



Response to Questions

12kV BUS REDESIGN - SUBSTATION #3 #1007

1. **QUESTION:** Who is the connecting utility?
ANSWER: The St Charles Electric Utility is the connecting utility. The 34kV power comes into the substation from Commonwealth Edison.
2. **QUESTION:** Will SEL ES need to comply with a connecting utility's standards?
ANSWER: No, we will deal with Com Ed as needed.
3. **QUESTION:** Will the design be reviewed by the City or its engineer and the connecting utility?
ANSWER: Yes
4. **QUESTION:** Does the City have established design standards, specifications and drawings?
ANSWER: Yes, we will provide this to the winner of the bid so that they can follow the same template.
5. **QUESTION:** Does the City have existing example design drawings and specifications to follow? Are they available in respective Word and AutoCAD formats?
ANSWER: Yes we have examples and will provide to the winner. The example specifications are in Word and AutoCAD or Microstation format.
6. **QUESTION:** Who is the City's Engineer and Project Manager?
ANSWER: Erika Drennan
7. **QUESTION:** Does the City have a proposed project schedule?
ANSWER: We need to have the specification for the bus and the civil done during calendar year 2019.
8. **QUESTION:** It appears that milestones have not been addressed in the RFP. Please confirm that bidder milestones are to be provided with the proposal and will be the basis for deliverables and payment.
ANSWER: If bidder needs payment after certain milestones please include a payment schedule with the bid. Since bidder is providing only paper (specification and drawings) payment at the time of delivery seems reasonable, but the request for a payment schedule other than at the time of delivery will not disqualify anyone.
9. **QUESTION:** Will the City require the consultant to provide a construction RFP for construction bidding?
ANSWER: Yes, the project deliverable is a design of civil components and structure that the city can send out to substation packagers and civil/concrete contractors for bid. The city does have examples of previous civil and the structure designs that will be provided to the winning bidder.



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10. **QUESTION:** Will the City provide a current field survey, underground utility locations, and above ground utility structures, foundations and electrical locations and elevations?
ANSWER: The city does not have a current field survey, so if that is required, please include acquiring it in the bid. I am also attaching three (3) pdf-s *Sub 3 Structure, Sub 3 Structure BOM, CAD Layout*, which are the elevation drawing that I have for the existing structure. In addition please see the pdf *Sub 3 extension conduit conflict areas* that show the underground utility locations. All underground utility locations will be clearly marked by the city, but this document provides a good idea of where conflicts are.
11. **QUESTION:** Substation appears to require a tie-in to the transmission distribution system. Will this be “by others”? Will others be responsible for the tie-in located within the substation?
ANSWER: Yes, only the structures are in this scope of work. Cables will be moved as needed by the city.
12. **QUESTION:** Will there be any concurrent projects? If so, additional schedules and supporting documentation are requested for the bid.
ANSWER: No.
13. **QUESTION:** Will all AutoCAD plans be made available for the Design effort?
ANSWER: We can provide whatever we have. See examples in the attachments.
14. **QUESTION:** Will all environmental and permitting scope of work be by others?
ANSWER: If any environmental work needs to be done, include acquiring it in the scope of work. To the best of our knowledge, no permitting will be required.
15. **QUESTION:** Will the City be providing any of the following design information as it does not appear to be provided?
- grounding at the substation? No
 - any geotechnical field testing and report been performed and developed? A soil study report is attached
 - any property survey been performed and is it available? No
 - any property line & easement plan been developed and is it available? The property belongs to the city. No easement is required and the property can be extended to the curb if required.
 - any field subsurface investigations been performed (Ground Penetrating Radar - GPR, etc.) and is it available? No
 - any field Resistivity investigations been performed and is it available? Whatever we have is in the soil study report. If other information is required, include acquiring it in the scope of work.
 - existing SPCC plan been developed for each substation and is it available? Yes
 - has all floodplain information and field work been performed for each site and is it available? A FEMA floodplain map will be available to the winning bidder if required.
 - has an Aspen model been developed and is it available? No



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- will the owner provide any additional studies including noise studies, if required? No

16. **QUESTION:** Is this quote limited to Substation design or does it include P&C as well?

ANSWER: Only the design is in the scope of work.

17. **QUESTION:** Is equipment sizing/specification part of the scope?

