

**MERRIAM**

*Just right.*

*Final*

**Capital  
Improvement  
Program**

**2017-2021**

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City of Merriam

Summary of 2017-2021 Capital Improvement Program

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## Introduction to the Capital Improvement Program

The Capital Improvement Program, in the City of Merriam, consists of street improvements, drainage improvements, park improvements and facility improvements. With capital improvement funds, various projects throughout the city are prioritized, designed and constructed. Examples of capital improvement projects include:

### Street Improvements

- Arterial Streets safety improvements
- Curb and gutter construction
- Storm Drain construction
- Residential street lighting
- Sidewalk construction
- Traffic signal installation and coordination
- Bridge Repair and Rehabilitation

### Drainage Improvements

- Bank stabilization
- Culverts
- Channel/Creek Improvements
- Flood mitigation projects
- Reconstruction/Rehabilitation of old storm drain systems

### Building Improvements

- Community Center Repairs
- Public works building/Facility
- Safety Facility/City Hall
- Visitor's Bureau

### Park Acquisition and Development

- Aquatic center improvements
- Land acquisition
- Parkland amenities
- Streamway Park trail construction
- Waterfall Park development

## Funding the Capital Improvement Program

There are multiple funding sources for the City's Capital Improvement Program. Merriam's share of the program costs are financed chiefly from sales tax collected within the city. Per City Council Policy No. 115, the City targets up to one-half city sales tax for funding the Capital Improvement Program.

For many years, the City has also used a special sales tax to fund various capital improvements. In August 2005, Merriam voters approved the renewal of the 1/4-cent sales tax from January 2006 to December 2010.

In January 2010, City voters approved a new 1/4-cent sales tax dedicated to stormwater drainage and street improvements. The tax was approved by mail-in ballot and will be collected from January 2011 through December 2020. The tax provides funding needed to complete the street reconstruction program as well as drainage improvement projects identified in the Northeast Johnson County Watershed Study. *Note: The current plan does not reflect a renewal of the 1/4-cent sales tax in 2021, but this will be considered prior to expiration of the existing sales tax.*

In recent years, the City of Merriam has received significant contributions toward project costs via intergovernmental funding. In many cases, projects can be undertaken only with the additional funding provided from these sources.

Outside sources of CIP funding include:

- CARS County Assisted Road System (Johnson County)
- SMAC Stormwater Management Advisory Council (Johnson County)
- KDOT Kansas Department of Transportation (State Fund)
- CDBG Community Development Block Grant (Federal Fund)
- STP Surface Transportation Program (Federal Fund)
- Other Federal Funds
- Private Investments (joint projects)

## **Developing a Capital Improvement Program**

The development process of Capital Improvement Program involves input from various groups within the City of Merriam. Following suggestions/requests from citizens, staff identifies and ranks the project based on the following criteria in their impacts.

- Property Value/Loss of Property
- Safety Concerns
- Outside source of funding
- Community-wide Benefit
- Staff priority

After review and consideration, staff recommends appropriate projects to City Council along with project impact and approximate cost of improvement. Council reviews the capital improvement program each spring as part of the City's budget process and provides guidance as to priorities.

## **City Council's Role in the Capital Improvement Program**

City Council is the decision making body of the City and approves all project budgets. The Capital Improvement Program is prioritized and authorized by the Council each year. Once a project is part of the five-year Capital Improvement Program, City Council approves various milestones during the project. These milestone approvals include:

- Selection of engineer or architect
- Review of concept studies and designs
- Approve designs and concurrence to bid
- Acceptance of construction bid
- Approval of change orders during construction
- Acceptance of certificate of completion

## Five Year Capital Improvement Program Highlights

The Capital Improvement Program Highlights summarize the facts, assumptions, and projections that were used to formulate the revenue-forecasting model. The 2017-2021 Capital Improvement Program (CIP) continues City efforts to upgrade and maintain City streets, improve stormwater/drainage infrastructure, and rehabilitate bridges.

### **Fund Balances**

- **2015 (Unaudited)** — Actual 2015 expenditures for capital improvement projects totaled \$6.2 million. CIP balances increased from \$13.1 million to \$18.2 million during 2015 due to several factors.
  - An unbudgeted transfer of \$1.5 million was made from the General Fund to the CIP, as approved by City Council in March 2016.
  - Restricted Tax Increment Financing (TIF) project fund balances grew by \$1.5 million due to declining TIF-related debt and contractual obligations plus an increase in TIF area property values.
  - Budgeted project fund contingencies of \$800k were largely unused due to adequate individual project budgets.
  - Several projects were below budget including Residential Street Group IV, Meyer Creek, and Small Drainage/Inventory which were completed for \$995k less than budgeted.
- **2016 (Projected)** – Projected CIP balances at December 31, 2016 are \$18.5 million after estimated expenditures of \$9.3 million. Estimated revenues including grant proceeds are \$9.9 million.
- **2017 (Projected)** — Projected CIP balances at December 31, 2017 are \$17.3 million including \$10.3 million restricted TIF funds. Estimated 2017 expenditures are \$11.3 million. Estimated 2017 revenues are \$10.7 million including \$4.4 million from General Fund sales tax transfers, \$2.0 million from the 1/4-cent City Sales Tax collections, and \$2.1 million from various federal and county grants.
- **Sales Tax Estimates** — Projections for the program depend heavily on the accuracy of sales tax estimates. Over the program period, projections range from 101% to 101.5% of actual 2015 sales taxes and related transfers. Sales taxes for 2015 were approximately 2% below prior estimates and the program estimates were reduced accordingly. The result is \$1.1 million reduction in sales tax revenues and related transfers over 5 years. Future collections will be reviewed closely to assess the need for changes to the program.
- **Individual Project Funds** — Capital Improvement funds are comprised of four separate categories, described below. Except for General Projects, restrictions apply to the use of project funds.
  1. **General CIP Projects** – Funding is specified by the City Council’s Capital Improvements Funding Policy (#116). The policy calls for target transfers of 50% of the available 1% City Sales Tax plus .25% of the City Use tax. There are no restrictions on the type or location of projects using these funds. To maintain adequate General Fund balances, significant, annual reductions to CIP transfers will be needed beginning in 2017. The current program contains transfer reductions (below target) of \$7.1 million, about \$1.45 million more than the prior program.
  2. **I-35 Redevelopment District Projects** – Revenue consists of property taxes from the tax increment generated by the I-35 Redevelopment District less contractual payments to developers. Eligible projects must be located within the boundaries of the I-35 Redevelopment TIF District. The City expects to complete obligations under TIF agreements with Baron, Homestead and Merriam Pointe LLC during this program period, resulting in larger balances. Projections indicate a fund balance of \$14.1 million by 2021 and staff is exploring additional options for use of these funds, including public and private projects associated with approved project development plans.
  3. **Merriam Town Center District Projects** – Although the District was formally closed as of February 1, 2016, a fund balance of \$2.5 million remains. Revenue consists of TIF increment generated by

