

CAPITAL IMPROVEMENT PLAN



PROJECT DETAIL

Fiscal Years 2017 through 2021

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**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ?	<u>No</u>	Project/Section Number (for existing projects):	<u>307375</u>
Requested By:	<u>Cliff Norville</u>	Name	<u>Support Services</u>
Project Name:	<u>ADA - Title 2 Compliance: Building Upgrades</u>	Department/Division	
Project Location:	<u>Various Buildings</u>		

Project Description:

Upgrade existing SCG facilities to achieve compliance with ADA Title 2 building codes. This is a multi-year project. The SCG building inventory will be surveyed to determine extent of need, and implementation will be prioritized according to greatest need.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go	\$ 500,000	\$ 500,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	1,250,000
Total Funding	\$ 500,000	\$ 500,000	\$ 250,000	\$ 1,250,000				

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 -CIP Architect & Engineer	\$ 50,000	\$ 50,000						\$ -
7076 -CIP Construction Contracts	\$ 450,000	\$ 450,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	1,250,000
Total Project Cost	\$ 500,000	\$ 500,000	\$ 250,000	\$ 1,250,000				

How were these cost estimates determined? Please attach documentation to support estimates.

Budget request was based on a comparison with the City of Memphis' annual CIP budget, resulting from their settlement with the U.S. Department of Justice regarding ADA non-compliance. The City of Memphis is investing approximately \$2 million per year for the next 20 years on ADA improvements to City facilities. In a proactive effort to avoid potential litigation, SCG is requesting funding to systematically address ADA non-compliance in all SCG buildings.

What would be the impact of deferring this project by one or more years?

Deferring this project may expose SCG to lawsuits from the ADA community since the majority of SCG buildings are non-compliant with ADA law.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments:

A) No revenue generated. B) No impact on staffing/personnel expense. C) No impact on operational expenses.

Other Project Benefits/Justifications Comments:

Design improvements will correct existing non-compliance of ADA legislation. The annual construction cost is projected to be approximately \$500,000. Several local general contractors are experienced in this type of renovation and should be eligible to bid. Also, a portion of the work will be required to be completed by LOSB contractors. SC citizens, who are also members of the ADA community, will benefit from a more user-friendly building with respect to accessing governmental services. This project directly relates to the Mayor's goal of meeting the service expectations of customers and building trust and confidence in SCG.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): 307313

Requested By: Darren Sanders Name Roads and Bridges Department/Division

Project Name: ADA - Title 2 Compliance: Sidewalk Modifications

Project Location: Various locations-sidewalks

Project Description:

Upgrade existing intersections in unincorporated Shelby County to meet ADA requirements. Primary improvements shall include curb ramps for intersections with sidewalks and concrete pads for pedestrians at intersections without sidewalks. This is a multi-year project. The SCG intersection inventory will be surveyed to determine extent of need, and implementation will be prioritized according to greatest need.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go	\$ 100,000	\$ -		\$ 100,000				100,000
Total Funding	\$ 100,000	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7076 -CIP Construction Contracts	\$ 100,000	\$ -		\$ 100,000				100,000
Total Project Cost	\$ 100,000	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000

How were these cost estimates determined? Please attach documentation to support estimates.

The Shelby County ADA subcommittee obtained a typical unit price per curb ramp from the City of Memphis. Engineering maintains an inventory of the intersections in unincorporated Shelby County. Budget request reflects a multi-year plan to proactively avoid potential litigation by upgrading curb ramps over the next 10 to 15 years.

What would be the impact of deferring this project by one or more years?

Deferring this project may expose SCG to lawsuits from the ADA community, since the majority of curb ramps in unincorporated Shelby County are non-compliant with ADA law.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments:

A) No revenue generated. B) No impact on staffing/personnel expense. C) No impact on operational expenses.

Other Project Benefits/Justifications Comments:

2&3) Design improvements will correct existing non-compliance of ADA legislation. 4) The annual construction cost is projected to be approximately \$100,000. A few LOSB contractors are experienced in this type of renovation and should be eligible to bid. 7) SC citizens, who are also members of the ADA community, will benefit from a more user-friendly neighborhoods. 8) This project directly relates to the Mayor's goal of meeting the service expectations of customers and building trust and confidence in SCG.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: _____ Name: Cliff Norville Department/Division: Support Services

Project Name: Roof Replacement

Project Location: Vasco A. Smith, Jr. Administration Building @ 160 N. Main

Project Description:

The roof of the Vasco A. Smith, Jr. Administration Building is near the end of the manufacturer's recommended useful life, and needs to be replaced. The existing roof was installed in 1998, which means that it has 18 years of wear. When it was installed, the roof came with a 10 year warranty, which has long expired. Support Services has been patching the roof several times each year ever since.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 40,000	\$ 260,000				300,000
Total Funding	\$ -	\$ -	\$ 40,000	\$ 260,000	\$ -	\$ -	\$ -	\$ 300,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 -CIP Architect & Engineer			\$ 40,000	\$ 260,000				\$ 300,000
Total Project Cost	\$ -	\$ -	\$ 40,000	\$ 260,000	\$ -	\$ -	\$ -	\$ 300,000

How were these cost estimates determined? Please attach documentation to support estimates.

The projected cost estimate is based on similar roofing replacement projects conducted during the past few years. The roof area is approximately 13,000 square feet. A unit cost of \$20 per square foot for construction is used for estimating purposes, due to the high-rise building and accessibility to the job site. The design fee is based on approximately 15% of the construction cost.

What would be the impact of deferring this project by one or more years?

Deferring this project will result in continued water damage to interior finishes in the newly renovated administration building.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments:

Operating expenses related to the repair of water damage will be reduced, however accurate figures are not available.

Other Project Benefits/Justifications Comments:

4) Local contractors are experienced in this type of work and should be eligible to bid. 5) Eliminating water infiltration into the administration building will preserve the infrastructure, by reducing damage to interior finishes and furnishings. 8) This project relates to the Mayor's goal of meeting the service expectations of customers.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): _____
 Requested By: _____ Tom Needham _____ Support Services
 Department/Division
 Project Name: Employee Parking Garage
 Project Location: Undetermined

Project Description:

This project is to locate and purchase land and/or a 600 car parking garage where County employees can park safely and within a reasonable vicinity of the Downtown Building Complex.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go					\$ 1,500,000		\$ 15,000,000	16,500,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -	\$ 15,000,000	\$ 16,500,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7011 - Buildings and Improvements							\$ 15,000,000	\$ 15,000,000
7072 CIP-Architectural & Eng Svcs					\$ 1,500,000			1,500,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -	\$ 15,000,000	\$ 16,500,000

How were these cost estimates determined? Please attach documentation to support estimates.

A 2013 sale of a 148 space surface lot located at 4th and Union Avenue generated a value of \$1.3m and was purchased by Turkey Creek Investments. A surface lot similar in size and closer to the Downtwon Building Complex will have a higher value due to the day time volume of use. An estimate of \$2,000,000 is used to cover any survey, licensure, property purchase and site renovation to prepare for utilization.

What would be the impact of deferring this project by one or more years?

Shelby County currently has insufficeint parking for the employees which work in the vicinity of the Downtown Complex. Deferral will continue to burden half of a large portion of our workforce with the need to search out and pay for parking on a daily basis.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense						14,000	14,000
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,000	\$ 14,000

Financial Impact Comments:

Impact on the Operating Budget will not be indicated until FY19 for lighting/utility expenses after the purchase and implementation of the property. Future and residual expenses will include maintenance an upkeep of an electronic access control device positioned at the entry/exit of the lot and any utility expenses for lighting as well as upkeep of the surface to include weed control, resurfacing and repainting on an as needed basis. These costs will be minimal, several years out and absorbed into the General Fund. Costs indicated in FY21 are for utility expenses.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____
 Requested By: Cheyenne Johnson Assessor _____
 Name _____ Department/Division _____
 Project Name: 1075 Mullins Station Office Renovation (PEAB)
 Project Location: Peggy Edmiston Administration Building - Shelby County's East Administration Complex - East Wing 1075 Mullins Station Road

Project Estimated Useful Life (# of years):

Project Description:

The Peggy Edmiston Building (PEAB) built in 1935 and originally housed the old Shelby County Health Care Center was closed in 2001 and subsequently converted to administrative offices; now houses the Office of the Shelby County Assessor, among other governmental and public officials' departments. During the past 10 years the County has invested over \$2.5 million in redeveloping the PEAB, however most of the projects addressed site and structural improvements, and mechanical systems (i.e. parking lot improvement, roofing and HVAC). This project addresses building improvements within the east-wing of the complex housing the Office of the Shelby County Assessor and consists of redesigning public service counters, restroom renovations, replacing flooring, painting and modular workstations. Additional work includes HVAC ductwork replacement and control upgrades, additional lighting and electrical upgrades. Specifics include: 1) Renovating three (3) service counters areas in the Answer Center and Personal Property departments to support approximately 4,000 walk-in-taxpayers per year 2) Renovation of four (4) restrooms in compliance with existing ADA legislation 3) Replace carpet / tile and paint the entire east-wing 4) Improve operating efficiency of HVAC system by replacement of ductwork and conversion to Variable Air Volume, and upgrades to control system 5) Additional lighting throughout the office and subsequent electrical upgrades 6) modular work centers to improve office space efficiency

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 160,000	\$ 2,200,000				\$ 2,360,000
Total Funding	\$ -	\$ -	\$ 160,000	\$ 2,200,000	\$ -	\$ -	\$ -	\$ 2,360,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7011 Buildings & Improvements				\$ 2,200,000				2,200,000
7072 CIP-Architectural & Eng Svcs			\$ 160,000					\$ 160,000
Total Project Cost	\$ -	\$ -	\$ 160,000	\$ 2,200,000	\$ -	\$ -	\$ -	\$ 2,360,000

How were these cost estimates determined? Please attach documentation to support estimates.

Shelby County Support Services generated projected cost estimates from basic project scope provided by Assessor Office. Structural / electrical issues will need to be addressed by the appropriate department and / or consultant.

What would be the impact of doing nothing or deferring this project by one or more years?

Shorter life expectancy of HVAC systems and lawsuits from the ADA community

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense				\$ 25,000	\$ 25,000	\$ 25,000	75,000
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ 25,000	\$ 75,000

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

1) Project includes energy-efficient ductwork and control system to support previously installed HVAC system; 2 & 3) Supports compliance with ADA legislation; 4) Appropriately experienced local consultants and contractor should be eligible to bid; 5&7) Taxpayers / Public will benefit from greater accessibility to County services in more user friendly and efficiently-organized environment; 8) Supports Mayor's maximizing efficiency goals.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____

Requested By: Kim Hackney CAO

Project Name: Total Health Wellness On-Site Health Clinic Department/Division

Project Location: 1075 Mullins Station Rd.

Project Estimated Useful Life (# of years):

Project Description:

Buck Consultants performed a data analysis utilizing the County's claims experience from 1/13 through 9/15 and their health plan and pharmacy benefit manager reports for the purpose of identifying the medical appropriateness for potential clinic services and the cost effectiveness of a worksite clinic for Shelby County. The analysis indicated a potential for a positive return on investment for a full service on-site clinic within two (2) years. Buck anticipates that in year 1 the Shelby County clinic will experience a loss of approx \$433K. This loss is attributed to the initial investment required including build-out and implementation costs. The group health insurance plan could reduce this loss in year 1 by including the initial build out of the clinic as part of the Capital Improvement Budget. Clinics generally range from 200 to as much as 25,000 ft². Most are 500 to 2000 ft². This proposal is for 1000 ft² at an estimated cost of \$175/ft² build out within the Peggy Edmiston Administration Building (PEAB) located at 1075 Mullins Station Rd.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 175,000					\$ 175,000
Total Funding	\$ -	\$ -	\$ 175,000	\$ -	\$ -	\$ -	\$ -	\$ 175,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7076 CIP-Construction Contracts			\$ 175,000					175,000
Total Project Cost	\$ -	\$ -	\$ 175,000	\$ -	\$ -	\$ -	\$ -	\$ 175,000

How were these cost estimates determined? Please attach documentation to support estimates.

Feasibility study conducted by Buck Consultants. Buck's team completed a comprehensive review of available Shelby County Data to identify the prevalence and costs of conditions within the health plan populations and the services amenable to clinic management.

What would be the impact of doing nothing or deferring this project by one or more years?

Shelby County has the opportunity to reduce costs to the group health insurance plan by \$1M-\$1.5M annually. Given the increasing costs of healthcare, Human Resources would like to proceed with this project in FY17.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments (Required for "Yes" responses):

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

Shelby County Government and employees spend over \$55M in healthcare costs annually. Every year, it is a struggle to determine how to reduce expenses to the plan, absorb inflation, and maintain good benefits for the employees and their families. We have an opportunity here to reduce costs to the group health plan, 70% which is paid for by Shelby County as an employer. We also have an opportunity to expand this to retirees and dependents in the future provided it is successful.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ?	No *	Project/Section Number (for existing projects):	307395
Requested By:	Cliff Norville	Name	Support Services
Project Name:	1060 Madison Renovation	Department/Division	
Project Location:	1060 Madison Ave.		

