



EVENT # 5069

STORAGE AREA NETWORK

SPECIFICATIONS AND SPECIAL CONDITIONS

SECTION 4

- 4.0 **Description of Project:** The purpose of these specifications is to describe the requirements for a Storage Area Network comprised of the following: one high performance all flash array with dual-controllers, one all flash expansion shelf, and one hybrid expansion shelf capable of inline de-duplication and compression. Additionally, the solution should be capable of replication to dissimilar arrays.

To submit pricing electronically for this event, enter pricing for each line item shown under the lines tab on the event summary. To enter pricing manually, complete the attached bid proposal form. Manually submitted bids must be submitted on the bid proposal form included herein.

A pre-bid conference has been scheduled to be conducted at the Purchasing Office, City Hall, third floor, 2 East Bay Street, Savannah, Georgia 31401. This meeting will allow contractors to discuss the specifications and resolve any questions and/or misunderstandings that may arise with City staff. You are invited to attend.

4.1 **Specific Requirements**

- 4.1.1 SAN storage appliances must be scalable and expandable to meet the anticipated data growth of the City of Savannah for at least five (5) years without having to replace the system.
- 4.1.2 Shall provide five 9s availability (99.999%).
- 4.1.3 Shall not have any single point of failure.
- 4.1.4 Transmission of status information to the provider's service center for proactive problem resolution is desired.
- 4.1.5 Serviceable devices should be hot swappable or be able to be replaced without discontinuing services to users.
- 4.1.6 Tiered storage is desired with the first tier being solid state drives. Must be able to migrate data from one RAID type or set of drives to another without impacting applications within the same system.

- 4.1.7 Shall provide automatic monitoring of disk drive health and initiate a proactive background drive rebuild on failing drives.
- 4.1.8 Shall provide automated alerts (email, text messaging, etc.) for specific qualifying conditions (hardware health issues, potential failures, etc.).
- 4.1.9 Shall be capable of creating multiple system-wide recovery points.
- 4.1.10 Shall keep write caches persistent during fault conditions to prevent data loss.
- 4.1.11 Shall provide multiple levels of access control including role-based security and auditing capabilities.
- 4.1.12 Shall support both block (FC, iSCSI) and file (NFS, CIFS, SMB 3.0) protocols to future-proof host connectivity options.
- 4.1.13 Shall provide asynchronous data replication between the primary site and DR site.
- 4.1.14 Shall be able to provide additional connectivity to meet existing or future technology needs.
- 4.1.15 Shall have snapshot capabilities for offsite backup.
- 4.1.16 Shall provide upgrade path to larger or future array controller and software technology while maintaining existing investment.
- 4.1.17 Shall commit cache to disk before shutting down if there is an unforeseen total power outage.
- 4.1.18 Shall support major virtualization technologies like VMware and Hyper-V.
- 4.1.19 VMware integration with ability to manage the storage array from vSphere is desirable.
- 4.1.20 All necessary software licensing should be included in the purchase price with no additional subscription fees.
- 4.1.21 Shall support data reduction technologies like inline compression and deduplication, without significant performance impact.
- 4.1.22 Proposed solution must provide an option for intelligent provisioning so that physical disk space assigned to a LUN is automatically increased whenever a server's logical volume begins to fill up without over-subscribing a volume
- 4.1.23 Software shall provide mechanisms for alerting both City of Savannah's Information Technology Department staff and the storage vendor to critical alerts when possible

hardware failure is detected, drive failures, LUNs reaching capacity, power supply failures, and any other event which might cause interruption or degradation of service.

4.2 The successful vendor shall provide on-site training for up to four (4) City staff members.

4.3 The successful vendor shall provide installation services for all equipment.

5.0 **General Specifications**

5.1 The bid response must include the following documents in this order:

- Bid Proposal Form
- Non-Discrimination Statement
- Proposed Schedule of MWBE Participation
- Other requested submittals as stated

All referenced documents must be completed and returned in their entirety to constitute a complete bid.

5.2 Original invoices should be sent to:

City of Savannah
P.O. Box 1027
Savannah, GA 31402

5.3 Bidder is responsible for determining and acknowledging any addenda issued in connection with this bid solicitation. All addenda issued in connection with this event must be acknowledged in order for a bidder's response to be considered.