the District and the annual “state guarantee payment”. Staff is reviewing eligible uses for these funds in conjunction with outside counsel, but no projects using these funds are programmed currently.

4. *Special Sales Tax Projects – Stormwater/Streets* – Merriam voters approved a 1/4-cent City Sales tax dedicated to stormwater drainage and street improvements, to be collected for ten years from January 2011 through December 2020. Revenues are supplemented with external grants whenever possible. Additionally, projects are supported by transfers from General Projects as needed. The current program projects an advance of \$1.3 million from General Projects in 2017 with a reimbursement in 2018. Renewal of the 1/4-cent City Sales tax is not reflected in this program period, but will be considered following condition studies on street and stormwater systems which are proposed for 2016/2017.

### ***Connection between the Bond Fund and the CIP Program***

Payment of principal and interest on the City’s general obligation (GO) bonds is made from the Bond Fund which is funded by its own mill levy (2.536 of the 27.676 mills for 2015) plus special assessment taxes on the Merriam Pointe project area (only through 2018). Historically, transfers from CIP Fund are necessary to fully fund debt service and maintain a steady mill levy for the Bond Fund.

The balance of the City’s outstanding GO bonds is dropping and will be just \$3.54 million by December 31, 2017. Likewise, the necessary CIP transfers to the Bond Fund are declining – transfers for the program period are a modest \$75,000 to \$375,000. This compares to CIP transfers exceeding \$2 million in recent years.

The current program **does not** incorporate new debt issuance and debt service, but staff recognizes that the major improvements under consideration for City facilities cannot be funded on a “pay-as-you-go” basis. Depending upon the amount bonded, additional debt service could range from \$675k to \$1.4 million annually and will require a shift in priorities for the CIP program.

### ***Project Summary***

The following project summaries are highlights of the 2017-2021 Capital Improvement Program and not an exhaustive list. The project summary highlights are organized by funding source and are in a similar order as the Expense Summary by Project schedule. Additional details can be found in the individual project summary sheets.

#### General Projects

- Brown Park Pavilion: This project was identified in the Park Master Plan but is programmed for construction in 2016. The project removes the existing tennis courts and builds a pavilion as a community gathering place in the park.
- Recreational Facilities Improvements - Structural, mechanical, and space studies have been conducted on two City facilities in recent months: Irene B. French Community Center and the Aquatic Center. Additionally, a recreational needs study is now underway. The programmed amount of \$4 million could be spent without the issuance of debt. Amounts spent in excess of \$4 million will require debt issuance.
- Police Department Facility Improvements – Space study was conducted on the Police Department building in recent months by Hoefer Wysocki Architecture. The primary objectives of the space needs study were:
  - Identify current space usage
  - Identify current space deficiencies
  - Identify future space requirements

- Identify solutions to fix, if any, current deficiencies
- Identify solutions in addressing future space requirements
- Identify lists of organizational needs and recommend optimizations of current space

The current estimate for design and construction is \$2.1 million. Design will begin in 2016 with construction following in 2017.

- Corrugated Metal Pipe Replacement (CMP) (Owen Heights Subdivision) – The CMP in this subdivision, ranges from 18 inches to 60 inches in diameter and was installed for storm water conveyance. The system is deteriorating, collapsing, well beyond its design life, and must be replaced. Engineering design and a replacement strategy developed this year.
- Residential Streetlight Program: The Council implemented this streetlight program to use available dollars as streets and neighborhoods are improved through the capital improvements program. The program also includes retrofitting new decorative lighting into the neighborhoods improved before the program was implemented. Program funding levels continue in the proposed 2017-2021 CIP Program.
- Upper Turkey Creek Feasibility Study/Construction: This is a long-term project that is rather complex and requires cooperation from multiple jurisdictions at the local, county, state and federal levels. The U. S. Army Corps of Engineers (USACE) began a feasibility study in 2002 to address flooding concerns in the Upper Turkey Creek basin. The draft feasibility study was completed in spring 2010. In October of 2011, USACE, City of Merriam and the consulting engineers hosted a public open meeting to discuss the feasibility study and get public feedback. Alternative Formulation Briefing meeting was held in January 2013 to receive comments from other Federal reviewing agencies and to finalize the report. In May 2015, the KC Regional Corps Engineers and City Staff presented the project to the Civil Works Review Board in Washington D.C. At this meeting, the project competed with other flood mitigation projects nationwide for funding. It was moved forward for Agency Review. The project construction is not anticipated to occur before 2019 and has an estimated cost of approximately \$37.5 million, with the local entities' share at approximately \$13 million. Merriam's potential share is approximately \$5 million plus approximately \$2 million in kind for easement acquisition.