Project Estimated Useful Life (# of years): ** Previously included with the Health Department Master Plan*

Project Description:

The building located at 1060 Madison is the former Shelby County Forensic Center. The forensic function was relocated to the new West Tennessee Regional Forensic Center on Poplar in 2013. Since that time, the building has been predominantly vacant, with the exception of an 9-month stint, when it was partially occupied by the Corrections Re-Entry Program. The building was originally constructed in the 1920s, with an autopsy suite was added to the north side later. The forensic function changed hands over the years, along with the maintenance responsibilities. Consequently, the combination of age and building neglect have yielded a building that needs to be completely renovated. Community Services currently operates functions in leased space, and has expressed a desire to move into 1060 Madison after renovation in order to reduce operating expenses. An A/E consultant was hired in FY16 to design the renovation of the building. This project represents implementation of design via construction. This project was originally included in the Health Department Master Plan (# 307386) but was separated in FY16.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go	\$ 273,000	\$ 273,000	\$ 3,200,000					\$ 3,200,000
Total Funding	\$ 273,000	\$ 273,000	\$ 3,200,000	\$ -	\$ -	\$ -	\$ -	\$ 3,200,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs	\$ 273,000	\$ 273,000						\$ -
7076 CIP-Construction Contracts			\$ 3,200,000					3,200,000
Total Project Cost	\$ 273,000	\$ 273,000	\$ 3,200,000	\$ -	\$ -	\$ -	\$ -	\$ 3,200,000

How were these cost estimates determined? Please attach documentation to support estimates.

Preliminary projections based on average costs experienced by SCG from previous renovation projects. The building contains roughly 30,000 square feet. Approximate average cost for a complete renovation of all building interior and infrastructure is \$150 per square foot.

What would be the impact of doing nothing or deferring this project by one or more years?

The building will continue to deteriorate. Community Service will continue to pay for leased space in privately-owned facilities.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense		\$ (195,069)	\$ (195,069)	\$ (195,069)	\$ (195,069)	\$ (195,069)	(975,345)
Total Impact on Operating Budget	\$ -	\$ (195,069)	\$ (975,345)				

Financial Impact Comments (Required for "Yes" responses):

c) Community Services is currently leasing space on the 1st and 6th floor of 1750 Madison. The annual lease payment totals \$195,069.00. Relocation of Community Services' operations to 1060 Madison following renovation eliminates the annual lease payments.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

1) Renovation of 1060 Madison will create office space for County operations currently leasing space in private facilities. 4) Local contractors are experienced in this type of renovation/construction and are eligible to bid. 5) In its current state of vacancy, the building will continue to deteriorate. Renovation will address building deficiencies, while preparing the space for new tenants. 6) Currently, 1060 Madison contains hazardous building materials. Renovation will incorporate the necessary abatement. 8) This project relates to the Mayor's goal of meeting the service expectations of customers.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): 610177
 Requested By: Wink Downen Sheriff's Office
 Name: Land/Mobile Radio for City/County Department/Division
 Project Name: County Wide
 Project Location: County Wide

Project Description:
 The current radio description is co-owned by the City of Memphis (60%) and Shelby County (40%) and the current system reaches end of life for continued support in 2017. The systems is currently house on 9 radio towers providing county-wide coverage for approximately 16,000 local government and public safety radios. The FCC mandates that our system be P-25 compliant by the year 2017 and our current system only partially complies and the only reusable infrastructure will be the physical tower sites. All vehicle and hand-held radios will have to be replaced as well as software and other hardware components. This project outlines only our portion of the project expense.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 1,000,000	\$ 8,000,000	\$ 12,000,000			21,000,000
Total Funding	\$ -	\$ -	\$ 1,000,000	\$ 8,000,000	\$ 12,000,000	\$ -	\$ -	\$ 21,000,000

Comments about Revenue Sources:
 This project request satisfies only the Shelby County portion of the overall project expense which is estimated at about \$500,000 for A&E, \$750,000 for initial radio purchases (Sheriff's Office), \$30,000,000 for infrastructure change over and an additional \$5,000,000 for subsequent radio purchases.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7077 -CIP Major Equip/Comp			\$ 1,000,000	\$ 8,000,000	\$ 12,000,000			21,000,000
7081 -CIP Supplies & Materials								-
Total Project Cost	\$ -	\$ -	\$ 1,000,000	\$ 8,000,000	\$ 12,000,000	\$ -	\$ -	\$ 21,000,000

How were these cost estimates determined? Please attach documentation to support estimates.
 Estimates determined based on previous upgrade expenses and a general request for information from various vendors.

What would be the impact of deferring this project by one or more years?
 If this project is put off all government and public safety radios operating under the City of Memphis and Shelby County will cease to have service agreements and will be obsolete. Communications will be greatly impacted and ultimately be non-existent for public safety and government operations.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments:
 Other than the project expenses, non should be incurred.

Other Project Benefits/Justifications Comments:
 2) Project required to comply with FCC P-25 regulations. 5) Project will preserve the ability to communicate between and among government officials and public safety entities.



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ?	No	Project/Section Number (for existing projects):	
Requested By:	Maurice Denbow		Sheriff's Office
Project Name:	Name Training Academy Expansion		Department/Division
Project Location:	993 Dovecrest Road, Memphis TN 38134		

Project Description:

Project allows for the expansion of the existing building to provide for an expanded indoor physical training area, a mock courtroom setting, a mock detention cell setting, additional storage for equipment and supplies and additional parking.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go					\$ 200,000	\$ 2,000,000		2,200,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 2,000,000	\$ -	\$ 2,200,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 -CIP Architect & Engineer					\$ 200,000			\$ 200,000
7076 -CIP Construction Contracts						\$ 2,000,000		2,000,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 2,000,000	\$ -	\$ 2,200,000

How were these cost estimates determined? Please attach documentation to support estimates.

Cost estimates were determined via current pricing and cost dynamics for buildings/facilities of this type and construction.

What would be the impact of deferring this project by one or more years?

Due to the ever increasing level of courtroom violence, enhanced training regarding handling and responding to critical incidents in a courtroom setting has been established and is currently being taught in a generic classroom environment. A mock detention area for jail staff and deputies assigned to courtrooms with adjoining detention cells is incorporated into this project in order to provide a realistic environment, but with a controlled setting that can be critiqued and monitored to provide a lessons-learned approach. Delaying this project hinders the quality of training and the level of preparedness of our recruits, current jail and law enforcement officers and specialized teams who will be called upon for immediate response.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense				\$ 10,000	\$ 10,000	\$ 10,000	30,000
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000

Financial Impact Comments:

Typical maintenance and utility expenses will be realized.

Other Project Benefits/Justifications Comments:

This project provides for a better trained and prepared work force to respond to incidents within the public environment of the more than 30 courtrooms where our deputies provide the first line of safety and security and within the pre-trial detention facilities under our control where we house an average of 2,900 detainees at any given time.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ?	<u>No</u>	Project/Section Number (for existing projects):	<u>630178</u>
Requested By:	<u>Cliff Norville</u>	Name	<u>Support Services</u>
Project Name:	<u>CJC - Interior Renovation</u>		Department/Division
Project Location:	<u>201 Poplar</u>		

Project Description:

The Criminal Justice Center (CJC) was constructed in the late 1970s and opened for business in 1980. While there have been some renovations to the courtrooms within the past 10 years, the office space has been unmodified and is suffering from the wear and tear associated with over 30 years of significant use. Building codes for high rise buildings have changed since the 1970s, leaving the Criminal Justice Center non-compliant in many areas. This renovation will be implemented as a multi-year project which involves a complete renovation of all floors. Renovations include, but are not limited to; asbestos abatement, ADA upgrades, current high-rise building code compliance, electrical improvements, and office space efficiency modifications.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go	\$ 2,800,000	\$ -		\$ 5,000,000	\$ 5,000,000	\$ 5,000,000		\$ 15,000,000
Total Funding	\$ 2,800,000	\$ -	\$ -	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ -	\$ 15,000,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7076 CIP-Construction Contracts	\$ 2,800,000	\$ -		\$ 5,000,000	\$ 5,000,000	\$ 5,000,000		15,000,000
Total Project Cost	\$ 2,800,000	\$ -	\$ -	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ -	\$ 15,000,000

How were these cost estimates determined? Please attach documentation to support estimates.

Budget request based on extrapolations of project costs from similar construction currently underway in the Administration Building.

What would be the impact of deferring this project by one or more years?

Interior finishes in the CJC will continue to deteriorate. ADA and other building code non-compliance exposes the County to risk of legal action.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments:

A) No revenue generated. B) No impact on staffing/personnel expense. C) No impact on operational expenses.

Other Project Benefits/Justifications Comments:

The space modifications will provide increased space efficiency which will provide a better personnel adjacency improving productivity of operations. Local contractors are experienced in this type of renovation and may be used to complete a portion of the work. Renovation of space will enhance the appearance and functionality of the CJC. Code compliance will reduce risk of occupants and customers. This project relates to the Mayor's goal of maximizing efficiency in SCG.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): 630173
 Requested By: Cliff Norville Name Support Services Department/Division
 Project Name: Jail Roof Replacement
 Project Location: Jail at 225 Poplar

Project Description:

The roof for the old Jail has to be patched and/or repaired numerous times each year due to exposure to extreme weather conditions. The warranty for this roof is near its expiration date.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 25,000	\$ 275,000				\$ 300,000
Total Funding	\$ -	\$ -	\$ 25,000	\$ 275,000	\$ -	\$ -	\$ -	\$ 300,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs			\$ 25,000					\$ 25,000
7076 CIP-Construction Contracts				\$ 275,000				275,000
Total Project Cost	\$ -	\$ -	\$ 25,000	\$ 275,000	\$ -	\$ -	\$ -	\$ 300,000

How were these cost estimates determined? Please attach documentation to support estimates.

A roofing consultant examined the roofs and developed the projected cost estimate.

What would be the impact of deferring this project by one or more years?

Deferring this project will result in continued water damage to interior finishes in the CJC.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments:

C) Operating expenses related to the repair of water damage will be reduced, however accurate figures are not available.

Other Project Benefits/Justifications Comments:

Local contractors are experienced in this type of work and should be eligible to bid. Eliminating water infiltration into the CJC will preserve the infrastructure, by reducing damage to interior finishes and furnishings. This project relates to the Mayor's goal of meeting the service expectations of customers.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____
 Requested By: Maurice Denbow Sheriff's Office
 Name: _____ Department/Division: _____
 Project Name: Sheriff Ceremony and Parade Field
 Project Location: Training Academy, 993 Dovecrest, Memphis TN 38134

Project Estimated Useful Life (# of years):

Project Description:
 This project provides for the planning, design and construction of a ceremony and parade area in the undeveloped field immediately adjacent to and north of the Training Academy located at 993 Dovecrest. The project will allow for the construction of a hard surface pad, approximately 3,600 square feet, with additional area for a three-pole flag display, seating area, appropriate walkways, placement of memorial and dedication markers, lighting and landscaping.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go							\$ 200,000	\$ 200,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7011 - CIP Building and Improvements							\$ 200,000	200,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000

How were these cost estimates determined? Please attach documentation to support estimates.
 A written quote for the site preparation and construction was estimated at \$142,304. The estimate did not include the memorial marker site prep, materials and placement or a contingent.

What would be the impact of doing nothing or deferring this project by one or more years?
 The project would provide for a professional, in-house venue to hold appropriate ceremonies, graduations, dedications and presentations. The impact of deferring would be minimal.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Other Project Benefits/Justifications Comments (Required for "Yes" responses):
 This project will provide for a competitive bidding process with a single or multiple awards stimulating the business community for a qualified vendor(s). Improved and maintained structures and grounds provide not only an asthetic quality, but also a necessary level of progress and growth. With this project both the Sheriff's Office and County Corrections will share the benefit and the site will become another local and regional resource.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____
 Requested By: Maurice Denbow Name: Sheriff's Office
 Project Name: Radio Shop Expansion Department/Division: _____
 Project Location: Substation Complex, 11670 Memphis-Arlington Road, Bldg. B, Arlington TN 38002

Project Estimated Useful Life (# of years):

Project Description:
 This project provides for the redesign and expansion of an existing structure located at 11670 Memphis-Arlington Road, Building B. The construction will increase the square footage of existing storage bay demolition of the north wall and expanding the building into an area currently used as a small fenced lot. The interior will be renovated by demolition of existing walls currently separating bay space and opening the footprint to allow a large open area for radio technicians to install, repair and train. The work will also add a small restroom and will subsequently be upfitted for compatibility with NextGen radio systems repairs and services.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 275,000					\$ 275,000
Total Funding	\$ -	\$ -	\$ 275,000	\$ -	\$ -	\$ -	\$ -	\$ 275,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7011 - CIP Building and Improvements			\$ 275,000					\$ 275,000
Total Project Cost	\$ -	\$ -	\$ 275,000	\$ -	\$ -	\$ -	\$ -	\$ 275,000

How were these cost estimates determined? Please attach documentation to support estimates.
 A 2012 written quote for the site preparation and construction was estimated at approximately \$227,000. An additional 10% for architectural and engineering requirements and a 10% contingency brings the project estimate to approximately \$272,400 and will an allowable variance to compensate for increased costs in materials and labor since the estimate was given, the project amount requested is \$275,000.

