

## VENDOR QUESTIONS & ANSWERS

1. Is independent third party electrical NETA testing required for the new ATS switches? Typically this is performed as a first tier sub to a prime contractor, not as a direct sub to the electrical contractor. In this instance, the project is being bid by electrical contractor(s) as the prime. Is the electrical contractor expected to sub contract to a third party electrical testing agency for standard NETA testing of new ATS equipment under this project?

**Answer:** Contractor shall comply with specification section 263600-3.3 and provide NETA testing for all new ATS switches. NETA testing with authorized factory service representative is acceptable per the specification.

2. The existing generator is a Caterpillar product. Is there a name and contact information for a CAT account representative that can be provided so we can contact them about the work under this project as it relates to the generator controller?

**Answer:** During design phase, Bowman consulted with Matthew Mathes at Carter Machinery Company, Inc. (8362 Richfood Rd, Mechanicsville, VA 23116, 804-823-1189).

3. The existing building BMS system is a Siemens system. Is there a name and contact information for a Siemens account manager or Siemens representative that we can contact for pricing of the scope of work that needs to be covered by Siemens for integrating work within this project into the existing BMS?

**Answer:** The person to be contacted is Brian Nolen (6435 Virginia Manor Road, Beltsville, MD 20705) Main: 301.837.2600 - brian.nolen@siemens.com

4. Bid drawing E502 ATS-3 temporary cabling is identified as 3 sets of 500 mcm. Would 2 sets of 500 mcm be suitable since the breaker is only 800 amps?

**Answer:** Concur. Two sets of 500kCMIL is acceptable.

5. The contract bid drawings do not contain any details regarding extensions to existing concrete pads. Are there specific requirements regarding extending the pads such as doweling existing pads/floor, reinforcing steel, wire mesh, and concrete PSI requirements. Can concrete be ready mix type in bags and be mixed on site in the area of the work. If concrete pad extensions are required, is there any concrete "testing" that would be required under this project?

**Answer:** See below for concrete pad extensions scope of work:

1. Remove any concrete coatings in the areas for the pad extension
2. Mechanically scarify/roughen the surfaces
3. Drill/install ½" Hilti Kwik Bolts KB-TZ2

- a. Provide three bolts in the vertical face at center of the pad. Provide 3" clearance from the outside edge of the pad and place one bolt at the center.
- b. Provide two bolts in the floor/horizontal face. Center these on the extension, and provide 3" from the outside edge
- i. Embed 3" with a minimum 2" projection. Use 4" projection for pads that are 12" or thicker.
- ii. Projection can be adjusted to support WW panels if desired
- c. Bolts shall be carbon steel. Galvanized can be substituted if desired
4. Use welded wire fabric panels at mid depth of pads. 4 x 4 – W1.4 x W1.4. 1.5" clear from edges
5. Apply Sika Armatic 110 EpoCem bonding agent to all surfaces (vertical and horizontal) to receive the pad extension.
6. Concrete mix
  - a. 3000 psi. ½" coarse aggregate, air-entrained – 4% -1%,+2%. Slump 3" max, w/c ratio 0.46. cure with water based curing compound. Match any chamfer of original concrete pads.
  - b. Existing chamfer at slab "joint" to be filled with Sika Sikaflex – 2c SL sealant. Block ends as required to contain sealant until it achieves set.
  - c. 5000 psi ready mix concrete equivalent to Sakrete and mixed on site in the area of work is an acceptable alternative.
6. It is understood the engineering design team may have been in contact with a vendor for the modifications to the diesel day tank that are required. Is there a company name, person's name and contact information that can be provided so this company can be contacted for pricing?

**Answer:** During design phase, Bowman consulted with Matthew Mathes at Carter Machinery Company, Inc. (8362 Richfood Rd, Mechanicsville, VA 23116, 804-823-1189). Scope of work for day-tank has been removed. Refer to updated Addendum 1 drawings for additional information.

7. Is there an associated cost for the County required background check and fingerprinting for personnel?

**Answer:** No.

8. Is a bid bond required?

**Answer:** Yes.

9. The solicitation document page 45, paragraph 15 requires the use of e-Builder for a construction management tool. The ATTACHMENT E-Special Provisions page 1, paragraph 3 requires "SUBMITTAL EXCHANGE" by Oracle. These are conflicting requirements. Does the County have the construction management tool for the Contractor's use?

