

# FY15-FY20 The City of Frederick Capital Improvements Program



**THE CITY OF FREDERICK**

**CAPITAL IMPROVEMENTS PROGRAM**

**FY2015-2020**

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# THE CITY OF FREDERICK, MARYLAND

## CAPITAL IMPROVEMENT PROGRAM

### FY 2015 - 2020

PRJ. NO.	PROJECT NAME	TOTAL PROJECT	TOTAL CITY SHARE REQUIRED	CITY SHARE APPROVED TO DATE	CITY SHARE ONLY					
					FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
<b>GENERAL FUND FACILITIES</b>										
110006	Joint Communications	901,372	901,372	1,000,000	(98,628)	0	0	0	0	0
110007	DPW Emergency Generator	1,100,000	350,000	250,000	100,000	0	0	0	0	0
120005	Downtown Hotel Project	500,000	250,000	250,000	0	0	0	0	0	0
120006	City Hall Roof Replacement	800,000	800,000	0	0	200,000	200,000	200,000	200,000	0
120007	Sustainability Initiatives	200,000	200,000	200,000	0	0	0	0	0	0
210009	New Police Headquarters	216,000	216,000	91,000	0	125,000	0	0	0	0
<b>ROADS</b>										
310004	Monocacy Blvd./Rt 15 Interchange	1,130,000	1,130,000	1,455,000	(325,000)	0	0	0	0	0
310006	Christophers Crossing Corridor - Ft Detrick	3,800,000	3,486,000	400,000	86,000	3,000,000	0	0	0	0
310007	Christophers Crossing Corridor - Sanner	4,000,000	1,000,000	0	0	1,000,000	0	0	0	0
310304	Monocacy Blvd. - Central Section	29,319,119	20,739,406	17,089,406	3,650,000	0	0	0	0	0
320007	Opossumtown Pk./TJ Dr. Intersection Imps.	4,913,913	4,196,913	3,351,913	845,000	0	0	0	0	0
320015	Butterfly Lane Improvements - Realignment	2,800,660	2,500,000	0	0	0	2,500,000	0	0	0
320018	Christophers Crossing Corridor and Intersection Imps	278,082	278,082	278,082	0	0	0	0	0	0
320024	Fairview Avenue Full Depth Reconstruction	800,000	800,000	1,300,000	(500,000)	0	0	0	0	0
320025	Rosemont Avenue Full Depth Reconstruction	500,000	500,000	1,300,000	(800,000)	0	0	0	0	0
320026	South Carroll Street Full Depth Reconstruction	410,000	410,000	410,000	0	0	0	0	0	0
320027	Thomas Johnson Drive Full Depth Reconstruction	3,500,000	3,500,000	3,500,000	0	0	0	0	0	0
X 320028	Willow Oak Drive Full Depth Reconstruction	750,000	750,000	0	750,000	0	0	0	0	0
X 320029	Street Maintenance	3,050,000	3,050,000	0	550,000	500,000	500,000	500,000	500,000	500,000
<b>ROADSIDE INFRASTRUCTURE</b>										
340000	Streetlight Upgrades	5,288,147	5,137,047	3,637,047	0	300,000	300,000	300,000	300,000	300,000
340007	Bentz Street Pedestrian Crossing	250,000	250,000	250,000	0	0	0	0	0	0
340102	Sidewalk Retrofit	693,296	290,524	290,524	0	0	0	0	0	0
340401	New Traffic Signal Construction	1,399,420	1,399,420	919,420	0	225,000	225,000	30,000	0	0
340402	Traffic Light Conversion - ARRA	164,732	38,580	38,580	0	0	0	0	0	0
380001	Shared Use Path Plan Improvements	2,345,009	2,160,009	1,980,009	0	90,000	90,000	0	0	0
380006	Way Finding	640,000	360,000	360,000	0	0	0	0	0	0
<b>PARKS</b>										
410001	Carroll Creek Linear Park	35,728,380	28,331,882	28,331,882	0	0	0	0	0	0
410007	Riverside Center Park	1,570,530	1,453,050	843,000	0	50,000	560,050	0	0	0
410011	Avalon Park	384,000	384,000	0	0	0	384,000	0	0	0
410017	Clover Ridge Park	438,000	438,000	0	0	35,000	403,000	0	0	0
411202	West Side Regional Park	19,053,018	18,020,157	17,593,720	226,437	200,000	0	0	0	0
450102	Grove Stadium Improvements	5,007,500	2,400,000	2,100,000	100,000	100,000	100,000	0	0	0
480157	Weinberg Center Lights and Sound	90,000	90,000	90,000	0	0	0	0	0	0
X 480158	Weinberg Center - HVAC	500,000	500,000	0	500,000	0	0	0	0	0
<b>Total General Fund:</b>		<b>132,521,178</b>	<b>106,310,442</b>	<b>87,309,583</b>	<b>5,083,809</b>	<b>5,825,000</b>	<b>5,262,050</b>	<b>1,030,000</b>	<b>1,000,000</b>	<b>800,000</b>
Debt Funding			(64,730,919)	(57,560,919)	(4,170,000)	(3,000,000)	0	0	0	0
Special Assessments			(8,474,590)	(8,474,590)	0	0	0	0	0	0
Impact Fees			(1,941,437)	(893,000)	(226,437)	(35,000)	(787,000)	0	0	0
<b>City Pay-As-You-Go</b>			<b>31,163,496</b>	<b>20,381,074</b>	<b>687,372</b>	<b>2,790,000</b>	<b>4,475,050</b>	<b>1,030,000</b>	<b>1,000,000</b>	<b>800,000</b>

x - New project

**THE CITY OF FREDERICK, MARYLAND  
 CAPITAL IMPROVEMENT PROGRAM  
 FY 2015 - 2020**

PRJ. NO.	PROJECT NAME	TOTAL PROJECT	TOTAL CITY SHARE REQUIRED	CITY SHARE APPROVED TO DATE	CITY SHARE ONLY					
					FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
<b>WATER AND SEWER FUND</b>										
<b>WATER</b>										
310004	Monocacy Blvd./Rt 15 Interchange	1,600,000	1,600,000	0	0	1,600,000	0	0	0	0
310304	Monocacy Blvd. - Central Section - Ph. II	9,095,074	9,095,074	7,095,074	2,000,000	0	0	0	0	0
320015	Butterfly Lane Improvements	500,000	500,000	0	0	0	500,000	0	0	0
360009	Water Distribution Upgrades	17,431,350	17,428,133	12,428,133	500,000	4,000,000	0	500,000	0	0
360011	New Design Water Plant Expansion	52,250,000	52,250,000	52,250,000	0	0	0	0	0	0
360015	North Side Water Tank	3,800,000	2,800,000	2,800,000	0	0	0	0	0	0
360018	Water Loss Reduction	19,665,275	19,665,275	7,165,275	2,500,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
360022	Water Resource Project	10,603,160	10,473,255	5,473,255	5,000,000	0	0	0	0	0
360023	Ballenger Creek Interconnect	3,653,483	3,653,483	2,403,483	250,000	1,000,000	0	0	0	0
360025	Water and Sewer Security	340,000	100,000	100,000	0	0	0	0	0	0
360029	Bowers/Whittier Connector Pipeline	4,486,782	4,486,782	4,486,782	0	0	0	0	0	0
360031	Fishing Creek Pipeline	13,580,000	13,580,000	1,080,000	1,000,000	0	0	11,500,000	0	0
360032	SCADA System	500,000	500,000	500,000	0	0	0	0	0	0
360033	Lake Linganore	15,599,900	7,814,900	29,900	125,000	130,000	3,780,000	3,750,000	0	0
360034	Butterfly Lane Water Tank: Lead Abatement	1,200,000	1,200,000	200,000	0	1,000,000	0	0	0	0
360601	Watershed Land Acquisition	1,062,115	681,878	381,878	300,000	0	0	0	0	0
<b>SEWER</b>										
370007	Wastewater Flowmeter Replacement	1,070,000	1,070,000	1,070,000	0	0	0	0	0	0
370008	Gas House Pk. WWTP Expansion & Imp'ts.	9,893,143	9,877,649	9,877,649	0	0	0	0	0	0
370009	Ballenger-McKinney WWTP	17,483,000	17,483,000	17,483,000	0	0	0	0	0	0
370010	Gas House Pk WWTP Solids Proc Rehab	6,087,883	3,099,270	3,029,270	70,000	0	0	0	0	0
370011	Gas House Pk WWTP ENR Upgrade	56,841,720	33,279,416	33,279,416	0	0	0	0	0	0
370300	Inflow and Infiltration Reduction	<u>8,591,837</u>	<u>8,478,267</u>	<u>5,978,267</u>	<u>500,000</u>	<u>2,000,000</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Total Water and Sewer Fund:</b>		<u>255,334,722</u>	<u>219,116,382</u>	<u>167,111,382</u>	<u>12,245,000</u>	<u>11,730,000</u>	<u>6,280,000</u>	<u>17,750,000</u>	<u>2,000,000</u>	<u>2,000,000</u>
Debt Funding			(183,080,825)	(152,050,825)	(7,000,000)	(5,000,000)	(3,780,000)	(15,250,000)	0	0
Special Assessments			(2,786,840)	(2,786,840)	0	0	0	0	0	0
Impact Fees			<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Pay-As-You-Go</b>			<u>33,248,717</u>	<u>12,273,717</u>	<u>5,245,000</u>	<u>6,730,000</u>	<u>2,500,000</u>	<u>2,500,000</u>	<u>2,000,000</u>	<u>2,000,000</u>

# THE CITY OF FREDERICK, MARYLAND

## CAPITAL IMPROVEMENT PROGRAM

### FY 2015 - 2020

PRJ. NO.	PROJECT NAME	TOTAL PROJECT	TOTAL CITY SHARE REQUIRED	CITY SHARE APPROVED TO DATE	CITY SHARE ONLY					
					FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
<b>AIRPORT FUND</b>										
380051	FAA Part 77	856,000	12,000	12,000	0	0	0	0	0	0
380054	Airport Property Acquisitions	17,114,000	1,263,000	1,263,000	0	0	0	0	0	0
380062	Property Acquisition - Bowman's Farm	5,550,000	346,875	346,875	0	0	0	0	0	0
380064	Acquire Toms Property Easements	1,300,000	71,000	40,000	0	0	31,000	0	0	0
380067	Bailes Lane Demolition and Site Work	13,368,200	318,228	18,228	50,000	50,000	50,000	50,000	50,000	50,000
380068	Acquire/Obstruction Removal - Waffle House	2,400,000	150,000	150,000	0	0	0	0	0	0
380071	Acquisition / Obstruction Removal - Tulip Hill	1,500,000	26,500	14,000	0	12,500	0	0	0	0
380073	Equipment Storage Building	1,080,000	270,000	7,500	0	37,500	225,000	0	0	0
380077	Air Traffic Control Tower and Associated	4,832,462	0	0	0	0	0	0	0	0
380086	North County Easements	100,000	2,500	0	0	0	1,250	1,250	0	0
380087	MSP Hangar & Training Facility	0	0	0	0	0	0	0	0	0
380088	Corp Hangar P4	3,300,000	300,000	0	300,000	0	0	0	0	0
x 380090	Ramp Rehabilitation	1,500,000	1,500,000	0	0	1,500,000	0	0	0	0
<b>Total Airport Fund:</b>		<b>52,900,662</b>	<b>4,260,103</b>	<b>1,851,603</b>	<b>350,000</b>	<b>1,600,000</b>	<b>307,250</b>	<b>51,250</b>	<b>50,000</b>	<b>50,000</b>
Debt Funding			(2,194,875)	(394,875)	(300,000)	(1,500,000)	0	0	0	0
Special Assessments			0	0	0	0	0	0	0	0
Impact Fees			0	0	0	0	0	0	0	0
<b>Pay-As-You-Go</b>			<b>2,065,228</b>	<b>1,456,728</b>	<b>50,000</b>	<b>100,000</b>	<b>307,250</b>	<b>51,250</b>	<b>50,000</b>	<b>50,000</b>
<b>x - New project</b>										
<b>PARKING FACILITIES FUND</b>										
380408	Site G Parking Garage	16,865,000	16,865,000	1,135,000	230,000	15,500,000	0	0	0	0
380413	Church Street Deck Rehab / Rebuild	14,378,753	14,209,065	980,864	(471,799)	0	200,000	13,500,000	0	0
X 380414	Court Street Deck Rehab	612,650	612,650	0	612,650	0	0	0	0	0
X 380415	Parking Garage Gateway Mural	125,000	75,000	0	75,000	0	0	0	0	0
<b>Total Parking Facilities Fund:</b>		<b>31,981,403</b>	<b>31,761,715</b>	<b>2,115,864</b>	<b>445,851</b>	<b>15,500,000</b>	<b>200,000</b>	<b>13,500,000</b>	<b>0</b>	<b>0</b>
Debt Funding			(16,740,864)	(1,240,864)	0	(15,500,000)	0	0	0	0
Special Assessments			0	0	0	0	0	0	0	0
Impact Fees			0	0	0	0	0	0	0	0
<b>Pay-As-You-Go</b>			<b>15,020,851</b>	<b>875,000</b>	<b>445,851</b>	<b>0</b>	<b>200,000</b>	<b>13,500,000</b>	<b>0</b>	<b>0</b>
<b>STORM WATER FUND</b>										
350001	South Street Storm Drain	4,746,894	4,746,894	746,894	0	2,000,000	2,000,000	0	0	0
350004	Watershed Management	500,000	500,000	500,000	0	0	0	0	0	0
350005	Culler Lake Silt Removal	2,503,500	1,200,000	1,200,000	0	0	0	0	0	0
350020	Carroll Creek Flood Control Project	55,905,005	23,145,438	23,145,438	0	0	0	0	0	0
<b>Total Storm Water Fund:</b>		<b>63,655,399</b>	<b>29,592,332</b>	<b>25,592,332</b>	<b>0</b>	<b>2,000,000</b>	<b>2,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>
Debt Funding			(19,484,703)	(15,484,703)	0	(2,000,000)	(2,000,000)	0	0	0
Special Assessments			(383,000)	(383,000)	0	0	0	0	0	0
Impact Fees			0	0	0	0	0	0	0	0
<b>Pay-As-You-Go</b>			<b>9,724,629</b>	<b>9,724,629</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL CIP:</b>		<b>536,393,364</b>	<b>391,040,974</b>	<b>283,980,764</b>	<b>18,124,660</b>	<b>36,655,000</b>	<b>14,049,300</b>	<b>32,331,250</b>	<b>3,050,000</b>	<b>2,850,000</b>
<b>x - New project</b>										

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 110006**

**PROJECT NAME: Joint Communications**

**PROJECT MANAGER: FPD Radio Replacement – Project Manager**

**SCOPE**

- Expansion of the Frederick County Emergency Communications Center to accommodate the relocation of Frederick Police Department communications staff.
- Procurement of hardware /software to accommodate consolidation of dispatch centers and utilization of single consolidated County/City radio network.

**JUSTIFICATION:**

A new communications center has been programmed in the agency's space needs study for a new police facility as the current communications center is grossly over crowded. Frederick County's 5 year old 9-1-1 Center has reached it capacity and requires additional space. This situation presents a unique opportunity to again revisit the idea of consolidating the City and County centers under one roof. Based on an expression of interest from both City and County elected officials Frederick County contracted with a consultant (RCC) to consider the feasibility of this concept. The consultant's analysis endorsed the consolidation and/or co-location model.

As of February 2013, the County completed the redesign of the floor plan at Emergency Communications Center (ECC), located at 110 Airport Drive – East. The County secured funding for the new communications furniture from the 9-1-1 Maryland Emergency Numbers Board and has completed the furniture installation. The ECC's seating capacity has increased by 10 positions to a total capacity of 24 positions. All of the electronics necessary to support the consolidated County/City radio network has been installed and activated. FPD has been provided 4 console positions for use by Frederick Police dispatchers. The City of Frederick has not incurred, to date, any costs for equipment necessary to house FPD staff at the center. The project was funded entirely by the County and supplemented by the Emergency Numbers Board.

The Frederick County Board of County Commissioners approved a Memorandum of Understanding in February 2013 for housing FPD personnel at the ECC at an agreed upon price of \$1.00 dollar annually. Frederick Police communications staff transferred operations to the ECC on February 28, 2013.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	901.372	1,000.000	(98.628)	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	901.372	1,000.000	(98.628)	-	-	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	901.372	1,000.000	(98.628)	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	901.372	1,000.000	(98.628)	-	-	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Joint Communications**

**110006**

**Fund 306 - General CIP**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 110007**

**PROJECT NAME: DPW Emergency Generator**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

The intent of this project is to engineer, purchase and install an emergency generator system to power the City's Department of Public Works facility located at 111 Airport Drive East. Operations located at this facility are responsible for responding to situations under any condition (routine, weather-related, emergency, etc.). Currently there is no backup source in order to accommodate power failure.