What would be the impact of doing nothing or deferring this project by one or more years?
 Currently our Fleet Operations and Radio Shop Operations are sharing a building. By completing this project and relocating our existing radio shop operations to the expanded and renovated structure it will alleviate the growing pains currently felt in our Fleet Operations and allow them to move into the vacated footprint left when the Radio Shop is relocated. In essence, we would remove our FY18 Fleet Expansion CIP project from the plan and return \$1,650,000 back into the fund balance.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense			\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	12,000
Total Impact on Operating Budget	\$ -	\$ -	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 12,000

Financial Impact Comments (Required for "Yes" responses):
 There will be an expected increase in general utility costs that will be anticipated after moving into the facility.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):
 1) This project will create a work -specific space for radio installation, repairs and services and will subsequently free up a footprint for fleet operations that will alleviate the need for a forecasted \$1.6m project. 4) This project will provide for a competitive bidding process with a single or multiple awards stimulating the business community for a qualified vendor(s). 8) Improved and maintained structures and grounds provide not only an aesthetic quality, but also a necessary level of progress and growth. With this project both the Sheriff's Office and other first responders throughout Shelby County will share the benefit of the improved and upgraded worksite.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: _____ Tom Needham _____ Support Services
Name Department/Division

Project Name: Juvenile Detention Expansion

Project Location: 616/600 Adams Avenue

Project Description:

Juvenile Court is requesting the installation of a gymnasium with classrooms and office space for the Juvenile Court Detention Center. The proposed location is 600 Adams Avenue, the current location of the Public Defenders assigned to Juvenile Defense. The Court's current recreation area is an outdoor rooftop gymnasium available for use only 6 months out of the year weather permitting. The proposed modular building would greatly improve the detention recreation program, as well as provide a larger area for HOPE Academy, the detention school operated by Shelby County Schools that provide a regular 6-hour curriculum for detainees.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go					\$ 220,000	\$ 3,000,000		3,220,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ 220,000	\$ 3,000,000	\$ -	\$ 3,220,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs					\$ 220,000			\$ 220,000
7076 CIP-Construction Contracts						\$ 3,000,000		3,000,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ 220,000	\$ 3,000,000	\$ -	\$ 3,220,000

How were these cost estimates determined? Please attach documentation to support estimates.

Cost estimates are based in research by former Detention Administrator, Rick Powell, on availability of products and plans for a prefabricated multipurpose secure building. MEDFAC Engineering provided cost estimates for site preparation and installation. Estimates for furnishings and equipment for offices, school, day area and gymnasium were provided by Rick Powell.

What would be the impact of deferring this project by one or more years?

(1) Current rooftop gymnasium can only be used approximately 6 months each year. It does not allow the Court to offer an effective year-round fitness program, which negatively impacts accreditation. (2) The space allocated for detainee education is too small for the current daily population, which averages 60 and growing. Limited space creates unnecessary risk to detainees and staff.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense			\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	100,000
Total Impact on Operating Budget	\$ -	\$ -	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 100,000

Financial Impact Comments:

Additional expenses for utilities, building and grounds maintenance, equipment maintenance, pest control, custodial & cleaning supplies, office supplies, educational supplies and parts purchases are estimated at \$25,000 annually. Other administrative expenses are minimal.

Other Project Benefits/Justifications Comments:

(1) and (2) The proposed gymnasium will allow for consistency and effectiveness in the delivery of a fitness program as required by American Correctional Association. (3) Physical exercise is a vital component of maintaining good health and mental well-being for our youth. (4) We aim to have local vendor/LOSB participation in the project. (5) The project enhances County infrastructure. (6) & (7) Positive environmental impact include our ability to provide a better environment conducive to learning and physical exercise, which enhances quality of life for detained youth.



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: Cliff Norville Support Services

Name **Department/Division**

Project Name: Courthouse Restoration

Project Location: 140 Adams

Project Description:

The last restoration of the Shelby County Courthouse was completed in 1992. Since that time, water infiltration has caused damage to plaster walls and finishes. The floor coverings in several areas are showing signs of deterioration from continuous usage. Paneling and other wooden finishes need to be restored from general wear and tear. Brass hardware needs to be repaired, replaced, and/or cleaned. Energy conservation measures need to be examined and implemented, where appropriate. ADA compliance measures need to be implemented.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go							\$ 225,000	\$ 225,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 225,000	\$ 225,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs							\$ 225,000	\$ 225,000
7076 CIP-Construction Contracts								-
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 225,000	\$ 225,000

How were these cost estimates determined? Please attach documentation to support estimates.

The projected cost estimate is based on similar restoration projects conducted during the past few years. The Courthouse contains approximately 225,000 square feet. A unit cost of \$10 per square foot for construction is used for estimating purposes. The design fee is based on 10% of the construction cost.

What would be the impact of deferring this project by one or more years?

Deferring this project will result in continued damage to interior finishes in the Courthouse.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments:

Operating expenses related to the repair of interior damage will be reduced, however accurate figures are not available. Annual energy cost savings may be available, but accurate estimates are part of the scope of this project. Potential litigation from ADA non-compliance may also impact operating expenses.

Other Project Benefits/Justifications Comments:

Compliance to ADA legislation is a Federal government requirement. Local contractors are experienced in this type of work and should be eligible to bid. Eliminating water infiltration into the building will preserve the infrastructure, by reducing damage to interior finishes and furnishings. This project relates to the Mayor's goal of meeting the service expectations of customers.



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ?	No	Project/Section Number (for existing projects):	706173
Requested By:	Dini Malone		Juvenile Court
	Name		Department/Division
Project Name:	Replacement Roof		
Project Location:	Juvenile Court, 616 Adams Avenue		

Project Description:
 As evidenced by several years of unsuccessful roof repair projects, the building needs installation of a replacement roof.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go	\$ 420,000	\$ 50,000	\$ 450,000					\$ 450,000
Total Funding	\$ 420,000	\$ 50,000	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs	\$ 20,000	\$ 50,000						\$ -
7076 CIP-Construction Contracts	\$ 400,000		\$ 450,000					450,000
Total Project Cost	\$ 420,000	\$ 50,000	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000

How were these cost estimates determined? Please attach documentation to support estimates.
 Estimates provided by Terry Seamon, Facilities Manager.

What would be the impact of deferring this project by one or more years?
 Major leaks in a number of locations throughout the building pose safety risk for clients and staff, and result in damage in interior surfaces, materials, furnishings and equipment.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Other Project Benefits/Justifications Comments:
 Major leaks in a number of areas require buckets and mops to prevent injury; new roof would allow support services staff to concentrate on regularly scheduled tasks. Roof replacement will reduce the number of OJI occurrences, and allow for maintaining dry storage areas. Air quality will improve as work areas will be free from dampness.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____
 Requested By: Edward L. Stanton, Jr. _____ General Sessions Court -Civil Division
 Name _____ Department/Division _____
 Project Name: Renovation to General Sessions Centralized Records/ Court Files
 Project Location: 140 Adams - Basement File/Court Room Clerks and Room 101

Project Estimated Useful Life (# of years):

Project Description:
 Currently, there are four (4) separate records rooms, neither of which are contiguous to each other. The current design requires us to exhaust many man-hours in document filing, file storage and file retrieval. In addition to providing greater file storage capacity in response to increasing demand, this project is designed to provide a centralized records room which will enhance security for court files and reduce man-hours in document filing, file storage and file retrieval.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go							\$ 310,382	\$ 310,382
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 310,382	\$ 310,382

Comments about Revenue Sources:
 Revenue source will be secured through funding sources and/or alternate source identified by Shelby County Finance applicable to the project.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7075 CIP-Demolition & Site Prep							\$ 75,000	75,000
7077 CIP-Major Equip/Components							\$ 171,273	\$ 171,273
7081 CIP-Supplies and Materials							\$ 64,109	64,109
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 310,382	\$ 310,382

How were these cost estimates determined? Please attach documentation to support estimates.
 The cost estimates were determined based on consulting with Shelby County Support Services and Public Works Division and obtain an outside quote on the proposed plan project.

What would be the impact of doing nothing or deferring this project by one or more years?
 Deferring this project would hinder the business from being effective and efficient in meeting the needs of the judges and other stakeholders.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Other Project Benefits/Justifications Comments (Required for "Yes" responses):
 This renovation project reduces the risks associated with potential OJI claims associated with staff traveling between multiple locations to obtain files/records. Also, it would make the office more effective and efficient in serving the internal needs of the Judges and the external needs of the community and other stakeholders.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? **No** Project/Section Number (for existing projects): _____
 Requested By: _____ Health Department Name _____ Health Department/Division _____
 Project Name: SCHD Raleigh/Frayser Community Wellness Center
 Project Location: Proposed - Former Raleigh Springs Mall (3384 Austin Peay Hwy, Memphis, TN 38128)

Project Description:

SCHD proposes to build a Community Wellness Center (CWC) for the Raleigh/Frayser area at the site of the former Raleigh Springs Mall, in connection with a proposed plan by the City of Memphis to turn the mall into a "civic plaza" that combines government buildings and retail. Proposed services to be available at the CWC include: 1.) Clinical Services - Infectious disease, dental, TennderCare, WIC, family planning, immunizations, well-child exams 2.) Behavioral Health 3.) Teaching/Education facility 4.) Partnership Corner (area for other agencies to co-partner) 5.) Outreach programs 6.) Environmental Services 7.) E-Health/Business Center (WIC, Environmental, Vital Records, and other County services) 8.) Services for the Aging (Senior) population 9.) Laboratory testing 10.) Food Commodities Warehouse.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go				\$ 158,500	\$ 3,000,000			3,158,500
Total Funding	\$ -	\$ -	\$ -	\$ 158,500	\$ 3,000,000	\$ -	\$ -	\$ 3,158,500

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 -CIP Architect & Engineer				\$ 158,500				\$ 158,500
7011 Buildings & Improvements					\$ 2,500,000			2,500,000
7003 Electronic & Computer Equipment					\$ 250,000			250,000
7009 Other Equipment (for Warehouse)					\$ 250,000			250,000
Total Project Cost	\$ -	\$ -	\$ -	\$ 158,500	\$ 3,000,000	\$ -	\$ -	\$ 3,158,500

How were these cost estimates determined? Please attach documentation to support estimates.

The CWC construction cost of \$184/sq. ft. is based on the square foot cost of Christ Community Health Services clinic that is projected to be built in 2014. That clinic will be at 969 Frayser Blvd., and is being built by Inman Construction. The Warehouse construction cost is based on an estimate from reedconstruction.com specific to building warehouses in Memphis, TN. The equipment for both the CWC and the Warehouse is unsupported at this point, as this project is in the early planning stages.

What would be the impact of deferring this project by one or more years?

We have already been without a clinic for this area for four years. As a preliminary result of the Mobilizing Action for Partnerships and Planning (MAPP) process (used for Community Health Assessment), we believe that approximately 25% (3,647 in comparing 2010 to 2013 data) of the patients once seen at the old Raleigh clinic are no longer participating in public health clinic programs.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments:

No additional revenue or personnel expense will be incurred by the County, as the programs that are currently identified to operate from the proposed facility are currently funded (mostly via grant). The changes to the operating expense is as of yet not fully determined. However, the building of this facility will allow the closure of the Galloway clinic. We are currently paying \$59,812.50 for annual lease cost at Galloway, and we are paying \$20,064 annually for lease cost paid to The Med for Tenndercare Outreach office space. Both of those fundings would be transferred to the proposed Raleigh/Frayser CWC. Utilities for Galloway are currently paid for by the Grants that operated from that facility, would be reasonable to expect the same for the CWC.

Other Project Benefits/Justifications Comments:

Operating efficiency, productivity improvements, and enhancements to public health will all be achieved by creating a comprehensive public health presence in an area that currently doesn't have one. By working with the City of Memphis in its civic plaza concept, we would be participating in a project whose ambition is to stimulate economic development in the Raleigh area. The project enhances the infrastructure of Shelby County by making more public health programs available to a segment of the community that significantly uses them. In time, the hope would be that other County services/agencies would join SCHD in its presence at this location. The positive environmental impact potentially comes from reducing the carbon footprint of the 814 Jefferson with the re-location of certain (not all) services to the CWC. All of the above serves to enhance the quality of life of Shelby County residents, and supports the strategic goals of Shelby County.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ?	<u>No</u>	Project/Section Number (for existing projects):	<u>307386</u>
Requested By:	<u>Cliff Norville</u>	Name	<u>Support Services</u>
Project Name:	<u>814 Jefferson Renovation</u>	Department/Division	<u></u>
Project Location:	<u>Health Department Administration Building at 814 Jefferson</u>		

Project Description:

The Shelby County Health Department facility is located at 814 Jefferson. The facility is comprised of three buildings: the original two-story building constructed in the 1950s, the six-story addition constructed in 1971, and the auditorium also constructed in 1971. Due to the age of the buildings, major expenditures are necessary to correct and/or repair building deficiencies, infrastructure problems and code compliance issues. Corrective action is required to address the following issues, as a minimum: brick façade repairs, asbestos abatement, roof replacement, HVAC replacement, electrical system grounding, ADA Title 2 compliance, and interior refurbishment. Preliminary cost estimates total several million dollars. In FY2013, Allen & Hoshall was selected to conduct a comprehensive analysis of Health Department facility needs and determine the feasibility of significant investment in the current facility or alternative locations. Pending the recommendations of the consultants Master Plan, funds are requested for FY2016 to either renovate existing buildings or invest in alternate locations.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go	\$ 827,000	\$ 396,000	\$ 1,200,000		\$ 19,900,000			\$ 21,100,000
Total Funding	\$ 827,000	\$ 396,000	\$ 1,200,000	\$ -	\$ 19,900,000	\$ -	\$ -	\$ 21,100,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7076 CIP-Construction Contracts		\$ 1,100,000	\$ 1,200,000		\$ 19,900,000			21,100,000
Total Project Cost	\$ -	\$ 1,100,000	\$ 1,200,000	\$ -	\$ 19,900,000	\$ -	\$ -	\$ 21,100,000

How were these cost estimates determined? Please attach documentation to support estimates.

