Project Name: Building Safety Security Camera Replacement Project ID: D52110SC

Leadership Group: Finance/Admin										
Department: Emergency Management	nt	Division: Ho	omeland Security/E	Emergency						
Project Sponsor: Thom Hardesty	Date Reques	sted: 3/7/22	PM Custom	ner No. 110						
Request Type: New Development										
IT Team Name: Public and Environm	ental Services	IT Team No:	5							
Project Manager/Leader: Stu Smith										
Account 95011 Account Descriptio	0	cy Management	Customer Name:	Emergency Management						
Grant Funded? Yes <u>N</u>	 -	Mandate? Yes Mandate Source:	No XX							

Project Goal

To implement a new building security camera system so that there is improved system stability, additional redundancy, and a better user experience.

Business Objective

The main business objective of the Building Safety Security Camera Replacement Project is to review the existing system, establish required needs and retention, and solution a replacement camera option that will meet the needs of the increased security concerns of the county.

Major Deliverables

- Detailed Project Plan
- Implementation Plan
- Application and/or System Requirements
- Technical Architecture Diagram(s)
- User Acceptance Test Plan
- Disaster Recovery Toolkit
- Service Level Agreement
- Service Center Knowledge Documents
- Training/User Manuals

Approach

- Develop Detailed Project Plan
- Document system requirements
- Determine and document system architecture and diagram
- Develop and distribute RFP to potential vendors
- Conduct vendor demos and complete vendor selection via RFP Scoring Matrix
- Conduct contract negotiations with selected vendor
- Assess User Hardware and Software Requirements

Project Name: Building Safety Security Camera Replacement Project ID: D52110SC

- Conduct Tech Review
- Order hardware and software if needed
- Develop Implementation Plan
- Develop new system
- Develop User Acceptance Test Plan
- Test new system
- Acquire User Acceptance Sign off
- Conduct Change Control
- Develop User Documentation, SLA, Disaster Recovery Toolkit, Service Center Knowledge Documents
- Train users on new system
- Release new system into production

Research & Analysis

Research Recommendation

Benefits

See Return on Investment (ROI) Analysis Document

<u>Impact</u>

Number of Users 25+

Divisions Homeland Security/Emergency Management

Leadership Groups Finance/Admin

Risk

Business Environment Medium – Project will require some changes to existing business

processes.

Technical Environment Medium – Previously implemented technologies with new aspects

and/or new requirements.

Project Name: Building Safety Security Camera Replacement Project ID: D52110SC

Assumptions

Staffing

IT Staffing: resources will be available for the hours indicated per the attached project plan.

Other Staffing: additional staffing will be available as follows:

Role:	<u>Name</u>	Hours per Day
Sponsor	Thomas Hardesty	As Needed
Business Lead	Rob Seeley	As Needed
Subject Matter Expert	Tracey McGee	As Needed

Facilities

•

Technical

Interaction between OCIT Network/Telecom Teams and Homeland Security.

Funding

• Information Technology/Grants

Other

Priority TBD

Constraints

Exclusions

Project Name: Building Safety Security Camera Replacement Project ID: D52110SC

PROJECT PHASE AUTHORIZATION

Phase(s): All				
Total Estimated Application Services	Hours: 1,856			
Total Estimated Technical Systems				
Total Estimated CLEMIS				
Total Estimated Internal Services				
IT Application Services Division Manager Approva		Date:		
IT Technical Systems Division Manager Approval:	Date:			
IT CLEMIS Division Manager Approval:			Date:	
IT Internal Services Division Manager Approval:			Date:	
IT Management Approval:				
Approved:	Yes	No	Date:	
Reason:				
Project Sponsor Approval:				
Title:	_		Date:	

PROJECT SUMMARY

Authorized Development (see above)	Hours: 3,363	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 3,363	Cost: \$554,895