This project will include the following deliverables:

1. An engineered system with a complete set of specifications for backup power to serve all facilities within the DPW compound
2. Installation of the system
3. Testing of the newly installed system
4. Testing protocol for continued preventive maintenance
5. Spare parts kit
6. Secondary internet connections and backup servers

**JUSTIFICATION:**

The Department of Public Works Operations Group cannot effectively respond to City wide emergencies (hurricanes, high wind, snow, tornado, and other threats) without backup power.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	1,100.000	1,000.000	100.000	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,100.000</b>	<b>1,000.000</b>	<b>100.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	350.000	250.000	100.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	750.000	750.000	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,100.000</b>	<b>1,000.000</b>	<b>100.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DPW Emergency Generator**  
Fund 306 - General CIP

**110007**

# **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 120005**

**PROJECT NAME: Downtown Hotel Project**

**PROJECT MANAGER: Director of Economic Development**

## **SCOPE**

To fund the acquisition, planning, design, and engineering, and consulting studies related to the feasibility and construction of a privately owned and operated, full-service, 200-Room, Downtown Frederick Hotel and Conference Center with 15,000 to 20,000 square feet of conference/event/meeting space.

## **JUSTIFICATION**

The Downtown Frederick Hotel and Conference Center Advisory Committee is seeking to attract a private hotel developer team through a Public Private Partnership to construct, own and operate a full service hotel with event and meeting space in Downtown Frederick including a large ballroom. The key project details are as follows:

- Privately Owned and Operated
- 200 Rooms (+/-) with 15,000 to 20,000 SF Event/Meeting Space w/ ballroom, pre-function & breakout space
- Restaurant and lounge
- Green building design/construction
- Full-Service Operation
- Onsite parking for hotel guests and offsite parking for large events
- Guest Amenities – pool, exercise room, business center

The MEG (Major Employers Group) consists of seventeen of the largest employers in Frederick County/City – each with over 400 employees. In 2010, MEG selected the development of a downtown full-service hotel with sufficient meeting space to meet the needs of the business and citizen community as their key implementation priority. The Mayor and Board of Aldermen concurred that the development of a fully privately-owned and operated downtown hotel and conference center with no operational subsidy from local government is a critical priority and seek to facilitate its development.

The Downtown Frederick Hotel Advisory Committee initiated two demand and feasibility studies which both confirmed the market demand for a 200-room full-service hotel with 15,000 square feet of meeting space including a large ballroom. The second study was done in conjunction with and under the umbrella of the Maryland Stadium Authority to ensure the integrity of the analysis. The committee has narrowed the pool of potential sites to four. An RFP to select the site and developer will be issued in the first quarter of 2014. The project financing will likely take the form of a Public Private Partnership with the hotel developer responsible for the bulk of the cost including the hotel. The City and County may participate with Tax Increment Financing, and/or Hotel Tax to assist with public infrastructure including meeting space. State Investment could be through bond bill or MEDCO or Stadium Authority. Timeline anticipates selection of the hotel developer and site in 2014, design, financing & entitlement approvals in 2014-2015, construction in 2015-2016. Completion 2016.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	500.000	500.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	500.000	500.000	-	-	-	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	250.000	250.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	250.000	250.000	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	500.000	500.000	-	-	-	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>							
<b>EXPENSE</b>							
<b>NET</b>	-	-	-	-	-	-	-

**Downtown Hotel Project**  
**Fund 306 - General CIP**

**120005**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 120006**

**PROJECT NAME: City Hall Roof Replacement**

**PROJECT MANAGER: Deputy Director for Operations**

### **SCOPE:**

The intent of this project is to replace the roof and other elements on or near the roof area in order to maintain the City Hall building adequately and improve the appearance and function of the building. This will be accomplished by completing the following:

- Replacement in-kind of the entire slate shingle roof with 16” x 12” ASTEM C406-889, Grade SE slate shingles in Vermont Black
- Replacement in kind of copper valley, copper chimney, copper wall, and gravel stop flashing;
- Replacement in kind of copper gutters and replacement in kind of copper downspouts but with a larger cross section of 3 ¾” by 5”;
- Replacement of deteriorated wood framing and fascia/soffit and gutter support
- Replacement of existing bird-style snow guards with a rail system
- Replacement of sanitary vent flashings with copper flashing and infill of exhaust vent with slate roofing; and
- Replacement of membrane roof in-kind.

### **JUSTIFICATION:**

The condition of the existing roof slates suggests a variety of ages and different quarries are represented. Many of the existing slates are badly weathered, cracked, and exhibit lamination, efflorescence, and evidence of water absorption. There is also evidence of water absorption on the underside of some of the roof sheathing indicating the need for replacement. The 20% threshold of damaged or deteriorated slates referred to in the Preservation Brief for Slate Roofs has been exceeded.

Throughout the entire roof area there is evidence of partial repairs and small areas of replacement. The previous repairs of many cracked and broken slates appear to have been done with silicone sealant and incorporated slate material that did not match the color of the original slates. The use of bibs made from corrosive steel is evident over many sections of the roof.

The gutter as installed does not allow for expansion along its length as the leading edge is tacked to the wood fascia with copper nails. This restriction of movement causes stresses to build up and be relieved at bends and fold in the copper sheet. Over time, those areas have fatigued and caused small cracks or holes in the gutter. Although the downspouts have been restored to operation, the size of two downspouts on the East elevation and one on the West elevation do not seem adequate to handle heavy rain events. Cornice fascia and soffit in some areas are deteriorating causing them to sag. The snow guard is inappropriate for the amount of contributing roof area. Consequently, large build ups of snow and ice have overrun and damaged the snow guards.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	800.000	-	-	200.000	200.000	200.000	200.000	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>800.000</b>	<b>-</b>	<b>-</b>	<b>200.000</b>	<b>200.000</b>	<b>200.000</b>	<b>200.000</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	800.000	-	-	200.000	200.000	200.000	200.000	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>800.000</b>	<b>-</b>	<b>-</b>	<b>200.000</b>	<b>200.000</b>	<b>200.000</b>	<b>200.000</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**City Hall Roof Replacement**  
**Fund 306 - General CIP**

**120006**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 120007**

**PROJECT NAME: Sustainability Initiatives**

**PROJECT MANAGER: Deputy Director for Planning**

**SCOPE:**

This project is to provide funds to allow the City of Frederick to undertake projects and studies that will result in a more sustainable community. The projects could include:

- Upgrades to City Facilities (Examples: WWTP / WTP)
- Energy Management within City Buildings
- Public Outreach and Education
- Environmental Projects (Examples: Stream Bank Restoration, Increasing Urban Canopy)
- Demonstration Projects (Examples: Solar, Geo Thermal, Wind)
- City Match for Other Programs, Loans and Grants

**JUSTIFICATION:**

Elements contained in this project will allow the City of Frederick to become a leader in sustainability by improving air & water quality, conservation of resources and having an educated community.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	200.000	200.000	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>200.000</b>	<b>200.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	200.000	200.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>200.000</b>	<b>200.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Sustainability Initiatives**

Fund 306 - General CIP

**120007**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 210009**

**PROJECT NAME: New Police Headquarters**

**PROJECT MANAGER: Chief of Police**

**SCOPE:**

Location for new facility on 5 Acres of City owned property on Airport Drive recommended and accepted by Mayor and Board of Aldermen in 2005. Preliminary estimated budget at that time was \$17,933,659. If the Airport Drive location is no longer available would suggest looking for an opportunity to locate Police Headquarter at another site with a preferred location close to the downtown area. City reduced funding requirements from \$17,933,659 to \$11,000,000 in 2005. Ideally, the property would be sufficient to house all entities of the Department as well as enough area to handle all of our vehicle parking and storage needs. The initial CIP request is to fund an updated space needs study.

**JUSTIFICATION:**

Police Department has been located in the Court House since 1984 and has outgrown its existing space. This has led to various departments being located throughout the City and not at strategic locations. To meet the demands of operating the City Police Department, correct various code deficiencies, and to consolidate operations into one location for improved efficiency, a project was initiated to create a new City of Frederick Police Headquarters facility. A consultant was retained in October, 2003 to verify projected space needs, staffing, and operational requirements. Consultant performed a review of all existing Police Department facilities and functions. Consultant identified a total space requirement of 71,787 sq. ft. to meet the departmental needs. Various potential sites were reviewed and preliminary budget prepared in 2005. The project has since been removed from the CIP plans.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	216.000	91.000	-	125.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	216.000	91.000	-	125.000	-	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	125.000	-	-	125.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	91.000	91.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	216.000	91.000	-	125.000	-	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**New Police Headquarters**  
**Fund 306 - General CIP**

**210009**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 310004**

**PROJECT NAME: Monocacy Blvd / RT 15 Interchange**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

The intent of this project is to complete the engineering and design of the project as prescribed in the planning process. A memorandum of understanding and letter of agreement between the City, County and State was entered into in order to fund the design with SHA responsible for managing the design. City Staff will participate in meetings and provide data and input where applicable.

**JUSTIFICATION:**

Safety along US 15 will be enhanced by the construction of the interchange by eliminating at-grade crossings in The City of Frederick area. The connection will also provide a vital link between the east and west sides of The City of Frederick on the north side of town. This connection is expected to help alleviate congestion at the US 15 at Opossumtown Pike/Motter Avenue interchange.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	1,130.000	1,455.000	(325.000)	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	1,130.000	1,455.000	(325.000)	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	630.000	955.000	(325.000)	-	-	-	-	-
DEBT ISSUE	500.000	500.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	1,130.000	1,455.000	(325.000)	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	0	0	0	0	0	0

**Monocacy Blvd./Rt 15 Interchange**  
**Fund 306 - General CIP**

**310004**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 310006**

**PROJECT NAME: Christophers Crossing Corridor – Ft Detrick**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project includes the design, permitting, and construction of Christophers Crossing through Fort Detrick’s ‘Area B’, which ultimately extends from US 15 in the north around the City to US 40 in the west. Christophers Crossing in this section will be a four lane road and associated curb and gutter, street lights, sidewalks / bike paths, etc. These improvements were identified within the 2009 Christophers Crossing/Yellow Springs Road Corridor Traffic Study.

Partial funding for design & permitting is anticipated from the Waverly View development.

**JUSTIFICATION:**

The 2009 Christophers Crossing/Yellow Springs Road Corridor Traffic Study identified improvements needed for the corridor in order to account for anticipated regional developments from the expansion of Fort Detrick to approved mixed-use and residential development to anticipated annexation properties.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	800.000	400.000	400.000		-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,000.000	-	-	3,000.000		-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>3,800.000</b>	<b>400.000</b>	<b>400.000</b>	<b>3,000.000</b>		<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	486.000	400.000	86.000	-	-	-	-	-
DEBT ISSUE	3,000.000	-	-	3,000.000	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	314.000	-	314.000	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>3,800.000</b>	<b>400.000</b>	<b>400.000</b>	<b>3,000.000</b>		<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Christophers Crossing Corridor - Fort Detrick**

**310006**

**Fund 306 - General CIP**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 310007**

**PROJECT NAME: Christophers Crossing Corridor – Sanner**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project includes the design, permitting, and construction of Christophers Crossing through the Sanner Farm, which ultimately extends from US 15 in the north around the City to US 40 in the west. This connection is vital to providing multiple safe & efficient connections from residential areas in the northwest to downtown Frederick and US 15. Christophers Crossing will be a four lane road with auxiliary lanes and associated curb and gutter, street lights, sidewalks / bike paths, etc. These improvements were identified within the 2009 Christophers Crossing/Yellow Springs Road Corridor Traffic Study.

Per the Keller Farm Annexation, the development is required for design and permitting of Christophers Crossing through Sanner Farm, including the intersection with Walter Martz Road/Poole Jones Road and the Walter Martz roadway section up to Tuscarora Creek. Additionally, the annexation's regional transportation contribution may be used for construction.

**JUSTIFICATION:**

The 2009 Christophers Crossing/Yellow Springs Road Corridor Traffic Study identified improvements needed to the corridor in order to account for anticipated regional developments from the expansion of Fort Detrick to approved mixed-use and residential development to anticipated annexation properties. This connection is essential to the future development of the City-owned Sanner Farm, which potentially includes multiple public facilities.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	4,000.000	-	-	4,000.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>4,000.000</b>	<b>-</b>	<b>-</b>	<b>4,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	1,000.000	-	-	1,000.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	3,000.000	-	-	3,000.000	-	-	-	-
<b>TOTAL REVENUES</b>	<b>4,000.000</b>	<b>-</b>	<b>-</b>	<b>4,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Christophers Crossing Corridor - Sanner Farm**

**310007**

**Fund 306 - General CIP**

**THE CITY OF FREDERICK, MARYLAND-CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 310304**

**PROJECT NAME: Monocacy Boulevard - Central Section – Phase II**

**PROJECT MANAGER: Director of Public Works**

**SCOPE:**

The design and construction of Monocacy Boulevard Central Section which extends from Gas House Pike in the north to Hughes Ford Road in the south, including the design and construction of the bridge over Monocacy River, extension of Schifferstadt Boulevard and East Church Street to connect with Monocacy Boulevard, and the design and construction of the bridge over Carroll Creek. Monocacy Boulevard in this section will be a four lane road with associated curb and gutter and sidewalks / bike paths. This project also includes completion of the Carroll Creek Flood Control Levee along Gas House Pike. Portions of the design/construction fronting the Nicodemus property shall be paid for by the property owner as stipulated in their annexation agreement. This project includes associated water and sewer infrastructure.

**JUSTIFICATION:**

This section of roadway will create an eastern loop for motorists to go around Frederick. It will relieve congestion in town and provide additional choices for motorists to travel without entering already congested arterials. The roadway will provide key relief needed for East Street which is carrying significantly more traffic since the opening of the East Street extension off of I-70 in 2009.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	2,680.000	2,680.000	-	-	-	-	-	-
LAND/R.O.W.	7,700.000	7,700.000	-	-	-	-	-	-
UTILITIES	100.000	100.000	-	-	-	-	-	-
CONSTRUCTION	18,839.119	6,839.119	12,000.000					
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>29,319.119</b>	<b>17,319.119</b>	<b>12,000.000</b>					

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	3,234.904	3,234.904	-	-	-	-	-	-
DEBT ISSUE	16,970.778	13,320.778	3,650.000					
SPECIAL ASSESSMENT	533.724	533.724	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	8,350.000	-	8,350.000	-	-	-	-	-
OTHER - Sale of Land/Dev.	229.713	229.713	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>29,319.119</b>	<b>17,319.119</b>	<b>12,000.000</b>					

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Monocacy Blvd. - Central Section**  
**Fund 306 - General CIP**

**310304**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320007**

**PROJECT NAME: Opossumtown Pike / Thomas Johnson Drive Intersection Improvements**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

Widen northbound Opossumtown Pike to lengthen the left-turn and right-turn bays at Thomas Johnson Drive. The right-turn bay will become an auxiliary lane from the northbound US 15 off-ramp up to Thomas Johnson Drive. Widen southbound Opossumtown Pike to provide an additional through lane from Thomas Johnson Drive down to the southbound US 15 on-ramp. This will include relocation of utilities, reconstruction of sidewalk, and traffic signal modifications. Widen southbound Thomas Johnson Drive to install additional left-turn lane at Opossumtown Pike. Widen northbound Thomas Johnson Drive to install a separate right-turn lane. Install medians on Thomas Johnson Drive to limit access and improve safety and operations at the access drives located too close to the signal at Opossumtown Pike.

**JUSTIFICATION:**

The intersection of Opossumtown Pike at Thomas Johnson Drive currently operates at a LOS F during peak periods. This project will greatly improve the intersection's operations. The project is also needed to correspond with the SHA project that will rebuild and widen the Opossumtown Pike/Motter Avenue Bridge over US 15. The SHA will provide a free right turn from the northbound US 15 ramp to northbound Opossumtown Pike at Thomas Johnson Drive. This will significantly reduce delay and congestion in the interchange area and at the intersection of Opossumtown Pike at Thomas Johnson Drive.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	903.000	903.000	-	-	-	-	-	-
LAND/R.O.W.	1,076.000	751.000	325.000	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,833.818	2,133.818	700.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	101.095	101.095	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>4,913.913</b>	<b>3,888.913</b>	<b>1,025.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	2,589.913	2,264.913	325.000	-	-	-	-	-
DEBT ISSUE	1,607.000	1,087.000	520.000	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	500.000	320.000	180.000	-	-	-	-	-
OTHER	217.000	217.000	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>4,913.913</b>	<b>3,888.913</b>	<b>1,025.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Opossumtown Pike/Thos. Johnson Intersection**

**320007**

Fund 306 - General CIP

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320015**

**PROJECT NAME: Butterfly Lane Improvements - Realignment**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project is for the design and construction and the relocation of a four-lane Butterfly Lane section through the Hargett Farm to tie in at Swallowtail Drive. The existing Butterfly Lane will terminate prior to MD180 via a cul-de-sac.

The Residences at Prospect Hill are anticipated to contribute funding toward this project.