#### Redevelopment District Projects

- W. Frontage Road Curb/Gutter Improvement: This project is delayed until it is associated with an approved project development plan. W. Frontage Road between the new Merriam Pointe auto dealers to south of 75<sup>th</sup> Street has curb/gutter only on the east side. Street run-off drains directly to the grassy area and down the slopes to the businesses below the street level. Staff proposes to install curb/gutter, sidewalk, drainage improvements and mill/overlay of pavement. Adjustments of existing decorative streetlights are part of the project. This corridor is substantially developed. The completion of the street will make this commercial corridor more attractive and safer for businesses.

#### Special Sales Tax Projects (Stormwater/Streets) - effective January 2011 thru December 2020

- Antioch Road Reconstruction - 67<sup>th</sup> St to Johnson Drive: Originally the project was proposed as an extension/continuation of the Antioch Park Creek project that was shelved indefinitely. The City was to upgrade the box culverts under Antioch Road. However, it was determined that the cost of the upgrade was significant with little public benefit. The scope of work now includes: mill and overlay, pavement markings, pedestrian traffic signal modification, install new streetlights, traffic signal system and replacement of curb/gutters/sidewalk/ADA ramps as required. Most of the street components of the project are CARS eligible. The construction is slated for 2016.
- Farley Avenue – 67<sup>th</sup> to 69<sup>th</sup> Street: Farley Avenue between 67<sup>th</sup> Street and 69<sup>th</sup> Street is currently a very narrow rural street section that does not meet current design standards. Following a 2011 feasibility study, Council preferred proceeding with a full street option with 24' wide street with curb/gutter and a sidewalk on one side. Additionally, a storm sewer system is planned to be

constructed to improve drainage concerns. The project was designed in 2015 with construction slated for 2016.

- Shawnee Mission Pkwy Bridge over BNSF Railroad: The bridge was constructed by KDOT in 1980s and was annexed to the City of Merriam in 1990s. The bridge has not had significant maintenance/repair since its construction. The scope of work includes: clean and replace bridge expansion joints, sandblast and paint metal components to prevent corrosion, and repair failed embankments. The project qualified for STP funding with construction in late 2016.
- Residential Street Group V: This project was previously identified as the “Residential In-fill Street Project”. Construction on individual streets will not be a viable project due economy of scale. Engineering is programmed to proceed in 2016 with construction starting in 2017 on the following three streets:
  - 51<sup>st</sup> Street Curb/Gutter In-fill Project Between Knox Ave and Switzer Road
  - Merriam Lane Improvement Between 61<sup>st</sup> Street to Merriam Drive
  - Campbell Street Improvement South of 60<sup>th</sup> Street

#### Un-programmed Projects

There are nine un-programmed projects in the 2017-2021 CIP. Many of these projects are drainage improvements as reported to staff by property owners. Most of these drainage projects do not have an outside source of funding. They may be funded in the future years as funds become available as Council sets the priorities.

There are two projects associated with Brown Park (Upper and Lower Section) that were programmed in the 2016-2020 CIP. However, due to budget constraints, these projects were moved back into the un-programmed list. There is one creek improvement project (Hocker Creek) that is eligible for SMAC funding. However, it seems to have substantial construction cost with very little public benefit of flood mitigation/taking homes out of floodplain. Any new creek improvements also incur additional on-going maintenance burden on Public Works as newly constructed creek/flood mitigation projects will need substantial maintenance/improvement in the next 30 years or so.

### Five Year Capital Improvement Fund Forecast

	Actual 2015	Budget 2016	Estimated 2016	Budget 2017	Budget 2018	Budget 2019	Budget 2020	Budget 2021
<b>REVENUES</b>								
	<i>unaudited</i>							
Beginning Balance	\$ 13,122,406	\$ 13,769,992	\$ 18,184,191	\$ 18,508,017	\$ 17,347,302	\$ 18,109,315	\$ 22,116,260	\$ 25,013,546
Interest	43,544	20,000	20,000	25,000	25,000	25,000	30,000	20,000
Transfer from General Fund-Sales Tax	5,331,919	3,969,305	3,887,505	3,944,212	2,601,770	2,460,191	2,119,489	2,079,677
Transfer from General Fund - Other	-	-	-	495,191	495,191	495,191	520,191	545,191
Transfer from I-35 TIF Fund	1,800,000	1,875,000	2,050,000	2,100,000	2,100,000	2,200,000	3,000,000	3,300,000
Transfer from MTC TIF Fund	739,589	297,381	590,194	-	-	-	-	-
1/4 cent sales tax- Stormwater/Streets	1,958,559	2,037,222	1,978,144	1,980,150	2,000,129	2,030,309	2,061,032	-
Miscellaneous	1,158	-	-	-	-	-	-	-
Intergovernmental Grant	1,862,170	1,824,797	1,344,570	2,117,180	534,419	495,947	-	-
<b>TOTAL REVENUES</b>	<b>\$ 24,859,345</b>	<b>\$ 23,793,697</b>	<b>\$ 28,054,604</b>	<b>\$ 29,169,749</b>	<b>\$ 25,103,811</b>	<b>\$ 25,815,954</b>	<b>\$ 29,846,972</b>	<b>\$ 30,958,414</b>
<b>EXPENDITURES</b>								
Transfer to Bond & Interest Fund	\$ 100,000	75,000	75,000	275,000	275,000	325,000	350,000	375,000
Transfer to General Fund	90,000	90,000	-	-	-	-	-	-
Reserve for Future Years	-	13,000,893	-	-	-	-	-	-
Project Administration	291,498	310,365	210,495	215,463	226,236	237,548	249,425	261,897
Capital Improvements Projects	6,193,656	10,317,439	9,261,093	11,331,984	6,493,260	3,137,146	4,234,000	8,569,750
<b>TOTAL EXPENDITURES</b>	<b>\$ 6,675,154</b>	<b>\$ 23,793,697</b>	<b>\$ 9,546,588</b>	<b>\$ 11,822,447</b>	<b>\$ 6,994,496</b>	<b>\$ 3,699,694</b>	<b>\$ 4,833,425</b>	<b>\$ 9,206,647</b>