Project Name: Building Safety Security Camera Replacement Project ID: D52110SC

PROJECT COMPLETION AUTHORIZATION

Customer Acceptance of Product:							
Title:	Date:						
Project Office Review:	Date:						

Building Safety Security Camera Replacement Project - Size Estimate (+/- 10% to 50%)

	Туре	ID	Task Name	Estimated Hours	Estimate Notes
1	Phase	000000	■ PROJECT MANAGEMENT	716	
2	Phase	200000	■ DEFINE BUSINESS REQUIREMENTS	704	
3	Phase	300000	■ DESIGN SYSTEM ARCHITECTURE	275	
4	Phase	500000	■ DEVELOP APPLICATION	1,223	
5	Phase	600000	■ IMPLEMENTATION PHASE	358	
6	Phase	800000	■ POST IMPLEMENTATION SUPPORT	87	
7					
1				3,363	

As Of: 5/28/22

Return on Investment Analysis

Project Summary

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Benefits/Savings:							
Tangible Benefits Subtotal:	0	0	0	0	0	0	0
Cost Avoidance Subtotal:	31,200	31,200	31,200	31,200	31,200	31,200	187,200
Costs:							
Development Services Subtotal:	554,895	40,194	40,797	41,409	42,030	42,660	761,985
Hardware Subtotal:	777,500	0	0	0	0	0	777,500
Software Subtotal:	0	0	0	0	0	0	0
Infrastructure Subtotal	609,931	25,735	26,121	26,513	26,911	530,046	1,245,258
Training Subtotal:	0	0	0	0	0	0	0
Other Subtotal:	0	0	0	0	0	0	0
Annual Statistics:							
Annual Total Savings	31,200	31,200	31,200	31,200	31,200	31,200	187,200
Annual Total Costs	1,942,326	65,929	66,918	67,922	68,941	572,707	2,784,743
Annual Return on Investment	(1,911,126)	(34,729)	(35,718)	(36,722)	(37,741)	(541,507)	(2,597,543)
Annual Costs/Savings Ratio	6225.40%	211.31%	214.48%	217.70%	220.96%	1835.60%	(2,001,010)
Project Cumulative Statistics:							
Cumulative Total Savings	31,200	62,400	93,600	124,800	156,000	187,200	187,200
Cumulative Total Costs	1,942,326	2,008,255	2,075,174	2,143,096	2,212,036	2,784,743	2,784,743
Cumulative Return on Investment	(1,911,126)	(1,945,855)	(1,981,574)	(2,018,296)	(2,056,036)	(2,597,543)	(2,597,543)
Cumulative Cost/Savings Ratio	6225.40%	3218.36%	2217.07%	1717.22%	1417.97%	1487.58%	1487.58%
Year Positive Payback Achieved							NO PAYBACK
State or Federal Mandate?							NOTATION
Signatures:							
Benefits Reviewed By Project Sponsor				Date:			
Costs (including IT Resources) Reviewed By Information Technology Project Manager				Date:			

As Of: 5/28/22

REV: January 22, 2018

Return on Investment Analysis

Savings Detail

Project Savings Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Savings	Annual Multiplier
Cost Avoidance		ANINI	1 040	20	24 200	1 000
Cost Avoidance		AININ	1,040	30	31,200	1.000
Intangible Renefit					٥	
mangible benefit					•	
Intangible Benefit					0	
					, and the second	
ı	Category Cost Avoidance ntangible Benefit	Category Budget Category/Funding Source Cost Avoidance ntangible Benefit	Category Budget Category/Funding Source Desc Cost Avoidance ANN ntangible Benefit	Category Budget Category/Funding Source Desc Units Cost Avoidance ANN 1,040 Intangible Benefit	Cost Avoidance Budget Category/Funding Source Desc Units Unit Cost Avoidance ANN 1,040 30 Intangible Benefit	Cost Avoidance Benefit Budget Category/Funding Source Desc Units Unit Total Savings ANN 1,040 30 31,200 0