**JUSTIFICATION:**

This project will enhance roadway operations and provide additional capacity along Butterfly Lane, and will greatly improve traffic issues along the MD 180 corridor by spacing the intersection of Butterfly Lane at MD 180 a greater distance from Himes Avenue.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	300.660	-	-	300.660	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,500.000	-	-	-	2,500.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>2,800.660</b>	-	-	300.660	2,500.000	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	2,500.000	-	-	-	2,500.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	300.660	-	-	300.660	-	-	-	-
<b>TOTAL REVENUES</b>	<b>2,800.660</b>	-	-	300.660	2,500.000	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Butterfly Lane Improvements - Realignment**

**320015**

**Fund 306 - General CIP**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320018**

**PROJECT NAME: Christophers Crossing Corridor and Intersection Improvements**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

Complete corridor and intersection improvements in the Christophers Crossing Corridor in accordance with the Corridor Study completed in 2009. The recommendations contained in the document reflect the improvements of data collection in 2008. Prior to moving forward with the planned and programmed improvements, re-evaluation of the forecasts will take place to insure the improvement is needed.

**JUSTIFICATION:**

These corridor and intersections improvements are needed due to the development and expansion of Ft Detrick, mixed-use and residential development in already existing City lands, as well as future annexation properties, and overall background traffic increases.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	71.200	71.200	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	206.882	206.882	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>278.082</b>	<b>278.082</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	278.082	278.082	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>278.082</b>	<b>278.082</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Christophers Crossing Corridor and  
Intersection Improvement Program**  
Fund 306 - General CIP

**320018**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320024**

**PROJECT NAME: Fairview Avenue Full Depth Reconstruction**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This is a full depth reconstruction of the roadway on Fairview Avenue between West 7<sup>th</sup> Street and Rosemont Avenue. Work includes curb, gutter and ADA improvements as well as the removal and replacement of the street surface and subgrade to meet City Standards.

**JUSTIFICATION:**

The current paving section does not meet the City Standard which has resulted in multiple failures of the asphalt surface. The Street Maintenance Department has performed numerous repairs to this section of street due to the insufficient section.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	800.000	1,300.000	(500.000)	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>800.000</b>	<b>1,300.000</b>	<b>(500.000)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	800.000	1,300.000	(500.000)	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>800.000</b>	<b>1,300.000</b>	<b>(500.000)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Fairview Avenue Full Depth Reconstruction

**320024**

Fund 306 - General CIP

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320025**

**PROJECT NAME: Rosemont Avenue Full Depth Reconstruction**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This is a full depth reconstruction of the roadway on Rosemont Avenue between West 2nd Street and North Bentz Street. Work includes curb, gutter and ADA improvements as well as the removal and replacement of the street surface and subgrade to meet City Standards. This project will commence with the coordination of a water main upgrade in this area.

**JUSTIFICATION:**

The current roadway has experienced multiple utility cuts and failures in the asphalt surface. The high volume of heavy traffic has detrimentally affected the stability of the roadway. It also has numerous concrete patches which promote the unevenness of the surface which affects the smoothness of the street.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	500.000	1,300.000	(800.000)	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	500.000	1,300.000	(800.000)	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	500.000	1,300.000	(800.000)	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	500.000	1,300.000	(800.000)	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	0	0	0	0	0	0

## Rosemont Avenue Full Depth Reconstruction

**320025**

Fund 306 - General CIP

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320026**

**PROJECT NAME: South Carroll Street – Full Depth Reconstruction**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This is a full depth reconstruction of the roadway on South Carroll Street between East South Street and Clark Place. Work includes curb, gutter and ADA improvements as well as the removal and replacement of the street surface and subgrade to meet City Standards.

**JUSTIFICATION:**

The current paving section does not meet the City Standard which has resulted in multiple failures of the asphalt surface. The Street Maintenance Department has performed numerous repairs to this section of street due to the insufficient section.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	410.000	410.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>410.000</b>	<b>410.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	410.000	410.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>410.000</b>	<b>410.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**South Carroll Street Full Depth Reconstruction**

**320026**

Fund 306 - General CIP

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320027**

**PROJECT NAME: Thomas Johnson Drive Full Depth Reconstruction**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This is a full depth reconstruction of the roadway on Thomas Johnson Drive between Hayward Road and Opossumtown Pike. Work includes curb, gutter and ADA improvements as well as the removal and replacement of the street surface and subgrade to meet City Standards. *(To be completed in Summer 2014)*

**JUSTIFICATION:**

The current paving section does not meet the City Standard for this type of road which has resulted in multiple failures of the asphalt surface. The subgrade has also been determined to be substandard in specific areas which has attributed to these failures. The new section will support the high volume of heavy traffic experienced daily on this section of road.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,500.000	3,500.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>3,500.000</b>	<b>3,500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	1,393.215	1,393.215	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	2,106.785	2,106.785	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>3,500.000</b>	<b>3,500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Thomas Johnson Drive Full Depth Reconstruction 320027**

Fund 306 - General CIP

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320028**

**PROJECT NAME: Willow Oak Drive Full Depth Reconstruction**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This is a full depth reconstruction of the roadway on Willow Oak Drive. Work includes curb, gutter and ADA improvements as well as the removal and replacement of the street surface and subgrade to meet City Standards.

**JUSTIFICATION:**

The current paving section does not meet the City Standard for this type of road which has resulted in multiple failures of the asphalt surface. The subgrade has also been determined to be substandard in specific areas which has attributed to these failures. The new section will support the high volume of heavy traffic experienced daily on this section of road.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	750.000	-	750.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>750.000</b>	<b>-</b>	<b>750.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	750.000	-	750.000	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>750.000</b>	<b>-</b>	<b>750.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Willow Oak Drive Full Depth Reconstruction**

**320028**

**Fund 306 - General CIP**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320029**

**PROJECT NAME: Street Maintenance**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This project involves the repair and resurfacing of various streets throughout the City. Work may involve milling the existing asphalt surface to remove deteriorated asphalt, patching existing asphalt surfaces to repair localized deterioration, installation of new handicap ramps to meet ADA requirements, replacement of damaged curb & gutter, and laying new asphalt surfaces. Streets for each year's program are determined based on road condition, traffic volume and other factors. Streets anticipated for future projects include, but are not limited to: Hillcrest Drive, Lindbergh Avenue, Wilson Place, Pinewood Avenue and Fairview Avenue.

**JUSTIFICATION:**

The work is necessary to maintain the roads and streets throughout the City. Asphalt pavements deteriorate over time due to weather, traffic, utility cuts and age. By resurfacing streets in a timely manner, major street repairs can be avoided. Resurfacing a street will extend the useful life by 15-25 years.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,050.000	-	550.000	500.000	500.000	500.000	500.000	500.000
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>3,050.000</b>	<b>-</b>	<b>550.000</b>	<b>500.000</b>	<b>500.000</b>	<b>500.000</b>	<b>500.000</b>	<b>500.000</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	2,500.000	-	-	500.000	500.000	500.000	500.000	500.000
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	550.000	-	550.000	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>3,050.000</b>	<b>-</b>	<b>550.000</b>	<b>500.000</b>	<b>500.000</b>	<b>500.000</b>	<b>500.000</b>	<b>500.000</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Street Maintenance**  
Fund 306 - General CIP

**320029**

# **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 340000**

**PROJECT NAME: Streetlight Upgrade**

**PROJECT MANAGER: Deputy Director for Operations**

## **SCOPE:**

This multi-year project allows the City's Street Light and Traffic Control Department to upgrade all streetlights currently powered by direct-bury series circuits. All of these streetlights will be converted to parallel circuits routed in conduit and their present lamp systems, both incandescent and high-pressure-sodium, will be converted to QL induction lamps (low pressure mercury discharge). At a minimum, the City must procure materials and contracted services according to the following responsibilities:

- **City Provided Services:**  
Management (project management, procurement, inspection); Demolition (removal and disposal of existing pole bases); and Installation (refurbish existing poles, pulling underground wires in conduit, install poles and heads).
- **During construction, this effort will affect residents as follows:**
  1. Streetlights in specific project areas will be partially- or wholly inoperable for a short duration (approximately 45-90 days), and
  2. Installation of underground conduits and new pole bases will disturb the ground between the curb and sidewalk in front of some residences.
- **FY15 Upgrades:**  
Trail Avenue, Charlie Alley, North Street, Sharpe's Lane, Bentz Street and Motter Avenue, Motter Avenue, W. 10<sup>th</sup> Street, Motter Place, Kosmen's Alley, W 14<sup>th</sup>, Neidig Avenue, Frederick Avenue, Mehrling Alley, N. Market Street
- **FY16 Projected Upgrades:**  
Rose Lane, Peters Lane, East 13<sup>th</sup> Street, E. 14<sup>th</sup> Street, E. 15<sup>th</sup> Street, Rawson Alley, E. 16<sup>th</sup> Street, Staley Avenue, East 7<sup>th</sup> Street, Vernon Avenue, N. Maxwell Avenue, Herm Alley, E. 8<sup>th</sup> Street

## **JUSTIFICATION:**

The City's upgrade of the existing high-voltage, series street lighting circuits will improve system safety and availability, and will reduce operating and maintenance costs. This project also generally satisfies the direction set forth in the Frederick City Comprehensive Plan (Chapter 8) that recommends that the City increase its energy efficiency to reduce the overall consumption of energy.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	5,288.147	3,788.147	-	300.000	300.000	300.000	300.000	300.000
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>5,288.147</b>	<b>3,788.147</b>	<b>-</b>	<b>300.000</b>	<b>300.000</b>	<b>300.000</b>	<b>300.000</b>	<b>300.000</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	5,137.047	3,637.047	-	300.000	300.000	300.000	300.000	300.000
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	31.100	31.100	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	120.000	120.000	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>5,288.147</b>	<b>3,788.147</b>	<b>-</b>	<b>300.000</b>	<b>300.000</b>	<b>300.000</b>	<b>300.000</b>	<b>300.000</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Streetlight Upgrades**  
Fund 306 - General CIP

**340000**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 340007**

**PROJECT NAME: Bentz Street Pedestrian Crossing**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project consists of the design and construction of pedestrian improvements at each intersection along Bentz Street from 2<sup>nd</sup> Street up to 7<sup>th</sup> Street. Improvements will include new ADA ramps, pedestrian signals, signs, and striping.

**JUSTIFICATION:**

This project addresses the need to provide safe options for pedestrian crossings of Bentz Street.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	50.000	50.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	200.000	200.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	250.000	250.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	250.000	250.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	250.000	250.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	0	0	0	0	0	0

**Bentz Street Pedestrian Crossing**

**340007**

Fund 306 - General CIP

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 340102**

**PROJECT NAME: Sidewalk Retrofit**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project is part of an on-going initiative to utilize State Highway Administration matching funds to construct sidewalks in urbanized areas along state highways. Funding sources vary in terms of the need for pedestrian improvements; either for safety or for access to transit facilities. Future sections may include missing links along the east and west sides of Baughman's Lane north of West Patrick Street as well as other sidewalk priorities as identified. This project will address various sections each year depending on needs and SHA funding levels. New sidewalks, curbs/gutter, ramps, crosswalks, and pedestrian signals will be constructed to create an integrated pedestrian handicap accessible network.

**JUSTIFICATION:**

Currently, many gaps in sidewalks exist throughout the City of Frederick along state highways. This project will work to connect sidewalks, upgrade existing sidewalks in order to meet ADA requirements for handicap accessibility, and to create new pedestrian access to transit facilities.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	43.500	43.500	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	649.796	649.796	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>693.296</b>	<b>693.296</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	290.524	290.524	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	301.114	301.114	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	101.658	101.658	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>693.296</b>	<b>693.296</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Sidewalk Retrofit**  
Fund 306 - General CIP

**340102**

**THE CITY OF FREDERICK, MARYLAND-CAPITAL IMPROVEMENTS PROGRAM FY 2014 - 2019**

**CIP NUMBER: 340401**

**PROJECT NAME: New Traffic Signal Construction**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project will provide funding for new traffic signals as the need arises throughout the year. It will also upgrade existing signals detection, controllers, interconnect capability, and will provide battery backup at key locations. This project will also include safety improvements to address pedestrian deficiencies at intersections.

Anticipated upcoming projects may include the following:

- 7<sup>th</sup> St and Schley – pedestrian upgrades
- Wormans Mill Rd and Mill Pond Rd – split phase
- N. Market St & Wormans Mill Ct – signal design & construction
- 9<sup>TH</sup> St and East St. - Equipment Upgrades
- 7<sup>TH</sup> St and Fairview Ave - Equipment Upgrades; Pedestrian signals
- South Market St and Clarke Pl -Equipment Upgrades
- Rosemont Ave and 2<sup>ND</sup> St - Equipment Upgrades
- Patrick St and Catoctin Ave - Equipment Upgrades
- East St and 16<sup>th</sup> St – signal to be installed upon developer remitting payment
- Center St at Madison Ave – utility pole relocates
- Center St at Washington St – utility pole relocates

**JUSTIFICATION:**

The objective of this project is to have funds available to construct new traffic signals and/or enhance existing signals should the City’s Engineering or Public Works Departments determine the need. This provides the resources necessary for the City to respond promptly to traffic safety and efficiency issues that can be solved with new signals or improvements to existing signals and intersections.

This project is consistent with the 2010 City Comprehensive Plan Policies LU 5 – Ensure that development is approved only if adequate community facilities exist, TE 2 Maintain an appropriate balance between public and private sector responsibilities for transportation investments and improvements, TE 7 – Promote bicycle and pedestrian mobility; TE9, Direct the flow of truck traffic to those facilities that are most suitable and away from other routes and areas where through truck traffic is incompatible with adjacent land uses or may cause safety issues; CCDPolicy 6 Promote safe, healthy, and attractive new construction.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	190.000	110.000	-	40.000	40.000	-	-	-
LAND/R.O.W.	5.000	5.000	-	-	-	-	-	-
UTILITIES	5.000	5.000	-	-	-	-	-	-
CONSTRUCTION	1,199.420	799.420	-	185.000	185.000	30.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,399.420</b>	<b>919.420</b>	<b>-</b>	<b>225.000</b>	<b>225.000</b>	<b>30.000</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	1,399.420	919.420	-	225.000	225.000	30.000	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,399.420</b>	<b>919.420</b>	<b>-</b>	<b>225.000</b>	<b>225.000</b>	<b>30.000</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**New Traffic Signal Construction**  
Fund 306 - General CIP

**340401**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 340402**

**PROJECT NAME: Traffic Light Conversion - ARRA**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project will assist the City in reducing energy costs by replacing old incandescent light bulbs with light emitting diodes (LEDs) in traffic signals. There are currently 68 traffic signals to be replaced within the City's boundaries. All installation/labor will be completed by the City's Lighting Division with an expected completion date of one year after grant is received.

**JUSTIFICATION:**

The objective of this project is to reduce energy costs but will also add the following benefits:

- Traffic signals will work longer without failing. The typical led light will last from five to ten years while the incandescent light burns out at least once per year. This will reduce the City's maintenance costs as well as the price of incandescent bulbs.
- LED traffic signals are clearer, sharper and more distinct which creates a safer driving environment.
- This project is in compliance with the methodology provided in the Homeland Security Emergency Preparedness.
- All of the above factors are in compliance with the City's Comprehensive Plan.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	164.732	164.732	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>164.732</b>	<b>164.732</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	38.580	38.580	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	109.552	109.552	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	16.600	16.600	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>164.732</b>	<b>164.732</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>ESTIMATED OPERATING BUDGET IMPACT:</b>	<b>REVENUE</b>						
	<b>EXPENSE</b>						
	<b>NET</b>	0	0	0	0	0	0

**Traffic Light Conversion - ARRA**  
**Fund 306 - General CIP**

**340402**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380001**

**PROJECT NAME: Shared Use Path Plan Improvements**

**PROJECT MANAGER: Deputy Director for Parks and Recreation**

**SCOPE:**

This project is to provide a 12' Shared Use Path throughout the entire City. The total miles of this project is 25.7 miles of which approximately 10 have been constructed. In this fiscal year, projects that will be funded through this project include:

- Shared Use Path connection design under US15 (MDOT Funds)
- East Street Rails with Trails On street Bike Lanes (CDBG Funds)
- Intercity Bike Loop – On-street (CDBG Funds)

**JUSTIFICATION:**

Elements contained in this project provide for ample alternative transportation resources; reducing on street automobile congestion, improving air quality, and allowing for a healthier populous in the City.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	40.000	40.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,305.009	2,065.009	-	120.000	120.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	2,345.009	2,105.009	-	120.000	120.000	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	530.009	350.009	-	90.000	90.000	-	-	-
DEBT ISSUE	1,280.000	1,280.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	350.000	350.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	185.000	125.000	-	30.000	30.000	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	2,345.009	2,105.009	-	120.000	120.000	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Shared Use Path Improvements**

**380001**

**Fund 306 - General CIP**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380006**

**PROJECT NAME: Way Finding Signage Program**

**PROJECT MANAGER: Director of Public Works**

**SCOPE:**

The scope of this project will identify old signs to be removed, design a new consistent signage program in conjunction with the State's Tourism Area and Corridor Sign Program (TAC) program, and develop a plan to install and remove the signage in a coordinated effort in the downtown area.