**Capital Improvement Program - Five Year Plan  
Expense Summary by Project**

Project Name	Total Project Estimate	Expenditures Through 3/31/16	Remaining Anticipated Expenditures by Year					
			2016	2017	2018	2019	2020	2021
<b>General Projects</b>								
Antioch Rd Streetlights (54th Terr to Jo Dr)	316,046	-	316,046	-	-	-	-	-
Brown Park Pavilion	90,000	-	90,000	-	-	-	-	-
CDBG Streetlights 2016	135,280	-	135,280	-	-	-	-	-
CDBG Streetlights 2017	179,000	-	-	179,000	-	-	-	-
CIP/Public Works Information Integration/Asset Mgmt	105,000	89,476	15,524	-	-	-	-	-
Corrugated Metal Pipe Replacement (Owen Heights)	1,100,000	-	550,000	550,000	-	-	-	-
Fence Replacement - Streamway Trail	72,050	-	72,050	-	-	-	-	-
HAWK Signal - Jo Dr/Goodman	37,100	-	37,100	-	-	-	-	-
Overlay Supplement	5,051,159	2,651,159	400,000	400,000	400,000	400,000	400,000	400,000
Park Signage	100,000	-	50,000	50,000	-	-	-	-
Police Department Facility Improvements	2,100,000	-	150,000	1,950,000	-	-	-	-
Police Department Facility Study	40,000	-	40,000	-	-	-	-	-
Project Administration 2013+	2,175,366	834,194	150,603	215,463	226,236	237,548	249,425	261,897
Public Art	565,000	104,068	121,932	113,000	113,000	113,000	-	-
Recreational Facilities Improvements	4,000,000	-	-	1,000,000	3,000,000	-	-	-
Recreational Facilities Needs Assessment	150,000	-	150,000	-	-	-	-	-
Residential Streetlight Program	1,058,444	608,444	80,000	64,000	79,000	67,000	80,000	80,000
Sidewalk Infill Project (incl Mastin Imp)	1,840,000	-	35,000	680,000	575,000	550,000	-	-
Small Drainage Projects - Replacement/Rehabilitation	1,992,556	192,556	300,000	300,000	300,000	300,000	300,000	300,000
Storm Drain Inventory	400,000	-	200,000	200,000	-	-	-	-
Streamway Trail Ext (Brown Park)	200,000	-	-	200,000	-	-	-	-
Upper Turkey Creek Drainage Improvement	5,046,250	-	-	-	67,250	55,250	2,854,000	2,069,750
Waterfall Park Development	509,196	364,196	60,000	-	-	85,000	-	-
Wayside Horns	500,000	7,043	492,957	-	-	-	-	-
Transfer to 1/4 Cent Stormwater/Street Projects	-	-	-	1,100,000	(1,100,000)	-	-	-
Contingency	3,334,414	309,414	500,000	500,000	525,000	550,000	450,000	500,000
<b>Subtotal General Projects</b>	<b>\$ 31,096,860</b>	<b>\$ 5,160,548</b>	<b>3,946,493</b>	<b>7,501,463</b>	<b>4,185,486</b>	<b>2,357,798</b>	<b>4,333,425</b>	<b>3,611,647</b>
		<i>project fund balance</i>	<b>\$ 10,035,841</b>	<b>\$ 7,088,781</b>	<b>\$ 6,010,256</b>	<b>\$ 6,617,840</b>	<b>\$ 4,934,095</b>	<b>\$ 3,952,316</b>
<b>I-35 Redevelopment District Projects</b>								
67th Street/E. Frontage Intersection Improvements	2,500,000	-	-	-	-	-	-	2,500,000
W. Frontage Rd Curb/Gutter	1,220,000	-	-	-	-	-	-	1,220,000
Contingency	513,757	113,757	-	-	-	-	-	400,000
<b>Subtotal I-35 Redevelopment District Projects</b>	<b>\$ 4,233,757</b>	<b>\$ 113,757</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,120,000</b>
		<i>project fund balance</i>	<b>\$ 5,936,326</b>	<b>\$ 7,771,326</b>	<b>\$ 9,611,326</b>	<b>\$ 11,501,326</b>	<b>\$ 14,171,326</b>	<b>\$ 12,991,326</b>
<b>Special Sales Tax Projects - Streets/Stormwater</b>								
54th St/54th Terr Drainage Improvements (Remi Caenen)	200,000	-	-	200,000	-	-	-	-
67th/E. Frontage Rd Intersection Study	40,000	-	-	40,000	-	-	-	-
67th St Reconstruction (west limit to Antioch Rd)	1,107,068	-	-	-	90,172	1,016,896	-	-
Antioch Rd Overlay (67th to 75th St)	570,500	483,259	87,241	-	-	-	-	-
Antioch Rd Mill/Overlay/Curb/Gutter (47th St to 54th Ter)	517,500	-	-	517,500	-	-	-	-
Antioch Rd Reconstruction (67th to Jo Dr)	2,045,500	15,446	2,030,054	-	-	-	-	-
Antioch Rd Streetlights (67th to 75th )	165,532	165,532	-	-	-	-	-	-
Farley Ave (67th St to 69th St)	2,100,396	226,727	1,873,669	-	-	-	-	-
Ground Penetrating Radar Street Evaluation	90,000	-	45,000	45,000	-	-	-	-
Johnson Dr Reconstruction (Kessler Ln to west limit)	1,190,096	-	-	96,258	1,093,838	-	-	-
Meyer Creek Drainage	2,893,641	2,870,972	22,668	-	-	-	-	-
Residential Street Group V (formerly Residential Infill)	2,326,500	-	201,017	2,125,483	-	-	-	-
Shawnee Mission Pkwy Bridge over BNSF Rail	3,150,422	149,179	1,044,500	1,956,743	-	-	-	-
Shawnee Mission Br/Turkey Creek Bridge Study/Rehab	190,000	-	25,000	165,000	-	-	-	-
Stormwater Master Plan	250,000	-	-	-	250,000	-	-	-
West Vernon Place Drainage Improvement	1,250,000	-	-	-	-	-	150,000	1,100,000
Contingency	-	-	-	-	-	-	-	-
<b>Subtotal Special Sales Tax Projects - Streets/Stormwater</b>	<b>\$ 18,087,154</b>	<b>\$ 3,911,116</b>	<b>\$ 5,329,148</b>	<b>\$ 5,145,984</b>	<b>\$ 1,434,010</b>	<b>\$ 1,016,896</b>	<b>\$ 150,000</b>	<b>\$ 1,100,000</b>
		<i>project fund balance</i>	<b>\$ (936)</b>	<b>\$ (49,590)</b>	<b>\$ (49,052)</b>	<b>\$ 1,460,308</b>	<b>\$ 3,371,340</b>	<b>\$ 2,271,340</b>
Total All Projects	\$ 53,417,772	\$ 9,185,422	\$ 9,275,641	\$ 12,647,447	\$ 5,619,496	\$ 3,374,694	\$ 4,483,425	\$ 8,831,647
Less: Transfers Between Project Funds	-	-	-	1,100,000	(1,100,000)	-	-	-
<b>Total All Projects - Net of Transfers</b>	<b>\$ 53,417,772</b>	<b>\$ 9,185,422</b>	<b>\$ 9,275,641</b>	<b>\$ 11,547,447</b>	<b>\$ 6,719,496</b>	<b>\$ 3,374,694</b>	<b>\$ 4,483,425</b>	<b>\$ 8,831,647</b>

