

June 10, 2015

Ms. Sheila Alles
Director of Academic Services
Livonia Public Schools
15125 Farmington Rd.
Livonia, MI 48154

Subject: 2013 Bond Program: Technology Award

Dear Ms. Alles:

On March 30, 2015 the Board of Education awarded Sentinel Technologies Inc, a contract for the amount of \$52,054 for the preliminary work related to the data server and storage solution. The bid and contract established a discount structure off list price for the purchase of the server and storage equipment at a later date.

After several meetings with district technology staff and Sentinel to discuss various approaches and equipment, a final solution is being recommended by the project team. This solution includes hardware for servers and storage, licensing for five years, and a secondary data recovery system to be located at one of the high schools.

The total cost for the recommended solution is \$1,072,225 which includes a 10% contingency. This is a savings of \$248,421 from the original \$1,372,700 bond budget which included a 6% contingency for servers and storage.

The recommended purchase through Sentinel Technologies, Inc. for servers, storage, licensing and secondary data recovery system is \$974,750. However, with a requested 10% contingency the recommended total is \$1,072,225.

If you have any questions, please call me at (810) 343-2042.

Sincerely,



Robert W. Greager
Project Manager
Barton Malow, Technology Services

INFORMATION /TECHNOLOGY - BUDGET SUMMARY**Data Servers and Storage Equipment**

	Equipment		
Building	Budget	Actual	Variance
27:3 Servers and Storage	1,295,000	974,750	320,250
Totals	1,295,000	974,750	320,250

	Contingency		
Building	Budget	Actual	Variance
27:3 Servers and Storage	77,700	97,475	-19,775
Totals	77,700	97,475	-19,775

	Total Project Costs		
Building	Budget	Actual	Variance
27:3 Servers and Storage	1,372,700	1,072,225	300,475
Totals	1,372,700	1,072,225	300,475
Amount Previously Approved			52,054
Final Budget Variance			248,421

Hardware and Software		
	Included Components for Data Center	Components Needed for Data Center
EMC Storage VNX 5600 - Full Solution for Video, Data Center, & UC Voice - 640 TB Total	\$ 290,432.00	Core SAN, Data Center 50TB, Voice Storage
Primary Site Vmware Licensing - 22 CPU + vCenter with 5 Yrs SNS	\$ 54,898.00	Vmware for Data Center
Veeam backup software for 8 CPUs - Data Center	\$ 16,664.00	Data Center Backup
Cisco VSOM & UCS Solution	\$ 188,029.00	Chassis, FI's, Blades
EMC Data Domain DD2500 - 49 TB - 5 Years	\$ 84,541.00	DR Site Backup
Seed Unit for Call Box & Video Phone		
DR Site Vmware Licensing - 4 CPU's	\$ 8,384.00	DR Site Backup
Hardware and Software Total	\$ 642,948.00	
Original Video Surveillance Services in Bid	\$ 275,882.52	Centralized Server/SAN Setup & Configuration
Server & SAN Design, Core Implementation, Backup Solution Implementation	\$ 47,322.24	Data Center Design, Install, Config
Migration Services		
Shipping	\$ 2,800.00	
Performance Bond (.006 HW,SW, Services)	\$ 5,796.92	
Project Total	\$ 974,749.68	

KEN CONRAD

Solutions Architect

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