**JUSTIFICATION:**

In the Fall of 2009 a new "gateway" into the City was opened from I-70 via East Street. The tourism center is located at a prominent location on East Street near the Transit Center and the new signage will provide for better service to the visitors and residents who are coming into the city.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	640.000	640.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>640.000</b>	<b>640.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	360.000	360.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	280.000	280.000	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>640.000</b>	<b>640.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Wayfinding**  
Fund 306 - General CIP

**380006**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 410001**

**PROJECT NAME: Carroll Creek Linear Park**

**PROJECT MANAGER: Deputy Director for Parks & Recreation**

### **SCOPE:**

To construct Carroll Creek Park improvements along the 1.3 mile long flood control corridor through historic Downtown Frederick using the appointed Carroll Creek Task Force, urban design and engineering consultants, and construction firms as follows:

- Schematic design, design development, and construction documents and specifications for the creekscape improvements along Carroll Creek Park including but not limited to lighting, landscaping, planters, furniture, pedestrian and bicycle facilities, street crosswalks, and water features, etc.
- Prepare Carroll Creek Park Overlay District Development Design Regulations for all properties along Carroll Creek Park and the adjacent properties on S. East Street. This will ensure the highest quality design, materials, character, function, and aesthetics of infill development as called for in the City Comprehensive Plan and small area plans - Carroll Creek Master Plan and Phase I East Street Corridor Plan. Construct public park improvements as called for in the 1991 Carroll Creek Master Plan (1991 CC Master Plan) and the 2003 Carroll Creek Park Schematic Design.

### **JUSTIFICATION:**

The City of Frederick seeks “to complete a creekside park through historic Frederick, providing unique opportunities for commercial, residential, cultural and recreational development, enhancing the quality of life for the entire Frederick community (1991 CC Master Plan).” Recently completed public improvements along Carroll Creek in downtown Frederick include the first \$10.69 million phase of park, \$65 million flood control project, extension of East Street, construction of MARC station and rail service, renovation and expansion of the C. Burr Artz Library, and expansion of the Court House.

Private development of key opportunity sites along Carroll Creek Park and East Street together with construction of public park improvements along the length of the park is critical to bring the vision to fruition. The park improvements are to be completed through public and private participation. Private contributions from owners and developers of adjacent property are critical to the overall financing of the park improvements. The City has a unique opportunity to create a vital public space in downtown Frederick that is valued by and accessible to everyone in the community. Currently more than \$155 million in private investment is planned or underway along Carroll Creek Park. Public/private partnership to complete the park will provide development opportunities, create jobs and services and enhance the tax base of the City. It is estimated that more than 1,500 jobs will be created along the park.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	4,659.300	4,659.300	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	30,932.080	30,932.080	-	-	-	-	-	-
EQUIPMENT	137.000	137.000	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>35,728.380</b>	<b>35,728.380</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	3,709.380	3,709.380	-	-	-	-	-	-
DEBT ISSUE	21,829.421	21,829.421	-	-	-	-	-	-
SPECIAL ASSESSMENT	2,793.081	2,793.081	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	4,662.000	4,662.000	-	-	-	-	-	-
COUNTY GRANT	1,000.000	1,000.000	-	-	-	-	-	-
OTHER	1,734.498	1,734.498	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>35,728.380</b>	<b>35,728.380</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Carroll Creek Linear Park**  
Fund 306 - General CIP

**410001**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 410007**

**PROJECT NAME: Riverside Center Park**

**PROJECT MANAGER: Deputy Director for Parks & Recreation**

### **SCOPE:**

This is a phased project for this existing park that will ultimately provide an access road and parking spaces as well as additional multi-use field space for activities. The park resides entirely in the 100-year flood plain so obtaining an environmental permit is a critical step in the design approval process.

- New asphalt parking lot – 100 spaces, 7” pavement thickness
- Fill-in of existing borrow pit area (370,900 sf) and grade for new multi-purpose playing field use
- Reconfiguration of large existing storm water management outfall previously built by the Wal-Mart developer on northern side of the project to increase efficiency of pond outfall flow
- New pavilion 80’ long x 40’ wide (4” thick concrete floor, wood post support system) with 32 recessed lights.
- A standard multi-aged playground tot-lot that meets all playground safety standards.
- Install field lighting on 4 existing fields and new fields being built in this phase.

### **JUSTIFICATION:**

This project serves two purposes. We can use the borrow pit / pond as a rubble fill, thus saving the landfill costs and when complete the new filled area can be used for ball fields, which are greatly needed. This is a perfect location - no residential area to disturb and the park provides plenty of parking.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	70.480	70.480	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	890.000	890.000	-	-	-	-	-	-
EQUIPMENT	610.050	-	-	50.000	560.050	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,570.530</b>	<b>960.480</b>	<b>-</b>	<b>50.000</b>	<b>560.050</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	610.050	-	-	50.000	560.050	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	843.000	843.000	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	117.480	117.480	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,570.530</b>	<b>960.480</b>	<b>-</b>	<b>50.000</b>	<b>560.050</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Riverside Center Park**  
Fund 306 - General CIP

**410007**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 410011**

**PROJECT NAME: Avalon Park**

**PROJECT MANAGER: Deputy Director for Parks & Recreation**

**SCOPE:**

The scope of this project includes the design and construction of the following features in this park: 19-space parking lot with one handicapped space and one entrance/exit off of Waverly Drive; a multi-aged playground unit meeting all standard playground safety specifications; 750 linear feet of 4' path connecting all park features; two single table picnic pavilions; five lighted tennis courts with 8' high chain link fence for an estimated 510 linear feet and water fountains.

This park will serve as a tennis facility for the City. We have promised the community for the last eight years that we would build another tennis complex to help alleviate the heavy use of our courts at Baker Park. When you build courts in batteries of five or more (which is commonly recommended by the NRPA), this enables us to hold tennis tournaments and teach lessons at this site.

**JUSTIFICATION:**

Planned park for this community.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	30.000	-	-	-	30.000	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	354.000	-	-	-	354.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>384.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>384.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	384.000	-	-	-	384.000	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>384.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>384.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Commons of Avalon Park**  
Fund 306 - General CIP

**410011**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 410017**

**PROJECT NAME: Clover Ridge Park**

**PROJECT MANAGER: Deputy Director for Parks & Recreation**

**SCOPE:**

This approximate 30-acre park plan has been approved by the Parks & Recreation Commission. The design consists of two tot lots, open space, soccer field, little league field, 34-space parking lot and three small pavilions.

**JUSTIFICATION:**

Required parkland for Clover Ridge development.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	35.000		-	35.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	403.000	-	-	-	403.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>438.000</b>	<b>-</b>	<b>-</b>	<b>35.000</b>	<b>403.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	438.000	-	-	35.000	403.000	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>438.000</b>	<b>-</b>	<b>-</b>	<b>35.000</b>	<b>403.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Clover Ridge Park**  
Fund 306 - General CIP

**410017**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 411202**

**PROJECT NAME: West Side Regional Park**

**PROJECT MANAGER: Deputy Director for Parks & Recreation**

**SCOPE:**

The City of Frederick has purchased a large tract of land, 148 acres, on the west side of town to provide the following elements: numerous lighted sports fields, adequate parking, indoor aquatic center, water park and DPW Annex. There will be upgrades made to the Butterfly Lane / Route 180 intersection helping overall traffic flow. Thirty-five (35) acres of this park have been dedicated to POS protection. These 35 acres are on the west side of the park and will consist of four multi-purpose fields and parking. The road frontage part will be a future aquatic center.

An early conception plan for the whole park has been designed and is currently going through the public meetings process in order to receive feedback from the community.

**JUSTIFICATION:**

The City has great neighborhood and community parks throughout the City, but there is a serious need for a large regional park to satisfy the need for the larger amount of youth and adult sport leagues and field space requests. The City, with a population of 60,000+, should also have an indoor aquatic center, which is the most requested facility from the citizens.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	626.581	626.581	-	-	-	-	-	-
LAND/R.O.W.	18,000.000	18,000.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	426.437	-	226.437	200.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>19,053.018</b>	<b>18,626.581</b>	<b>226.437</b>	<b>200.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	200.000	-	-	200.000	-	-	-	-
DEBT ISSUE	17,543.720	17,543.720	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	276.437	50.000	226.437	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	1,032.861	1,032.861	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>19,053.018</b>	<b>18,626.581</b>	<b>226.437</b>	<b>200.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**West Side Regional Park**  
**Fund 306 - General CIP**

**411202**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 450102**

**PROJECT NAME: Grove Stadium Improvements**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

On October 1, 2011, The City of Frederick entered into a 10-year lease with the Frederick Keys Club. As part of the lease agreement The City of Frederick and the Frederick Keys Club agreed to make joint capital improvements to the facility over the life of the lease agreement. The improvement projects are derived from the list of 2011 Proposed Capital Improvements to include:

- Marquee – FY15 (\$500,000.)  
A marquee elevates the profile of the stadium and any potential entity that purchases Harry Grove Stadium field naming rights. A marquee is a structural improvement that is a pivotal component to ensuring Harry Grove Stadium is capable of becoming a self-supported facility that can access an untapped revenue stream whose revenues can support critical facility improvements. The construction of a marquee will boost the visibility of Harry Grove Stadium and increase the revenue potential for this high profile facility on I-70.
- New Covered/Lit Batting Cages – FY15 (50,000.)  
The existing batting cages are not covered or lit. Build new covered/lit batting cages that conform to Carolina League Standards.
- Outfield Wall Replacement – FY16 (\$275,000.)  
The existing wall is almost to its life expectancy. The outfield wall will need to be replaced in accordance with Carolina League Standards.

**JUSTIFICATION:**

This is a requirement of the 2011 lease with the Frederick Keys Club. The Frederick Keys Club agreed to contribute up to \$1 million throughout the term of the lease agreement with the City matching the Keys' Club contributions and therefore, all requirements must be negotiated up to the \$1,000,000 limit over the term of the lease. Negotiated improvements will be submitted as funding becomes available.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	800.000	800.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,900.000	3,300.000	200.000	200.000	200.000		-	-
EQUIPMENT	307.500	307.500		-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>5,007.500</b>	<b>4,407.500</b>	<b>200.000</b>	<b>200.000</b>	<b>200.000</b>		-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	400.000	100.000	100.000	100.000	100.000	-	-	-
DEBT ISSUE	2,000.000	2,000.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	2,000.000	2,000.000	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	607.500	307.500	100.000	100.000	100.000		-	-
<b>TOTAL REVENUES</b>	<b>5,007.500</b>	<b>4,407.500</b>	<b>200.000</b>	<b>200.000</b>	<b>200.000</b>		-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Grove Stadium Improvements**  
Fund 306 - General CIP

**450102**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 480157**

**PROJECT NAME: Weinberg Center Sound**

**PROJECT MANAGER: Director of Economic Development**

**SCOPE:**

The intent of this project is to upgrade the lighting at The Weinberg Center for the Arts as its lighting has reached its life expectancy and needs updating. The following lighting upgrades are requested:

<b><u>Equipment</u></b>	<b><u>Quantity</u></b>	<b><u>Price Per (estimate)</u></b>	<b><u>Total Price (estimate)</u></b>
Shure SM58	6	\$100	\$600
Shure SM 57	5	\$100	\$500
Radial pro DI	4	\$100	\$400
Radial Pro 48 DI	4	\$100	\$400
Shure ULXD Microphone system	2	\$2,488	\$4,976
50' 8 channel subsnake	1	\$150	\$150
Tripod Mic stand Tall	8	\$110	\$80
Tripod Mic stand Short	4	\$110	\$440
Wireless Mic Antenna accessories	1	\$1000	\$1,000
XLR M to F 15'	12	\$22	\$264
Edison Power drop	1	\$400	\$400
<b>Total</b>	<b>48</b>	<b>\$4,680</b>	<b>\$10,010</b>

**JUSTIFICATION:**

**Sound System:**

Replacement of outdated or damaged equipment.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	90.000	180.000	(90.000)	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>90.000</b>	<b>180.000</b>	<b>(90.000)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	90.000	90.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	90.000	(90.000)	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>90.000</b>	<b>180.000</b>	<b>(90.000)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>							
<b>EXPENSE</b>							
<b>NET</b>	-	-	-	-	-	-	-

**Weinberg Center Lights and Sound**  
**Fund 306 - General CIP**

**480157**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 480158**

**PROJECT NAME: Weinberg Center HVAC System**

**PROJECT MANAGER: Director of Economic Development**

**SCOPE:**

- Engineering evaluation of existing HVAC systems, its operation, the duct sizes and existing utilities.
- Develop design alternatives, with cost analysis.
- Make recommendations on new system
- Complete design of new HVAC system, including:
  - Demolition and removal of old system
  - Duct Work (as needed)
  - Equipment
  - Abatement (where necessary)
  - Restoration
  - New control system with appropriate zoning capability
  - All electrical work as required
  - Structural requirements
  - Abatement monitoring
- Coordinate permit review and approval
- Coordinate HDC review and approval
- Develop cost estimate with possible value engineering options
- Develop preliminary project schedule/time line. Coordination with scheduled events and performances will be critical.
- Prepare/assist with preparation of bid documents for new system installation (bid process will be controlled by City Purchasing Department.)
- Support bidding process of installation of new HVAC system
- Serve as construction manager during installation of new system.

**JUSTIFICATION:**

The Weinberg HVAC system has been plagued with problems since the newest system was installed in 2006. While the system has run relatively well with the assistance of local HVAC contractors an incident occurred in February 2013 in which an HVAC pipe was damaged causing the release of oil and Freon. These substances were replaced but upon the first test of the repaired system, it failed and both compressors collapsed. The Weinberg was able to limp through Spring and Summer performances and dance recitals with the use of industrial fans in the main area. There has been lost revenue to The Weinberg because of this inability to regulate and cool the theater. This needs to be addressed as soon as possible to prevent further loss of revenue to the facility and to replace a system that was not adequate from the beginning.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	500.000	-	500.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>500.000</b>	<b>-</b>	<b>500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	500.000	-	500.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>500.000</b>	<b>-</b>	<b>500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Weinberg Center- HVAC**  
**Fund 306 - General CIP**

**480158**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 310004**

**PROJECT NAME: Monocacy Blvd / RT 15 Interchange**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

The intent of this project is to complete the engineering and design of the project as prescribed in the planning process. A memorandum of understanding and letter of agreement between the City, County and State was entered into in order to fund the design with SHA responsible for managing the design. City Staff will participate in meetings and provide data and input where applicable.

**JUSTIFICATION:**

Safety along US 15 will be enhanced by the construction of the interchange by eliminating at-grade crossings in The City of Frederick area. The connection will also provide a vital link between the east and west sides of The City of Frederick on the north side of town. This connection is expected to help alleviate congestion at the US 15 at Opossumtown Pike/Motter Avenue interchange.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	1,600.000	-	-	1,600.000	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,600.000</b>	<b>-</b>	<b>-</b>	<b>1,600.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	1,600.000	-	-	1,600.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,600.000</b>	<b>-</b>	<b>-</b>	<b>1,600.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Monocacy Blvd./Rt 15 Interchange**  
**Fund 602 - Water and Sewer CIP**

**310004WS**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 310304**

**PROJECT NAME: Monocacy Boulevard - Central Section – Phase II**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

The design and construction of Monocacy Blvd Central Section which extends from Gas House Pike in the north to Hughes Ford Road in the south, including the design and construction of the bridge over Monocacy River, extension of Schifferstadt Blvd and East Church Street to connect with Monocacy Blvd., and the design and construction of the bridge over Carroll Creek. Monocacy Blvd in this section will be a four lane road with associated curb and gutter and sidewalks / bike paths. This project also includes completion of the Carroll Creek Flood Control Levee along Gas House Pike. Portions of the design/construction fronting the Nicodemus property shall be paid for by the property owner as stipulated in their annexation agreement. This project includes associated water and sewer infrastructure.

**JUSTIFICATION:**

This section of roadway will create an eastern loop for motorists to go around Frederick. It will relieve congestion in town and provide additional choices for motorists to travel without entering already congested arterials. The roadway will provide key relief needed for East Street as it begins to carry significantly more traffic in 2009 when the East Street extended project is complete along with the I-70 ramps to East Street.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	2,000.000	-	2,000.000	-	-	-	-	-
CONSTRUCTION	7,095.074	7,095.074	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>9,095.074</b>	<b>7,095.074</b>	<b>2,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	9,095.074	7,095.074	2,000.000	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>9,095.074</b>	<b>7,095.074</b>	<b>2,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Monocacy Blvd. - Central Section - Ph. II**

**310304WS**

Fund 602 - Water and Sewer CIP

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 320015**

**PROJECT NAME: Butterfly Lane Improvements - Realignment**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project is for the design and construction and the relocation of a four-lane Butterfly Lane section through the Hargett Farm to tie in at Swallowtail Drive. The existing Butterfly Lane will terminate prior to MD180 via a cul-de-sac.