5.4 To be awarded bids, vendors must be registered as suppliers on the City of Savannah's website at www.savannahga.gov.

5.5 This bid will be awarded to the vendor offering the lowest net price to the City, and meeting or exceeding all specifications herein.

EXCEPTION SHEET

Event # 5069

If the commodity(s) and/or services proposed in the response to this bid is in anyway different from that contained in this proposal or bid, the bidder is responsible to clearly identify by specification section number, all such differences in the space provided below. Otherwise, it will be assumed that bidder's offer is in total compliance with all aspects of the proposal or bid.

Below are the exceptions to the stated specifications:

Date

Signature_____

Company_____

Title_____

BID PROPOSAL FORM
(SUBMIT AS THE COVER SHEET)

City of Savannah Purchasing Department
3rd Floor, City Hall
P. O. Box 1027
Savannah, Georgia 31402
ATTN: Purchasing Director

EVENT NUMBER: 5069
Business Location: (Check One)
 Chatham County
 City of Savannah
 Other

ALL BIDDERS MUST BE REGISTERED VENDORS ON THE CITY'S WEBSITE TO BE AWARDED AN EVENT. PLEASE REGISTER AT WWW.SAVANNAHGA.GOV.

BIDS MUST BE SUBMITTED ON THIS BID PROPOSAL FORM IN ORDER TO BE CONSIDERED.

Name of Bidder: _____

Street Address: _____

City, State, Zip Code: _____

Phone: _____ Fax: _____

Email: _____

DO YOU HAVE A BUSINESS TAX CERTIFICATE ISSUED IN THE STATE OF GEORGIA?
(CHECK ONE) YES: _____ NO: _____

FROM WHAT CITY/COUNTY _____

TAX CERTIFICATE #: _____ FED TAX ID #: _____

INDICATE LEGAL FORM OF OWNERSHIP OF BIDDER (STATISTICAL PURPOSES ONLY): CHECK ONE:
 CORPORATION PARTNERSHIP
 INDIVIDUAL OTHER
(SPECIFY: _____)

INDICATE OWNERSHIP STATUS OF BIDDER (CHECK ONE):

NON-MINORITY OWNED ASIAN AMERICAN
 AFRICAN AMERICAN AMERICAN INDIAN
 HISPANIC OTHER MINORITY (describe)
 WOMAN (non-minority) _____

Do you plan to subcontract any portion of this project? Yes _____ No _____

If yes, please complete the attached schedule of M/WBE participation. Also complete the schedule if you will be using any M/WBE suppliers.

THE UNDERSIGNED PROPOSES TO FURNISH THE FOLLOWING ITEMS IN STRICT CONFORMANCE TO THE BID SPECIFICATIONS AND BID INVITATION ISSUED BY

**THE CITY OF SAVANNAH FOR THIS BID. ANY EXCEPTIONS ARE CLEARLY MARKED
IN THE ATTACHED COPY OF BID SPECIFICATIONS**

ITEM NO.	ITEM, SERVICE LEVEL	ESTIMATED QUANTITIES	TOTAL
1.	Tegile T4860 Hybrid Flash Configuration w/ approximately 60% usable All-Flash capacity; Raw Capacity: 122 TB; IntelliFlash OS Software License, which includes: - Intelligent caching - Block and file protocols - Inline deduplication and compression - Space efficient snapshots and clones - WAN optimized replication and data encryption.	1	
2.	Tegile HE-50 Expansion Shelf (6TB SSD, 52TB HDD in 3U)	2	
3.	Quad Port 10Gbps Ethernet SFP+ NIC	2	
4.	Tegile IntelliCare 3 Year Premier Support for T4860 (Onsite parts, 7 * 24 call support, 4 hour onsite parts replacement, health checks, reviews)	1	
5.	Tegile IntelliCare 3 Year Premier Support for HE-50 (Onsite parts, 7 * 24 call support, 4 hour onsite parts replacement, health checks, reviews)	2	
6.	Installation	1	
7.	Onsite training for up to 4 individuals.	1	
8.	Shipping cost for all items explained if needed.	1	