Budget request was developed from consultant engineering assessments, as experienced in previous renovation projects within SCG.

What would be the impact of deferring this project by one or more years?

Building deterioration has escalated to potential hazards to public safety. Roof leaks in December caused a significant portion of the Lobby ceiling to collapse, exposing employees and the general public to friable asbestos. Water leaks from HVAC valves located above ceiling frequently require isolated asbestos abatement. In 2009, emergency steps were required to stabilize the brick facade above the building entrance, because the brick support system had failed. Each year of delay exposes SCG to a higher risk of litigation resulting from personal injury.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments:

A) No revenue generated. B) No impact on staffing/personnel expense. C) No impact on operational expenses.

Other Project Benefits/Justifications Comments:

3) The Health Department serves a large percentage of Memphis residents. Improving the existing facility or moving to a newer facility will reduce the threat of personal injury, when citizens are being served by the Health Department. 4) Local consultants are experienced in this type of assessment and should be eligible to bid. 5) If the assessment recommends that SCG invest in improvements to the current location, then, yes, this will be a preservation project. 6) Preservation of the existing facility will require asbestos abatement, which involves environmental issues. 8) This project relates to the Mayor's goal of meeting the service expectations of customers.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____

Requested By: Tom Needham Public Works

Project Name: Health Services Administration Relocation Department/Division

Project Location: _____

Project Estimated Useful Life (# of years):

Project Description:
Relocation of some Health Department employees to 160 N. Main will be necessary to complete renovations at the current 814 Jefferson building. These funds will provide for the necessary office construction or cubicle partitions and furniture.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 1,000,000					\$ 1,000,000
Total Funding	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7001 CIP-Office Furniture & Equipment			\$ 1,000,000					1,000,000
Total Project Cost	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

How were these cost estimates determined? Please attach documentation to support estimates.

What would be the impact of doing nothing or deferring this project by one or more years?

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments (Required for "Yes" responses):

Other Project Benefits/Justifications Comments (Required for "Yes" responses):



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ? No Project/Section Number (for existing projects): 800972

Requested By: Robert Meyers, Chairman Election Commission
Name Department/Division

Project Name: Voting Machines

Project Location: 150 Washington Ave and 980 Nixon Drive

Project Description:

The purchase of a voting machine system will bring Shelby County into compliance with 2005 Voluntary Voting Standard Guidelines (VVSG). All voting machines purchased for public election use in Tennessee must comply with 2005 VVSG standards. It will reduce or eliminate the need for vendor election day support. Purchase of a new voting system will establish a more modern system and satisfy advocates of optical scan, PVAT (paper verifiable audit trail), CRV (choice ranked voting/instant run-off and who oppose DRE voting machines).

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go						\$ 1,200,000		1,200,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000	\$ -	\$ 1,200,000

Comments about Revenue Sources:

The RFP will be developed in accordance with ITS project development guidelines and then submitted to the state. Additional units and stations as determined by allocation needs will require additional funds and cannot be estimated until a system is selected. **If this project is not funded by the state, the project must be funded through the county.**

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.						\$ 1,200,000		\$ 1,200,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000	\$ -	\$ 1,200,000

How were these cost estimates determined? Please attach documentation to support estimates.

The cost estimates were obtained using the quotes and estimates provided by 2005 VVSG compliant voting machine vendors that are certified by the Tennessee Election Commission and the State Coordinator of Elections for use in public elections this state. The vendors were provided statistical reports showing voter registration, early voting totals, and turnout reports for the 2012 federal and state primary. They are based on one scanner and vendor recommendations for 220 precincts and 21 early voting locations 242. The amount used here is the higher of the estimates received for optical scan equipment.

What would be the impact of doing nothing or deferring this project one or more years?

HAVA funds will not be available after June 30, 2014. Continued criticism of DRE and non 2005 compliant system, non-CRV, and non-PVAT. Continued dependence on vendor support for election. No paper verifiable audit. Continued suspicions regarding use of TSX 2002 VVSG DRE machines.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments (Required for "Yes" responses):

Changes to operating expenses cannot be reasonably estimated as paper, printing, and related costs are not known at this time. The cost of printing a simple ballot during the presidential preference primary costs approximately \$0.10 per page. A ballot for an election such as the upcoming 2014 elections would be considerably longer and layout factors are involved. As paper will be handled, stored, and managed by staff, it is not possible to estimate at this time. Budget impact inestimable at this time and will be provided as the information becomes available.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: _____ Application Services _____ Information Technology Services _____

Name _____ Department/Division _____

Project Name: ERP Replacement

Project Location: Information Technology Services Data Centers

Project Description:

This project will be to replace the current ERP system. The vendor has announced "end-of-life" for the ERP product that the County currently uses. A formal RFP will be developed to consider all options to insure that the new system will be able to integrate with other systems, the Information Hub and that the software can truly be used to serve as the fundamental base for all fiscal business of the County.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go						\$ 3,000,000		\$ 3,000,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000	\$ -	\$ 3,000,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.						\$ 3,000,000		\$ 3,000,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000	\$ -	\$ 3,000,000

How were these cost estimates determined? Please attach documentation to support estimates.

This estimate is based on the fee for our last major upgrade using the "Software for Life" option.

What would be the impact of doing nothing or deferring this project one or more years?

The current software may not be covered by Maintenance or there may be significantly higher cost for extended maintenance. The company is currently supporting the application, but it has announced there will not be any new enhancements to this product.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments (Required for "Yes" responses):

Software licensing and maintenance costs are usually twenty percent of purchase price of software, and sometimes calculated based on number of users.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

The software application should become easier to use and will make use of the latest software technology. This project supports the strategic goals of Shelby County by making it possible for the finance department to wisely manage SCG finances. It will also allow them to keep producing award winning reports. The citizens will benefit from continuing to have reports available to them that show the financial state of SCG.



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ?

 No Project/Section Number (for existing projects):

Requested By:

Edward L. Stanton and Richard DeSaussure

General Sessions Criminal Divisions
and Criminal Court

Name

Department/Division

Project Name:

iCJIS - Electronic Filing-System Enhancements

Project Location:

201 Poplar - General Sessions Criminal Division and Criminal Court

Project Description:

In the fiscal years 2012 through 2016 Capital Improvement Plan, under the budget index section, title General Government, page 26, Item 6, replace JMS/JSS/IMS systems (10-14 years old) in the amount of 8.4 million dollars. The system improvements included employing application tools to share information with other justice agencies and provide the appropriate information access to external stakeholders utilizing E-filing under the Integrated Criminal Justice Information System (ICJIS) project. The E-filing application is a modern programming tool, which will ensure the efficiency and effectiveness of the Criminal Justice systems. However, the E-filing was removed from the RFP request due to the lack of State of Tennessee guidelines/standards applicable to E-filing. Therefore, General Session Court-Criminal Division and Criminal Court Clerk Offices are submitting this CIP request to ensure the previously budgeted funds to purchase and deployment E-filing remain as an approved CIP project as part of the ICJIS computer system project for FY16.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go				\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
Total Funding	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000

Comments about Revenue Sources:

Revenue source has been previously established through the General Government Pay as You GO/G.O. Bonds in the Capital Improvement Plan report issued for Fiscal Years 2012 through 2016. We are requesting funds be secured through the same funding source and/or alternate source identified by Shelby County applicable to continuing the project.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.				\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
Total Project Cost	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense				\$ 70,000	\$ 70,000	\$ 70,000	210,000
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ 70,000	\$ 70,000	\$ 70,000	\$ 210,000

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

The E-filing application would maximize the case management system operations, to ensure efficiency and productivity for internal and external stakeholders. The Technology Report issued to Shelby County reported, "members of State Bar's throughout the country are supporting the concept of filing and retrieving documents and data without burden and costs associated physically going to the courthouse or paying a messenger." Therefore, E-filing will improve service to the public. With the new case management system, a complete paperless process using e-filing application would eliminate physical storage needs of paper forms, reports, and increase employee productivity to meet other needs of the courts. In addition, General Sessions and Criminal Court will set the standards for criminal e-filing for courts through-out the State of Tennessee.



Shelby County Capital Improvement Plan

Project Request Form for FY2017-2021

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: Technical Support Information Technology Services
Name Department/Division

Project Name: Out of Region Disaster Recovery Warm Site

Project Location: Undetermined Out of Region Co-location Facility

Project Description:

The County currently performs data backup operations for the computer systems in each of its two datacenters. Copies of the entire backup data are stored at both datacenters to facilitate off-site recovery of County data, should disaster strike one of the County's datacenters. Additionally, the County maintains a small amount of spare computer server capacity at each datacenter in order to facilitate limited recovery of very critical computer systems. The County's current data recovery preparations are insufficient for recovery of computer services in the event of a massive earthquake, or other regional disaster. Several of the County's computer systems, including Public Health and other first responder systems, require more robust backup and disaster recovery preparations. The warm recovery site for these critical County systems will be a disaster resistant facility, located more than 100 miles away from Shelby County, and be powered by an electrical power grid different from the County's TVA supplied grid. The site will receive daily updates of the County's backup data, and have sufficient available, Internet accessible computer server resources for hosting the critical County systems when needed.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 500,000					\$ 500,000
Total Funding	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.			\$ 500,000					\$ 500,000
Total Project Cost	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

How were these cost estimates determined? Please attach documentation to support estimates.

These costs are extremely rough (worst-case) estimates from past experience with purchasing hardware and software to outfit a datacenter. This project requires a significant amount of planning with each County department and with the offices of the elected officials that County ITS serves. The expected items that will need to be acquired include various hardware and software components of datacenter infrastructure, including: Internet connectivity and security, server network, file and applications server platforms and associated operating systems, various applications licenses, Storage Area Network (SAN), backup and replication hardware and software, remote monitoring and administration systems, datacenter cabinets and associated power distribution, cooling, and security.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments (Required for "Yes" responses):

There are expected increases in yearly costs associated with maintaining a Disaster Recovery Warm site. These costs will probably include co-location monthly fees, data communications circuits monthly fees, test activation overtime and travel expenses one to two times per year, and annual license and maintenance costs associated with the warm site equipment and software. No estimates of these costs are given at this time, since they would not be reasonably accurate.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

There is currently a risk of loss of some (or all) computer services in the event of a major regional disaster. A Disaster Recovery Warm Site will provide a computer environment that would be located sufficiently distant from Shelby County TN, to greatly reduce the possibility of the warm site being destroyed or incapacitated by the same regional disaster that impacts the two County datacenters. The warm site will be able to provide computer operations for critical County systems during the time that the damaged County infrastructure was being repaired or replaced - such systems might include 911 Computer Aided Dispatch, Emergency Management Agency support and operations systems, County Health, County Purchasing and Payroll, email, telephone, etc.



Shelby County Capital Improvement Plan

Project Request Form for FY2017-2021

Is this a New Project ?

No

Project/Section Number (for existing projects):

Requested By:

Technical Support

Information Technology Services

Name

Department/Division

Project Name:

Single Sign On Management

Project Location:

ITS Data Centers & Throughout Enterprise

Project Description:

This project has developed as a result of the steady increase in everyone's awareness for the need of security. The need for increased security is also a result of compliance such as PCI DSS, HIPPA HiTech Act and iCJIS. This all has resulted in the increased use of User ID and Password to sign on to many applications. The rules for creating User Id and Password is different from one software application to another. This has created the situation where a user has to remember multiple User Ids and the corresponding passwords. we are seeking to simplify the sign on process by employing Single Sign-on Management Software.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 350,000					\$ 350,000
Total Funding	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.			\$ 300,000					\$ 300,000
7074 CIP-Other Pro & Tech Svcs			\$ 50,000					50,000
Total Project Cost	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

How were these cost estimates determined? Please attach documentation to support estimates.

The estimates were developed from an estimate from Okta and Oracle. Okta and Oracle are firms which specializes in Single Sign-on technology.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense		\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	300,000
Total Impact on Operating Budget	\$ -	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000

Financial Impact Comments (Required for "Yes" responses):

Software licensing and maintenance costs are usually twenty percent of purchase price of software, and sometimes calculated based on number of object (user IDs) managed.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

This project will increase productivity by providing a uniform way for employees to access the various systems that are used throughout Shelby County Government. This should eliminate the need to remember a multitude of passwords.



Shelby County Capital Improvement Plan

Project Request Form for FY2017-2021

Is this a New Project ?