The Residences at Prospect Hill are anticipated to contribute funding toward this project.

**JUSTIFICATION:**

This project will enhance roadway operations and provide additional capacity along Butterfly Lane, and will greatly improve traffic issues along the MD180 corridor by spacing the intersection of Butterfly Lane at MD180 a greater distance from Himes Ave.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	500.000	-	-	-	500.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	500.000	-	-	-	500.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Butterfly Lane Improvements**  
**Fund 602 - Water and Sewer CIP**

**320015WS**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 360009

**PROJECT NAME:** Water Distribution Upgrades

**PROJECT MANAGER:** Deputy Director for Operations

**SCOPE:**

This project will require the hiring of a design/builder to complete the City's Water distribution system improvements per the City's Water and Sewer Master Plan (Chester 2000 & Dayton-Knight 2006). The design-builder will complete the design and construct the water main improvements, provide traffic control, public information notices, permits, easements, permanent patching and/or mill-overlay and restoration of all work sites per City specifications. The work areas are to include:

- Relocate 10" mains across Hood College Property, Phase I (FY15)
- Replace 10" main on N. Bentz from 7<sup>th</sup> to W. Patrick Street, Phase II (FY15)
- Install 12" loop line from Md. 144 to Quinn Orchard to Tilco (complete loop) (FY16)
- Install 12" loop line from Waterside Drive (City Line) through County portion to Dearbought

**JUSTIFICATION:**

The above improvements are recommended in the Water Master Plans (Chester 2000 & Dayton-Knight 2006) and are necessary based on current hydraulic modeling of the City's water distribution system and best management practices.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	1,034.291	534.291	500.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	16,397.059	11,897.059	-	4,000.000	-	500.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>17,431.350</b>	<b>12,431.350</b>	<b>500.000</b>	<b>4,000.000</b>	<b>-</b>	<b>500.000</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	1,640.252	640.252	500.000	-	-	500.000	-	-
DEBT ISSUE	15,252.146	11,252.146	-	4,000.000	-	-	-	-
SPECIAL ASSESSMENT	535.735	535.735	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	3.217	3.217	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>17,431.350</b>	<b>12,431.350</b>	<b>500.000</b>	<b>4,000.000</b>	<b>-</b>	<b>500.000</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Water Distribution Upgrades**  
Fund 602 - Water and Sewer CIP

**360009**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360011**

**PROJECT NAME: New Design Water Plant Expansion**

**PROJECT MANAGER: Deputy Director for Operations**

### **SCOPE:**

The scope of this project includes City funding of a proportionate share of the design, easement acquisition and construction of County owned water supply infrastructures defined below. This project will allow the County to provide the City with 8 MGD Maximum potable water from the Potomac source as is defined by the Potomac River Water Supply Agreement (PRWSA) dated March 16, 2006.

**Transmission Main:** (est. completion 2011) The 42” transmission main (5 phases) will begin at the New Design Plant (capacity of 32MGD, 24 County/8 City), reducing to a 36” main near Frederick Junction, and extending to a proposed elevated tank and pump station near the County’s Fire Training Center. From the pump station, a 24” main will connect to the City’s water distribution system at Reich’s Ford Road. A SCADA controlled 12” bi-directional Magnetic Flow Meter will be located at the City limits. Appropriate chemical feed will be located near the connection. The County is managing this project, with technical input from the City.

**WTP Expansion:** (FY 2005-2010) This is anticipated to provide a capacity of 8 MGD to the City. This capacity will be provided in a phased approach, which will be determined by the County.

**City/County High Zone Connection:** Includes a 16” water main between the County’s Hannover Tank and the City’s Butterfly Lane Tank. Approximately 9, 500 linear feet of pipeline, along with associated water meter, SCADA, valves, hydrants and fittings. This project will be cost shared with the County, however the cost share formula has not been established. This connection is needed to transfer water from the Potomac Source directly to the City High Zone, and recommended in a Hydraulic Memo prepared by WRA, dated June 13, 2003.

### **JUSTIFICATION:**

As outlined in The City of Frederick Comprehensive Plan (2004), the City has adopted an “Expanding Horizon” growth scenario, one in which the population of the City is anticipated to double to 104,000 by the year 2030. Current water supplies are not sufficient to meet this level of growth. This was exacerbated by the drought conditions of 2002. Partnering with the County on this project ensures the City an adequate supply of potable water for the foreseeable future.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	1,835.000	1,835.000	-	-	-	-	-	-
LAND/R.O.W.	715.000	715.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	49,700.000	49,700.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>52,250.000</b>	<b>52,250.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	500.000	500.000	-	-	-	-	-	-
DEBT ISSUE	51,750.000	51,750.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>52,250.000</b>	<b>52,250.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**New Design Water Treatment Plant**  
Fund 602 - Water and Sewer CIP

**360011**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2014 - 2019**

**CIP NUMBER: 360015**

**PROJECT NAME: North Side Water Tank**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

This project is for the design and construction of a 1,000,000 gallon above ground, potable water storage tank, SCADA controls and approximately 1500 linear feet of 20” transmission main to connect to a 20” water main at Valley Side Drive and Amber Drive (project to be located on property acquired from BOE at Hayward Drive across from Amber Drive). The design includes all permits (MDE, local building, air traffic, electrical and all others that are necessary to the project) and must contain traffic control plans, public notification plans, staging, shipping, crane lift process and all construction procedures to produce a finished working product that meets the City of Frederick operations and engineering standards per the timeline established in the most recent Water Master Plan.

**JUSTIFICATION:**

This project has been hydraulically modeled and is recommended in the 2006 Dayton-Knight Water Master Plan and has been recommended in the 2000 Chester Water/Sewer Master Plan as well.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	300.000	300.000	-	-	-	-	-	-
LAND/R.O.W.	430.000	430.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,070.000	3,070.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>3,800.000</b>	<b>3,800.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	2,800.000	2,800.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	1,000.000	1,000.000	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>3,800.000</b>	<b>3,800.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**North Side Water Tank**  
Fund 602 - Water and Sewer CIP

**360015**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**NUMBER: 360018**

**PROJECT NAME: Water Loss Reduction**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This project is an annual and ongoing two-phase project. Phase I will be a completion (and ongoing) of a study of The City of Frederick water distribution system to identify the parts of this system that either are or have a high probability of losing water through leaks. The study will provide recommendations for corrective actions, cost estimates and prioritization. Phase II will implement the corrections based on the annual level of funding. This will include, but not be limited to, replacement of main, services, metering, leak detection, etc. The entire City distribution system will be part of this project. Specifically:

- Dill Avenue: replace and extend to Upper College Terrace (FY14)
- Carrollton Area Cul-de-Sac replacements (FY14)
- Rosemont: move services on 4" to 6" and de-commission 4" main (FY14)
- N. Jefferson St. from W. Patrick to Carroll Parkway (FY15)
- Replace galvanized line on B&O Avenue (FY15)
- Abandon line in rear of 300, 302, 304 E. 3<sup>rd</sup> and install new service lines from street to houses (FY15)

**JUSTIFICATION:**

When this annual program started in 2004 DPW estimated that up to 21% of its treated water was lost through leaks. A goal of 10% has been established by MDE and adopted as part of the City's Strategic Interim Water Management Plan Policy D-2, consistent with Comprehensive Plan Objectives 8 – 11, and the Chester Water and Sewer Master Plan. Currently we are averaging approximately 5 1/5% unaccounted for water.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	1,119.275	1,119.275		-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	18,546.000	6,046.000	2,500.000	2,000.000	2,000.000	2,000.000	2,000.000	2,000.000
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>19,665.275</b>	<b>7,165.275</b>	<b>2,500.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	14,500.000	2,000.000	2,500.000	2,000.000	2,000.000	2,000.000	2,000.000	2,000.000
DEBT ISSUE	5,165.275	5,165.275	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>19,665.275</b>	<b>7,165.275</b>	<b>2,500.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Water Loss Reduction**  
Fund 602 - Water and Sewer CIP

**360018**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360022**

**PROJECT NAME: Water Resource Project**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

Develop new, permanent water sources for the City of Frederick potable supply system in order to increase or obtain additional water supply. Construct new water supply infrastructure needed to supplement the City's existing sources of the supply during the next two to five years. These sources consist of new production wells, surface water intake structure modifications, treatment modifications or expansions, pipelines or other infrastructure which may be necessary to integrate these new sources of supply into the water distribution system. Several components have already been constructed.

The projects include:

- Comparison of permanently installing the Zenon WTP at the Monocacy Treatment site to treat groundwater versus modifying the Monocacy WTP to allow treatment in the existing plant. (Completed Study-WATEK-2008)
- Locate, identify and abandon existing wells at various locations in the City. (Completed FY09)
- Develop the high producing well (TW-1) in the vicinity of the airport. (As Budget Allows)
- Design Modifications to existing Monocacy WTP to treat well field water blended with Monocacy River water. (FY 10/FY12)
- Construct the designed modifications to the MWTP (FY14/15)

**JUSTIFICATION:**

Current water supplies are not sufficient to meet the level of growth as projected and adopted in the 2004 Comprehensive Plan. This was exacerbated by the drought conditions of 2002. This project is part of an ongoing effort to identify and develop new water sources for the City.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	2,594.374	2,594.374	-	-	-	-	-	-
LAND/R.O.W.	86.030	86.030	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	7,813.374	2,813.374	5,000.000	-	-	-	-	-
EQUIPMENT	35.991	35.991	-	-	-	-	-	-
MISCELLANEOUS	73.391	73.391	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>10,603.160</b>	<b>5,603.160</b>	<b>5,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	581.074	581.074	-	-	-	-	-	-
DEBT ISSUE	9,892.181	4,892.181	5,000.000	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	15.266	15.266	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	114.639	114.639	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>10,603.160</b>	<b>5,603.160</b>	<b>5,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Water Resource Project**  
Fund 602 - Water and Sewer CIP

**360022**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360023**

**PROJECT NAME: Ballenger Creek Interconnect (Phase II)**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

Phase I (Completed January 2010):

Design and construction of approximately 2,200 feet of 24-inch water transmission main and associated chemical enhancement facility to allow the transfer of 2.0 to 4.0 million gallons per day (MGD) of potable water from Frederick County water system to Frederick City water distribution system by October 2008 as planned in the Optimization phase of the New Design Water Plant Expansion Project – CIP 360011. Total system constructed to transfer and treat 1.5 MGD initially and 5.0 MGD (8 MGD Maximum) in future.

Phase II:

Evaluate, design and install additional pumps, pump controls and SCADA system to meet the operating requirements of the County's water distribution system as identified in the Potomac River Water Supply Agreement (PRWSA) dated March 16, 2006.

**JUSTIFICATION:**

As outlined in the City of Frederick Comprehensive Plan (2004), the City adopted an “Expanding Horizon” growth scenario in which the population of the City was anticipated to double to 104,000 by the year 2030. This CIP was generated to ensure growth does not outstrip current and future water supplies.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	496.000	246.000	250.000	-	-	-	-	-
LAND/R.O.W.	100.000	100.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,051.483	2,051.483	-	1,000.000	-	-	-	-
EQUIPMENT	6.000	6.000	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>3,653.483</b>	<b>2,403.483</b>	<b>250.000</b>	<b>1,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	293.925	43.925	250.000	-	-	-	-	-
DEBT ISSUE	3,359.558	2,359.558	-	1,000.000	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>3,653.483</b>	<b>2,403.483</b>	<b>250.000</b>	<b>1,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Ballenger Creek Interconnect**  
Fund 602 - Water and Sewer CIP

**360023**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360025**

**PROJECT NAME: Water and Sewer Security**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

To determine and implement security improvements to the City of Frederick water and sewer systems based on the recommendations of the 2003 Environmental Protection Agency's (EPA) required Vulnerability Assessment (VA) of the City of Frederick's Water and Waste Water Treatment Plants (WTP/WWTP). The plan is to identify new improvements within the criteria of the VA.

At a minimum, this project will require:

- The study of what type of WTP/WWTP security measures will be needed (FY04 and on-going)
- The development of specifications to prepare a bid for a security product and its installation
- The selection of a contractor to install/purchase the security product and obtain a Frederick County Building and Soil Erosion Permit, if applicable
- Installation of the security product.

**FY14 (Anticipated Work)**

- Relocate the fence and gate opener
- Install tank-mounted regulators on each chlorine cylinder at the Monocacy WTP.

**JUSTIFICATION:**

This project is consistent with and supported by the 2004 City Comprehensive Plan Policy CF.3 (enhance public safety and emergency preparedness) and Policy CF.5- (provide a safe and efficient water and sewer service to protect the health, growth and well-being of The City of Frederick).

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	340.000	340.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>340.000</b>	<b>340.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	100.000	100.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	120.000	120.000	-	-	-	-	-	-
STATE GRANT	120.000	120.000	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>340.000</b>	<b>340.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Water and Sewer Security**  
Fund 602 - Water and Sewer CIP

**360025**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360029**

**PROJECT NAME: Bowers-Whittier-Bowman Connector Pipelines**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

The intent of this project is to:

- Design and construction of approximately 15,000 feet of 16-inch water transmission main along Bowers Road and Kemp Lane to connect the Bowers and Whittier storage tanks. To include acquisition of all necessary permits and easements (*Completed in 2011*).
- Design-build and construction of approximately 1,200 feet of 12 inch transmission connection loop to the Linganore Transmission Main. This project is to include the acquisition of all necessary permits and easements (*Completed in 2010*).
- Design and construct the necessary SCADA (Supervise Control and Data Acquisition) system to operationally tie these tanks together and determine a list of priorities to upgrade the associated pump stations. (FY 2015 – 2016)

**JUSTIFICATION:**

The tank connector pipeline is necessary to provide redundancy and operational backup to the Whittier storage tank in the event of operational difficulties. If the Whittier tank becomes non-operational for any reason, there is no back up for supply in the area. This is particularly important for future development expected in the 595 high zone. The Bowman's connector pipeline provides a transmission loop to the Linganore transmission main. Both of these projects are recommended in the 2006 Water Master Plan by Dayton & Knight.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	5.690	5.690	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	4,480.498	4,480.498	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	0.594	0.594	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>4,486.782</b>	<b>4,486.782</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	76.000	76.000	-	-	-	-	-	-
DEBT ISSUE	4,410.782	4,410.782	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>4,486.782</b>	<b>4,486.782</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Bowers/Whittier Connector Pipeline**

**360029**

Fund 602 - Water and Sewer CIP

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360031**

**PROJECT NAME: Fishing Creek Pipeline**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This project provides for constructing approximately 31,700 feet of 18-inch water main from the Fishing Creek Reservoir to the Lester Dingle Treatment Plant. The water main is intended to replace the existing pipeline between the reservoir and the plant. Project Phasing is discussed below.

- Identify ownership of easements; locate main w/GPS Technology. (Completed FY 2010)
- Engineering- preliminary design (FY2011)
- Obtain access rights of way and easements, engineering. (FY 2013)
- Clear easement and pipeline alignment, construct pipeline. (FY 2014 – FY 2015)
- Construct Pipeline (FY 2016 +)

**JUSTIFICATION:**

The existing pipeline is a 12-inch/18-inch diameter, lead-jointed cast iron pipe constructed in around 1899. The pipe is exposed in areas, corroded and subject to leakage and/or damage due to its original placement and alignment. Replacement will provide for a more dependable source of water from the reservoir. This project was recommended in the 2006 update to the Water Master Plan by Dayton & Knight Ltd.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	1,125.000	125.000	1,000.000	-	-	-	-	-
LAND/R.O.W.	155.000	155.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	12,300.000	800.000	-	-	-	11,500.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>13,580.000</b>	<b>1,080.000</b>	<b>1,000.000</b>	-	-	<b>11,500.000</b>	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	2,080.000	1,080.000	1,000.000	-	-	-	-	-
DEBT ISSUE	11,500.000	-	-	-	-	11,500.000	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>13,580.000</b>	<b>1,080.000</b>	<b>1,000.000</b>	-	-	<b>11,500.000</b>	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Fishing Creek Pipeline**  
**Fund 602 - Water and Sewer CIP**

**360031**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360032**

**PROJECT NAME: SCADA System**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

To make all necessary improvements to the existing SCADA (Supervisory Control and Data Acquisition) System that will enhance the operability, security, and management of our water treatment and distribution/collection system. The work anticipated will address communications infrastructure, hardware replacements/modifications, new I/O devices for additional monitoring, control, and security, adding HMI (Human Machine Interface) clients to management areas, etc. In some cases, these activities will be coordinated with improvements or construction of new facilities as determined by each individual project.