**Capital Improvement Program  
Revenue Summary By Project or Source**

Project or Source	Revenue Source	Actual		Projected Revenues by Year				
		Jan-Mar 2016	Apr-Dec 2016	2017	2018	2019	2020	2021
67th St Reconstruction (west limit to Antioch Rd)	CARS	-	-	-	-	495,947	-	-
Antioch Rd Mill/Overlay/Curb/Gutter (47th St to 54th	CARS	-	-	258,750	-	-	-	-
Antioch Rd Reconstruction (67th to Jo Dr)	CARS	-	878,000	-	-	-	-	-
CDBG Streetlights 2016	CDBG	-	100,000	-	-	-	-	-
CDBG Streetlights 2017	CDBG	-	-	100,000	-	-	-	-
Interest	Interest on Investments	-	20,000	25,000	25,000	25,000	30,000	20,000
Johnson Dr Reconstruction (Kessler Ln to west limit)	CARS	-	-	-	534,419	-	-	-
Shawnee Mission Pkwy Bridge over BNSF Rail	STP and CARS	-	366,570	1,758,430	-	-	-	-
Special Sales Tax Stormwater/Street	1/4 cent Sales Tax eff. 1/2011	-	1,978,144	1,980,150	2,000,129	2,030,309	2,061,032	-
Transfer from General Fund - Sales Taxes	Council Policy	587,595	3,299,909	3,944,212	2,601,770	2,460,191	2,119,489	2,079,677
Other Transfers from General Fund	Council Policy	-	-	495,191	495,191	495,191	520,191	545,191
Transfer from General Projects to Street/Stormwater	General Projects	-	-	1,100,000	(1,100,000)	-	-	-
Transfer from I-35 TIF Fund	Increment per KSA 12-1771	-	2,050,000	2,100,000	2,100,000	2,200,000	3,000,000	3,300,000
Transfer from Merriam Town Center TIF Fund	Increment per KSA 12-1771	590,194	-	-	-	-	-	-
<b>Total All Projects</b>		<b>\$ 1,177,789</b>	<b>\$ 8,692,623</b>	<b>\$ 11,761,733</b>	<b>\$ 6,656,509</b>	<b>\$ 7,706,638</b>	<b>\$ 7,730,712</b>	<b>\$ 5,944,868</b>
Less: Transfers Between Project Funds		-	-	1,100,000	(1,100,000)	-	-	-
<b>Total All Projects - Net of Transfers</b>		<b>\$ 1,177,789</b>	<b>\$ 8,692,623</b>	<b>\$ 10,661,733</b>	<b>\$ 7,756,509</b>	<b>\$ 7,706,638</b>	<b>\$ 7,730,712</b>	<b>\$ 5,944,868</b>

Abbreviations:  
BR/STP - Bridge/Surface Transportation Enhancement Program  
STP - Surface Transportation Enhancement Program  
CARS - County Assisted Road System  
CDBG - Community Development Block Grant  
KDOT - Kansas Department of Transportation  
SMAC - Stormwater Management Advisory Committee