No

Project/Section Number (for existing projects):

Requested By:

Technical Support

Information Technology Services

Name

Department/Division

Project Name:

Core Infrastructure Refresh

Project Location:

Information Technology Services Datacenters & Core Network Sites

Project Description:

Upgrade/replace current core server and network hardware and software. Current core infrastructure systems that will have been in service 10 years will be at or nearing end of life, and will need to be replaced. This project will also address expected expansion of infrastructure to support evolving initiatives.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go						\$ 2,000,000		\$ 2,000,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -	\$ 2,000,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.						\$ 2,000,000		\$ 2,000,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -	\$ 2,000,000

How were these cost estimates determined? Please attach documentation to support estimates.

Current costs of equipment and software plus anticipation of additional service requirements due to growth, consolidation of County IT departments and evolving regulations. Equipment: Approx. 20 servers \$220K, 2 SANs upgrade/replace \$120K, Disk backup solution upgrade/replace \$100K, Firewalls & network edge systems \$60K, Core network routers \$1.2M. Software: Approx. 100 CPU licenses of Microsoft Server OS \$150K, Approx. 5,000 Microsoft user/device CALs \$90K, Approx. 10 Microsoft SQL CPU licenses \$45K, Updated logging & reporting security software \$15K.

What would be the impact of doing nothing or deferring this project one or more years?

Risk of being unable to provide services or comply with regulations due to hardware failure or software functionality. More than one year of delay may result in the County being unable to support current technology software packages.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense					(50,000)		(50,000)
Total Changes to Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ (50,000)	\$ -	\$ (50,000)

Financial Impact Comments (Required for "Yes" responses):

Yearly hardware and software maintenance costs escalate as equipment / software ages and approaches end of life. Operating end of life equipment / software exposes the County to additional financial risk from potential HIPAA and PCI fines. The updating / replacement of aging hardware will reduce yearly maintenance costs for the first one to three years following the purchase due to warranties and initial maintenance included with purchase. Advances in hardware (more efficient technologies) reduce energy costs by lower power consumption and lower heat production, and by increasing the per unit capacities for communications, processing & storage.

Other Benefits/Justifications (Required for "Yes" responses):

New features / efficiencies are usually realized with updated software and hardware. Since this project directly affects the County's network & server infrastructure it indirectly affects all other projects / goals that rely on data technology. This project has direct impact on fulfilling regulatory and compliance requirements such as Payment Card Industry - Data Security Standard (PCI-DSS) and Health Insurance Portability and Accountability Act (HIPAA).



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: _____ Maurice Denbow _____ Sheriff's Office
Name Department/Division

Project Name: Body/Vehicle Cameras and Vehicle Locators

Project Location: 11670 Memphis-Arlington Road, Arlington TN 38002

Project Description:

This project is to develop, install and provide maintenance for a single-source solution that provides an integrated body-worn camera, vehicle camera and automated vehicle locator system that will be used by our officers in the field and interact with our CAD system.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$2,500,000					\$ 2,500,000
Total Funding	\$ -	\$ -	\$2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.			\$2,500,000					\$ 2,500,000
Total Project Cost	\$ -	\$ -	\$2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000

How were these cost estimates determined? Please attach documentation to support estimates.

Cost estimates were determined by using a sample pricing of the items, monitoring the technology market, discussing progress with other local law enforcement agencies and direct contact with vendor sources.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Changes to Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments (Required for "Yes" responses):

No additional operational cost is anticipated for equipment or data storage and handling.

Other Benefits/Justifications (Required for "Yes" responses):

As seen across the nation and in recent events, the implementation of officer-worn body cameras, vehicle mounted cameras and automated vehicle locators greatly enhance officer safety, preserve public trust, and reduce potential liability to the County related to officer interaction with the public.



Shelby County Capital Improvement Plan

Project Request Form for FY2017-2021

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: John Halbert All Courts

Name **Department/Division**

Project Name: Courtrooms Technology Update

Project Location: All Courtrooms

Project Description:

Shelby County Support Services will soon begin refurbishing many of the Courtrooms however the funds requested did not include upgrading the technology within those courtrooms. This project will attempt to follow Support Services in making the appropriate technology upgrades as the courtroom are refurbished. While this project's goal is to upgrade all courtrooms it is recognized that the State must be willing to help share costs where appropriate as well as other funding sources should be used as well.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go				\$ 750,000				\$ 750,000
Total Funding	\$ -	\$ -	\$ -	\$ 750,000	\$ -	\$ -	\$ -	\$ 750,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7077 CIP - Major Equipment/Component				\$ 750,000				\$ 750,000
Total Project Cost	\$ -	\$ -	\$ -	\$ 750,000	\$ -	\$ -	\$ -	\$ 750,000

How were these cost estimates determined? Please attach documentation to support estimates.

Estimates are roughly based on the current estimates used in the new Environmental Court multiplied by the total number of courtrooms. (Roughly \$20,000 per courtroom)

What would be the impact of doing nothing or deferring this project one or more years?

Project should follow Support Services plan. If not additional funds may be needed for additional electrical and cabling.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							
c) Changes to Operating Expense							
Total Changes to Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Other Benefits/Justifications (Required for "Yes" responses):

Courtroom will be more efficient using technology for courtroom presentations. May provide the public better use of the court system and access to a fair trial. This project enhances the current infrastructure. This project could reduce the amount of paper required in courtrooms. Having more efficient courtrooms will have a positive impact on the quality of life of Shelby County Citizens. This project supports a more efficient cost effective government.



Shelby County Capital Improvement Plan

Project Request Form for FY2017-2021

Is this a New Project ? Yes Project/Section Number (for existing projects): _____

Requested By: Audrey Tipton 4002 Forensic Services
Name Department/Division

Project Name: Lodox Stats can VE1 Whole Body Imaging System

Project Location: West Tennessee Regional Forensic Center 637 Poplar Avenue Memphis, TN 38105

Project Description:

At the WTRFC there is currently only one functioning x-ray unit. This unit was brought over from the old forensic center and had been in operation for several years. The ability to function will be greatly impaired should this unit become disabled. The Lodox Stats can is technology that obtains high quality full-body radiographic images in a very short period of time. It has been proven to complete 7 full-body scans in the time to do 1 using the traditional technology. It is particularly helpful in foreign body detection in gunshot cases, and fracture detection in abuse/trauma cases with children and elder adults. Lodox is currently the only vendor available in North America that offers this technology. Although the Lodox system quoted is self contained, it is recommended that an imaging storing system PACS also accompany the Lodox. Currently the WTRFC has no imaging server and stored images are only backed up if they are placed on the Forensic Center DIDI System. The Lodox System and the PACS storage system will revolutionize how the forensic center does business and will place them on a path to excellence. Please review the attached documentation that further explains the system.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 441,585					441,585
Total Funding	\$ -	\$ -	\$ 441,585	\$ -	\$ -	\$ -	\$ -	\$ 441,585

Comments about Revenue Sources:

The WTRFC is funded primarily by the General Fund. Revenues have increased starting in FY2015 due to collections for autopsies performed at the forensic center for other counties. There are also reimbursements from Criminal Court and other Fees & Permits and State of Tennessee reimbursements.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7009 Other Equipment			\$ 415,000					\$ 415,000
7003 Electronic & Computer Equip.			\$ 26,585					26,585
Total Project Cost	\$ -	\$ -	\$ 441,585	\$ -	\$ -	\$ -	\$ -	\$ 441,585

How were these cost estimates determined? Please attach documentation to support estimates.

The County Medical Examiner and the other physicians and professionals at the WTRFC determined the best system based on the services most provided at the forensic center. Given the nature of the cases, multiple gunshots, foreign body, abuse and trauma, radiographs is the best system. The vendor has offered a \$5,000 discount if purchased in the first quarter of calendar 2016. The PACS storing system is sold separately and further research continues to be done for this system. This is the best price so far for what is needed. There is also required a DVS Viewing Station with up to 55" HDdk display.

What would be the impact of doing nothing or deferring this project one or more years?

The WTRFC is currently operating without a back-up. If the current GE x-ray unit becomes inoperable this will be catastrophic to the Criminal Justice system and the western region. Loss of the current system would mean autopsies would have to be done in Nashville or even further away. The revenue received currently from other Counties for autopsies is upward of \$400,000. This would be forfeited. The benefits of having a system like Lodox in place are immeasurable in the event of a mass casualty situation. Oklahoma City and Tulsa recently installed the first multi-system unit due to the terror attack they experienced in the past and have seen tremendous benefits. See attached article.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Financial Impact Comments (Required for "Yes" responses):

The quote has a 2nd year warranty for \$18,000.00 There is also an extended warranty for \$12,000.00 annually. This amount may be negotiable.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

The Lodox system can produce extremely high quality whole body images in 13 seconds. Staff does not physically lift and turn bodies cutting down on OJI cases. The full body scan radiographics will pick up fragments missed with conventional x-ray. There is no film involved so no cost and eliminates the time to change. This product enhances public health with less scatter radiation exposure to the staff and the environment. The quality of life of Shelby County residents is impacted by providing more accurate data that will assist in determining with precision and accuracy the cause of death eliminating significant doubt and contributing to the expedient closure to criminal and civil cases. One goal of the County is to improve Business Efficiency. This product will save time and money and provide the proper tools for the WTRFC to be successful.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? **Yes** **Project/Section Number (for existing projects):** _____

Requested By: _____ **Shawn McClure** _____ **ITS/Mayor's Administration**
Name **Department/Division**

Project Name: _____ **Data Governance: Risk and Compliance Management System** _____

Project Location: _____ **Information Technology Services affecting all departments utilizing SCG computer services.** _____

Project Estimated Useful Life (# of years):
10

Project Description:

Based upon the results of the FY15 HIPAA and HITECH Act Risk Assessment (RA), it is imperative that a Capital Improvement Plan (CIP) budget for this project be established for FY20. The purpose of this CIP project is to provide resources for the purchase of the Risk Management components of a Governance, Risk, and Compliance Management (GRC) system to document, support, and centralize the Risk-Assessment and management processes of County Security Management. These assessments are required by the HIPAA §164.308(a)(1)(ii)(a) and Payment Card Industry Data Security Standard requirement 12.2.

This system will permit completion of more accurate, timely and thorough RA of the potential risks and vulnerabilities to the confidentiality, integrity, and availability of sensitive data (SD) (Card Holder Data, Protected Health Information, and Personally Identifiable Information) held in County systems and held by County HIPAA business associates. These assessments are a critical function for the County offices that handle SD to minimize the possibility of real exposures and minimizing potential gaps in privacy and security controls in the most efficient manner. RAs are an ongoing requirement for the purpose of identifying "reasonably foreseeable" internal and external risks to the security and confidentiality of SD that could lead to unauthorized disclosure. The specific RA requirements identified by the latest risk assessment include the requirements that RAs;

- Be updated annually or whenever significant changes are made to systems or processes affecting SD.
- Be expanded to ensure all systems affected by compliance requirements (HIPAA, PCI DSS, and PII) are in-scope.
- Be integrated as part of the daily operations and Information Technology Services (ITS) support routine procedures.
- Assess risk in the following manner that includes but is not limited to:
 - Identifying reasonably foreseeable internal and external threats.
 - Assess the likelihood and potential damage of these threats.
 - Assess the sufficiency of technical and management controls to minimize risks.
- Provide updates to stakeholders and Executive Management.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go						\$ 300,000		300,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 300,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 - Electronic & Computer Equipme						\$ 300,000		\$ 300,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 300,000

How were these cost estimates determined? Please attach documentation to support estimates.

Cost estimates were developed through review of existing technologies available from Varonis, Oracle, and Informatica. Cost estimates were taken from quotes or web pricing from these solution providers. Further research will be required to determine the best method to accomplish this goal. Estimated cost for future years will be affected by ongoing efforts to identify the use of these data type throughout SCG.

What would be the impact of doing nothing or deferring this project one or more years?

Deferring this project will result in continued, and increasing, risk of breach to PHI, CHD, and other SD held by SCG through the increasing possibility of breach due to undiscovered vulnerabilities. Due to the specific identification of this risk in the annual risk assessment, any breaches of PHI occurring due to this vulnerability are more likely to receive fines from Housing and Human Services and to receive higher fines per incident. Breach expenses currently run approximately \$240 per record. Shelby County Government has in excess of 100,000 patient records on various systems throughout the County. Implementation of this system will permit for more efficient off-boarding and regular review of system access capabilities resulting in improved user management of access reducing inappropriate access to data.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense						60,000	60,000
Total Impact on Operating Budget	\$ -	\$ 60,000	\$ 60,000				

Financial Impact Comments (Required for "Yes" responses):

The ongoing cost for system licensing and maintenance is estimated to be 20% annually. This will result in an ongoing maintenance expense of \$60,000 per year. This expense represents the maintenance required for the entire system and is required to ensure the system is maintained and updated throughout the useful life. Based upon the currently identified scope of compliance within SCG and the potential and likely expansion of this beyond the currently affected Departments and Offices, it is anticipated that additional personnel will be required to manage and utilize this system.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

The FY15 HIPAA and HITECH Act risk assessment, covering Health Services, Corrections, the Aging Commission, and Information Technology Services, identified the lack of a robust RA program within SCG as a significant risk and recommends the implementation of improved solutions and processes to reduce the risk of data breach under HIPAA requirement §164.308(a)(1)(ii)(a). This project will both preserve and enhance the infrastructure by providing an infrastructure for this requirement. It will also improve the productivity of County personnel by providing the tools necessary to efficiently and effectively complete RAs for the many systems and departments within SCG. This project aligns with the County Information Technology Services primary goal ... "To deliver a secure and stable communications network and computers system infrastructure".



