1. **SCOPE OF WORK**
	1. The project consists of replacing the four Eaton/Powerware and one Liebert Nfinity uninterruptable power supply (UPS) and bypass switch(es) at five sites.
2. **CONTRACTOR RESPONSIBILITIES**
	1. Site Preparation
		1. Coordinate and obtain any permits required and coordinate any inspections with local authorities that may be needed for component replacement work.
		2. Provide engineering services for site drawings of new equipment necessary for any permitting.
		3. Provide one time mobilization costs for the construction crews. Any remobilization due to interruptions/delays that are out of the Contractor’s control will result in additional costs.
		4. Contractor will be responsible for any installation or upgrades for code compliance, as applicable.
		5. Provide Turnkey services for complete de-installation, installation, and operation.
		6. Confirm all assumptions listed are correct for complete installation.
	2. Site Components Installation
		1. Remove existing UPS system and bypass switch from each site.
			1. Site # 1 Astor
			2. Site # 2 Highway
			3. Site # 3 Lady Lake
			4. Site # 4 Orange Mtn
			5. Site # 5 Sorrento
		2. Load UPS and bypass switch on County supplied vehicle/transport for disposal by County.
		3. Supply, deliver, and install one new replacement UPS system (18kW) and maintenance bypass switch at each site and wire output to UPS distribution panel with a Bypass Switch.
	3. Miscellaneous Work
		1. Reconnect and test all monitoring contacts utilized to monitor operations and failures of provided equipment.
		2. Bond all new fixtures, UPS, and UPS Bypass Switch as required to current R56 grounding standards.
	4. Warranty Information – Provide warranty information.
3. **COUNTY RESPONSIBILITIES**
	1. Assign Project Manager
	2. Provide personnel to observe construction progress and testing of site equipment according to the schedule provided by the Contractor.
	3. Provide vehicle and personnel for transport of existing equipment being removed.
4. **DELIVERY REQUIREMENTS AND ACCEPTANCE.**
	1. Provide and accomplish Acceptance Test Plan and Equipment Turn-up for operational demonstration and certification.
	2. Demonstrate operations with a full runtime of UPS.
	3. Demonstrate UPS operation and runtime without external power, with generator power, and with commercial power.
	4. Test and certify equipment operation with County representative to guarantee continuous power and back-up power to site equipment at a minimum until generator starts, cycles, and transfers’ power.
	5. Train County staff on operation and maintenance criteria.
5. **ASSUMPTIONS**
	1. UPS and Bypass Switch (Make before Break) provided will at a minimum meet the specifications of the existing UPS and equipment.
	2. Work will be conducted during normal business hours (Monday through Friday, 8:00 a.m. to 5:00 p.m., excluding County Holidays).
	3. Existing UPS can be taken out of service to install new replacement, utilizing existing wiring, as well as existing mounting location(s) and or footprint(s).
	4. Existing Bypass Switch is compatible and can be utilized.
	5. Existing Feed wires from ATS to Generator can be utilized.
	6. Site will have adequate electrical service. Utility transformer, transformer upgrades, line, or pole extensions have not been included.
	7. Hazardous materials are not present at the work location. Testing and removal of hazardous materials, found during site investigations, construction or equipment installation will be the responsibility of the County.
	8. No access road or staging area improvements are required for the heavy construction equipment which could include concrete trucks, drill rigs, semi tractors and trailers, and cranes.
	9. If extremely harsh or difficult weather conditions delay the site work for more than a week, Contractor will seek excusable delays rather than risk job site safety.
	10. Alarming at existing sites will be limited to new component installations and will remain operational per the current installation on a site-by-site basis.
	11. The site(s) will have adequate room for installation of proposed equipment.
	12. The floor can support the proposed new loading. Physical or structural improvements to the existing room will not be required.

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