As Of: 5/28/22

Return on Investment Analysis

Savings Detail

	Affects Project ROI?					OI?	Potential Savings Extensions							
Project Savings Category	Y1	Y2	Y 3	Υ4	Y5	Y6	Y1	Y2	Y 3	Y4	Y5	Y6		
Cost Avoidones			.,				24 200 00	24 200 00	24 200 00	24 200 00	24 200 00	24 200 00		
Intangible Benefit	Α	^	^	^	^	^	31,200.00	31,200.00	31,200.00	31,200.00	31,200.00	31,200.00		
Intangible Benefit														
	Category Cost Avoidance Intangible Benefit	Project Savings Category Y1 Cost Avoidance x Intangible Benefit	Project Savings Category Y1 Y2 Cost Avoidance x x Intangible Benefit	Project Savings Category Y1 Y2 Y3 Cost Avoidance x x x Intangible Benefit	Project Savings Category Y1 Y2 Y3 Y4 Cost Avoidance x x x x Intangible Benefit	Project Savings Category Y1 Y2 Y3 Y4 Y5 Cost Avoidance x x x x x Intangible Benefit	Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Cost Avoidance x x x x x x Intangible Benefit	Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Cost Avoidance x x x x x x 31,200.00 Intangible Benefit	Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Cost Avoidance x </td <td>Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Y3 Cost Avoidance x x x x x x x x 31,200.00 31,200.00 31,200.00 Intangible Benefit x <td< td=""><td>Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Y3 Y4 Cost Avoidance x</td><td>Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Y3 Y4 Y5 Cost Avoidance x</td></td<></td>	Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Y3 Cost Avoidance x x x x x x x x 31,200.00 31,200.00 31,200.00 Intangible Benefit x <td< td=""><td>Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Y3 Y4 Cost Avoidance x</td><td>Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Y3 Y4 Y5 Cost Avoidance x</td></td<>	Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Y3 Y4 Cost Avoidance x	Project Savings Category Y1 Y2 Y3 Y4 Y5 Y6 Y1 Y2 Y3 Y4 Y5 Cost Avoidance x		

Page 3 REV: January 22, 2018

As Of: 5/28/22

Return on Investment Analysis

Savings Summary

Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Tangible Benefit:							
Tangible Benefits Subtotal:							
Cost Avoidance:							
Elimination of one year of repair technician							
to repair/troubleshoot incidents and							
downtime related to outdated system.	31,200	31,200	31,200	31,200	31,200	31,200	187,200
Cost Avoidance Subtotal:	31,200	31,200	31,200	31,200	31,200	31,200	187,200
Intangible Benefit:							
Improved confidence in the data gathered.							
Ability to provide cogent video clips to							
needed entities that can be used in legal							
situations and submitted to state agencies.							
Southern Total	24 202	24 200	24 202	24 202	24 202	24 200	407.000
Savings Total:	31,200	31,200	31,200	31,200	31,200	31,200	187,200

