2027 Pinelands Regional SD

1. Switches and Network Equipment

- **Installation & Scope:** Hardware procurement only for 3 buildings; installation services are not requested.
- **Current Ubiquiti Inventory (34 switches total):**
  - 22 × USW 24 PoE (500W)
  - 5 × Pro 48
  - 7 × Pro 8 (150W)
- **Preferred Switch Model:** UniFi Enterprise with full PoE power or equivalent
- **Port Count & PoE Budget:** Refer to existing model details listed above.
- **Core Switch Setup:** 1 switch with 100GB QSFP ports, connecting to 12 switches.
- **100GB Optical Modules:** Multi-mode, 100GB speed required.

2. Cabling Requirements

- **Prevailing Wage:** Determined by the State Department of Labor.
- **Site Walkthrough:** No walkthrough scheduled.

Floor Plans & Data Drops: Floor plans are not needed as data drops will be installed internally by the district.

3. UPS Requirements

For the (8) 2U and (24) 1U Eaton UPS units, what capacity is required for each size (VA, watts, or kVA)? 8 2U are 220 Outlet, 30amp isolated breaker, 24 1U units are standard 120v outlet

What equipment will each UPS support, and what is the total connected load (VA or watts)? The units are If these are replacing existing UPS units, what equipment does each existing unit support? Single 500w Unifi switch, min 1000VA for 1U, 2U min 13000VA

How much backup runtime is required for each UPS during a power outage? As much as possible

What is the power source voltage and configuration (e.g., 120V, 208V single-phase, 208V three-phase, or other)?120V for 24 1U, 208V Three-Phase for 8 2U

What input and output plug types are required (e.g., NEMA 5-15P, 5-20P, L5-30P, L6-20, L6-30, C13, or C19)? 24 need NEMA 5-20, 8 2U need L6-30R for 30 amp service

How many outlets/receptacles are required? 32

Is a PDU needed to distribute power? If so, what type is required, and should it include smart monitoring and alarms? No, none

Is remote network management or SNMP monitoring required? Is there an existing system used to monitor the UPS units? none

What is the maximum allowable UPS chassis depth? 19”
Is a specific UPS technology preferred (online double-conversion, line-interactive, or offline)? Line-Interactive

Are lead-acid/carbon or lithium-ion batteries preferred or required?Lithium-ion batteries

Is a generator available to provide backup power to the UPS units? No

Where will each UPS be installed (rack-mounted, floor-standing, or wall-mounted)? Cabinet or wall

Is additional capacity needed to accommodate anticipated future load growth? no
Are there any environmental or enclosure requirements, such as cooling needs or a sealed system? None