# Project Listing

Page	Project	Description	Anticipated Construction Year
13	<b>General Projects</b>		
14	Antioch Rd Streetlights	Johnson Drive to 54th Ter	2016
15	Brown Park Pavilion	Brown Park	2016
16	CDBG Streetlights 2016	70 Ter, 71 St, 71 Ter, 72 St, 72 Ter, 73 St, Slater, C	2016
17	CDBG Streetlights 2017	W 69 St, W 70 St, W 70 Ter, Switzer Rd	2017
18	Corrugated Metal Pipe Rehab/Replacement (18'-60")	47th/Eby/Antioch (Owen Heights)	2016-2017
19	Fence Replacement	Streamway Trail	2016
20	HAWK Signal	Johnson Drive/Goodman	2016
21	Overlay Supplement	Various Locations	2016-2021
22	Park Signage	Various Locations	2016-2017
23	Police Department Facility	Police Department	2016-2017
24	Public Art	Various Locations	2016-2019
25	Recreational Facilities Improvements	Community Center, Aquatic Center	2017-2018
26	Residential Streetlight Program	City-wide	2016-2021
27	Sidewalk Program	City-wide / Sidewalk In-Fill	2017-2019
28	Small Drainage Projects	Various Pipes Replacement/Rehabilitation	2016-2021
29	Storm Drain Inventory	City-wide asset management	2016-2017
30	Streamway Trail Ext (Brown Park)	Merriam Dr. to Brown Park/Brown Park to Knox	2017
31	Upper Turkey Creek Improvement	Entire Channel Through Merriam	2018-2021
33	Waterfall Park Development	Park Improvements	2016-2019
34	Wayside Horns	3 Locations	2016
35	<b>I-35 Redevelopment District Project</b>		
36	67 <sup>th</sup> Street/I-35/ E. Frontage Road Improvement	67th St/I-35/E. Frontage Rd.	2021
37	W. Frontage Road Curb/Gutter Improvement	Turkey Creek Dr (Merriam Pointe) to 75th St	2021
38	<b>Special Sales Tax Projects - Stormwater/Streets</b>		
39	W. 54 <sup>th</sup> St., W. 54 <sup>th</sup> Ter. & Switzer Rd Drainage Improvement	Remi Caenen Subdivision	2017
40	67th Street Reconstruction/Improvement	From West City Limits to Antioch Road	2018-2019
41	Antioch Road Mill/Overlay/Curb/Gutter Repair	From 47 <sup>th</sup> Street to 54 <sup>th</sup> Terrace	2017
42	Antioch Rd Reconstruction	West 67th St to Johnson Dr	2016
43	Farley Avenue Reconstruction	67th Street to 69th Street	2016
44	Ground Penetrating Radar Street Evaluation	City-Wide	2016-2017
45	Johnson Drive Reconstruction	Kessler Ln to West Limit	2017-2018
46	Meyer Creek Improvement	Switzer Road to Farley Ave	2016
47	Residential Street Group V (formerly Residential In-Fill)	Unimproved Streets Throughout the City	2016-2017
48	Shawnee Mission Pkwy Bridge over BNSF Railroad	Bridge Rehabilitation	2016-2017
49	Shawnee Mission Pkwy Bridge over Turkey Creek	Bridge Rehabilitation	2017
50	City of Merriam Stormwater Master Plan (SWMP)	City-Wide	2018
51	West Vernon Place Drainage Improvement	West Vernon Place Subdivision	2020-2021

# GENERAL PROJECTS

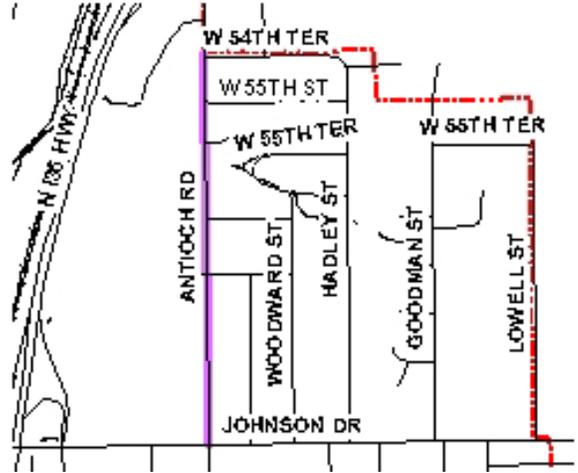


# Antioch Road Streetlights

## Johnson Dr. to 54<sup>th</sup> Terrace



Antioch Road Streetlights



### Project Information

<b>Project #:</b>	GT1602
<b>Design:</b>	N/A
<b>Construction Year:</b>	2016
<b>Project Status:</b>	Preliminary
<b>Project Manager:</b>	Public Works Director
<b>Funding Source:</b>	General CIP
<b>Contractor:</b>	TBD

### Project Description

The Public Works Department continues to convert KCP&L street lights over to city owned and maintained lighting systems. Staff proposes to install streetlight metering device for streetlights north of Johnson Drive. The meter will separate the electric usage and pay for actual electric use instead of flat fee as determined by KCP&L. The metering will allow City of Merriam to maintain the streetlights, which will save in contract services to maintain the streetlights.

### Project Costs

ESTIMATED COST	<b>2016</b>
	\$316,046

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Brown Park Pavilion



## Project Information

**Project #:** GM1601  
**Construction Year:** 2016  
**Project Status:** Preliminary  
**Project Manager:** Parks Director  
**Funding Source:** General CIP  
**Contractor:** TBD

## Project Description

This project is being contemplated to update and enhance Brown Park as identified in the Park Master Plan. Various improvements have occurred such as the replacement of the playground in 2014 that have rejuvenated the park and increased annual attendance. The plan is to remove the dilapidated tennis courts and build a pavilion much like the one constructed at Vavra Park in 2008 to provide a permanent gathering place for visitors and neighbors. The Pavilion can be reserved similar to the rental schedule of other City owned pavilions.

