

**AGENDA ITEM
May 20, 2014**

Subject: Bid for Network Equipment – Switches

Department: IT

The City's current network infrastructure is sustained by several 3Com 5500G switches which were discontinued in 2009 when HP purchased the company. To maintain network security, scalability, reliability, performance, and availability of application and services a complete network rebuild is required.

Over the past year the IT department interviewed several enterprise-class solutions to improve overall network performance and to meet the expanding future mobile and fixed data demands.

All switch vendors were evaluated using a Data-Driven Decision-Making model to confirm which equipment offered a lower Total Cost of Ownership (TCO). The Juniper brand scored highest in the assessment. (see attached page 2)

Eleven (11) 3Com switches will be replaced with Layer 3, POE+, 48 Port, 10G link Juniper switches. Four (4) will be located in the new Public Safety Server Room and the remaining seven (7) will be installed at various department buildings.

Six vendors submitted bids:

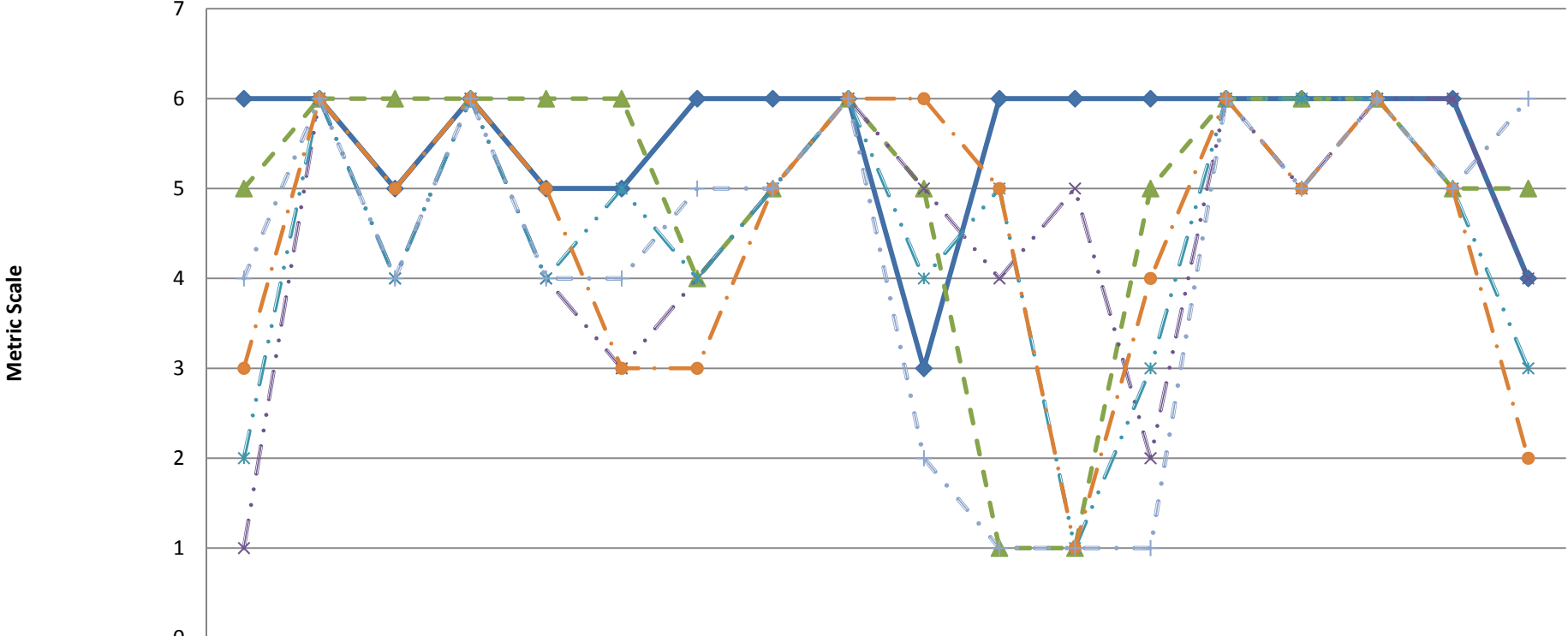
Missouri Telecom, Monett, MO - Juniper	\$48,910.25
CDWG - Brocade	\$74,720.88
C & C Group, Lenexa, KS - Extreme*	\$68,000.00
SMC, Joplin, MO - Alcatel-Lucent	\$46,780.69
Dell, Austin TX - Dell	\$90,502.10
Graybar, Springfield, MO - Allied Telesis	\$117,366.07

Lowest and best bidder is Missouri Telecom, Monett, MO in the amount of \$48,910.25.

