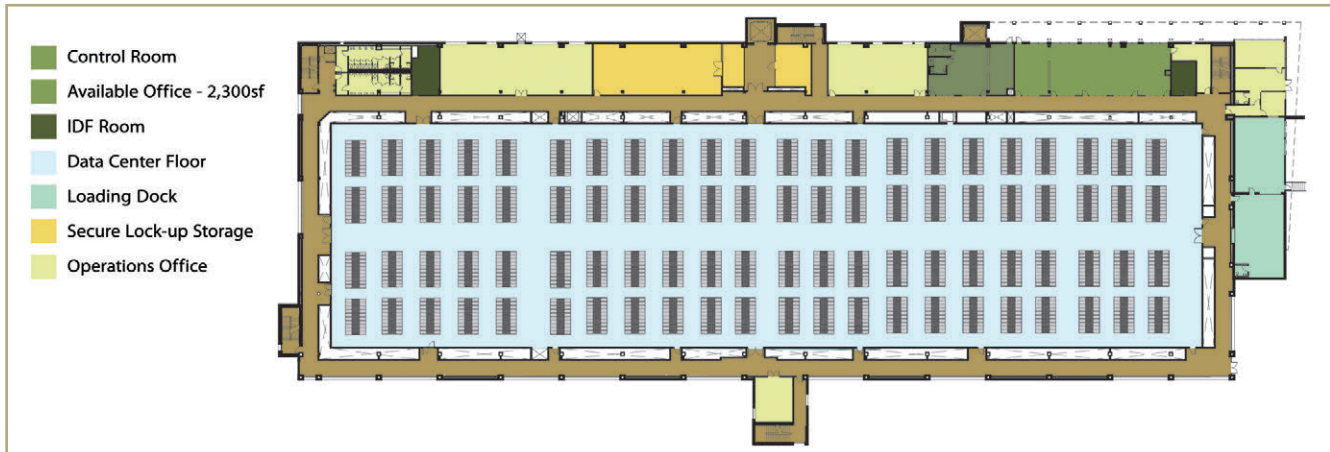


CONTACT
David Vranizan
Benaroya Companies
(425) 440-6711
davev@benaroya.com



RAISED FLOOR PLAN

DATA CENTER FLOOR 56,605 square feet



FACILITY OVERVIEW

The 298,854 square foot, high capacity Houth Hill Data Center is a fully-operational, next generation data center with cost-saving, green technology

Abundant Low Cost Power

- Substation on site with 42.5 Megawatts dedicated to campus
- Expandable to 67.5 Megawatts
- Supplied by two 115kV transmission lines
- Dual fed from separate 230KV utility substations
- Complete, redundant system - for power reliability
- Full UPS backup (N + 1) of all critical data center loads

Cooling

- Proven highly efficient evaporative cooling system utilizing 100% outside air, saving 35% or more in energy and maintenance costs
- 1.32 average PUE (Power Usage Effectiveness) from source savers

Connectivity

- Carrier neutral, all capable of redundant pathways. Century Link, Level 3, and 360networks, have a POP in the building; Integra and AboveNet also available

LEED Designed

- Efficiently designed to take advantage of the Pacific Northwest's mild climate. LEED Gold Certified and Energy Star Certification anticipated

Low Cost Power

- Lowest rates in Western Washington
- \$.01 per kWh discount from Puget Sound Energy's standard electrical rates
- Ultra-efficient air side economizers

Water

- Dual-fed water supply from the City of Tacoma and City of Puyallup which together can provide up to 2 million gallons per day
- Onsite capability to store more than 1.3 million gallons of water

Scalable Infrastructure

- Scalable from 150 watts per square foot to 260 watts per square foot of mission critical power

Security

- A private 92 acre site with individual building security fencing
- 24 x 7 video surveillance and secure perimeter fencing. Staffed 24 x 7. Designed to meet the most rigorous security standards
- Secure custom suites available

Data Center Critical Environment Operations

- Scalable on site critical environment management aligned with the needs of the user
- On and offsite BMS (Building Management System) monitoring