**FY14 – FY15 (Anticipated Work)**

- Miscellaneous items that may be necessary to accommodate other planned improvements (i.e. new water storage tank at north end of City).
- Finish ongoing work related to the network and work at the wastewater plant, water plants, and golf course. Completed June 2013
- Replacement of the Bristol Babcock RTU at our Linganore Water Plant with a new PLC.
- Replacement of the Bristol Babcock RTU at our Monocacy Water Plant with a new PLC.
- Monarch Ridge Pump Station: In progress
- Tilco Drive Pump Station: Add PLC hardware to control panel; add this site to radio network and include operation data to the SCADA system
- Amber Meadows Pump Station: Add this site to the radio network and include operation data to the SCADA system
- DPW Pump Station: In progress
- Upgrade all Momentum PLC processors with new Unity processors

**JUSTIFICATION:**

The existing SCADA System is substandard when considering available technology and expectations with regard to operability and security. The improvements indicated in the scope are pursuant to the recommendations in the current “Water Master Plan” and will improve our ability to treat and deliver quality water to the citizens of the City of Frederick: Public safety and health is the primary goal.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	100.000	100.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	400.000	400.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	500.000	500.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	500.000	500.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	500.000	500.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	0	0	0	0	0	0

## SCADA System

Fund 602 - Water and Sewer CIP

## 360032

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360033**

**PROJECT NAME: Lake Linganore Silt Removal**

**PROJECT MANAGER: Deputy Director for Operations**

### **SCOPE:**

The intent of this project is for the City to fund its proportionate share of the removal of silt from the Lake Linganore Water Reservoir and to establish a long-term maintenance/funding plan to address silt build-up. The 2002 estimate for the below work was in the ~\$4.5M range, without the inclusion of land acquisition. The December 2002, Whitman Requardt Study details the lost volume of storage capacity due to siltation. The City is also working with the County on a study by USGS to get a more accurate determination of the volume of silt accumulation. The actual work scope will likely include the following:

- Develop a memorandum of understanding between the City and the Lake Linganore Association (LLA) as to responsibilities and funding.
- Establish the method by which we'll remove the silt. Hire consultants where necessary for design/permitting.
- Secure necessary permits.
- Establish a site for the de-watering of the silt.
- Develop the removal plan for the dewatered silt.
- Hire a contractor to remove the silt to the de-watering site.
- Hire a contractor to re-establish and stabilize the de-watered silt and to stabilize the Lake embankments/silt inflow channels.
- Develop an agreed upon maintenance/finance plan between the City and The LLA to address the periodic future silt build-ups.

### **JUSTIFICATION:**

As outlined in the 2002 Whitman Requardt Study, Lake Linganore has lost nearly 100 million gallons of storage capacity (currently ~15 days of City water usage). In order to restore this ability to withstand periods of little to no rain, it is essential that we return the Lake to its original volume. With the ability to make releases from Lake Linganore of adequate flow volumes by the LLA, the flow by requirement for the Linganore Creek WTP may not be able to be met under low flow conditions. If the flow-by requirement cannot be met, this will limit the capacity of the Linganore WTP.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	599.900	29.900	250.000	260.000	60.000	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	15,000.000	-	-	-	7,500.000	7,500.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>15,599.900</b>	<b>29.900</b>	<b>250.000</b>	<b>260.000</b>	<b>7,560.000</b>	<b>7,500.000</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	284.900	29.900	125.000	130.000	-	-	-	-
DEBT ISSUE	7,530.000	-	-	-	3,780.000	3,750.000	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	3,892.500	-	62.500	65.000	1,890.000	1,875.000	-	-
OTHER	3,892.500	-	62.500	65.000	1,890.000	1,875.000	-	-
<b>TOTAL REVENUES</b>	<b>15,599.900</b>	<b>29.900</b>	<b>250.000</b>	<b>260.000</b>	<b>7,560.000</b>	<b>7,500.000</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Lake Linganore**

**Fund 602 - Water and Sewer CIP**

**360033**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360034**

**PROJECT NAME: Butterfly Lane Water Tank: Lead Abatement**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

In order to meet OSHA and MOSHA requirements, scope of this work would include the provision for hiring an engineer to evaluate and conduct lead abatement procedures to both exterior and interior of the Butterfly Lane Water Tank. The work may also include upgrade to worn pump and pump controls.

**JUSTIFICATION:**

This work is needed in order to keep potable drinking water from being contaminated by lead leaching from original paint on the inside of this water tank and in order to remove hazardous lead paint from the exterior.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	200.000	200.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,000.000	-	-	1,000.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	1,200.000	200.000	-	1,000.000	-	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	1,200.000	200.000	-	1,000.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	1,200.000	200.000	-	1,000.000	-	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Butterfly Lane Water Tank: Lead Abatement**

**360034**

**Fund 602 - Water and Sewer CIP**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 360601**

**PROJECT NAME: Watershed Land Acquisition**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

This project funds the annual acquisition of available property within The City of Frederick watershed as land becomes available to purchase.

**JUSTIFICATION:**

Not all properties within the City watershed are owned by the City. Various properties located within the watershed directly affect the City's water quality because of their location. The City pursues the acquisition of these properties as they become available to purchase.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	59.006	59.006	-	-	-	-	-	-
LAND/R.O.W.	973.621	673.621	300.000	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	28.547	28.547	-	-	-	-	-	-
EQUIPMENT	0.941	0.941	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,062.115</b>	<b>762.115</b>	<b>300.000</b>	-	-	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	681.878	381.878	300.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	380.237	380.237	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,062.115</b>	<b>762.115</b>	<b>300.000</b>	-	-	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Watershed Land Acquisition**  
**602 - Water & Sewer Fund**

**360601**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 370007

**PROJECT NAME:** Wastewater Flowmeter Replacement

**PROJECT MANAGER:** Deputy Director for Operations

### **SCOPE:**

A jointly purchased comprehensive sewer basin study will be necessary to determine ultimate flow ownership between the City and County. In addition, replacement of the existing, Parshall Flume flow meter on the Monocacy By-pass Sewer Interceptor (near the Monocacy Water Treatment Plant) and install new, permanent flow measuring devices with telemetry capability at other critical points in the wastewater collection system will be necessary.

The Monocacy By-pass Interceptor receives wastewater from City & County developments. The Parshall Flume metering flows in this interceptor needs to be replaced due to age and because it is undersized for current flows. Portable meters currently measure flows in the four trunk lines into the Gas House Pike Waste Water Treatment Plant. Permanent meters will be installed at each location.

Additional, permanently installed flow meters are necessary at other critical junctions to differentiate between City and County flow contributions and for inflow/infiltration analysis. Proposed locations include the following connections into the Tuscarora Interceptor/Monocacy By-pass:

- Dearbought @ manhole DB45
- Routzahn's @ manhole MI 26
- Riverside Center @ manhole 1475
- Shops at Monocacy @ manhole MP3
- Worman's Mill @ manhole WM2
- Worman's Mill @ manhole 1236
- Worman's Mill @ manhole TK19
- Willowbrook @ manhole WB1
- North Crossing @ TBD

### **JUSTIFICATION:**

This project is required to accurately account for flows that are introduced into the Monocacy Bypass Sewer Interceptor. The upgrade of the meters is per the Sewer Agreement with the County.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	250.000	250.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	690.000	690.000	-	-	-	-	-	-
EQUIPMENT	130.000	130.000	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,070.000</b>	<b>1,070.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	1,070.000	1,070.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,070.000</b>	<b>1,070.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Wastewater Flowmeter Replacement**  
Fund 602 - Water and Sewer CIP

**370007**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 370008

**PROJECT NAME:** Gas House Pike WWTP Expansion & Improvements

**PROJECT MANAGER:** Deputy Director for Operations

### **SCOPE:**

This project provides for the installation of the City of Frederick's Wastewater Treatment Plant improvements that are recommended in the 2004 Malcolm-Pirnie Wastewater Treatment Expansion Study (MPWWTPS) and the 2010 Whitman-Requardt Facilities Plan.

The improvements include:

- Solids Building Mixing System
- Influent pump station modernization
- Sand filter building flow increases
- Grit separation process upgrades

At a minimum, the project deliverables will include:

- Determination of the priority of the MPWWTPS's recommendations
- Development of a project plan
- Development of Specifications for the selection of a design consultant/construction management vendor
- Selection of the design/construction management consultant
- A design specification/bid package for the improvements with Maryland Department of the Environment permit
- The selection of a contractor to install improvements
- Completion of the work.

This project combined with and replaced CIP # 370601 WWTP Pump Station Upgrade.

### **JUSTIFICATION:**

These projects are recommended in the 2004 MPWWTP, WRA-Facilities Plan 2-2010 and required to meet conditions of MDE ENR (Enhanced Nutrient Removal) Program.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	815.922	815.922	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	9,057.221	9,057.221	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	20.000	20.000	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>9,893.143</b>	<b>9,893.143</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	197.421	197.421	-	-	-	-	-	-
DEBT ISSUE	9,680.228	9,680.228	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	15.494	15.494	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>9,893.143</b>	<b>9,893.143</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Gas House Pk. WWTP Expansion & Imp'ts.**  
Fund 602 - Water and Sewer CIP

**370008**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 370009**

**PROJECT NAME: Ballenger-McKinney Wastewater Plant Expansion**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

The scope of this project includes City funding of a proportionate share per the 1990 Monocacy Interceptor Sewer Capital Funding Agreement (MISCFA) with Frederick County for the design, easement acquisition and construction of County-owned wastewater treatment infrastructures defined below. This project will allow the County to provide the City with 3 MGD Maximum sewer capacity from the upgraded Ballenger-McKinney Wastewater Treatment Plant as is defined by the MISCFA. Total project cost is estimated at \$160M(\$41M MDE Grant + \$21M City + \$98M County).

Gas House Pike WWTP Equalization Basin Expansion: (Completed ~1995) This is anticipated to provide for flow through capacity of 6.5 MGD.

Collection System Mains Upgrade: (est. completion 2015) The various sized collection mains (4 phases) will begin at the Gas House Pike Plant Equalization Basin and tie to the Linganore Creek Main and eventually to the Ballenger Creek Plant. The mains will be sized appropriately for the increased flows that are contributed along the alignment. The County is managing this project, with technical input from the City.

Ballenger Creek WWTP Expansion and Potomac Outfall: (FY 2011-2018) This is anticipated to provide a capacity of ~3 MGD to the City. This capacity will be provided in a phased approach, which will be determined by the County.

**JUSTIFICATION:**

As outlined in the MISCFA, the City-owned Gas House Pike Treatment sewer capacity is not sufficient to meet the anticipated City growth. Partnering with the County on this project will be required under any growth scenario for the City.

The City's Gas House Pike Plant is currently undergoing analysis to determine if any expansion is feasible. The results of this analysis will determine how much wastewater capacity the City will need to obtain from the Ballenger-McKinney Plant.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	17,483.000	17,483.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>17,483.000</b>	<b>17,483.000</b>	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	17,186.895	17,186.895	-	-	-	-	-	-
SPECIAL ASSESSMENT	296.105	296.105	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>17,483.000</b>	<b>17,483.000</b>	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Ballenger-McKinney WWTP**  
Fund 602 - Water and Sewer CIP

**370009**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 370010**

**PROJECT NAME: Gas House Pike WWTP Solids Processing Rehab**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

Design and then construct improvements to the Solids Handling and Gas Recovery System. Utilize Green Technology to harvest methane and re-use energy for plant process. The project provides for the design and installation of the following:

- Primary Digester #1 cover replacement
- Secondary Digester conversion to Primary Digestion; making it Primary Digester #2
- Primary Digester #2 cover replacement
- Primary Digester #2 mixing system installation
- Primary Digester #2 solids recirculation pump and controls
- Primary Digester #2 heat exchanger installation
- New Digester feed controls
- New Co-generation system
- Study to determine feasibility of increasing methane production by addition of compostables

**JUSTIFICATION:**

The current Solids Handling System failed and increased the City's landfill cost.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	656.931	586.931	70.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	5,430.952	5,430.952	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>6,087.883</b>	<b>6,017.883</b>	<b>70.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	70.000	-	70.000	-	-	-	-	-
DEBT ISSUE	3,029.270	3,029.270	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	2,988.613	2,988.613	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>6,087.883</b>	<b>6,017.883</b>	<b>70.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	-	-	-	-	-	-

**Gas House Pike WWTP Solids Processing  
Rehab**

**370010**

Fund 602 - Water and Sewer CIP

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 370011**

**PROJECT NAME: Gas House Pike WWTP ENR Upgrade**

**PROJECT MANAGER: Deputy Director for Operations**

**SCOPE:**

The proposed project will upgrade the City of Frederick’s Gas House Pike WWTP to meet Enhanced Nutrient Removal (ENR) standards for nitrogen and phosphorus at the current rated plant capacity of 8.0 MGD in accordance with the effluent limits stated in State Discharge Permit 06-DP-0801A. The project includes the following major components:

- Fine Screen Facility Modifications
- Grit Removal Facility Modifications
- Bioreactor Modifications
- Bio-Augmentation Reactor Facility
- De-Nitrification Filters and Pump Station
- UV Disinfection Modifications
- Effluent Flow Meter Modifications
- Basin 4 Sewer Modifications
- SCADA Modifications
- Site Electrical
- Waste Sludge Thickening Systems Upgrade
- Influent Pump Station Facility Modifications
- Flow Equalization and Primary Clarifier Modifications
- Blower Modifications
- Chemical Facility Modifications
- Methanol Feed Facilities
- Post Aeration Modifications
- Diesel Generators
- Administration Building Modifications
- Site Civil Work
- Dewatering Systems Upgrade

Design of this project is currently underway with completion of approved plans and construction specifications ready for bid projected by spring of 2014. Construction of the improvements is anticipated to begin in the fall of 2014 with completion date by January 1, 2017 in order to meet ENR requirement mandates set by the EPA.

**JUSTIFICATION:**

This work is required for the Gas House Pike WWTP in order to meet compliance of Enhanced Nutrient Removal (ENR) mandates from EPA by January 1, 2017.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	9,473.620	9,473.620	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	47,368.100	47,368.100	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>56,841.720</b>	<b>56,841.720</b>	-	-	-	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	33,279.416	33,279.416	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	23,562.304	23,562.304	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>56,841.720</b>	<b>56,841.720</b>	-	-	-	-	-	-

<b>ESTIMATED OPERATING BUDGET IMPACT:</b>	<b>REVENUE</b>						
	<b>EXPENSE</b>						
	<b>NET</b>	-	-	-	-	-	-

**Gas House Pike WWTP - ENR Upgrade**  
**Fund 602 - Water and Sewer CIP**

**370011**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 370300**

**PROJECT NAME: Inflow and Infiltration Reduction**

**PROJECT MANAGER: Deputy Director for Operations**

### **SCOPE:**

The intent of this multi-year project is to provide deliverables (equipment, rehabilitation, repairs or new technology) that will reduce inflow and infiltration to The City of Frederick's Sanitary Sewer System.

FY15: Areas targeted for relining (listed in order of priority):

- Approximately 2000 LF of relining within: Amber Meadows (2 runs 750') Basin 3-1D, Rosemont Ave Area (3 runs 1300') Basin 2-45
- Approximately 1300 LF of relining within: Carrollton Ave Area (5 runs) Basin 2-24A
- The Monocacy Interceptor from the WTP south ~ 2,000.

FY16: Areas anticipated for study and making repairs to sewage collection system components:

- The Carroll Creek Interceptor from Bentz Street to the West ~ 10,000 linear feet to include the western branch draining the Hargett Farm Area

IMPORTANT: There may be a few isolated “hot-spots” that would require an immediate fix and are not identified at the printing of this manual. In addition, there are infrequent upgrades to software and new technologies that will need to be purchased from this project.

### **JUSTIFICATION:**

Sanitary sewer collection systems maintenance and operations best management practices require periodic improvements to the system to reduce inflow/infiltration of ground water that does not need to be processed through the wastewater treatment plant. This ongoing CIP project provides a funding source for new technology purchases and targets locations that are determined to contribute to the I/I problem.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	512.000	512.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	7,579.837	5,079.837	500.000	2,000.000	-	-	-	-
EQUIPMENT	465.000	465.000	-	-	-	-	-	-
MISCELLANEOUS	35.000	35.000	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>8,591.837</b>	<b>6,091.837</b>	<b>500.000</b>	<b>2,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	4,573.267	2,073.267	500.000	2,000.000	-	-	-	-
DEBT ISSUE	1,950.000	1,950.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	1,955.000	1,955.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	100.000	100.000	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	13.570	13.570	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>8,591.837</b>	<b>6,091.837</b>	<b>500.000</b>	<b>2,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Inflow and Infiltration Reduction**  
Fund 602 - Water and Sewer CIP

**370300**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380051**

**PROJECT NAME: FAA Part 77**

**PROJECT MANAGER: Airport Manager**

**SCOPE:**

The scope of this project is to acquire easements over 11 properties in the Tulip Hill Subdivision, and to trim/remove trees that penetrate the 34:1 approach surface for Runway 5, as identified in the 1999 Obstruction Removal Program. The Airport has procured the services of a property acquisition specialist to obtain easements from each of these 11 property owners to allow for removal of these trees. This project will be funded through the FAA and the MAA. To date, seven of eleven easements have been acquired.