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____

Requested By: Shawn McClure Name ITS/Mayor's Administration
Department/Division

Project Name: Data Governance: System Access Control Administration & Review

Project Location: All County computer system users

Project Estimated Useful Life (# of years):
10

Project Description:

Based upon the results of the FY15 HIPAA and HITECH Act risk assessment, it is imperative that a Capital Improvement Plan (CIP) budget for this project be established for FY18. The purpose of this CIP project is to provide resources for the purchase of a centralized data governance system (data identification, categorization, and access management) for Shelby County Government (SCG) managed resources.
§164.308(a)(3)(ii)(C)

The provided data identification and categorization will permit the County to know and understand the data in use in various County departments and systems throughout County Offices and Departments. This will permit improved access management, review, scoping and auditing. By providing improved information concerning who is granted rights to given data types, the County can regularly perform review and validation or revocation of these rights including tracking of access to third party systems allowing for the timely notification of off-boarding to third parties to which staff or vendors have access, on behalf of SCG. This system will be the central point of reference and assurance of access removal for off-boarding of all County staff and vendors.

The specific risk assessment results addressed include;

- SCG must have an agreed upon process for off-boarding of staff and contractors.
- A complete list of system access must be identified at the time of departure from Shelby County.
- Externally hosted system accesses must be removed in a timely manner.
- Existing System access should be reviewed at least quarterly by the employee's department to;
 - o Ensure recently terminated staff/contractors have had their access removed.
 - o Ensure proper access levels are correct.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go				\$ 300,000				300,000
Total Funding	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 - Electronic & Computer Equipm				\$ 300,000				\$ 300,000
Total Project Cost	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000

How were these cost estimates determined? Please attach documentation to support estimates.

Cost estimates were developed through review of existing technologies available from Varonis, Oracle, and Informatica. Cost estimates were taken from quotes or web pricing from these solution providers. Further research will be required to determine the best method to accomplish this goal. Estimated cost for future years will be affected by ongoing efforts to identify the use of these data type throughout SCG.

What would be the impact of doing nothing or deferring this project one or more years?

Deferring this project will result in continued, and increasing, risk of breach to PHI data, CHD, and other data held by SCG through the continued access to sensitive data. Due to the specific identification of this risk in the annual risk assessment, any breaches occurring due to this vulnerability are more likely to receive fines from Housing and Human Services and to receive higher fines per incident. Breach expenses currently run approximately \$240 per record. Shelby County Government has in excess of 100,000 patient records on various systems throughout the County. Implementation of this system will permit for more efficient off-boarding and regular review of system access capabilities resulting in improved user management of access reducing inappropriate access to data.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense				\$ 60,000	\$ 60,000	\$ 60,000	180,000
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ 60,000	\$ 60,000	\$ 60,000	\$ 180,000

Financial Impact Comments (Required for "Yes" responses):

The ongoing cost for system licensing and maintenance is estimated to be 20% annually. This will result in an ongoing maintenance expense of \$60,000 per year. This expense represents the maintenance required for the entire system and is required to ensure the system is maintained and updated throughout the useful life.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

The FY15 HIPAA and HITECH Act risk assessment, covering Health Services, Corrections, the Aging Commission, and Information Technology Services, identified the lack of sufficient System Access Control Administration & Review as a significant risk and recommends the implementation of improved solutions and processes to reduce the risk of data breach under HIPAA requirement §164.308(a)(3)(ii)(C) for areas mentioned. This project will both preserve and enhance the infrastructure by providing an infrastructure for this requirement and will increase the productivity of County employees by providing centralized access management. This project aligns with the County Information Technology Services primary goal "... To deliver a secure and stable communications network and computers system infrastructure".



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? **Yes** Project/Section Number (for existing projects): _____

Requested By: Shawn McClure Name ITS/Mayor's Administration Department/Division

Project Name: Enhanced Data Encryption

Project Location: County system users in ITS, Health Services, Aging, and Corrections and locations of those utilizing County email, file storage, and network services.

Project Estimated Useful Life (# of years):
10

Project Description:
Based upon the results of the FY15 HIPAA and HITECH Act risk assessment, it is imperative that a Capital Improvement Plan (CIP) budget for this project be established for FY17. The purpose of this CIP project is to provide for the encryption of sensitive data including Protected Health Information (PHI) and Card Holder Data (CHD) which is stored and transmitted on, or from, Shelby County Government systems. The ideal solutions will allow for the centralized management of an encryption solution for storage (on servers, workstations, laptops, and removable drives), SCG County email (allowing the sending and receiving of sensitive information), and County-issued mobile smart phone devices. The FY15 HIPAA and HITECH Act risk assessment, covering Health Services, Corrections, the Aging Commission, and Information Technology Services, identified lack of encryption solutions as a significant risk and recommends the implementation of improved encryption to reduce the risk of data breach under HIPAA requirement §164.312(a)(2)(iv) for all areas mentioned. The recommendation specifically details the following:
1) Email encryption solutions which are more intuitive and automated and include a data loss prevention (DLP) functions to identify PHI data and block its transmission unless it is encrypted.
2) Full disk encryption for laptops and USB drives as well as for desktops and servers that are located in less physically secure locations.
3) Mobile encryption should be installed on all devices allowed to connect to the Shelby County email or network environment.
This project will cover two years with the email encryption being implemented during year one, 2017, and the remaining solutions being put in place in year two, 2018.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 200,000					200,000
Total Funding	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 - Electronic & Computer Equipm			\$ 200,000					\$ 200,000
Total Project Cost	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

How were these cost estimates determined? Please attach documentation to support estimates.
These cost estimates were developed through review of existing technologies available from Symantec, Trend Micro, and Dell. The pricing was taken from the General Service Administration (GSA) Website and the volume of licenses required are based upon the County's current Payment Card Industry (PCI) scope and the numbers of users and devices handling Protected Health Information (PHI) as identified in the FY15 risk assessment. Further research will be required to determine the best method to accomplish this goal. Additionally, estimated cost for future years will be affected by ongoing efforts to identify the use of these data type throughout SCG.

What would be the impact of doing nothing or deferring this project one or more years?
Deferring this project will result in continued, and increasing, risk of breach to PHI data and CHD held by SCG. Due to the specific identification of this risk in the annual risk assessment, any breaches occurring due to this vulnerability are more likely to receive fines from Housing and Human Services and to receive higher fines per incident. Breach expenses currently run approximately \$240 per record. Shelby County Government has in excess of 100,000 patient records on various systems throughout the County.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense			\$ 6,600	\$ 37,750	\$ 37,750	\$ 37,750	119,850
Total Impact on Operating Budget	\$ -	\$ -	\$ 6,600	\$ 37,750	\$ 37,750	\$ 37,750	\$ 119,850

Financial Impact Comments (Required for "Yes" responses):
The ongoing cost for system licensing and maintenance is estimated to be 20% annually. This will result in an FY18 expense of \$6,600. This expense represents the maintenance required for the email encryption solution. Outlying years 2019 through 2021 represent the maintenance costs for all components currently estimated at \$37,750 per year.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):
The FY15 HIPAA and HITECH Act risk assessment, covering Health Services, Corrections, the Aging Commission, and Information Technology Services, identified lack of encryption solutions as a significant risk and recommends the implementation of improved encryption to reduce the risk of data breach under HIPAA requirement §164.312(a)(2)(iv) for all areas mentioned. This project will both preserve and enhance the infrastructure by providing an infrastructure for this protection, through encryption, of sensitive data held by the County on behalf of the public. This project aligns with the County Information Technology Services primary goal .."To deliver a secure and stable communications network and computers system infrastructure".



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ? Yes Project/Section Number (for existing projects): _____

Requested By: Shawn McClure ITS/Mayor's Administration
Name Department/Division

Project Name: Security Incident and Event Management

Project Location: Information Technology Services affecting all departments utilizing SCG computer services.

Project Estimated Useful Life (# of years):

Project Description:

Based upon the results of the FY15 HIPAA and HITECH Act risk assessment, it is imperative that a Capital Improvement Plan (CIP) budget for this project be established for FY17. The purpose of this CIP project is to implement a Security Incident and Event Management system for Shelby County Government (SCG) provided resources. This system will provide for much better visibility, live alerting, and response while also greatly enhancing data mining capabilities for response to data breaches which will allow for more efficient identification of and response to threats affecting SCG ITS provided and maintained systems and users. The current solution scope includes the network ingress and egress points, primary routers and firewalls, and the servers and workstations which are current in scope for the County's identified departments handling Protected Health Information (PHI) and Card Holder Data (CHD). The ideal solution will allow for the centralized management of logs from network, server, and workstation devices and easy scaling to new devices as they are determined to transmit, process, or store sensitive data.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 250,000					250,000
Total Funding	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 - Electronic & Computer Equipm			\$ 250,000					\$ 250,000
Total Project Cost	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

How were these cost estimates determined? Please attach documentation to support estimates.

These cost estimates were developed through review of existing technologies available from Dell Secureworks, EIQ Networks, Splunk, and Logrhythm. The pricing was taken from both quotes and web pricing from these solution providers and are based upon the County's current Payment Card Industry (PCI) scope and the numbers of users and devices handling Protected Health Information (PHI) as identified in the FY15 risk assessment. Further research will be required to determine the best method to accomplish this goal. Additionally, estimated cost for future years will be affected by ongoing efforts to identify the use of these data type throughout SCG.

What would be the impact of doing nothing or deferring this project one or more years?

Deferring this project will result in continued, and increasing, risk of breach to PHI data, CHD, and other data held by SCG. Due to the specific identification of this risk in the annual risk assessment, any breaches occurring due to this vulnerability are more likely to receive fines from Housing and Human Services and to receive higher fines per incident. Breach expenses currently run approximately \$240 per record. Shelby County Government has in excess of 100,000 patient records on various systems throughout the County.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense			\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000	156,000
Total Impact on Operating Budget	\$ -	\$ -	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000	\$ 156,000

Financial Impact Comments (Required for "Yes" responses):

The ongoing cost for system licensing and maintenance is estimated to be 20% annually. This will result in an ongoing maintenance expenses of \$39,000 per year. This expense represents the maintenance required for the entire system and is required to ensure the system is maintained and updated throughout the useful life.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

The FY15 HIPAA and HITECH Act risk assessment, covering Health Services, Corrections, the Aging Commission, and Information Technology Services, identified lack of sufficient monitoring toolsets as a significant risk and recommends the implementation of improved toolsets to reduce the risk of data breach under HIPAA requirement §164.308(a)(1)(i) for all areas mentioned. This project will provide for a centralized monitoring toolset, in the form of a SIEM, which will allow for more efficient identification of and response to threats affecting SCG ITS provided and maintained systems and users. This project aligns with the County Information Technology Services primary goal .."To deliver a secure and stable communications network and computers system infrastructure".



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ? Yes Project/Section Number (for existing projects): _____

Requested By: _____
 Technical Support Name Information Technology Services Department/Division

Project Name: Jail Fiber-optic Cable

Project Location: 201 Poplar, Jail, Jail Annex, and Jail Kitchen

Project Estimated Useful Life (# of years):
 More than 10

Project Description:
 Replace 17+year old multimode fiber-optic cable in the Jail, Jail Annex and Jail Kitchen with current technology single mode fiber-optic cable. Existing multimode fiber-optic cable plant will not support new high-speed data networks over the extended distances cables must run in the Jail, Jail Annex, and Kitchen. This project will also increase the resiliency of the Inmate control systems by adding backbone redundancy and route diversity to the network.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go				\$ 200,000				200,000
Total Funding	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ 200,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7024 - Infrastructure-Other				\$ 200,000				\$ 200,000
Total Project Cost	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ 200,000

How were these cost estimates determined? Please attach documentation to support estimates.
 Current costs of equipment and software plus anticipation of additional service requirements due to growth, consolidation of County IT departments and evolving regulations. Equipment: Approx. 20 servers \$220K, 2 SANs upgrade/replace \$120K, Disk backup solution upgrade/replace \$100K, Firewalls & network edge systems \$60K, Core network routers \$1.2M. Software: Approx. 100 CPU licenses of Microsoft Server OS \$150K, Approx. 5,000 Microsoft user/device CALs \$90K, Approx. 10 Microsoft SQL CPU licenses \$45K, Updated logging & reporting security software \$15K.

What would be the impact of doing nothing or deferring this project one or more years?
 Risk of being unable to provide services or comply with regulations due to failure of aging fiber-optic cable plant. More than two years of delay may result in the County being unable to support current technology network equipment.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Other Project Benefits/Justifications Comments (Required for "Yes" responses):
 New features / efficiencies are usually realized with updated network infrastructure components. Since this project directly affects the County's network infrastructure it indirectly affects all other projects / goals that rely on data technology. This project also direct impacts the operation of the inmate control equipment and systems that rely on network connectivity.



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ?