As Of: 5/28/22

Return on Investment Analysis

								Af	fect	s Pr	ojec	ct RC	<u>) ?</u>
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual				ľ	1	
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs		HR	3,363	165	554,895		Х			T	\Box	
IT Hours - System Maintenance	Development Svcs		HR	40	165	6,600	1.015		Х	Х	Х	Х	Х
IT Hours - Customer Support	Development Svcs		HR	100	165	16,500	1.015		Х	Х	Х	Х	Х
IT Hours - Planned Maintenance	Development Svcs		HR	100	165	16,500	1.015		Х	Х	Х	Х	Х
User Hours - New Development	Development Svcs					0					Ĭ		
User Hours - PTNE/OT	Development Svcs					0							
Contractor Professional Services	Development Svcs					0					Ī		
PC System - Acquisition	Hardware				814	0				Î	1		
PC System - Maintenance	Hardware				2,304	0				•			
Skyware 1.8 Meter Dish	Hardware				4,659	0				İ			
10 Watt Power Inserter	Hardware				475	0							
Notebook - Acquisition	Hardware				1,223	0			•				
Notebook - Maintenance	Hardware				2,372	0							
Tablet Notebook - Acquisition	Hardware				2,012	0					Ī		
Tablet Notebook - Maintenance	Hardware					0					1		ĺ
Laserprinter - Acquisition	Hardware				1,432	0					Ī	1	İ
Laserprinter - Maintenance	Hardware				1,104	0					İ		
Image Workstations - Acquisition	Hardware					0				İ			
Image Workstations - Maintenance	Hardware				3,496	0			•				
PC Maintenance User Owned	Hardware				2,304	0							
Printer Maintenance User Owned	Hardware				1,072	0					Ī		
File Space (100GB)	Hardware		ANN		173	0				Ì	Î		
Internet Bandwidth per MB	Hardware		ANN		750	0					Ī	1	į
Package Software - Acquisition	Software					0					į		
Package Software - Maintenance	Software				240	0				İ			
Business Objects Access	Software					0					Ī	1	İ
Term Emulation SFTW-Acquisition	Software					0					į		
Term Emulation SFTW-Maintenance	Software					0							
Server - Acquisition/Upgrade	Infrastructure		EA		8,000	0					Î	İ	Ì
Server - Maintenance	Infrastructure		EA	21	360	7,560	1.015		Х	Х	Х	Х	Х
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0					į		
Server Sftwre - Maintenance	Infrastructure					0					Ī		
Server Rack Mount	Infrastructure				400	0					1		
Oracle Enterprise Per Processor -											Ī		
Includes Year 1 Maintenance	Infrastructure				21,372	0					į	}	
Oracle Enterprise Per Processor - Year										ĺ	1	1	
2 and Beyond	Infrastructure				3,432	0			•		1	'	'

As Of: 5/28/22

Return on Investment Analysis

Cost Detail

							Affects P Annual		s Pro	oiec	t RC) ?	
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual			[
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
SQL Server Enterprise - Per Processor													
(4 cores) - Purchased Sept 2016-Aug										į	ŀ		.
2017 - Includes Maintenance thru Aug										İ	İ		.
2019	Infrastructure				24,533	0				į			!
SQL Server Enterprise - Per Processor										į	į		.
(4 cores) - Purchased Sept 2017-Aug										į	į		
2018 - Includes Maintenance thru Aug										į	ļ		!
2019	Infrastructure				20,759	0							ļ.
SQL Server Enterprise - Per Processor										į	į		. l
(4 cores) - Purchased Sept 2018-Aug										į	į		<u>.</u>
2019 - Includes Maintenance thru Aug										į			!
2019	Infrastructure				16,985	0				į	į		
SQL Server Enterprise - Maintenance,										İ	İ		i
Per Processor (4 cores) - Sept 2019										į	į		<u>.</u>
and Beyond	Infrastructure			21	4,218	88,578		Х		į			
SQL Server Standard - Per Processor										į	į		.
(4 cores) - Purchased Sept 2016-Aug										į	ļ		.
2017 - Includes Maintenance thru Aug										į	į		.
2019	Infrastructure				6,398	0				į	į		<u>i</u>
SQL Server Standard - Per Processor										į	ļ		.
(4 cores) - Purchased Sept 2017-Aug										į	į		!
2018 - Includes Maintenance thru Aug										ĺ	İ		.
2019	Infrastructure				5,414	0					ļ		<u>. </u>
SQL Server Standard - Per Processor										į	į		!
(4 cores) - Purchased Sept 2018-Aug										ŀ	ŀ		.
2019 - Includes Maintenance thru Aug										į	į		
2019	Infrastructure				4,429	0							
SQL Server - Standard Maintenance,										į	į		.
Per Processor (4 cores) - Sept 2019										ĺ	į		i I
and Beyond	Infrastructure				1,100	0							
Websphere Basic Per Processor										į	į		: I
Single/Dual Core - Includes Year 1										ĺ	į		i I
Maintenance	Infrastructure				3,506	0				ŀ			
Websphere Basic Per Processor										į	į		
Single/Dual Core - Year 2 and Beyond	Infrastructure				701	0				İ	į		.]
Websphere ND Per Processor	mmastruoturo				, , ,	0							
Single/Dual Core - Includes Year 1										į			,
Maintenance	Infrastructure				13,180	0				į	į		. 1
Mantonano	ii iii dolla C		1		10,100	U				i	i		