**JUSTIFICATION:**

1999 Obstruction Removal Plan identified these properties as a penetration of the 34:1 approach surface of RW5.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	656.000	656.000	-	-	-	-	-	-
UTILITIES	200.000	200.000	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>856.000</b>	<b>856.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	12.000	12.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	813.000	813.000	-	-	-	-	-	-
STATE GRANT	20.000	20.000	-	-	-	-	-	-
COUNTY GRANT	11.000	11.000	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>856.000</b>	<b>856.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**FAA Part 77**  
Fund 307 - Airport CIP

**380051**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380054**

**PROJECT NAME: Airport Property Acquisitions**

**PROJECT MANAGER: Airport Manager**

**SCOPE:**

The scope of this project is to purchase the following properties to remove obstructions that are within the Runway 5 Object Free Area (ROFA) and/or the Runway

**5 Runway Protection Zone (RPZ):**

- Parcel A1, Gage, also known as Rexel Electric (formerly Commerce Electric), 2.0 acres of land and a structure that will be demolished in the future.
- Parcel A2, Bees property, known as United Products, 2.87 acres of land and a structure that will be demolished in the future.
- Parcel A3, Breen Commons, 2.26 acres of land and a structure that will be demolished in the future.
- Parcel A4, Great Eastern Concrete, 0.85 acres of land and a structure that will be demolished in the future.
- Parcel A5, Colonial Bus, also known as Heritage Management, 2 acres of land and a structure that will be demolished in the future.
- Parcel A39, Vershel (M&RR), 1.54 acres of land and a structure that will be demolished in the future.
- Parcel A38, Bartgis Property, 0.448 acres of land with no structures.

All properties under this CIP have been acquired. We are awaiting FAA reimbursement for Parcel A4.

**JUSTIFICATION:**

2001 Bailes Lane Re-Use plan identified these structures to be removed because they are located within the object free area and runway protection zone.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	17,114.000	17,114.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>17,114.000</b>	<b>17,114.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	1,263.000	1,263.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	15,250.000	15,250.000	-	-	-	-	-	-
STATE GRANT	401.000	401.000	-	-	-	-	-	-
COUNTY GRANT	200.000	200.000	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>17,114.000</b>	<b>17,114.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Airport Property Acquisitions**  
Fund 307 - Airport CIP

**380054**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 380062

**PROJECT NAME:** Property Acquisition - Bowman's Farm

**PROJECT MANAGER:** Airport Manager

**SCOPE:**

The Bowman Farm property acquisition plan is to secure approximately 34 acres of land for the future expansion of the airport. The property involved is lot 15 of the Frederick Airport Park, located at the north end of Bowman's Farm Road. Once the 34-acre tract is acquired, the Airport will be better positioned for future needed expansion in accordance with the 1999 Airport Master Plan for east side development over the next decade. An Environmental Assessment will be performed for the purchase of the property. Until an FAA reimbursement is obtained, the City will have to provide interim financing to purchase this property. When funding is available, the Airport will request reimbursement from the FAA for the purchase price of this property.

**JUSTIFICATION:**

This property acquisition allows for a place card for future development on the east side of the airport.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	5,550.000	5,550.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>5,550.000</b>	<b>5,550.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	71.000	71.000	-	-	-	-	-	-
DEBT ISSUE	275.875	275.875	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	4,995.000	4,995.000	-	-	-	-	-	-
STATE GRANT	138.750	138.750	-	-	-	-	-	-
COUNTY GRANT	69.375	69.375	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>5,550.000</b>	<b>5,550.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Property Acquisition - Bowman's Farm**  
Fund 307 - Airport CIP

**380062**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 380064

**PROJECT NAME:** Acquire Toms Property Easements

**PROJECT MANAGER:** Airport Manager

**SCOPE:**

The Tom's Farm Property is located in the approach path to Runway 23. The property currently has a multitude of controlling obstructions including trees, silos and buildings. The purpose of this scope is to acquire aviation easement on the 135 acres.

**JUSTIFICATION:**

The 2008 Master Plan calls for this acquisition in the interest of safety and capacity improvements.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	1,300.000	50.000	-	-	1,250.000	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,300.000</b>	<b>50.000</b>	<b>-</b>	<b>-</b>	<b>1,250.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	71.000	40.000	-	-	31.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	1,135.000	10.000	-	-	1,125.000	-	-	-
STATE GRANT	63.000	-	-	-	63.000	-	-	-
COUNTY GRANT	31.000	-	-	-	31.000	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,300.000</b>	<b>50.000</b>	<b>-</b>	<b>-</b>	<b>1,250.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Acquire Toms Property Easements**  
**Fund 307 - Airport CIP**

**380064**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 380067

**PROJECT NAME:** Bailes Lane Demolition and Site Work

**PROJECT MANAGER:** Airport Manager

**SCOPE:**

The scope of the first phase of this project is to prepare the construction drawings and documents for the demolition of structures on the below-listed properties along Bailes Lane that are within the Runway 5 Object Free Area (ROFA) and/or the Runway 5 Runway Protection Zone (RPZ), for site work to meet City and State grading and soil and erosion control guidelines, and to allow reuse of the properties for Airport use.

The scope of the second phase of this project is to demolish structures on the below-listed properties along Bailes Lane that are within the Runway 5 Object Free Area (ROFA) and/or the Runway 5 Runway Protection Zone (RPZ), and to perform site work to meet City and State grading and soil and erosion control guidelines, and to allow reuse of the properties for future airport development.

**JUSTIFICATION:**

2001 Bailes Lane Re-Use plan identified these structures to be removed because they are within the object free area and runway protection zone.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	835.200	835.200	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	500.000	500.000	-	-	-	-	-	-
CONSTRUCTION	12,033.000	33.000	2,000.000	2,000.000	2,000.000	2,000.000	2,000.000	2,000.000
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>13,368.200</b>	<b>1,368.200</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	318.228	18.228	50.000	50.000	50.000	50.000	50.000	50.000
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	12,098.290	1,298.290	1,800.000	1,800.000	1,800.000	1,800.000	1,800.000	1,800.000
STATE GRANT	634.454	34.454	100.000	100.000	100.000	100.000	100.000	100.000
COUNTY GRANT	317.228	17.228	50.000	50.000	50.000	50.000	50.000	50.000
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>13,368.200</b>	<b>1,368.200</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>2,000.000</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Bailes Lane Demolition and Site Work**  
**Fund 307 - Airport CIP**

**380067**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380068**

**PROJECT NAME: Acquire/Obstruction Removal - Waffle House**

**PROJECT MANAGER: Airport Manager**

**SCOPE:**

The scope of this project is to acquire the Waffle House Restaurant, Parcel A54, located at 1316 E. Patrick St. (0.44 acres) located within the future extension of the Runway 5 Runway Protection Zone (RPZ).

**JUSTIFICATION:**

To extend the runway and offer better services to the airport users, the FAA design requirements indicate that the RPZ must be extended across Patrick Street, thereby making the acquisition and subsequent demolition of the Waffle House necessary. This property was acquired in 2008 utilizing City funds. The City has provided interim financing to purchase this property until an FAA & MAA grant is obtained. When funding becomes available, the Airport will submit a request for reimbursement from the FAA & MAA for the purchase price of this property.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	1,200.000	1,200.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	75.000	75.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	1,125.000	1,125.000	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>2,400.000</b>	<b>2,400.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	31.000	31.000	-	-	-	-	-	-
DEBT ISSUE	119.000	119.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	2,160.000	2,160.000	-	-	-	-	-	-
STATE GRANT	60.000	60.000	-	-	-	-	-	-
COUNTY GRANT	30.000	30.000	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>2,400.000</b>	<b>2,400.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Acquire/Obstruction Removal Waffle House**  
**Fund 307 - Airport CIP**

**380068**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 380071

**PROJECT NAME:** Acquisition and Demolition of Tulip Hill Houses

**PROJECT MANAGER:** Airport Manager

**SCOPE:**

The scope of this project includes acquisition of two homes in Tulip Hill Subdivision, located at 6204 and 6206 Fairfax Court (ALP Parcels A40, A41). The properties are now owned by the City but currently awaiting FAA re-imbusement. The homes are located within the proposed extension of the Runway 5 Runway Protection Zone (RPZ) and must be demolished prior to the Runway 5, 23 and 30 extension projects.

**JUSTIFICATION:**

1999 Obstruction Removal Plan identified these properties as a penetration of the 34:1 approach surface of RW5.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	958.000	958.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	522.000	22.000	-	500.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	20.000	20.000	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,500.000</b>	<b>1,000.000</b>	<b>-</b>	<b>500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	26.500	14.000	-	12.500	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	1,400.000	950.000	-	450.000	-	-	-	-
STATE GRANT	50.000	25.000	-	25.000	-	-	-	-
COUNTY GRANT	23.500	11.000	-	12.500	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,500.000</b>	<b>1,000.000</b>	<b>-</b>	<b>500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Acquisition / Obstruction Removal - Tulip Hill**  
**Fund 307 - Airport CIP**

**380071**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 380073

**PROJECT NAME:** Equipment Storage Building

**PROJECT MANAGER:** Airport Manager

**SCOPE:**

Design and construct a 4,000 square foot equipment storage building to house the airports snow removal and mowing equipment.

**JUSTIFICATION:**

This is part of the airports stage one development plan and included in the 2008 Master Plan. All of the equipment and building is eligible for MAA and FAA reimbursement.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	180.000	30.000	-	150.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	900.000	-	-	-	900.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,080.000</b>	<b>30.000</b>	<b>-</b>	<b>150.000</b>	<b>900.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	270.000	7.500	-	37.500	225.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	810.000	22.500	-	112.500	675.000	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,080.000</b>	<b>30.000</b>	<b>-</b>	<b>150.000</b>	<b>900.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Equipment Storage Building**  
Fund 307 - Airport CIP

**380073**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 380077

**PROJECT NAME:** Air Traffic Control Tower and Associated Infrastructure Projects

**PROJECT MANAGER:** Airport Manager

**SCOPE:**

The scope of this project is to construct an Air Traffic Control Tower on Airport property, in accordance with FAA regulations. An all-weather, paved access road will be constructed to the site from existing City roadway system. Vehicle parking will be provided adjacent to the building on a paved lot.

**JUSTIFICATION:**

Increases safety, security and capacity.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	550.000	550.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	250.000	250.000	-	-	-	-	-	-
CONSTRUCTION	3,707.462	3,707.462	-	-	-	-	-	-
EQUIPMENT	325.000	325.000	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>4,832.462</b>	<b>4,832.462</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	4,832.462	4,832.462	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>4,832.462</b>	<b>4,832.462</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Air Traffic Control Tower and Associated Infrastructure Projects

**380077**

Fund 307 - Airport CIP

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 380086

**PROJECT NAME:** North County Easements

**PROJECT MANAGER:** Airport Manager

**SCOPE:**

The scope of this project includes acquisition of four aviation easements in Frederick County. The easements are located within the Runway 23 approach corridor.

**JUSTIFICATION:**

1999 Obstruction Removal Plan identified these properties as a penetration of the 34:1 approach surface of RW23.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	100.000	-	-	-	50.000	50.000		-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>100.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>50.000</b>	<b>50.000</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	2.500	-	-	-	1.250	1.250	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	90.000	-	-	-	45.000	45.000		-
STATE GRANT	5.000	-	-	-	2.500	2.500		-
COUNTY GRANT	2.500	-	-	-	1.250	1.250		-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>100.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>50.000</b>	<b>50.000</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>							
<b>EXPENSE</b>							
<b>NET</b>	-	-	-	-	-	-	-

**North County Easements**  
**Fund 307 - Airport CIP**

**380086**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 380087

**PROJECT NAME:** Maryland State Police Hangar and Training Facility

**PROJECT MANAGER:** Airport Manager

**SCOPE:**

Design and construct a new aircrew training facility for the Maryland State Police (MSP). The 10,000 square foot hangar and adjoining parking lot will accommodate the new MSP helicopter and flight simulator.

**JUSTIFICATION:**

The State chose this location as center to the region. The city anticipates a long-term market rate lease

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	300.000	(300.000)	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	-	300.000	(300.000)	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	300.000	(300.000)	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	-	300.000	(300.000)	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	0	0	0	0	0	0

**MSP Hangar & Training Facility**  
Fund 307 - Airport CIP

**380087**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380088**

**PROJECT NAME: Corporate Hangar – P4**

**PROJECT MANAGER: Airport Manager**

**SCOPE:**

Part of the stage one development plan for the airport. This 25,000 square foot hangar will be designed and the site development costs will be undertaken by the airport. The development of the actual hangar will be completed by a private entity.

**JUSTIFICATION:**

Corporate hangar development was a goal established by the Airport Commission during this year's preliminary budget assessments and financial planning efforts.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	300.000	-	300.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,000.000	-	-	3,000.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>3,300.000</b>	<b>-</b>	<b>300.000</b>	<b>3,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	300.000	-	300.000	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	3,000.000	-	-	3,000.000	-	-	-	-
<b>TOTAL REVENUES</b>	<b>3,300.000</b>	<b>-</b>	<b>300.000</b>	<b>3,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Corp Hangar P4**  
Fund 307 - Airport CIP

**380088**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380090**

**PROJECT NAME: Ramp Rehabilitation**

**PROJECT MANAGER: Airport Manager**

**SCOPE:**

Deconstruct, repair, rehabilitate and construct a fully rehabilitated new ramp from the FBO to the Flight Center.

**JUSTIFICATION:**

During the Master Plan Process, a Pavement Condition Index (PCI) was developed to assist the airport in planning for pavement rehabilitation over the next ten years. This undertaking assesses each section of pavement over the entire property and assigned a value to the pavement condition. The rule of thumb is that when the PCI falls below 80 a plan for rehabilitation should begin and when it falls below 60 construction should begin. The primary ramps to the east of the FBO, terminal building and Flight Center range anywhere from the best case of 70 to the worst case of 25. Therefore, it is justifiable to begin construction on the ramp rehabilitation.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	300.000	-	-	300.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,200.000	-	-	1,200.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>1,500.000</b>	-	-	<b>1,500.000</b>	-	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	1,500.000	-	-	1,500.000	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>1,500.000</b>	-	-	<b>1,500.000</b>	-	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Ramp Rehabilitation**  
**Fund 307 - Airport CIP**

**380090**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380408**

**CIP PROJECT: Site G Parking Garage – Deck 6**

**PROJECT MANAGER: Superintendent of Public Parking**

**SCOPE:**

The proposed project is to build Deck 6 in Fiscal Year 2016 with a total capacity of 650 to 1100 spaces on a portion of Site G. Site G is located within the area between S. Carroll St., E. South St., S. East St, and Commerce Street. This new deck will support the Tourism Council of Frederick County building, the Frederick County Board of Education (BOE) Central Office, the Frederick County Housing Authority Hope VI (36 apartment units), the State Government offices located at the Schaffer Building and significant private development projects in Downtown and East Frederick near the East Street extension to I-70.

The project will be built on existing property adjoining the proposed BOE Central Office. Currently, the BOE has decided not to contribute to the construction costs, but rent spaces at market rates, leasing approximately 250 spaces. The subdivision of Site G was completed in 2007 and all vacant buildings demolished. The preliminary cost estimate of the first phase is \$15.4 Million.

**JUSTIFICATION:**

This project is the second phase of a three-phase plan to accommodate downtown parking needs. This project is consistent with the Mayor and Board adopted parking plan which is documented in Final Report, Downtown Frederick Needs Assessment, Recommendations and Implementation Plan (Desman Associates, March 12, 2003), and the July 2001 Downtown Parking Plan. The project is also consistent with the adopted City Comprehensive Plan and the March 21, 2002 East Street Extension Phase I Area Plan.

Phase I included the construction of Parking Deck 4 near the Frederick County Courthouse to meet the immediate parking needs. Phase II was to include the construction of both Deck 5 (completed in 2010) and Deck 6 to provide parking to the East Street Corridor Growth Area and to re-distribute long term users of the structured parking garages. Phase III, the rehab/rebuild of the Church Parking Street Garage was completed in FY2013.

There are multiple private development projects that are planned in the area near Deck 5 and Deck 6 that require structured parking to support proposed high density development projects.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	1,365.000	1,135.000	230.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	15,500.000	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	15,500.000	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>16,865.000</b>	<b>1,135.000</b>	<b>230.000</b>	<b>15,500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	230.000	-	230.000	-	-	-	-	-
DEBT ISSUE	16,635.000	1,135.000	-	15,500.000	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>16,865.000</b>	<b>1,135.000</b>	<b>230.000</b>	<b>15,500.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE							-	-
EXPENSE							-	-
<b>NET</b>			-	-	-	-	-	-

**Site G Parking Deck**  
Fund 308 - Parking CIP

**380408**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380413**

**PROJECT NAME: Church Street Deck Rehab/Rebuild**

**PROJECT MANAGER: Superintendent of Public Parking**

**SCOPE:**

To perform repairs to the existing Church Street Garage that would provide a long term repair solution to restore the deteriorated slabs of the garage and provide an additional lifespan of 10-15 years to the garage. This is a two-phase project. The first phase consisted of repairs completed in 2002 in order to improve and extend the safe use of the deck to 2010. The second phase will consist of securing a repair contractor to develop a plan to complete the necessary repairs needed to add the additional lifespan to the garage.

