

MEETING MINUTES**Joliet Junior College****KJWW #08.0447.00****February 12, 2009**

(Revised February 18, 2009)

MEETING DATE: February 09,2009

LOCATION: Joliet Junior College

PRESENT: Pat Van Duyne – Joliet Junior College
Rick Lyman – Joliet Junior College
Rich Rivera – Joliet Junior College
Rudy Wolf – Joliet Junior College
Dan Lantz – Joliet Junior College
Judy Mitchell - Joliet Junior College
Mark Karaskiewicz - Gilbane
Rick Wise – Gilbane Building Company
Dennis Wills – Gilbane Building Company
Scot Parker – Legat Architects
Jeff Sronkoski – Legat Architects
Steven Brubaker – Brubaker
Mike Fisher - dbHMS
George Karras – KJWW
Sandra Petranu-KJWW

ITEMS DISCUSSED:

During the weekly OACM meeting, KJWW presented the existing JJC medium voltage distribution configuration along with four options for connecting the new Campus Center into the medium voltage system while allowing expansion to future buildings. The existing emergency and stand-by distribution systems and several options were also presented. A narrative and three associated sketches were handed-out to the participants during the meeting. The following items were discussed:

1. Four options were presented to JJC for connection of the new Campus Center into the medium voltage distribution system, and re-feeding buildings A, B and T affected by the new construction.
 - a. Options 1 and 2 considered expanding the West ComEd service.
 - b. Options 3 and 4 considered utilizing the south ComEd service. Option 3 is proposing to utilize a sectionalizer and a radial feed to the buildings, while option 4 is utilizing a ComEd switchgear feeding into a loop system to the buildings.

JJC was not interested in option 1 and 2. JJC considered options 3 and 4 to feed the new Campus Center and re-feed buildings A, B and T from the south ComEd service, with spares for one (1) or two (2) future buildings. JJC preferred option 4, but wanted to better understand the cost difference between 3 and 4. KJWW was asked to provide a cost estimate for options 3 and



4. Consideration should be given to the existing ComEd service pole and future expansion or remodeling of the road that is close-by.
2. The current situation that metering is not installed around the campus to determine the current load demand was also discussed. Any required metering at the medium voltage distribution system level should be performed by a specialized contractor. JJC maintenance determined that temporary metering at the 480V distribution is not possible due to the quantity and size of the feeders. Because JJC preferred the options with the service coming from the south, and not the existing boiler house, metering of the existing sectionalizer is not necessary.
3. Emergency and Stand-by Systems were discussed next. These systems will be expanded to the new Campus Center with consideration for a future Nursing Building. Currently there are two spare conduits in the existing duct bank that runs from the Boiler House to the manholes located north of building C. This duct bank is also used to feed emergency and stand-by power to A, B and T buildings. The spare conduits should be utilized to pull new conductors to feed the emergency and stand-by power into the Campus Center from the existing generator and Emergency Distribution Panels located in the Boiler House.
 - a. JJC decided that the fire pump should not be connected to the generator since it is not a code requirement, and other fire pumps located on the campus are not connected either. Loads to be connected into the stand-by system include technology systems (servers, UPSs, special receptacles for racks or equipment), cooling for IT rooms, the smoke evacuation system, sump pumps, security system, freezers and elevators. KJWW will advise JJC on the maximum available power for stand-by loads. Loads required to be backed-up by the generator will have priority in case of stand-by power limitation. New feeders from the generator and the boiler house panels and equipment will have to be provided due to the loads JJC would want to connect to the stand-by power.
 - b. Consideration should be given to the existing stand-by power currently used for the Green House to be demolished. This is currently supplied from "Substation C" that will remain located under the new Campus Center. KJWW will evaluate if this stand-by power could be used for the Campus Center.
 - c. Loads to be connected to the Emergency System shall be comprised of life safety lighting (including bathrooms), fire alarm system and any other life safety loads. The service for the emergency system feeding buildings A, B and T should be kept separately and should not be expanded into the Campus Center.
 - d. The emergency and stand-by conduits for buildings A and B currently extending from the manhole located north of building C, routed on the canopy of building C to existing buildings A and B, will most likely be affected by the new Campus Center and should be rerouted. The emergency conduits should be encased in concrete or routed through fire rated spaces.

- e. JJC maintenance will verify that the existing generator designed for cogeneration and used for emergency is UL labeled and meets NFPA 101.
 - f. JJC was not interested in pursuing other options for emergency and stand-by power as presented in the narrative.
4. Current demand load should be determined by JJC on all the emergency and stand-by panels prior to connecting additional load.
 5. KJWW was asked to provide a cost estimate for emergency and stand-by system expansion.
 6. The AT&T fiber cables run through the campus from west to east and terminate in the main Telecom d-mark room located on the west side of the C building. These fiber cables are currently routed through the area where the new Campus Center will be located. JJC has indicated that they will engage AT&T and get budget cost of re-routing these fiber cables around the new Campus Center building. It has not been decided if the cost of this work, should be added to the Campus Center project, or be treated as an infrastructure cost to JJC.

Prepared by: George Karras and Sandra Petranu

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cc: Scot Parker, Legat Architects; George Karras, KJWW Engineering; Sandra L. Petranu, KJWW Engineering