**Answer:** This requirement is not applicable for this solicitation. All communications and exchange of information can be done electronically without the use of a construction management tool.

10. Are sales taxes on materials and equipment applicable?

**Answer:** No.

11. Is the Contractor allowed to store materials and equipment to be used in construction in the penthouse?

**Answer: Yes, the County will assign a staging area to store material and tools.**

12. Does the facility elevator go from the loading dock floor to the penthouse?

**Answer: Yes.**

13. What are the dimensions of the door to the elevator and the interior dimensions of the elevator that the Contractor will be allowed to use? What is the weight capacity of the elevator?

**Answer: The elevator door is 4ft W x 7 ft H.**

14. There is no required abatement for asbestos, lead, VOC, or PCBs for the project. Is there a requirement for Contractor's Pollution Liability insurance?

**Answer: No.**

15. We have consulted with the automatic transfer switch manufacturer, and they are telling us the manufacturing time for the switches is 40 weeks after the release of approved submittals. Including 30 days for submittal submission, two weeks for Arlington review and 90 days for construction the contract time needs to be 420 days. The 270 consecutive days for construction is not enough time.

**Answer: Correct, the contract will be adjusted based on the equipment lead time.**

16. For construction required after hours or weekends can the Contractor use onsite parking spaces?

**Answer: No.**

17. The Special provisions state hammering and core-drilling cannot take place during Courts/Police operation hours. What are those hours?

**Answer: Courts/Police Operations are 7:30 AM to 6:30 PM.**

18. Is the Contractor only required to pay for trade permits?

**Answer: Yes.**

19. How long is the security orientation class that's required for personnel?

**Answer: It takes 3 hours.**

20. Since all the work is confined to the penthouse is a field office and storage sheds required? If they are required, where are they to be located?

**Answer: This is not required. A staging area to store equipment and tools will be assigned by the County.**

21. For the required coordination drawings in section 01 20 00 will the County provide CAD files for the contractor's use?

**Answer: Yes. County will provide CAD files for construction coordination.**

22. There is no mechanical construction shown on the drawings. What is the purpose of spec section 01 66 00?

**Answer: Section is not applicable and has been removed. Refer to revised TOC and Specification edits.**

23. Are there any items to be salvaged by the Owner?

**Answer: No.**

24. Spec section 26 36 00 paragraph 1.8 requires a two-year warranty. The solicitation document page 53-54 paragraph 15 requires a 1-year warranty. These are conflicting requirements.

**Answer: Provide two-year warranty per 26 36 00.**

25. Drawing E000 key notes 9 and 10 and drawing E201 require add alternate pricing. Attachment B, pricing schedule, does not have a place for the add alternates?

**Answer: The scope of work will be revised to remove alternate #2. Alternate #1 will be included in the scope. Refer to Addendum 1 drawings for additional information.**

26. Drawing E000 in the lower left corner there is a chart for the new transfer switches with dimensions. The chart shows the 1200A switch is larger than the 2000A switch. These dimensions are critical because there's not much available space. Verify the dimensions are correct? Verify what manufacturer was used for the dimensions?

**Answer: Dimensions listed on the drawing are correct and are based on Russelectric. ASCO dimensions are comparable. The reason the 1200A ATS is larger than the 2000A is due to the number of poles. 1200A ATS is 4-pole versus 2000A ATS which is 3-pole.**

27. Drawing E201 key note 2 requires a new ultrasonic level sensor for the existing day tank. There is no specification provided. Is the sensor to be read in gallons, percentage fill, or inches? Provide a manufacturer and catalog number for what is required?

**Answer: Day-tank scope of work has been removed. Refer to Addendum 1 drawings for additional information.**

28. In ATTACHMENT E-Special Provisions paragraph 2 states there are no restrictions for interior construction. To install a temporary feeder to the existing loads served from the transfer switches a complete outage will be required to connect to the load and the feeder breaker. Are there any restrictions when this can be performed?

**Answer: Yes, this work will be done at night and/or weekends and shall be coordinated and approved in advanced by The County.**

29. On the bid form, page 8 of 8, insurance requirements checklist X24. XCU Coverage (explosion, collapse, and underground property) what is the need for this type of coverage because there is no excavating required?