TOTAL BID \$ _____

PAYMENT TERMS: PLEASE CHECK ONE AND FILL IN BLANKS

(Minimum of 10 working days must be allowed
for discount to be considered in bid award)

___ Less ___ % ___ Days Prompt Payment Discount (if offered) (_____)

___ Net - 30 Days (no discount offered) - 0 -

TOTAL NET BID \$
=====

TIME REQUIRED FOR DELIVERY AFTER RECEIPT OF ORDER: _____ DAYS

CONFIRM RECEIPT OF ANY ADDENDA ISSUED FOR THIS BID:

ADDENDUM _____ #

DATE _____

I certify this bid complies with the General and Specific Specifications and Conditions issued by the City except as clearly marked in the attached copy.

Please Print Name

Authorization Signature

Date

NON-DISCRIMINATION STATEMENT

The prime contractor / bidder certifies that:

- (1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin, or gender in connection with any bid submitted to the City of Savannah or the performance of any contract resulting therefrom;
- (2) That it is and shall be the policy of this Company to provide equal opportunity to all business persons seeking to contract or otherwise interested in contracting with this Company, including those companies owned and controlled by racial minorities, cultural minorities, and women;
- (3) In connection herewith, we acknowledge and warrant that this Company has been made aware of, understands and agrees to take affirmative action to provide such companies with the maximum practicable opportunities to do business with this Company;
- (4) That this promise of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption;
- (5) That the promises of non-discrimination as made and set forth herein shall be and are hereby deemed to be made as part of and incorporated by reference into any contract or portion thereof which this Company may hereafter obtain and;
- (6) That the failure of this Company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the City of Savannah to declare the contract in default and to exercise any and all applicable rights and remedies including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and or forfeiture of compensation due and owing on a contract.

Signature

Title

PROPOSED SCHEDULE OF M/WBE PARTICIPATION

All M/WBEs listed **must be certified as a minority-owned or women-owned business** by the City of Savannah or a federally-recognized or state-level certifying agency (such as USDOT, State DOT, SBA 8(a) or GMSDC) that utilizes certification standards comparable to the City of Savannah **prior** to the due date of this bid. **Other business certifications that do not specify majority woman or minority ownership may not be substituted.** **Proof of M/WBE certification from the certifying agency is required to accompany the bid.** A firm that has submitted an application for M/WBE certification but has not been certified is not qualified as a certified M/WBE and will not be recognized as such during the City's evaluation process. To expedite verification, please provide accurate phone numbers for all M/WBEs listed and ensure firms understand contact will be made following bid submittal.

Name of Proposer: _____ Event No. 5069

Project Title: _____

NOTE: Unless certified through the City of Savannah M/WBE Program, proof of M/WBE certification must be attached for all firms listed.

Name of M/WBE Participant	Name of Majority Owner	Telephone	Address (City, State)	Type of Work Sub-Contracted	Estimated Sub-contract Value	MBE or WBE	Certified? (Y or N)	Certifying Agency? (City of Sav. or Other)
					%			
					%			
					%			
					%			
					%			
					%			

MBE Participation Value: _____ % WBE Participation Value: _____ % M/WBE Participation Value: _____ %

The undersigned will enter into a formal agreement with the M/WBE Subcontractors/Proposers identified herein for work listed in this schedule, conditioned upon executing a contract with the Mayor and Aldermen of the City of Savannah. The Prime's subcontractor that subcontracts work must enter into a formal agreement with the tier subcontractor identified herein for work listed in this schedule. The Prime may count toward the goal any tier of M/WBE subcontractors and/or suppliers that will be utilized in the contract work. However, when an M/WBE subcontracts part of the work, the value of the subcontracted work may **only** be counted toward the goal **if the tier subcontractor is an M/WBE**. Any work an M/WBE firm subcontracts to a non-M/WBE firm **will not count toward the M/WBE goal**. It is the responsibility of the Prime contractor to advise all M/WBEs of this requirement and to ensure compliance by subcontractors.

Joint Venture Disclosure

If the prime bidder is a joint venture, please describe the nature of the joint venture, the level of work and the financial participation to be provided by the Minority/Female joint venture firm in the space provided below.