ROI - Building Safety Security Camera Replacement Project D52110SC (1)/Cost Detail

Date Printed: 7/22/2022

Page 6

REV: January 22, 2018

As Of: 5/28/22

Return on Investment Analysis

								Αf	fect	s Pr	oiec	t RC) <u> </u> ?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual		1	<u> </u>	-		•
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y 4	Y5	Y6
Websphere ND Per Processor										ļ	<u> </u>		
	Infrastructure				2,635	0				<u> </u>			
SSL Certificate	Infrastructure		EA	1	845	845	1.015					Х	Χ
Internet Access	Infrastructure		EA	1	180	180	1.015	Х	Х	Х	Х	Х	Χ
App Code Directories on Consolidated									İ	Î		į	
IIS Server (Virtual)	Infrastructure		ANN	2	415	830		х	İ	1		į	Χ
Database (5 GB) on Consolidated SQL									İ	-		Ţ	
Instance Server	Infrastructure		ANN		930	0				ļ			
Database Instance (125 GB DB) on										İ	•		
Consolidated SQL Server	Infrastructure		ANN		2,395	0			İ	İ	•	į	
Database SQL Maint Server	Infrastructure		ANN		834	0				1			
Database SQL Server Physical	Infrastructure		ANN	2	19,158	38,316		х	ļ	t		, ;	Х
	Infrastructure		ANN	2	610	1,220	1.015		Х	Х	Х	Х	
DB Maintenance (Semi-Annual Cycle						-,	770			-	1		
\$1220)	Infrastructure		ANN		1,220	0			İ	į	•	į	
DB Maintenance (Semi-Annual Cycle					1,==0					†			
\$2440)	Infrastructure		ANN		2,440	0					<u> </u>	ļ	
Dedicated Virtual Server	Infrastructure		ANN	21	4,150	87,150		Х		!	•		Х
DB Instance Setup	Infrastructure		7	21	976	0		^		!		<u>i</u>	
DBA MS SQL Database Creation on	minastracture				370	0			<u> </u>	<u> </u>	H	<u></u>	
Exisiting Instance	Infrastructure		EA	2	366	732		v	İ	•	•	, ,	
Existing instance	milastructure		LA		300	132		^		 			
Extra Small - 2 Core 8GB RAM, 500GB									İ	İ	į !	į	
Drive, 10 GB NIC - Cloud/Virtual = \$601									İ	İ	ĺ	į	
On Premise Physical Server = N/A	Infrastructure		ANN			0			İ	-	•	, ,	
Oli Fleillise Filysical Server – N/A	iiiiasiiuciuie		AININ			U			ļ	₩	⊨≓		
Small - 4 Core 16GB RAM, 500GB										į	<u> </u>		
Drive, 10 GB NIC - Cloud/Virtual = \$951									İ	İ	•	į	
	Infrastructure		ANN			0			İ	İ	•	į	
Medium - 8 Core 32GB RAM, 500GB	mirastructure		AININ			0			-	├			
											<u> </u>	, ,	
Drive, 10 GB NIC - Cloud/Virtual =											<u> </u>	ļ	
\$1,702 On Premise Physical Server =						2			İ	İ	•	į	
\$9,751	Infrastructure		ANN			0			<u> </u>	<u>i</u> —	<u> </u>	 j	
Large - 16 Core 64GB RAM, 500GB									<u> </u>		•	. !	
Drive, 10 GB NIC - Cloud/Virtual =									<u> </u>	1	<u> </u>	. ,	
\$3,167 On Premise Physical Server =										1	<u> </u>	, ,	
\$10,446	Infrastructure		ANN			0			İ	i	į i	, ;	