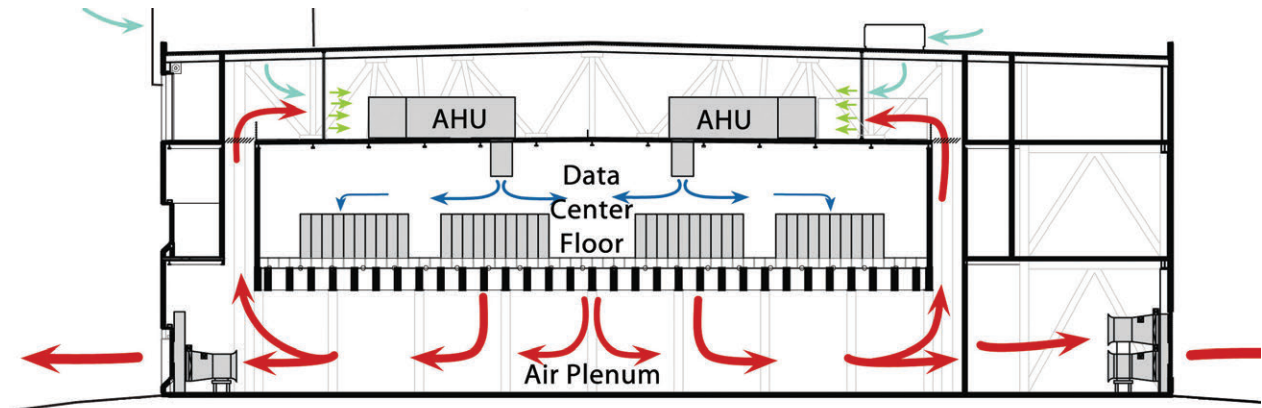
Expansion Potential

- Adjacent South Building with 17.5 Megawatts available

Other Benefits

- The City of Puyallup's proactive permitting climate
- Proven data center and real estate team
- Available sites on the campus for data center container deployments and additional data center facilities

FACILITY CROSS SECTION



MECHANICAL SYSTEM OVERVIEW

The mechanical system is designed to accommodate critical loads of up to 260 watts/sf with hot aisle/cold aisle segregation to optimize the performance of the outdoor-air economizers.

This design differs from the conventional method of delivering 50 to 55° F supply-air that mixes the heat rejected from server racks and delivers energy savings (up to 75%) compared to traditional chilled water systems.

The air handling units (AHUs) are equipped with evaporative-cooling/humidification and filter sections. The evaporative cooling section provides the primary cooling for the data center floor.

ENERGY SAVING & GREEN DESIGN FEATURES

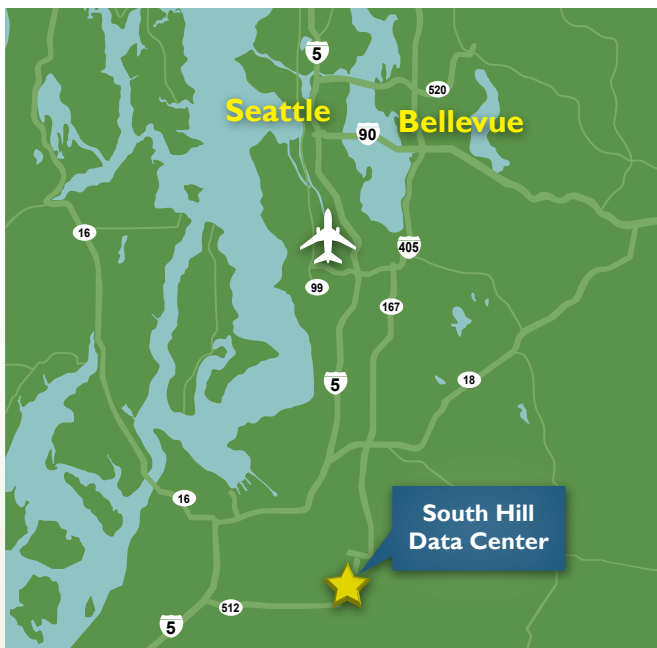
South Hill Data Center is LEED Gold Certified and anticipates Energy Star Certification as a result of a variety of sustainability and energy-saving measures.

- Highly efficient cooling system is complemented by enhanced commissioning to ensure the system functions at maximum efficiency.
 - Extensive monitoring and building automation allow ongoing measurement and verification of energy use.
 - Stringent construction practices protect indoor air quality by controlling dust and particulates to prevent contamination of building materials, ductwork and equipment.
 - Low VOC materials and finishes have been used throughout the facility. Wherever possible, building materials contain recycled content and were sourced within 500 miles.
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- The site plan diagram shows the North Building Data Center, an Electrical Yard, Future Containers, and a Loading Dock. The building is situated on a green field with a road and parking area nearby.
- Adaptive reuse of an existing facility.
 - Regularly occupied areas enjoy natural daylight and views, separate comfort controls, and low water use fixtures.
 - Electricity for this facility is from hydroelectric and wind sources.



SOUTH HILL'S BENEFITS VS. A "TYPICAL" NEW DATA CENTER

- 56,605 sf of data center raised floor space ready for immediate occupancy.
- Long term scalability to high density (260 w/sf) of critical power. This high density eliminates risk of functional obsolescence.
- The proven cooling system in this facility represents the "Next Generation Data Center". The extremely low PUE and low power rates will provide significantly lower TCO (total cost of ownership) when compared to a "typical" data center. We anticipate that South Hill will be awarded Energy Star and LEED Gold Certification.



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 Puyallup, WA 98374
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