No

Project/Section Number (for existing projects):

800971

Requested By:

Robert Meyers

Election Commission

Name

Department/Division

Project Name:

ESM Voter Registration System Replacement

Project Location:

150 Washington Ave and 980 Nixon Drive

Project Estimated Useful Life (# of years):

5

Project Description:

The Shelby County Election Commission's voter registration system software is Election System Management (ESM). ESM is one of a five part election delivery system infrastructure. The ESM voter registration system is a critical system that is operating without vendor support or maintenance and therefore presents a critical risk with exceptionally high consequence. This also presents security risks. The main objective of this project is risk mitigation. The current risk to the citizens of Shelby County is critical and has been deemed unacceptable as to its potential negative impact. While ESM is generically referred to as the 'voter registration system' as it manages the Shelby County voter registration database, it serves numerous other functions such as voter history update, ballot build, voting, redistricting, reporting, etc. Replacement for ESM would require one or more systems that replicates all of the current ESM functionality.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go		\$ 178,660	\$1,000,000					\$ 1,000,000
Total Funding	\$ -	\$ 178,660	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.		\$ 178,660	\$1,000,000					\$ 1,000,000
Total Project Cost	\$ -	\$ 178,660	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

How were these cost estimates determined? Please attach documentation to support estimates.

Quotes from vendors, requests for information. At least one proposal was previously provided by an established vendor that currently provides services and products to the election commission. In response to an RFI sent out by the election commission on the subject of voter registration systems, other vendors will be providing information about their voter registration system offering. The vendor that submitted a proposal a year ago has confirmed that the cost estimates are still valid.

What would be the impact of doing nothing or deferring this project one or more years?

The impact of deferring the this project for one year or more years would result in an increase to an already critical risk. While there are other critical technological systems that compromise the election delivery system infrastructure, the ESM system is the only one in use on an ongoing basis daily. The impact could cause one or more of the following: Disruption to an election and/or early voting, no voter registration database access or management, not voter related reporting, no state up dates, no candidate management, no national change of address, inability to comply with the state and federal laws and guidelines.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense		\$200,000	\$200,000	\$200,000			600,000
Total Impact on Operating Budget	\$ -	\$ 200,000	\$ 200,000	\$ 200,000	\$ -		\$ 600,000

Financial Impact Comments:

The \$200,000 per year operating expense is for software license and fees at a rate of 20% as obtained from the highest project quote estimate. The cost per year for software license and fees obtained from the lowest quote was \$251,000 per year. Changes to personnel and other operating expense will remain inestimable until project is approved, project scope, system specifications developed, etc.

Other Project Benefits/Justifications Comments:

The completed project will allow the election commission to operate with reduced involvement of vendors. The implementation of a new system will provide more flexibility and better utilization of data. It will reduce the amount of time currently required to manually create certain reports and increase the reporting capability of the election commission. Currently some reports are done manually and take an extensive amount of time. The project's enhancement to Shelby County's infrastructure is provided through improved security and risk mitigation. It also improves the ability of the election commission to manage elections. The voter registration system is an essential and critical part of the election commission's infrastructure. Since the election commission is critical to democratic process itself, it is critical part of the county's infrastructure that must be strengthened, secured, and improved proactively. The present risk of a major information technology and election process problem can be averted if action is taken soon. This is the primary system that all staff members work from daily. All major functions of the election commission flow from this system directly or indirectly. Hence, it is a high value asset that must be protected. A failure to this system would have incalculable consequences for the citizens of Shelby County and the state of Tennessee.



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: _____ Tom Needham _____ Public Works
Name Department/Division

Project Name: _____ Veteran's Home Project _____

Project Location: _____ Vicinity of the former Naval Air Station in Millington _____

Project Description:

Two million dollar contribution by Shelby County in 2016 to fund construction of a \$30.1 million, 140 bed facility that would care for veterans who reside in West Tennessee. Forty (40) acres will be required for the facility. Sixty-five percent (65%) of the cost will be funded by the Veteran's Administration and thirty-five percent (35%) will be funded by the State of Tennessee, Private Donations and Shelby County.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 2,000,000					2,000,000
Total Funding	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000

Comments about Revenue Sources:

Shelby County's cost share of \$2.0 million is less than 7% of the total project costs of \$30.1 million. The balance of \$28.1 million is being provided by other sources.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7076 CIP-Construction Contracts			\$ 2,000,000					\$ 2,000,000
Total Project Cost	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

This project will provide hospital care for veterans who reside in West Tennessee. There are 62,800 veterans residing in Shelby County, 2,952 in Fayette County, and 6,003 in Tipton County. This is a total of 71,799 veterans in the West Tennessee target area.



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ? No Project/Section Number (for existing projects): Replaces East Pavilion expansion

Requested By: John Charles Wilson Agricenter
Name Department/Division

Project Name: Renovations and upgrades to Show Place Arena

Project Location: Agricenter

Project Description:

This project will implement the recommendations from a conceptual plan developed to provide space at the Show Place arena for a large variety of uses.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go		\$ 250,000		\$ 3,500,000				3,500,000
Total Funding	\$ -	\$ 250,000	\$ -	\$ 3,500,000	\$ -	\$ -	\$ -	\$ 3,500,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs		\$ 250,000						\$ -
7076 CIP-Construction Contracts				\$ 3,500,000				3,500,000
Total Project Cost	\$ -	\$ 250,000	\$ -	\$ 3,500,000	\$ -	\$ -	\$ -	\$ 3,500,000

How were these cost estimates determined? Please attach documentation to support estimates.

The cost estimate is based on preliminary estimates prepared by consultant preparing the conceptual design for the project.

What would be the impact of doing nothing or deferring this project by one or more years?

Agricenter International has experienced losses on the operation of the Showplace Arena for the past 6 years. This renovation and upgrade will allow the facility to expand their services to additional users and provide the means to continue to operate the facility.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue			\$ (200,000)	\$ (20,000)			\$ (220,000)
b) Changes to Personnel Expense							-
c) Changes to Operating Expense			\$ 80,000	\$ 80,000			160,000
Total Impact on Operating Budget	\$ -	\$ -	\$ (120,000)	\$ 60,000	\$ -	\$ -	\$ (60,000)

Financial Impact Comments (Required for "Yes" responses):

A. Agricenter expects to be able to pull in revenue from new events and increase revenue from the new uses of the facility B. The agricenter will possibly hire one new employee due to the increased work load from the additional space. This will be at Agricenter Expense. C. With any new addition there is added expense for utility costs, repairs, etc. However the additional cost will be paid by the Agricenter from the revenues generated from usage fees of the new space.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: _____
Name Department/Division

Project Name: _____ FedEx Forum Maintenance

Project Location: _____ FedEx Forum

Project Description:

The FedEx Forum is now in its 11th year of operation and the capital needs are increasing. The agreements with the Memphis Grizzlies provide that they will manage the FedEx Forum and the City of Memphis and Shelby County are responsible for the capital needs of the facility to maintain it as a first class NBA Arena. The original financing of the facility included a \$10 million Capital Reserve Fund. This fund has been used judiciously during the first eleven years but is expected to be exhausted within the next two years. The Memphis Grizzlies have had a facility assessment prepared that indicates substantial capital needs going forward as the building ages.

Once the Capital Reserve Fund is exhausted, Shelby County and the City of Memphis are required to equally fund all capital requirements. To make everyone aware of this obligation, we have included \$5 million per year starting in Fiscal 2018 for the Shelby County share of capital requirements of the FedEx Forum. Over the next few months, we will be working closely with the Memphis Grizzlies to assess projected needs.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 2,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	14,000,000
Total Funding	\$ -	\$ -	\$ 2,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 14,000,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs			\$ 2,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 14,000,000
7076 CIP-Construction Contracts								-
Total Project Cost	\$ -	\$ -	\$ 2,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 14,000,000

How were these cost estimates determined? Please attach documentation to support estimates.

The Memphis Grizzlies have had a facility assessment prepared that indicates substantial capital needs going forward as the building ages.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____
 Requested By: Tom Needham _____ Agricenter
 Name _____ Department/Division _____
 Project Name: Agricenter HVAC Retrofit and Replacement
 Project Location: Agricenter Event Center

Project Estimated Useful Life (# of years):
 25 years Present units are 30 yrs old

Project Description:
 The project is to replace 31 Rooftop units which were installed in 1985 and make modifications to the installation to be code compliant with new mechanical and plumbing codes. The new units will be high efficiency units with night setback controls and proper ventilation rates to meet ASHRAE standards. The existing air distribution system in the facility will be modified to maintain space setpoints in the dome area. The existing gas piping on the roof will be braced to meet the seismic requirements of the Code. The existing condensate drains, which presently drain directly on the roof will be modified to drain the condensate into the sewer system per code. A new DDC energy management control system will be install to monitor and schedule the HVAC system. The total amount of outside serving the area will be increased to meet code requirements, however the new system with the high efficiency units and control system will reduce the energy use by approximately \$30,000 per year.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 2,250,000					\$ 2,250,000
Total Funding	\$ -	\$ -	\$ 2,250,000	\$ -	\$ -	\$ -	\$ -	\$ 2,250,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs			\$ 150,000					\$ 150,000
7076 CIP-Construction Contracts			\$ 2,100,000					2,100,000
Total Project Cost	\$ -	\$ -	\$ 2,250,000	\$ -	\$ -	\$ -	\$ -	\$ 2,250,000

How were these cost estimates determined? Please attach documentation to support estimates.
 Agricenter International retained the services of HNA Engineering to provide an assessment for the existing HVAC system. An estimated cost for the project was presented in that assessment. Copy of full assessment attached.

What would be the impact of doing nothing or deferring this project by one or more years?
 The existing units, which have exceeded their service life will continue to fail which will be the source of complaints by the facility users and increase the maintenance cost for the units.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense			\$ 76,000	\$ 80,000	\$ 84,000	\$ 88,000	328,000
Total Impact on Operating Budget	\$ -	\$ -	\$ 76,000	\$ 80,000	\$ 84,000	\$ 88,000	\$ 328,000

Financial Impact Comments (Required for "Yes" responses):
 Based on the study prepared by HNA for Agricenter International the new system will reduce the energy cost by \$31,000 a year. Based on the expenses for repair of the old units during the past 2 years, the maintain cost will be reduced by approximately \$46,000 a year and is projected to increase in future years. The maintenance cost in FY14 was \$44,850 and in FY15 the cost was \$48,910 The condensate draining into the sewer, rather than on the roof, will increase the life of the roof.

Other Project Benefits/Justifications Comments (Required for "Yes" responses):
 2) The amount of outside air supplied to the space is does not meet regulatory requirements and could effect the health of some occupants. 3) The additional outside air to the space does enhance the public health of those attending events at the Agricenter. 5) The replacement of the HVAC system will insure the Agricenter will provide a suitable venue to events. 6) The new units will be more efficient which reduces green house gas emmissions and will use environmental friendly freon.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? Yes Project/Section Number (for existing projects): _____
 Requested By: Cliff Norville Name: Agricenter
 Project Name: Shelby Farms Park Conservancy Storage Building Department/Division: _____
 Project Location: Haley Road

Project Estimated Useful Life (# of years):

Project Description:

The Shelby Farms Park Conservancy currently utilizes an old barn on Haley Road to store maintenance vehicles and equipment, as well as, displays from "Starry Nights" and other park attractions. The barn is a wooden structure originally constructed as part of the Shelby County Penal Farm. The exact construction date is not known, but the barn is over 75 years old. The barn is in extreme disrepair. The roof has failed, including a large hole on the south end. The walls have warped beyond repair. Most windows are broken. The building has no insulation. The building is unsafe for the employees, who access items stored inside. This project involves demolition of the existing barn, architectural/engineering consultant services for design of a new structure at the current location, and construction of a new insulated metal building to accommodate the maintenance and storage needs of the Conservancy. The warehouse is approximately 6,800 ft². The cost per square foot is approximately \$190/ft². This is high for a typical warehouse structure, but the total cost includes several factors driving the cost higher than normal, such as: building height of 20 feet to accommodate the "Starry Nights" exhibits, jib crane, equipment lift, multi-process welder, 1/3 of building is fully conditioned with ADA compliant restrooms for maintenance staff. Plus, the total cost includes new paving around the perimeter of the building.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 125,000	\$ 1,300,000				\$ 1,425,000
Total Funding	\$ -	\$ -	\$ 125,000	\$ 1,300,000	\$ -	\$ -	\$ -	\$ 1,425,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs			\$ 125,000					\$ 125,000
7076 CIP-Construction Contracts				\$ 1,300,000				1,300,000
Total Project Cost	\$ -	\$ -	\$ 125,000	\$ 1,300,000	\$ -	\$ -	\$ -	\$ 1,425,000

How were these cost estimates determined? Please attach documentation to support estimates.

Support Services staff prepared the cost estimate. Means Construction Cost Estimating Guide was used for estimating building material and labor costs for typical structures. Adjustments were made to account for local pricing.

What would be the impact of doing nothing or deferring this project by one or more years?