As Of: 5/28/22

Return on Investment Analysis

Cost Detail

								Af	fect	s Pr	ojec	t RO	1?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual						
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
Extra Large - 40 Core 160GB RAM,									:				
500GB Drive, 10 GB NIC - Cloud/Virtual												į	
= \$7,564 On Premise Physical Server =												į	
\$12,906	Infrastructure		ANN			0						İ	
Project Staff Training	Training					0							
Building Security Cameras	Hardware		EA	1,555	500	777,500		Х					
SAN Storage	Infrastructure		ANN	1	300,000	300,000		Х					Х
Infrastructure Monitoring Solution	Infrastructure		ANN	1	77,750	77,750		Х					Х
Inf Monitoring Solution Maint	Infrastructure		ANN	1	15,550	15,550	1.015	Х	Х	Х	Х	X :	Х
												Ī	

Page 8

		Potential Cost Extensions									
	Project Cost										
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6				
IT Hours - New Development	Development Svcs	554,895.00									
IT Hours - System Maintenance	Development Svcs		6,699.00	6,799.49	6,901.48		7,110.07				
IT Hours - Customer Support	Development Svcs		16,747.50	16,998.71	17,253.69	17,512.50	17,775.19				
IT Hours - Planned Maintenance	Development Svcs		16,747.50	16,998.71	17,253.69	17,512.50	17,775.19				
User Hours - New Development	Development Svcs					Ĭ					
User Hours - PTNE/OT	Development Svcs										
Contractor Professional Services	Development Svcs										
PC System - Acquisition	Hardware										
PC System - Maintenance	Hardware										
Skyware 1.8 Meter Dish	Hardware										
10 Watt Power Inserter	Hardware										
Notebook - Acquisition	Hardware										
Notebook - Maintenance	Hardware										
Tablet Notebook - Acquisition	Hardware										
Tablet Notebook - Maintenance	Hardware										
Laserprinter - Acquisition	Hardware										
Laserprinter - Maintenance	Hardware										
Image Workstations - Acquisition	Hardware										
Image Workstations - Maintenance	Hardware										
PC Maintenance User Owned	Hardware										
Printer Maintenance User Owned	Hardware										
File Space (100GB)	Hardware										
Internet Bandwidth per MB	Hardware										
Package Software - Acquisition	Software										
Package Software - Maintenance	Software										
Business Objects Access	Software										
Term Emulation SFTW-Acquisition	Software										
Term Emulation SFTW-Maintenance	Software										
Server - Acquisition/Upgrade	Infrastructure										
Server - Maintenance	Infrastructure		7,673.40	7,788.50	7,905.33	8,023.91	8,144.27				
Server Sftwre - Acquisition/Upgrade	Infrastructure		,	,	,	,	,				
Server Sftwre - Maintenance	Infrastructure										
Server Rack Mount	Infrastructure										
Oracle Enterprise Per Processor -											
Includes Year 1 Maintenance	Infrastructure										
Oracle Enterprise Per Processor - Year											
2 and Beyond	Infrastructure										