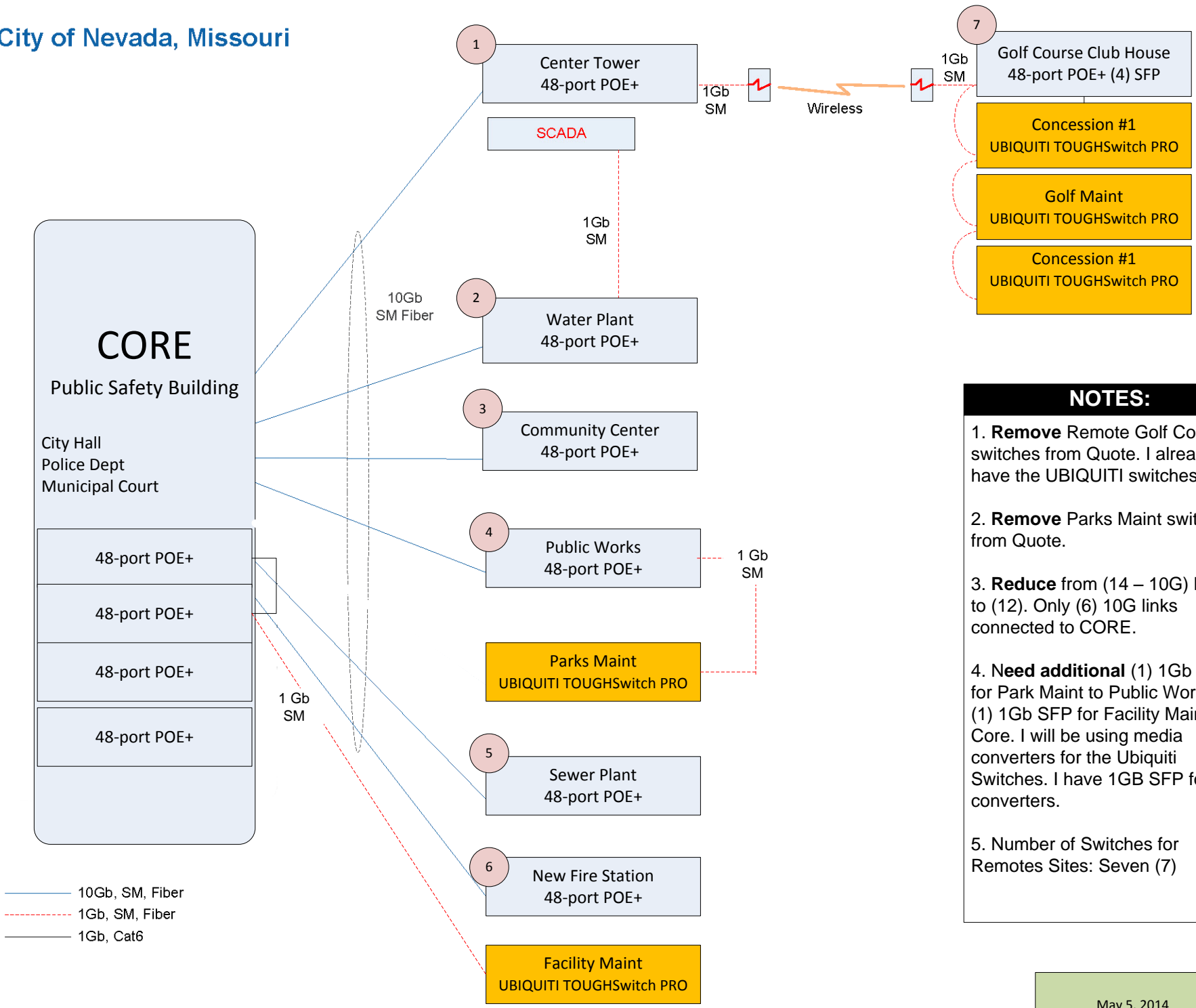
This equipment is an approved budget line item: Computer Equipment & Software (100-5-1420-321).

*quote not itemized as requested. Includes a 4600 NSA Sonicwall with UTM.

Switch Comparison



	Brand	Copper Ports	Fiber Ports	POE+ Ports	10G Ports	Power Supply (W)	POE Budget	Warren ty	Backpl ane (Gbps)	Weight (Kg)	Dram (GB)	CPU	Wiresp eed Gbps	Vlans	Hot-swap PW	Web Interfa ce	Dhcp Server	Noise dBA	
◆—	Mo-Telecom	6	6	5	6	5	5	6	6	6	3	6	6	6	6	6	6	4	
▲—	CDWG	5	6	6	6	6	4	5	6	5	1	1	5	6	6	6	5	5	
×—	Graybar	1	6	4	6	4	3	4	5	6	5	4	5	2	6	5	6	6	4
*—	Dell	2	6	4	6	4	5	4	5	6	4	5	1	3	6	6	6	5	3
●—	C&C Group	3	6	5	6	5	3	3	5	6	6	5	1	4	6	5	6	5	2
+—	SMC	4	6	4	6	4	4	5	5	6	2	1	1	1	6	5	6	5	6



NOTES:

- Remove** Remote Golf Course switches from Quote. I already have the UBIQUITI switches.
- Remove** Parks Maint switch from Quote.
- Reduce** from (14 – 10G) links to (12). Only (6) 10G links connected to CORE.
- Need additional** (1) 1Gb SFP for Park Maint to Public Works & (1) 1Gb SFP for Facility Maint to Core. I will be using media converters for the Ubiquiti Switches. I have 1GB SFP for converters.
- Number of Switches for Remotes Sites: Seven (7)