

CITY OF BATAVIA

DATE: September 20, 2019
TO: Committee of The Whole - PU
FROM: Rahat Bari, City Engineer
SUBJECT: Resolution 19-101-R: Authorizing Task Order #12 with Power System Engineering Inc. (PSE) to design and bid a fiber/communications building at Paramount substation for an amount not-to-exceed \$30,000.00.

Background

In recent years, the City of Batavia Electric Department has experienced problems with the outdoor medium voltage switchgear buildings at Paramount Substation. As a result, the City is in the process of building a new distribution substation at Northeast Sub and rebuild the existing switchgear building at paramount substation.

Discussion

At the present time, the Paramount Substation Metal Switchgear Structure contains a major fiber optic node. There are seven cables entering and leaving the node. This node also houses active electronic communication equipment. In the early days of the fiber optic system, the majority use of this fiber was the electric department. Hence, it made sense to house the node within the electric facilities. Now that the fiber optic system is maturing, other users and services are being added to the system. Gradually, we have been separating the electric and fiber infrastructure. We have been doing this to take advantage of operational benefits of not have the fiber optic infrastructure installed in medium voltage electrical infrastructure. One example of operational benefits is that we don't always have to use medium voltage personnel to work on the fiber optic communication infrastructure, we can use communication rated personnel. Another benefit is to provide more space for both. Main Sub and Cherry Park Sub have the benefit of the separation of the two sets of infrastructures.

With the reconstruction of the Paramount Substation, it makes sense to now provide some separation of the two systems in this location. This will also aid in the staging and scheduling of the reconstruction. We will need to move the fiber optic node first. Then we can demolish and reconstruct the new facilities at the Paramount Substation site. There are many live circuits and services running through the Paramount Sub Fiber Optic Node and the move will have to be over night. The best way to do this and minimize the outage duration will be to have a new building equipped and ready, then have a move of the seven cables, electronics, circuits, and services in an overnight switch. Later, the electric reconstruction can move at its own pace without affecting the fiber optic system. The independence of both systems, after the construction is complete, will aid in the efficient operation of both.

Staff recommendations

The City has successfully worked with Power Systems Engineering Group on past projects including first phase of paramount substation rebuild, Carlisle, Colonial Village and the Fabyan/Western Transmission project. PSE has designed the new distribution substation at Northeast Substation which is currently under construction. As a result of that design, PSE has gathered data from the existing Paramount sub and very familiar with the rebuild site and existing equipments. Staff feels that there is a cost savings in awarding this design contract to PSE because of their familiarity with our system and intimate knowledge of the site. Staff finds that PSE is responsible and responsible consultants. Staff has developed a good working relationship with PSE

and feels comfortable recommending Resolution 19-101-R: Authorizing Task Order #12 with PSE Group to design and bid a fiber/communication building at Paramount substation for an amount not-to-exceed \$30,000.00.

Attachment- Task Order #12

**CITY OF BATAVIA, ILLINOIS
RESOLUTION 19-101-R**

**AUTHORIZING EXECUTION OF TASK ORDER #12 WITH POWER
SYSTEM ENGINEERING INC. (PSE) TO DESIGN AND BID A FIBER /
COMMUNICATION BUILDING AT PARAMOUNT SUBSTAION FOR AN
AMOUNT NOT TO EXCEED \$30,000.00**

WHEREAS, the City of Batavia owns and operates an Electric Utility and Fiber Communications; and

WHEREAS, in connection therewith, it is necessary and appropriate to improve the aging Infrastructure; and

WHEREAS, the City of Batavia has identified the need to build a separate fiber/communication building at Paramount Substation; and

WHEREAS, the City of Batavia has a Master Services Agreement with PSE for Electric Engineering Services; and

WHEREAS, PSE has submitted a proposal for professional engineering services related to design, and bid a communications building at Paramount substation, outlined and attached as Task Order #12; and

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and City Council of the City of Batavia, Kane and DuPage Counties, Illinois, as follows:

SECTION 1: That the Mayor and City Clerk are hereby authorized execute a Task Order #12, attached hereto as Exhibit A , with PSE Group, Professional Engineering Services related to design and bid a communications building at Paramount substation not to exceed \$30,000.00.

CITY OF BATAVIA, ILLINOIS RESOLUTION 19-101-R

PRESENTED to and **PASSED** by the City Council of the City of Batavia, Illinois, this 7th day of October, 2019.

APPROVED by me as Mayor of said City of Batavia, Illinois, this 7th day of October, 2019.

Jeffery D. Schielke, Mayor

Ward	Aldermen	Ayes	Nays	Absent	Abstain	Aldermen	Ayes	Nays	Absent	Abstain
1	O'Brien					Salvati				
2	Callahan					Wolff				
3	Meitzler					Chanzit				
4	Malay					Knopp				
5	Uher					Beck				
6	Cerone					Russotto				
7	McFadden					Miller				
Mayor Schielke										
VOTE:		Ayes	Nays	Absent	Abstentions					
Total holding office:		Mayor and 14 aldermen								

ATTEST:

Ellen Posledni, City Clerk

EXHIBIT "A"

TASK ORDER NO. 12

REGARDING GENERAL AGREEMENT BETWEEN CITY OF BATAVIA

AND

POWER SYSTEM ENGINEERING, INC.

Project Description: Design and bid a Fiber/Communications Building at Paramount Substation

Scope of Services: Design, and Bid a fiber/communication building at Paramount Substation

Time of Performance: June 30, 2020

Estimated Fee for Services: Not-to-Exceed \$30,000.00

Proposed: _____

Date

Approved:

City of Batavia

Date