				Potential Co	st Extension	ıs	=	
	Project Cost							
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6	
SQL Server Enterprise - Per Processor				İ	!			
(4 cores) - Purchased Sept 2016-Aug						•	!	
2017 - Includes Maintenance thru Aug		İ		İ	İ	•	•	
2019	Infrastructure	j					•	
SQL Server Enterprise - Per Processor								
(4 cores) - Purchased Sept 2017-Aug						•	!	
2018 - Includes Maintenance thru Aug		İ		İ	İ	•	•	
2019	Infrastructure	j					•	
SQL Server Enterprise - Per Processor				İ	<u> </u>			
(4 cores) - Purchased Sept 2018-Aug				•	•	•	!	
2019 - Includes Maintenance thru Aug					İ			
2019	Infrastructure			-		!	!	
SQL Server Enterprise - Maintenance,								
Per Processor (4 cores) - Sept 2019				•	•	•	!	
and Beyond	Infrastructure	88,578.00						
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2016-Aug					ļ			
2017 - Includes Maintenance thru Aug		İ		İ	İ	į	•	
2019	Infrastructure			-		!	!	
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2017-Aug				•	•	•	!	
2018 - Includes Maintenance thru Aug								
2019	Infrastructure			1		<u> </u>	!	
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2018-Aug		į		į	į	į	į	
2019 - Includes Maintenance thru Aug				1		<u> </u>	!	
2019	Infrastructure				•		ļ	
SQL Server - Standard Maintenance,								
Per Processor (4 cores) - Sept 2019		j					•	
and Beyond	Infrastructure							
Websphere Basic Per Processor								
Single/Dual Core - Includes Year 1							1	
Maintenance	Infrastructure					 		
L					-]	
Websphere Basic Per Processor						1	1	
Single/Dual Core - Year 2 and Beyond	Infrastructure			1	<u> </u>	1	<u> </u>	
Websphere ND Per Processor							!	
Single/Dual Core - Includes Year 1	l						•	
Maintenance	Infrastructure			1	<u> </u>		İ	

	I	Potential Cost Extensions									
	Project Cost		1								
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6				
						į					
Websphere ND Per Processor			İ		İ						
Single/Dual Core - Year 2 and Beyond	Infrastructure	ļ	į	Î	į	į					
SSL Certificate	Infrastructure	845.00	857.68	870.54	883.60	896.85	910.30				
Internet Access	Infrastructure	180.00	182.70	185.44	188.22	191.05	193.91				
App Code Directories on Consolidated											
IIS Server (Virtual)	Infrastructure	830.00	į	İ	į	į	830.00				
Database (5 GB) on Consolidated SQL			!			į					
Instance Server	Infrastructure		į		į	į					
Database Instance (125 GB DB) on					i	į					
Consolidated SQL Server	Infrastructure		į	İ	į	į					
Database SQL Maint Server	Infrastructure										
Database SQL Server Physical	Infrastructure	38,316.00					38,316.00				
DB Maintenance (Annual Cycle \$610)	Infrastructure		1,238.30	1,256.87	1,275.73	1,294.86					
DB Maintenance (Semi-Annual Cycle						i					
\$1220)	Infrastructure		ļ		į	į					
DB Maintenance (Semi-Annual Cycle											
\$2440)	Infrastructure		į		į	i					
Dedicated Virtual Server	Infrastructure	87,150.00		İ	į		87,150.00				
DB Instance Setup	Infrastructure										
DBA MS SQL Database Creation on			Î		Î						
Exisitng Instance	Infrastructure	732.00									
Extra Small 2 Cara SCR DAM FOOCR						į					
Extra Small - 2 Core 8GB RAM, 500GB			ļ		ļ						
Drive, 10 GB NIC - Cloud/Virtual = \$601 On Premise Physical Server = N/A	Infrastructure		į		į	İ					
On Premise Physical Server – N/A	imirastructure		i		i	į					
Small - 4 Core 16GB RAM, 500GB			ļ		ļ						
Drive, 10 GB NIC - Cloud/Virtual = \$951			į		į	İ					
On Premise Physical Server = \$9,288	Infrastructure		į		į	i					
Medium - 8 Core 32GB RAM, 500GB	iiiiasiiuciure	-									
Drive, 10 GB NIC - Cloud/Virtual =			į		ļ						
\$1,702 On Premise Physical Server =			į		į	į					
\$9,751	Infrastructure		į		į	İ					
Large - 16 Core 64GB RAM, 500GB	mmastructure	-	-								
Drive, 10 GB NIC - Cloud/Virtual =			ļ		ļ	ļ					
			ļ		ļ	İ					
\$3,167 On Premise Physical Server =	Infrastruct		į		į	į					
\$10,446	Infrastructure		i	Ī	į	Ī					