**JUSTIFICATION:**

The Church Street Parking Garage is rapidly approaching the end of its' useful life in its current state. The useful life is limited by the amount of exposure and loading that concrete structures can endure before they fatigue and require extensive reconstruction. The Church Street Garage underwent repairs in FY 03 to extend its' lifespan five to ten years. The City realizes that the additional funds needed to redevelop the structure are not available at this time so it is in the best interest of the City and it's citizens to rehab and repair the garage in order to provide a long term solution and add another 10-15 years to the lifespan of the garage.

This project is the third phase of a three-phase plan to accommodate the downtown parking needs. Phase 1 was the construction of Parking Garage #4 (West Patrick Street Garage) near the County Courthouse to meet the immediate parking needs. Phase 2 was the construction of Parking Garage # 5 (East All Saints Street Garage), which have helped redistribute the long-term parker and provide some relief to the core parkers while the City executes Phase 3, which is the rehab/repair of the Church Street Parking Garage.

This project was generated via the study efforts published in Final Report; Downtown Frederick Needs Assessment, Recommendations and Implementation Plan (Desman Associates, March 12, 2003), and the Downtown Parking Plan of July 2001. Project is consistent with City Comp. Plan objective 6.17 and February 2001 Desman Condition Survey report. The Church Street Parking Deck Agreement, April 17, 2002, provides for the terms of the County's participation in this project.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	200.000	-	-	-	200.000	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	14,178.753	1,205.864	(527.111)	-	-	13,500.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>14,378.753</b>	<b>1,205.864</b>	<b>(527.111)</b>	<b>-</b>	<b>200.000</b>	<b>13,500.000</b>	<b>-</b>	<b>-</b>

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	14,103.201	875.000	(471.799)	-	200.000	13,500.000	-	-
DEBT ISSUE	105.864	105.864	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	169.688	225.000	(55.312)	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>14,378.753</b>	<b>1,205.864</b>	<b>(527.111)</b>	<b>-</b>	<b>200.000</b>	<b>13,500.000</b>	<b>-</b>	<b>-</b>

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>							
<b>EXPENSE</b>							
<b>NET</b>	-	-	-	-	-	-	-

**Church Street Deck - Rehab/Rebuild**  
**Fund 308 - Parking CIP**

**380413**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380414**

**PROJECT NAME: Court Street Deck Rehab**

**PROJECT MANAGER: Parking Superintendent**

**SCOPE:**

Repairs to the Court Street Deck include:

- Structural Repair Work, which includes 600 sq. ft. of removal and replacement of deteriorated concrete on vertical and horizontal surfaces, as well as repair and welding of approximately 350 shear connections, replacement of 5 concrete stair nosing's, stair tower door threshold repairs and clean and re-paint approximately 200 precast connections.
- Waterproofing, which includes 16,000 sq. ft. of traffic bearing waterproof membrane, 160,000 sq. ft. of penetrating sealer, and 33,400 sq. ft. of routing and sealing of joints, cracks and spandrels and capstones.
- Painting, which includes restriping of entire parking deck.

**JUSTIFICATION:**

The Court Street Garage was last repaired in 2003 and is due for repair of joints and re-coating of water proofing membrane system due to normal wear and tear and movement of garage. The deck will be repaired in phases in order to minimize service disruption to the deck customers. This entails sections of repairs being done before moving to other sections. These repairs will take place during the late summer/early fall of 2014.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	20.000	-	20.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	592.650	-	592.650	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	612.650	-	612.650	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	612.650	-	612.650	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	612.650	-	612.650	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	0	0	0	0	0	0

**Court Street Deck Rehab**  
Fund 308 - Parking CIP

**380414**

**THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 380415**

**PROJECT NAME: Parking Garage Gateway Mural**

**PROJECT MANAGER: Parking Superintendent**

**SCOPE:**

The gateway murals will be installed adjacent to the stairwells and the elevator bays on all floors of the Church Street Garage as our prototype for the other four parking garages. It is anticipated that this will be an impetus for grant funds to complete the other four garages. The gateway murals will include both historic and modern imagery as well as wayfinding information. The current design documents are attached for reference. The design phase currently is at 90% complete. The design process is funded separately from this request.

The project implementation process will include hiring a fabricator/installer, completing the construction documents, fabricating the gateway murals and installing the gateway murals. The City and the Downtown Frederick Partnership are planning to hold an unveiling event once the project is complete. Following the unveiling event, the Wayfinding Parking Gateway Murals will be used on a daily basis by the visiting public which includes thousands of people each week. The gateway murals will provide additional information to welcome and guide visitors, improving their visitor experience.

The maintenance of the gateway murals will become a part of the ongoing maintenance costs and responsibilities of the City's Parking Department. As a result, all entities have focused on design solutions which offer the greatest longevity and have the least likelihood of a need for frequent maintenance.

**JUSTIFICATION:**

On average, about 2,500 vehicles utilize the public parking garages in Downtown Frederick on any given weekend. When focused solely on weekend traffic, a significant percentage of those vehicles are filled with visitors to downtown. Assuming an average of two people per car, one weekend alone represents a missed opportunity to welcome 5,000 visitors to Downtown Frederick. On an annual basis, the parking garages represent an opportunity to welcome more than 260,000 people on the weekends alone. Implementation of the Wayfinding Parking Garage Gateway Mural project provides the mechanism to welcome Downtown Frederick visitors, enhance the visitor experience, increase the friendliness of the public parking system and provide additional information on the unique qualities of this Great American Main Street.

Funding of the Wayfinding Parking Garage Gateway Mural project will result in the implementation of a wayfinding and economic development effort that will positively impact the vitality and viability of Downtown Frederick. Once installed, the gateway murals will serve as "mini" visitor centers, welcoming people to Downtown Frederick at their primary point of arrival – the parking garage. Nearby public attractions will be highlighted in the graphics and wayfinding messages. In some cases, the pedestrian route to the attraction is not obvious and the gateway information will provide clear guidance to visitors. The gateways murals also will improve the visitor experience by providing the visual cues necessary to help patrons find their cars post-visit.

Finally, this project will implement the final major system component originally envisioned to be a part of the Catoctin Mountain Scenic Byway Gateway/Wayfinding Project. Funding of the project will result in the completion of a wayfinding system that represents a significant investment of State and City dollars and has been universally lauded within Frederick and beyond.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	125.000	-	125.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>125.000</b>	<b>-</b>	<b>125.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	75.000	-	75.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	50.000	-	50.000	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>125.000</b>	<b>-</b>	<b>125.000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Parking Garage Gateway Mural**  
Fund 308 - Parking CIP

**380415**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 350001**

**PROJECT NAME: South Street Storm Drain**

**PROJECT MANAGER: Deputy Director for Operations**

### **SCOPE:**

Provide a storm drain system capable of conveying a 10-year storm in a 433 acre drainage area bounded by South Wisner Street, a line extending south from Wisner Street to I-70, I-70, East South Street/Reich's Ford Road, Tilco Drive, Cambridge Drive and Fairfax Court in the Tulip Hill Subdivision, East Patrick Street, Davis Avenue, Harding Alley north of and parallel to East Patrick Street, the racetrack at the fairgrounds, Maryland Avenue, and by Sagner Avenue to its intersection with South Wisner Street.

A study and report shall be bid separately and shall address the following: Hydrologic analyses, area to be served by Stormwater Pumping Station No. 3, the feasibility of expanding Stormwater Pumping Station No. 3, the feasibility of catchments, the feasibility of pumping to the Monocacy River, easements required, Karst topography issues, wetland issues, construction phasing, hydraulic analyses, preliminary pipe and conduit sizes, preliminary pumping station requirements, permits required for each phase, cost of constructing each phase, long term operation and maintenance costs, a cost/benefit analysis, recommendations and a presentation of the final report to the Mayor and Board of Aldermen.

Deliverables associated with this project are:

- A study of the basin to include the above with options for design. (FY15)
- A design for the new drainage system or portions thereof . (FY16)
- Acquisition of required rights-of-way,
- Acquisition of required permits (Obtained as constructed)
- Construction of ~ 15,000 LF of storm drain varying in size from 78 to 12 inches in diameter and approximately 80 storm drain inlets.

It may be necessary to obtain permanent easements and construction easements from the Housing Authority of the City of Frederick and from Gene Romsburg Enterprises, Inc. at 33 Hamilton Avenue. This project must be done in conjunction with the water distribution system upsizes that are in the area to optimize road re-surfacing efforts.

### **JUSTIFICATION:**

This drainage basin has a series of disconnected local stormwater systems that inadequately drain the area and have caused no less than 12 problem areas that need to be corrected.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	146.000	146.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	4,580.865	580.865	-	2,000.000	2,000.000	-	-	-
EQUIPMENT	19.029	19.029	-	-	-	-	-	-
MISCELLANEOUS	1.000	1.000	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>4,746.894</b>	<b>746.894</b>	<b>-</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	385.000	385.000	-	-	-	-	-	-
DEBT ISSUE	4,361.894	361.894	-	2,000.000	2,000.000	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>4,746.894</b>	<b>746.894</b>	<b>-</b>	<b>2,000.000</b>	<b>2,000.000</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**South Street Storm Drain**  
Fund 309 - Storm Water CIP

**350001**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 350004**

**PROJECT NAME: Watershed Management Plan**

**PROJECT MANAGER: Director of Public Works**

**SCOPE:**

Develop a watershed management plan consistent with MDE guidelines to be approved by MDE for the management of the Rock Creek and Carroll Creek watersheds. This plan will analyze the existing conditions, establish watershed goals, identify areas of the watersheds in need of improvement, establish watershed improvement projects with cost estimates for completion, and develop a fee structure to be utilized by the City to insure those projects are funded as development occurs. This plan would provide guidance for the City to meet the requirements of the NPDES permit including retrofit requirements and would provide options for development projects to treat stormwater off site.

**JUSTIFICATION:**

A watershed management plan will be needed to meet TMDL and WIP requirements and to comply with the new NPDES Phase 2 permit. A watershed management plan will also allow for more flexibility for development and redevelopment in dense urban areas of the City by providing for off-site stormwater management options.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	500.000	500.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	500.000	500.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	500.000	500.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	500.000	500.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	0	0	0	0	0	0

**Watershed Management**  
Fund 309 - Storm Water CIP

**350004**

## **THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER:** 350005

**PROJECT NAME:** Culler Lake Silt Stormwater Management Upgrades

**PROJECT MANAGER:** Deputy Director for Operations

### **SCOPE:**

The intent of this project is for the City to fund the removal of silt and installation of stormwater management upgrades to Culler Lake. The 2014 estimate for the below work will be in the ~\$2.0 M range. The Lake acts as a sediment collection basin for the ~ 66 acre drainage basin (South and West of Hood College) and has not been desilted since 1984. There is approximately 5 feet of silt covering the entire lake bottom which needs to be removed to allow proper desiltation of storm waters and improve the habitat of the aquatic species. While the lake is drained, the upgrade components (gravel filters, embankment contours, and other minor improvements) will be installed. The approximate scope of work will include the following:

- Establish the method by which the upgrade components will be completed. Hire consultants where necessary for design/permitting. Coordinate the effort with the FOBP (Friends of Baker Park) Culler Lake Upgrade Project.
- Secure necessary permits.
- Hire a contractor to remove the silt, re-establish lake contouring, add gravel filters, stabilize the lake embankments and to stabilize/restore the disturbed site.

### **JUSTIFICATION:**

The Lake is a stormwater structure and needs to be de-silted periodically (every 5 to 8 years) so that it continues to work as designed. Routine maintenance has not been funded causing the deterioration of the effectiveness of the Lake as a storm water structure/habitat. Continuing with no maintenance will increase the volume of silts discharged into Carroll Creek reducing the effectiveness of the Flood Control Conduits. In addition, there are newly-designed habitat improvement components that are to be installed while the lake is drained.

**Expressed in Thousands**

<b>EXPENDITURES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
PLANNING/ENG.	200.000	200.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,303.500	1,000.000	1,303.500	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>2,503.500</b>	<b>1,200.000</b>	<b>1,303.500</b>	-	-	-	-	-

<b>REVENUES</b>	<b>TOTAL</b>	<b>TO-DATE</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
CITY OPERATING	1,200.000	1,200.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	1,260.000	-	1,260.000	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	43.500	-	43.500	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>2,503.500</b>	<b>1,200.000</b>	<b>1,303.500</b>	-	-	-	-	-

**ESTIMATED OPERATING BUDGET IMPACT:**

<b>REVENUE</b>						
<b>EXPENSE</b>						
<b>NET</b>	0	0	0	0	0	0

**Culler Lake Silt Removal**  
**Fund 309 - Storm Water CIP**

**350005**

**THE CITY OF FREDERICK, MARYLAND - CAPITAL IMPROVEMENTS PROGRAM FY 2015 - 2020**

**CIP NUMBER: 350020**

**PROJECT NAME: Carroll Creek Flood Control Project**

**PROJECT MANAGER: Deputy Director for Engineering**

**SCOPE:**

Construct an approximately 3,750 sq. ft. brick and block building, with public restrooms for Carroll Creek Park, on top of Pumping Station No. 3; remove electrical controls from the dry well below grade and reinstall inside the new building; install a backup level sensor that will provide continuous remote data on water levels in the pumping station wet well. Note that completion of the Gas House Pike levee previously included in this CIP is now part of the Monocacy Boulevard Central Section design and construction.

**JUSTIFICATION:**

Completion of the Carroll Creek Flood Control Project is intended to eliminate flooding in downtown Frederick caused by high flows on the Monocacy River. Raising the controls for Pump Station Number 3 above grade will significantly reduce the risk of pump station failure during flood events.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
PLANNING/ENG.	6,926.800	6,926.800	-	-	-	-	-	-
LAND/R.O.W.	6,478.000	6,478.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	42,263.205	42,263.205	-	-	-	-	-	-
EQUIPMENT	7.000	7.000	-	-	-	-	-	-
MISCELLANEOUS	230.000	230.000	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>55,905.005</b>	<b>55,905.005</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

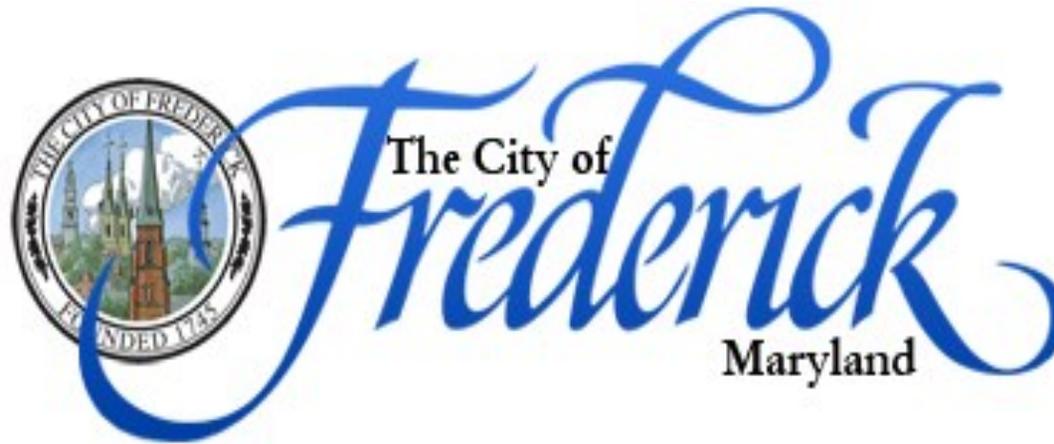
REVENUES	TOTAL	TO-DATE	FY15	FY16	FY17	FY18	FY19	FY20
CITY OPERATING	7,639.629	7,639.629	-	-	-	-	-	-
DEBT ISSUE	15,122.809	15,122.809	-	-	-	-	-	-
SPECIAL ASSESSMENT	383.000	383.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	508.731	508.731	-	-	-	-	-	-
STATE GRANT	20,065.200	20,065.200	-	-	-	-	-	-
COUNTY GRANT	12,128.000	12,128.000	-	-	-	-	-	-
OTHER	57.636	57.636	-	-	-	-	-	-
<b>TOTAL REVENUES</b>	<b>55,905.005</b>	<b>55,905.005</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
<b>NET</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Carroll Creek Flood Control Project**  
**Fund 309 - Storm Water CIP**

**350020**



**RANDY McCLEMENT, MAYOR**

**ALDERMEN**

**KELLY RUSSELL, *PRESIDENT PRO TEM***

**MICHAEL O'CONNOR**

**PHILIP DACEY**

**JOSHUA BOKEE**

**DONNA KUZEMCHAK**

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