**Answer: This is not required.**

30. Drawing E000, electrical notes and specifications, note 14 says to test “Fire Alarm and other Systems”. We are not performing any work on the fire alarm system. Provide what specific testing is required for the fire alarm system and/or any other system?

**Answer: Fire alarm system is not part of the scope. Refer to Addendum 1 drawings for additional information.**

31. Drawing E000, electrical notes and specifications, note 15 says to install arc flash labels on each switchboard, panelboard, control panel, transfer switch, starter, VFD, MCC, etc. There is no requirement for an arc flash study. What is the intent of this requirement? How is the contractor to know how many arc flash labels need to be applied?

**Answer: New Arc Flash Labels to be added to new ATs only. Specification section 260573.19 FL - Arc-Flash Hazard Analysis added to scope of work.**

32. Drawing E201 General Notes, note 6, says to provide programming of the existing BMS to accept new transfer switches, day tank and generator controller. What manufacturer is the existing BMS and is there a County approved contractor that provides maintenance, updates, and support to the BMS?

**Answer: Siemens. The person to be contacted is Brian Nolen (6435 Virginia Manor Road, Beltsville, MD 20705) Main: 301.837.2600 - [brian.nolen@siemens.com](mailto:brian.nolen@siemens.com). Day tank controller will be removed from the scope.**

33. Drawing E201 Key Notes, Note 7, says to coordinate final location and requirements with owner. The BMS is existing so we’re confused what the “coordinate final location” portion of this requirement means? Identify all owner requirements regarding the BMS system?

**Answer: The existing approximate location of BMS (DDC) panel is shown on plan per keynote 7. The intent of “coordinate final location” is for the contractor to coordinate in the field the final location prior to installation and routing of any conduits, and to coordinate with owner/Siemens for integration of new control points. Siemens contact information is provided under question 32.**

34. Drawing E500 Temporary Work Key Notes, note 3 says to install a temporary 800A 4P open transition transfer switch. This switch is to be used for the temporary for the replacement of all transfer switches. Can a used transfer switch or rental be supplied for this purpose?

**Answer: Concur. ATS can be a rental or used.**

35. Specification 26 05 33 paragraph 3.1 B. 3. b. requires raceways installed in mechanical rooms to be GRC. All the existing conduits in the penthouse connecting to the transfer switches are EMT with compression fittings. Can EMT with compression fittings be used for all conduits?

**Answer: EMT is acceptable.**

36. Drawing E500 Temporary Work Key Notes, note 1 says to set the trip setting to 400A. Square D's M frame breaker does not have adjustable trip settings it only has adjustable thermal-magnetic settings. Confirm the existing breaker has an adjustable trip setting?

**Answer:** At unit substation, existing 800A circuit breaker is an electronic trip circuit breaker with LSI settings, and the trip settings can be adjusted. Square D has confirmed that trip settings can be adjusted on this breaker.

37. Drawing E500 Temporary Work Key Notes, note 3 says to install a temporary 800A 4P open transition transfer switch. Note 2 says to install an 800AF/400AT breaker in panel EDH13A. An 800A frame breaker with adjustable trip is a Square D P-Frame breaker and is 9" wide. It does not appear that the panel has enough space for an 800AF breaker. Confirm the panel will fit a 9" wide breaker?

**Answer:** Space for an 800A circuit breaker with adjustable trip setting is available. Adjustment of other circuit breakers is expected to allow for space needed. Coordinate with Square D.

38. Drawing E201 key note 1 requires a MODBUS to BACNET converter. Should the power supply for the converter come from the generator batteries?

**Answer:** Refer to Addendum 1 drawings. A new circuit has been provided.

39. Drawing E201 key note 2 requires the installation of a new ultrasonic sensor in the day tank. The existing manual gage is to be removed. The ultrasonic sensor requires a 2" NPT fitting. Confirm that the tank has a 2" fitting?

**Answer:** This work will be removed from the scope. Refer to Addendum 1 drawings for additional information.

40. Drawing E201 key note 8 requires a circuit from panel EL12A on the 12th floor to the remote annunciator. Provide a floor plan of the 12th floor showing where panel EL12A is located?

**Answer:** Approximate location of panel EL12A is shown on new work plan. Refer to Addendum 1 drawings for additional information.

41. Drawing E201 has the note numbering incorrect. There are three #5 key notes and two #7 drawing notations?

**Answer:** Keynote numbering has been revised. Refer to Addendum 1 drawings for additional information.