## Project Costs

	<u>2016</u>
PAVILION	\$81,000
CONTINGENCY	\$ 9,000
<b>TOTAL PROJECT COST:</b>	<b>\$90,000</b>

## Impact on Operating Budget

Impact to operating budget is undetermined at this time. The operating costs will be estimated after park scope and amenities are determined and planned.

# Community Development Block Grant 2016 (CDBG)

Street Lights – 70th Ter, 71st St, 71st Ter, 72nd St, 72nd Ter, 73<sup>rd</sup> St, Slater, Grandview



## Project Information

**Project #:** GD1601  
**Construction Year:** 2016  
**Project Status:** Preliminary  
**Project Manager:** Public Works Director  
**Funding Source:** CDBG / General CIP  
**Contractor:** Public Works

## Project Description

Community Development Block Grant (CDBG) is a Federal Grant reserved for use only in the approved CDBG area for economically disadvantaged neighborhoods. The grant will supplement the City's streetlight program.

## Project Costs

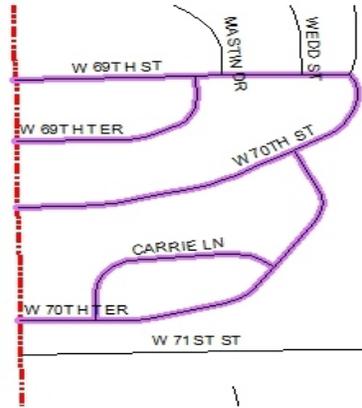
	<b><u>2016</u></b>
TOTAL PROJECT COST	\$135,280
CDBG GRANT	-\$100,000
<b>CITY OF MERRIAM SHARE</b>	<b>\$35,280</b>

## Impact on Operating Budget

The new decorative streetlights will be metered and maintained by the City's Public Works Department. The streetlights currently in place are not metered, and are maintained through a service contract with an outside provider. The Public Works Department will experience increased costs as more and more City maintained lights are installed. The City expects to offset much of this additional cost by gradually reducing the number of lights serviced contractually as well as the increased efficiency of the metered lights over non-metered lights.

# Community Development Block Grant 2017 (CDBG)

Street Lights – W. 69<sup>th</sup> St., W. 70<sup>th</sup> St., W. 70<sup>th</sup> Ter., & Switzer Rd.



## Project Information

**Project #:** TBD  
**Construction Year:** 2017  
**Project Status:** Preliminary  
**Project Manager:** Public Works Director  
**Funding Source:** CDBG / General CIP  
**Contractor:** Public Works

## Project Description

Community Development Block Grant (CDBG) is a Federal Grant reserved for use only in the approved CDBG area for economically disadvantaged neighborhoods. The grant will supplement the City's streetlight program.

## Project Costs

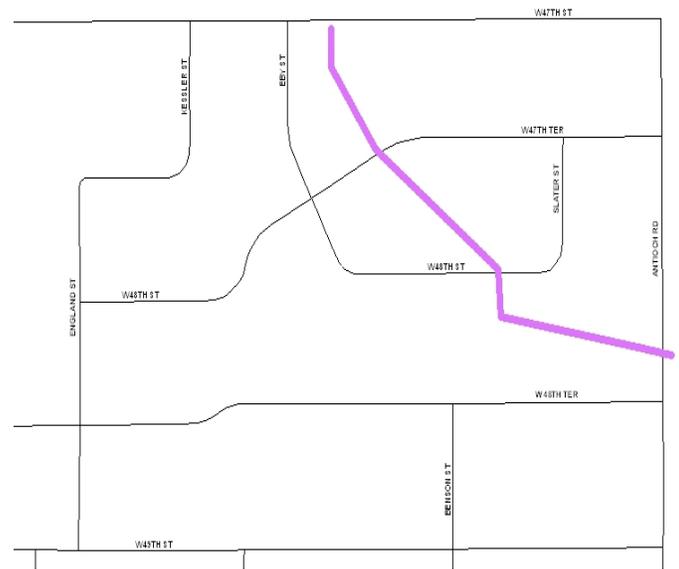
	<u>2017</u>
TOTAL PROJECT COST	\$179,000
CDBG GRANT	-\$100,000
<b>CITY OF MERRIAM SHARE</b>	<b>\$79,000</b>

## Impact on Operating Budget

The new decorative streetlights will be metered and maintained by the City's Public Works Department. The streetlights currently in place are not metered, and are maintained through a service contract with an outside provider. The Public Works Department will experience increased costs as more and more City maintained lights are installed. The City expects to offset much of this additional cost by gradually reducing the number of lights serviced contractually as well as the increased efficiency of the metered lights over non-metered lights.

# Corrugated Metal Pipe Rehab/Replacement (18" - 60")

## Owen Heights Subdivision



From Video Inspection (8-24-10)

### Project Information

**Project #:** GM1602  
**Construction Year:** 2016-2017  
**Project Status:** Design  
**Project Engineer:** BHC Rhodes  
**Funding Source:** General CIP  
**Contractor:** TBD

### Project Description

An aging storm drain system runs from Eby Street/47<sup>th</sup> Street to Antioch Road. The pipe size varies from 18" CMP to 42" CMP to 60" CMP south of 48<sup>th</sup> Street. Many sections of the pipes are beyond their design lives and structural integrity of the pipes is compromised. A portion of 60" CMP collapsed and repaired by Public Works in Spring 2010. Another section has failed and separated from the system on 48<sup>th</sup> Street. Staff recently accepted a proposal for video. Approximate cost of trenchless technology = \$450/lf x 1600lf = \$720,000.

