

# CITY OF BATAVIA

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**DATE:** March 21, 2013  
**TO:** Public Utility Committee  
**FROM:** Robert Rogde, Superintendent of Electric  
**SUBJECT:** Resolution 13-43-R: Authorizing Work Order #12-001 with GS4 to Provide Engineering Services related to Fiber Optic Infrastructure

**Summary:** The City of Batavia Electric Utility has a back log of fiber optic work. Staff feels the most cost effective method for reducing the back log is to augment Staff with a firm familiar with this type of work. In November of 2012, the City entered in to a Master Services Agreement for this type of work. This first work order is to start finishing the construction of our system.

**Background:** G4S Technology was formally known to us as Adesta. The City of Batavia Electric Utility has worked with G4S previously and G4S has always done very good work for us.

The goals of this Work Order are to increase the capacity of our system in places where we need and to create the operational records required to efficiently maintain the system.

When the fiber optic system was installed, only a portion of the 96 fibers were spliced. We have experienced growth and there are segments of our system where all of the fibers spliced are used. We have some places in our system where we have run out of fibers that are spliced through. We are asking, in Work Order #12-001, for G4S to assist us with getting the remainder of the fibers spliced through where needed. G4s will be required to go through our construction records and investigate what splicing will need to be completed. There can be a few to several splice points that will need to be completed between patch panels. Once we open a splice, we complete the entire cable. We will have our crews perform as much of the splicing as we can to keep everyone proficient. There may be some splicing performed by G4S if needed.

We have good records and drawings from the construction of the system. The records needed to operate the system are lacking. To operate the system we need a record of circuits that are provisioned through the system and what parts are left un-provisioned for future use. These records are similar to "telephone system provisioning records" are not usually part of a construction set of drawings.

Here is a list of questions that are answered but provisioning records and not construction records.

1. What fibers are carrying active circuits in this cable and which are dark?
2. Do we have enough dark fibers to provision a new circuit from Point A to Point B?
3. We need to work on Cable C. Do we have dark fibers in Cable D that would work temporarily while we work on Cable C? Which circuits must be moved?
4. We have a broken fiber 6500 feet from Patch Panel Q. Is the break in a splice or mid-span?

5. Which cables are full and where do we need to reinforce the system?

I hope you can see from these examples how the operational records are different from the construction plans. These operational records are one of the tasks where we would like to draw on G4S's experience to build. We feel the record systems that they have created for other and have used themselves will be replicated here very cost effectively.

We feel the mix of G4S's experience and our crews help will build a strong foundation for system.

**Staff recommendation:**

- Recommend Public Utilities Committee and City Council approve Resolution 13-43-R to authorize execution of Work Order #12-001 with G4S Technology LLC for a not to exceed amount of \$ 18,682.08.

**CITY OF BATAVIA, ILLINOIS  
RESOLUTION 13-43-R**

**AUTHORIZING EXECUTION OF WORK ORDER #12-001 WITH G4S  
TECHNOLOGY LLC**

**WHEREAS**, the City of Batavia owns and operates a fiber optic utility; and

**WHEREAS**, in connection therewith, it is necessary and appropriate to retain professional engineering services for the preparation of plans to upgrade and improve the fiber optic system; and

**WHEREAS**, the City of Batavia has executed a Master Services Agreement with G4S Technology LLC for Professional Engineering Services; and

**WHEREAS**, G4S Technology LLC has the appropriate expertise and experience necessary to provide the professional engineering services for the fiber optic system; and

**WHEREAS**, Work Order #1 of the Master Services Agreement shall be for the professional engineering services for coordinating splicing and updating as-built records; and

**WHEREAS**, G4S Technology LLC has the appropriate expertise and experience necessary to provide the professional engineering services for coordinating splicing and updating as-built records and has submitted a proposal for said services which is fair and reasonable; and

**WHEREAS**, the estimated total cost of said engineering services is \$ 18,682.08; and

**WHEREAS**, funding for said professional engineering services is available in the 2013 City of Batavia Electric Utility budget.

**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 to execute a Work Order #12-001 attached hereto as Exhibit 1 for professional services related to expanding and improving the fiber optic system with G4S Technology LLC.

CITY OF BATAVIA, ILLINOIS RESOLUTION 13-43-R

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**PRESENTED** to and **PASSED** by the City Council of the City of Batavia, Illinois, this 1st day of April, 2013.

**APPROVED** by me as Mayor of said City of Batavia, Illinois, this 1st day of April, 2013.

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Jeffery D. Schielke, Mayor

Ward	Aldermen	Ayes	Nays	Absent	Abstain	Aldermen	Ayes	Nays	Absent	Abstain
1	O'Brien					Sparks				
2	Dietz					Wolff				
3	Jungles					Chanzit				
4	Volk					Stark				
5	Frydendall					Thelin Atac				
6	Liva					Clark				
7	Tenuta					Brown				
Mayor Schielke										
<b>VOTE:</b>		Ayes	Nays	Absent	Abstentions					
Total holding office:		Mayor and 14 aldermen								

ATTEST:

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Heidi Wetzell, City Clerk

# G4S Technology, LLC

City of Batavia  
Splicing Coordination and As-built Update  
System Wide  
Work Order 12-001  
December 7, 2012

### SCOPE OF WORK:

The following quote involves the estimated labor to coordinate the remaining splicing on the Batavia Fiber System and to update the as-built records.

### The quote assumes the following:

1. Splicing will be completed by the City of Batavia crews
2. Actual hours will be invoiced based on MSA rates
3. A bond is not included in this quote.

### PRICING:

Description	Quantity
Labor and Equipment	\$ 18,682.08
Materials	\$ -
<b>Not To Exceed Cost</b>	<b>\$ 18,682.08</b>

### ACCEPTANCE:

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

	<b>City of Batavia</b>
Description:	<b>As-built and splicing</b>
Location:	<b>System Wide</b>
Work Order:	<b>12-001</b>
Date Updated:	<b>12/7/12</b>

Position	Unit	Hourly Rate	Quantity	Cost
<b>Fiber Optic Maintenance and Management</b>				
Project Manager	HR	\$ 105.00	8	\$ 840.00
Project Superintendent	HR	\$ 90.00	4	\$ 360.00
Superintendent	HR	\$ 85.00	8	\$ 680.00
General Foreman	HR	\$ 100.00	4	\$ 400.00
OSP Inspector	HR	\$ 172.56	80	\$ 13,804.80
CADD Technician	HR	\$ 94.72	24	\$ 2,273.28
Pick Up Truck	HR	\$ 13.50	24	\$ 324.00
<b>Total Labor and Equipment Cost</b>				<b>\$ 18,682.08</b>

	Unit	Quantity	Waste	Total	Unit Rate	Cost
<b>Material and permits</b>						
				-		\$ -
				-		\$ -
Shipping - 2.5% of Total Material Cost	LS		-	-	\$ -	\$ -
<b>Sub Total</b>						<b>\$ -</b>
<b>Sales Tax</b>						<b>\$ -</b>
<b>Material Markup @ 15%</b>						<b>\$ -</b>
<b>Material Total</b>						<b>\$ -</b>

<b>Total Cost</b>	<b>\$ 18,682.08</b>
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