

WSP Datacenter Refresh - Server/Storage/Infrastructure/DR



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Date: **February 3, 2020**
Member: **City of West St Paul**
Prepared By: **Brent Rebisckhe**

SAN / Storage Purchase:		
Option 2: Synology - 30TB all SSD - City Hall (100tb CACHE)		\$13,500.00
Option 2: Synology - 30TB all SSD - Public Works		\$13,500.00
(5 years hardware/software maintenance costs are included)		
need to assess disk based backups		
Server Purchase:		
Dell PowerEdge R6415 w/ 256GB Memory. No HDD. AMD 7282 proc		\$5,500.00
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(5 years hardware/software maintenance costs are included)		
Infrastructure Replacement Project:		
City Hall: no need to upgrade at this time		
Public Works: no need to upgrade at this time		
need to assess site to site redundancy and speed		
Cables:		
TwinAx- Active Optical Cables (16 x 30' for City Hall)	\$	970.20
TwinAx Active Optical Cables (16 x 21' for Public Works)	\$	970.20
VMWare Software Purchase:		
VMWare - 3 vSphere standard licenses already owned - no more licenses are needed		
	\$	-
	\$	-
Windows Software Purchase:		
either 2 x datacenters - or purchase SA on individual Windows OS's		xxxxxxx
Exchange not assessed		
SQL not assessed		
User calcs not assessed		
Backup and Recovery Solution:		
Current election is to stay with VEEAM		
Estimated Labor		
See Est Labor Costs tab for details		\$15,000.00
Note: Windows refreshes are not included		
Server Hosting Estimates		
Description	2020	2021 and on
8 Hosted Servers with 4TB of storage	\$ 10,000.00	\$ 14,400.00
10 Hosted Servers with 5TB of storage	\$ 10,000.00	\$ 18,000.00
12 Hosted Servers with 6TB of storage	\$ 10,000.00	\$ 21,600.00
Backup Hosting Estimates		
Description	2020	2021 and on
8 Hosted Servers with 4TB of storage	\$ 5,000.00	\$ 8,560.00
10 Hosted Servers with 5TB of storage	\$ 5,000.00	\$ 10,700.00
12 Hosted Servers with 6TB of storage	\$ 5,000.00	\$ 12,840.00
* Our Current Storage is 19TB of data		
Total Cost		\$54,940.40
better disaster recovery-rebuild of prem servers	Windows software	\$30,000.00
Costs more in a five year projection	Five years of annual maintenance fees	\$172,200.00
	Hardware on Premise-estimate	\$50,000.00
	Total Five year budget	\$307,140.40