Joint Venture Firms	Level of Work	Financial Participation

Printed name (company officer or representative): _____

Signature: _____

Date: _____

Title: _____

Email: _____

Telephone: _____

Fax: _____

The Minority/Women Owned Business Office is available to assist with identifying certified M/WBEs. Please contact the M/WBE Office at (912) 652-3582. The City of Savannah's certified M/WBE registry is posted on its website @ www.savannahga.gov.

Developing a Strong M/WBE Participation Plan

Key facts every bidder/proposer needs to know prior to developing their M/WBE Participation Plan:

1. All bidders/proposers must submit a "Proposed Schedule of M/WBE Participation" which identifies the minority and/or woman-owned companies that have agreed to participate in the project if awarded. All companies listed on the form must be certified as either minority-owned and controlled or woman-owned and controlled. The City does not accept a company's "self-identification" as minority or woman-owned.
2. **Proof** of M/WBE certification from the certifying agency is required to accompany the bid; and certification must have been completed by the City of Savannah, a federally-recognized or a state-level certifying agency (USDOT, State DOT, SBA 8(a) or GMSDC) utilizing certification standards comparable to the City of Savannah.
3. The certification must have been approved prior to the due date of this bid. A firm that has submitted an application for certification but has not been certified will not be counted toward the M/WBE goal.
4. The M/WBE Office **will be contacting all M/WBE firms** included in the bidder's M/WBE Plan to confirm each: a) was contacted by the bidder/proposer; b) performs the type of work listed; and c) agreed to participate.
5. To expedite the verification process, bidders/proposers need to: provide accurate phone numbers for all M/WBEs listed; ensure M/WBEs know to expect to be contacted by phone and email; request M/WBEs be accessible during the critical period before bid-opening; and advise M/WBEs that City staff **must** receive the M/WBE's confirmation that the firm agreed to participate in the bid/proposal in order for the prime contractor to receive credit toward their proposed M/WBE participation goals.
6. If a proposed M/WBE cannot be confirmed as certified, performing the type of work described or agreeing to participate, the bidder/proposer will be notified and given a pre-determined period to submit a correction. If an M/WBE still cannot be confirmed or replaced, the proposed percentage of participation associated with the unverified M/WBE firm will **not be counted** and **will be deducted** from the overall proposed M/WBE goal.
7. Any tier of M/WBE subcontractors or suppliers that will be utilized in the contract work may count toward the MBE and WBE goal **as long as the tier subcontractors/suppliers are certified M/WBEs**. Work that an M/WBE subcontracts to a non-M/WBE firm does **not** count toward the M/WBE goal.
8. M/WBEs must perform a "**commercially useful function**" which is the provision of **real and actual work or products**, or performing a distinct element of work for which the business has the skills, qualifications and expertise, and the responsibility for the actual management and supervision of the work contracted.
9. Per the *Proposed Schedule of M/WBE Participation* "the undersigned (bidder/proposer) will enter into a formal agreement with the M/WBE Subcontractors/Proposers identified herein for work listed in this schedule, conditioned upon executing a contract with the Mayor and Aldermen of the City of Savannah." **This signed commitment is taken seriously by the City**, so do not list M/WBEs you do not plan to utilize. Any proposed changes must be pre-approved by the M/WBE Office, be based on legitimate business-related reasons, and still meet the M/WBE participation goals per the City's contract.
10. A bidder who is a certified M/WBE may count toward the goal the portion of work or services on a City contract that is actually performed by the M/WBE, including: the cost of supplies/materials purchased or equipment leased for contract work, fees for bona fide services such as professional or technical services, or for providing bonds or insurance specifically required for the performance of a City contract.
11. If awarded the contract, the MWBE Office **will be reviewing your company's subcontracts, invoices and payment records** to substantiate the completion of work and payment of M/WBEs. If the prime contractor is an M/WBE that is being included in its M/WBE goal, the prime contractor must maintain records **that will be inspected** to prove the portion of work performed, cost of work, and payments to the prime company.
12. Most bids for goods and materials do not have specific MWBE goals established for the contract. If no goals are include in the scope of work or General Specifications, you are not required to submit MWBE participation but encouraged to do so when the opportunity is available. The City maintains this information for statistical purposes only and it is not reflected in the award decision.