The Conservancy would continue to use the building for storage. Items stored in the barn would be exposed to the elements and deteriorate. Employees who access stored items would be at risk of personal injury due to the hazardous conditions in the barn.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Other Project Benefits/Justifications Comments (Required for "Yes" responses):

The existing structure has deteriorated beyond repair. This project includes the demolition of the existing structure and construction of a replacement building, thereby enhancing SCG infrastructure.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): 201299
 Requested By: _____
 Name: _____ Department/Division: _____
 Project Name: _____
 Project Location: Contingency

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
County Funding - Pay-As-You Go			\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	5,000,000
Total Funding	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 5,000,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7079 CIP-Other Project Costs			\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	5,000,000
Total Project Cost	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 5,000,000



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ? No Project/Section Number (for existing projects): 301074

Requested By: Tom Needham Public Works

Name **Department/Division**

Project Name: Holmes Road

Project Location: Riverdale Road to Hacks Cross Road

Project Description:

This project improves a 2.2 mile residential segment of Holmes that is recommended for improvement due to growth in this area of Shelby County and the need for improved pedestrian and bicycle mobility. The roadway is being improved from two to four lanes with a treed median, bicycle lanes and sidewalks. A large elementary school lies along this section of roadway.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Federal Funding						\$ 280,000	\$ 7,200,000	7,480,000
County Funding - Pay-As-You Go						\$ 70,000	\$ 1,800,000	\$ 1,870,000
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000	\$ 9,000,000	\$ 9,350,000

Comments about Revenue Sources:

The project design is complete and a majority of the right-of-way has been dedicated during the land development process.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7071 CIP-Land & Right-of-Way						\$ 350,000		\$ 350,000
7072 CIP-Architectural & Eng Svcs								-
7076 CIP-Construction Contracts							\$ 9,000,000	\$ 9,000,000
Total Project Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000	\$ 9,000,000	\$ 9,350,000

How were these cost estimates determined? Please attach documentation to support estimates.

These estimated costs were calculated from estimated quantities by consultant for this project.

What would be the impact of doing nothing or deferring this project by one or more years?

The main impact would be the increase in construction costs.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							-
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments (Required for "Yes" Responses):

A) No revenue generated. B) No impact on staffing/personnel expense. C) No impact on operational expenses.

Other Project Benefits/Justifications Comments (Required for "Yes" Responses):

This project will correct poor geometry and provide two (2) additional lanes. It will improve safety with the removal of vertical curves for better sight distance and provide accommodations for pedestrians and bicyclists. Additional lanes will reduce congestion especially during the opening and closing of Highland Oaks Elementary. The road design incorporates complete street principles which follow the sustainable Shelby initiatives. It will enhance livability and have a positive impact on property values for citizens in the southeast area of Shelby County.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ?	<u>No</u>	Project/Section Number (for existing projects):	<u>301082</u>
Requested By:	Tom Needham		Public Works
	Name		Department/Division
Project Name:	Walnut Grove Road Expansion		
Project Location:	Rocky Point to Houston Levee		

Project Description:

This project improves a 1.0 mile of segment of Walnut Grove Road by widening the existing roadway from two to four lanes, correcting geometry, adding bicycle and pedestrian facilities for improved mobility and widening the bridge over Grays Creek. This project includes improvements at the intersection of Houston Levee Road and Walnut Grove. This route provides one of only two east-west crossings of Grays Creek. \$1 million has been allocated in FY17 for preliminary engineering and right of way phase for design and \$1 million in FY18 for the final design and ROW purchase.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Federal Funding			\$ 750,000	\$ 750,000		\$ 8,587,500		\$ 10,087,500
County Funding - Pay-As-You Go			\$ 250,000	\$ 250,000		\$ 2,862,500		3,362,500
Total Funding	\$ -	\$ -	\$1,000,000	\$ 1,000,000	\$ -	\$ 11,450,000	\$ -	\$ 13,450,000

Comments about Revenue Sources:

Funding for this project is being provided through the Memphis Metropolitan Planning Organization's Surface Transportation Program at an 75:25 cost share between TDOT and Shelby County.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs			\$1,000,000	\$ 1,000,000				2,000,000
7076 CIP-Construction Contracts						\$ 11,450,000		11,450,000
Total Project Cost	\$ -	\$ -	\$1,000,000	\$ 1,000,000	\$ -	\$ 11,450,000	\$ -	\$ 13,450,000

How were these cost estimates determined? Please attach documentation to support estimates.

These costs were determined from historical data for road and bridge construction by consulting with the Memphis Metropolitan Planning Organization.

What would be the impact of doing nothing or deferring this project by one or more years?

The impacts of deferring this project are unexpended federal funds are subject to rescission and deferring this project will likely result in increases in construction costs.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments (Required for "Yes" Responses):

A) No revenue generated. B) No impact on staffing/personnel expense. C) No impact on operational expenses.

Other Project Benefits/Justifications Comments (Required for "Yes" Responses):

The project will be a major east-west arterial providing connectivity to Collierville, Germantown, Unincorporated Shelby County, and City of Memphis. There will be improved emergency response access in the vicinity of residential, commercial, and school uses.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): 301083
 Requested By: Tom Needham Name Public Works Department/Division
 Project Name: Macon Road
 Project Location: Macon Road from Berryhill to Houston Levee

Project Description:

This project provides 1.73 miles of roadway improvements by widening of Macon Road from two to four lanes from Berryhill Road to Houston Levee Road, addition of pedestrian and bicycle facilities, and construction of a new bridge over Gray's Creek. Intersection improvements will be made at Berryhill Road, Lenow Road, Rebel Drive, Big Orange, Far Road, and Houston Levee Road.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Federal Funding	\$ 1,125,000		\$ 1,125,000		\$ 1,350,000		\$ 13,012,500	\$ 15,487,500
County Funding - Pay-As-You Go	\$ 375,000		\$ 375,000		\$ 450,000		\$ 4,337,500	5,162,500
Total Funding	\$ 1,500,000	\$ -	\$ 1,500,000	\$ -	\$ 1,800,000	\$ -	\$ 17,350,000	\$ 20,650,000

Comments about Revenue Sources:

Funding for this project is being provided through the Memphis Metropolitan Planning Organization's Surface Transportation Program at an 75:25 cost share between TDOT and Shelby County.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7071 CIP-Land & Right-of-Way					\$ 1,800,000			\$ 1,800,000
7072 CIP-Architectural & Eng Svcs	\$ 1,500,000		\$ 1,500,000					1,500,000
7076 CIP-Construction Contracts							\$ 17,350,000	17,350,000
Total Project Cost	\$ 1,500,000	\$ -	\$ 1,500,000	\$ -	\$ 1,800,000	\$ -	\$ 17,350,000	\$ 20,650,000

How were these cost estimates determined? Please attach documentation to support estimates.

These costs were determined from historical data for road and bridge construction by consulting with the Memphis Metropolitan Planning Organization.

What would be the impact of doing nothing or deferring this project by one or more years?

The impacts of deferring this project are unexpended federal funds are subject to rescission and deferring this project will likely result in increases in construction costs.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments (Required for "Yes" Responses):

A) No revenue generated. B) No impact on staffing/personnel expense. C) No impact on operational expenses.

Other Project Benefits/Justifications Comments (Required for "Yes" Responses):

Bicycle and pedestrian facilities are part of this project including a connection to the Greenline. Major east-west arterial providing connectivity through Unincorporated Shelby County, City of Memphis, and Fayette County. This route provides a critical link to State Route 385 for commuters traveling north and south in Shelby County across Gray's Creek.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): 301084
 Requested By: Tom Needham Name Public Works Department/Division
 Project Name: Houston Levee
 Project Location: Houston Levee Road from Walnut Grove Road to Wolf River Bridge

Project Description:

This project improves Houston Levee Road by widening the segment from Walnut Grove to the Wolf River Bridge from two to four lanes. The roadway segment will include a median with pedestrian and bicycle facilities and landscaping. Length (miles) 1.67. This project improves emergency vehicle access along a major north-south corridor in Shelby County.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Federal Funding			\$ 1,125,000				\$ 10,800,000	11,925,000
County Funding - Pay-As-You Go			\$ 375,000				\$ 3,600,000	3,975,000
Total Funding	\$ -	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 14,400,000	\$ 15,900,000

Comments about Revenue Sources:

Funding for this project is being provided through the Memphis Metropolitan Planning Organization's Surface Transportation Program at an 75:25 cost share between TDOT and Shelby County.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs			\$ 1,500,000					1,500,000
7076 CIP-Construction Contracts							\$ 14,400,000	14,400,000
Total Project Cost	\$ -	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 14,400,000	\$ 15,900,000

How were these cost estimates determined? Please attach documentation to support estimates.

These costs were determined from historical data for road and bridge construction by consulting with the Memphis Metropolitan Planning Organization.

What would be the impact of doing nothing or deferring this project by one or more years?

The impacts of deferring this project are unexpended federal funds are subject to rescission and deferring this project will likely result in increases in construction costs.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Financial Impact Comments (Required for "Yes" Responses):

A) No revenue generated. B) No impact on staffing/personnel expense. C) No impact on operational expenses.

Other Project Benefits/Justifications Comments (Required for "Yes" Responses):

Briarcrest School is located along the proposed improvements. Project links commercial, multi-family and single family residential properties along the route. Four (4) major linkages are connected with three (3) arterials and a collector road. This project provides connectivity to Collierville, Unincorporated Shelby County, Memphis, and Lakeland.



**Shelby County Capital Improvement Plan
Project Request Form for FY2017-2021**

Is this a New Project ? No Project/Section Number (for existing projects): _____
 Requested By: Thomas E. Needham Name Public Works
 Department/Division Public Works
 Project Name: Hacks Cross Road
 Project Location: Intersection of Shelby Drive to Stateline Road

Project Description:
 This project improves a 1.8-mile segment of Hacks Cross Road from Shelby Drive to Stateline Road by widening the roadway from two to seven lanes. The improvements will include pedestrian and bicycle facilities and landscaping. This corridor is a major north-south connector that is highly congested with traffic traveling through Unincorporated Shelby County, the City of Memphis and north Mississippi. Hacks Cross Road has an interchange at State Route 385 which is a significant traffic generator.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Federal Funding			\$ 1,125,000	\$ 750,000	\$ 13,500,000			15,375,000
County Funding - Pay-As-You Go	\$ 250,000		\$ 375,000	\$ 250,000	\$ 4,500,000			5,125,000
Total Funding	\$ 250,000	\$ -	\$ 1,500,000	\$ 1,000,000	\$ 18,000,000	\$ -	\$ -	\$ 20,500,000

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7072 CIP-Architectural & Eng Svcs	\$ 250,000		\$ 1,500,000					1,500,000
7076 CIP-Construction Contracts					\$ 18,000,000			18,000,000
7012 Land				\$ 1,000,000				1,000,000
Total Project Cost	\$ 250,000	\$ -	\$ 1,500,000	\$ 1,000,000	\$ 18,000,000	\$ -	\$ -	\$ 20,500,000

How were these cost estimates determined? Please attach documentation to support estimates.
 Cost estimates from historical data for road and bridge construction through consultation with the Metropolitan Planning Organization.

What would be the impact of doing nothing or deferring this project by one or more years?
 Project delay will result in continued congestion and poor efficiency for commerce along a major commercial and residential route.

Financial Impact on Operating Budget:	Current	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
a) Additional Revenue							\$ -
b) Changes to Personnel Expense							-
c) Changes to Operating Expense							-
Total Impact on Operating Budget	\$ -						

Other Project Benefits/Justifications Comments (Required for "Yes" Responses):
 This project will reconstruct a vital north-south corridor for residential and commercial traffic. It will improve safety by adding lanage for a consistent cross-section that will remove the weaving actions that are a result of a varying roadway which currently exists. Hacks Cross Road accommodates a significant number of trucks and commuters traveling to employment centers both in Memphis and north Mississippi. Expansion of the roadway will provide a more efficient route that will reduce traffic delays from congestion, thus reducing the amount of harmful vehicle emissions from vehicles idling. Modern infrastructure that meets demands is important for quality of life and recruitment of businesses to Shelby County.



Shelby County Capital Improvement Plan Project Request Form for FY2017-2021

Is this a New Project ? No Project/Section Number (for existing projects): _____

Requested By: _____ Tom Needham _____ Public Works
Name Department/Division

Project Name: _____ Benjestown Road Pedestrian Bridge _____

Project Location: _____ Pedestrian Bridge over the Loosahatchie River from the North End of Benjestown Road _____

Project Description:

This project will include the construction of a new pedestrian bridge over the Loosahatchie River from the North End of Benjestown Road. The Bridge across the Loosahatchie will be the final leg to complete a primary route from Downtown to Memphis to the secondary bicycle routes in the Shelby Forest area.

FUNDING SOURCES:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Federal Funding	\$ 13,500							-
Other:						\$ 2,160,000		2,160,000
County Funding - Pay-As-You Go	\$ 4,500					\$ 540,000		540,000
Total Funding	\$ 18,000	\$ -	\$ -	\$ -	\$ -	\$ 2,700,000	\$ -	\$ 2,700,000

Comments about Revenue Sources:

Funding for this project is being provided through the Memphis Metropolitan Planning Organization's Surface Transportation Program at an 75:25 cost share between TDOT and Shelby County.

EXPENSE ALLOCATIONS:	FY2016 Budget	FY2016 Forecast	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7071 CIP-Land & Right-of-Way	\$ 4,500							-
7072 CIP-Architectural & Eng Svcs	\$ 13,500							-
7076 CIP-Construction Contracts						\$ 2,700,000		2,700,000
Total Project Cost	\$ 18,000	\$ -	\$ -	\$ -	\$ -	\$ 2,700,000	\$ -	\$ 2,700,000

How were these cost estimates determined? Please attach documentation to support estimates.

These costs were determined from historical data for bridge construction by consulting with the Memphis Metropolitan Planning Organization.

What would be the impact of doing nothing or deferring this project by one or more years?

The impacts of deferring this project are unexpended federal funds are subject to rescission and deferring this project will likely result in increases in construction costs.