ANSWER: No, the city will purchase the VSA reclosers and the controllers apart from this project.

18. **QUESTION:** Is a cable and conduit/trough schedule part of the scope? We noticed a comment on the RFP which says "Cables are not within scope" so any further clarification on this would be helpful.

ANSWER: A new trough is in the scope. This is required to get the control wires from the building to the new equipment. If cables have to be moved or new underground conduits are required, the new conduits layout is in the scope of work, but not the pulling and installation of the new cables.

19. **QUESTION:** Is the existing DC system (DC Panel included) adequate to handle the additional load? Or, is a battery system study required?

ANSWER: DC is sufficient.

20. **QUESTION:** Are 3-D drawings involved/required?

ANSWER: No

21. **QUESTION:** Will SCMEU furnish a list of material, switches, connectors and such, it prefers to use or can the Engineer use the equipment he prefers?

ANSWER: Yes, we will provide a list of what we prefer to use.

22. **QUESTION:** What is the time frame for completing the engineering and for the substation construction phase?

ANSWER: The engineering needs to be done in calendar year 2019.

23. **QUESTION:** It was not made clear at the pre bid site visit, will SCMEU be able to furnish plan and profile drawings showing the existing substation layout and the structure plan and elevation detail drawings?

ANSWER: Please see the additional attachments provided with this addendum.



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24. **QUESTION:** Are there drawings showing the underground conduit, cable runs and other such underground equipment that will need to be avoided?
ANSWER: [Please see the attachment Sub 3 extension conduit conflict areas](#)
25. **QUESTION:** Will SCMEU be able to furnish typical procurement specifications and RFP documents pectinate to this project?
ANSWER: [RFP documents are not in the scope of this work. Only the technical specifications will be required. The City's procurement department will add the required legal specifications.](#)
26. **QUESTION:** Rerouting of outgoing feeders to new bus structure is not discussed in the Scope of Work. Confirm if this conduit work is to be included.
ANSWER: [It is the City's opinion that feeder conduits will remain where they are now, but if the design of the new structure requires them to be moved, the new conduit layout is to be included in the scope.](#)
27. **QUESTION:** Confirm if the City has drawings depicting existing buried equipment including conduits and duct banks
ANSWER: [The City will mark all underground conflict areas clearly. Also please refer to the pdf Sub 3 extension conduit conflict areas.](#)
28. **QUESTION:** Clarify what calculations the City expects to be performed and provided for review (e.g. foundations, bus support, lightning shielding, ground grid, any other electrical calculations)
ANSWER: [Whatever calculations are needed to design the new structure.](#)
29. **QUESTION:** How will conduit quantities and sizing be calculated? (i.e. will The City provide a cable schedule and wiring diagrams?) Without a detailed electrical package it will be difficult to accurately depict the sizing
ANSWER: [Yes, the city will provide a cable schedule to the winning bidder.](#)
30. **QUESTION:** Will an existing site survey or 3D model be available for use?
ANSWER: [No, if required, include acquiring this in the bid.](#)
31. **QUESTION:** Will electrical items such as switches, insulators and other details be provided by The City or others? Without doing a full electrical design of the station it may be a challenge for a civil/structural team to accurately make those selections.
ANSWER: [Yes, we will provide the switches, insulators and other details.](#)
32. **QUESTION:** Who is handling items such as protection scheme, control building modifications, lightning protection scheme, etc...?



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ANSWER: Lightning protection is in the scope of the structure design, all other protection and control building modifications will be done by the city.

33. **QUESTION:** Will soil resistivity measurements be available for ground grid design detail?

ANSWER: I am attaching the soil report called *Report - Electrical Substation No. 3* to this addendum. If more information is needed then what is in this report, please include acquiring it in the scope of the bid.

34. **QUESTION:** Will steel details be provided?

ANSWER: We can provide drawings of similar projects to the winning bidder, but we do not have steel plans for the existing substation structure, other than the pdf-s I added.

35. **QUESTION:** Will the existing conduit and ground plan be provided?

ANSWER: We will mark the existing conduits, but we do not have an existing ground grid plan.

File Attachments:

- Sub 3 Structure BOM
- CAD Layout
- Sub 3 Extension Conduit Conflict Areas
- Sub 3 Structure
- Report – Electrical Substation No. 3