As Of: 5/28/22

Return on Investment Analysis

Cost Detail

			F	Potential Cos	t Extension	S	
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6
Extra Large - 40 Core 160GB RAM,							
500GB Drive, 10 GB NIC - Cloud/Virtual							
= \$7,564 On Premise Physical Server =							
\$12,906	Infrastructure						
Project Staff Training	Training						
Building Security Cameras	Hardware	777,500.00					
SAN Storage	Infrastructure	300,000.00					300,000.00
Infrastructure Monitoring Solution	Infrastructure	77,750.00					77,750.00
Inf Monitoring Solution Maint	Infrastructure	15,550.00	15,783.25	16,020.00	16,260.30	16,504.20	16,751.77

Page 12 REV: January 22, 2018

Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Development Services:							
IT Hours - New Development	554,895						554,895
IT Hours - System Maintenance	,	6,699	6,799	6,901	7,005	7,110	34,515
IT Hours - Customer Support		16,748	16,999	17,254	17,512	17,775	86,288
IT Hours - Planned Maintenance		16,748	16,999	17,254	17,512	17,775	86,288
User Hours - New Development		-, -	-,	, -	,-	, -	,
User Hours - PTNE/OT							
Contractor Professional Services							
Development Services Subtotal:	554,895	40,194	40,797	41,409	42,030	42,660	761,985
Hardware:	30.,000	10,101	10,101	7.1,100	12,000	.2,000	,
Building Security Cameras	777,500						777,500
							,
Hardware Subtotal:	777,500						777,500
Software:	,						
Software Subtotal:							
Infrastructure:							
Dedicated Virtual Server	87,150					87,150	174,300
Server - Maintenance	0.,.00	7,673	7,789	7,905	8,024	8,144	39,535
SQL Server Enterprise - Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond SSL Certificate	88,578 845	858	871	884	897	910	88,578 5,264
Internet Access	180	183	185	188	191	194	1,121
App Code Directories on Consolidated IIS	100	103	103	100	191	194	1,121
Server (Virtual)	830					830	1,660
Database SQL Server Physical	38,316					38,316	76,632
DB Maintenance (Annual Cycle \$610)	30,310	1,238	1,257	1.276	1.295	30,310	5,066
DBA MS SQL Database Creation on Exisitng		1,200	1,201	1,270	1,233		3,000
Instance	732						732
SAN Storage	300,000					300,000	600,000
Infrastructure Monitoring Solution	77,750					77,750	155,500
Inf Monitoring Solution Maint	15,550	15,783	16,020	16,260	16,504	16,752	96,870
Infrastructure Subtotal	609,931	25,735	26,121	26,513	26,911	530,046	1,245,258
Training:							
Training Subtotal:							
Other:							
Other Subtotal:							
Costs Total:	1,942,326	65,929	66,918	67,922	68,941	572,707	2,784,743

As Of: 5/28/22

Return on Investment Analysis

Assumptions

Date	Assumption Description
28-May-22	Savings based on \$30/hr and 20 hr/wk to support
28-May-22	All 1,555 cameras need replaced.
28-May-22	Possible firewall need
28-May-22	Central patch management
28-May-22	Remote access/remote management solution
28-May-22	Central monitoring solution needed
28-May-22	Camera administration solution needed
28-May-22	NVR Storage solution
	Support estimates assume Homeland Security will maintain & monitor the cameras and IT will maintain and monitor the network and server
08-Jun-22	infrastructure.

Page 14