### Project Costs

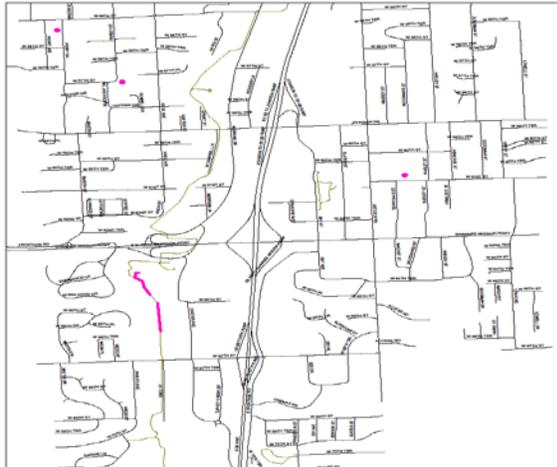
### Expenditures by Year:

	<u>2016/2017</u>
PRELIMINARY COST EST.	\$720,000
REPAIR FAILED SECTIONS	\$100,000
CONTINGENCY	\$280,000
<b>TOTAL PROJECT COST:</b>	<b>\$1,100,000</b>

### Impact on Operating Budget

The project will produce savings for Public Works by eliminating constant maintenance and point repairs to the storm drain line.

# Fence Replacement – Streamway Trail



## **Project Information**

**Project #:** GM1603  
**Construction Year:** 2016  
**Project Status:** Construction  
**Project Manager:** Public Works Director  
**Funding Source:** General CIP  
**Contractor:** Public Works

## **Project Description**

Replace existing 1,655 linear feet of aging privacy fencing along Streamway Trail from 75<sup>th</sup> Street north to Chatlain Park with new treated lumber fencing. Vinyl fencing is more apt to crack and become damaged involving more tedious repairs. Repairs need to be made on 1,700 linear feet of damaged chain link fencing at various locations along drainage easements.

## **Project Costs**

### **2016**

TRAIL CONSTRUCTION	\$40,000
DRAINAGE EASEMENT	\$25,500
CONTINGENCY	\$ 6,550
<b>TOTAL PROJECT COST:</b>	<b>\$72,050</b>

## **Impact on Operating Budget**

Currently the funds spent to repair the aging fences come out of the Public Works general operating budget.

# Installation of HAWK Signal

Johnson Dr. at Goodman St.



## Project Information

**Project #:** NEW  
**Construction Year:** 2015/2016  
**Project Status:** Construction  
**Project Manager:** Public Works Director  
**Funding Source:** General CIP  
**Contractor:** Public Works

## Project Description

Remove existing pedestrian crossing and install HAWK signal on Johnson Drive at Goodman St.

## Project Costs

	<u>2016</u>
KCP&L BUY OUT	\$3,000
CONSTRUCTION	\$31,000
CONTINGENCY	\$3,100
<b>TOTAL PROJECT COST:</b>	<b>\$37,100</b>

## Impact on Operating Budget

The improvement is not expected to have a significant effect on the operating budget.

# Overlay Supplement

## Various Locations

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Residential Street (spring, 2011)

### Project Information

**Project #:** GM0303  
**Construction Year:** Multi-Year  
**Project Status:** Ongoing  
**Project Engineer:** City Engineer  
**Funding Source:** General CIP  
**Contractor:** Various

### Project Description

The City has committed its share of Special Highway Fund revenues (state tax on motorized vehicle fuel) to the annual overlay/curb replacement program. To provide for adequate street maintenance, Staff recommends an additional supplement of \$400,000 through 2021. Currently, the City of Merriam receives approximately \$290,000 annually in gas taxes. State budget shortfalls continue to place Special Highway Fund revenues in jeopardy. If State funding continues to reduce, it may become necessary to provide for even larger supplements if we wish to maintain the overlay program. Staff also recommends that the some streets are beyond its design life, thus mill/overlay will be ineffective in prolonging structural life of the street. Council should consider reconstruction of the street instead of mill/overlay.

### Project Costs

### Expenditures by Year:

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
TOTAL COST	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Park Signage



## Project Information

**Project #:** GM1607  
**Construction Year:** 2016/2017  
**Project Status:** Design  
**Project Manager:** Parks Director  
**Funding Source:** General CIP  
**Contractor:** TBD

## Project Description

The existing park signage at our various parks is approaching forty years old and they are showing their age. There are broken posts, fading colors, and the old City logo. Staff plans to establish a branding concept with new signs that connect City facilities possibly using the design elements from the new monument sign at City Hall.

## Project Costs

	<u>2016</u>	<u>2017</u>	<u>Total</u>
CONSTRUCTION	\$45,000	\$45,000	\$90,000
CONTINGENCY	\$5,000	\$5,000	\$10,000
<b>TOTAL PROJECT COST:</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$100,000</b>

## Impact on Operating Budget

The sign updates will have no impact on the annual operating budget.

# Police Department Facility Improvements



## Project Information

**Project #:** TBD  
**Development Year:** 2016-2017  
**Project Status:** Preliminary Studies  
**Project Manager:** Department Director  
**Funding Source:** General CIP  
**Contractor:** TBD

## Project Description

Space study was conducted on the Police Department building in recent months. The current estimate for design and construction is \$2.1 million.

<b>Facility</b>	<b>Study/Evaluation</b>	<b>Date</b>
Police Department	Facility Space Study	March 2016

## Project Costs

	<u>2016</u>	<u>2017</u>	<u>Total</u>
ENGINEERING	\$150,000		
CONSTRUCTION		\$1,950,000	
			\$2,100,000

## Impact on Operating Budget

Operating budget could be reduced due to energy efficient items that will be added including LED lighting and natural gas heating.

# Public Art

## Various Locations in the City



Bears at Visitors Bureau



"Still Time" at Johnson Dr. & Merriam Dr.

### Project Information

**Project #:** GM1504  
**Construction Year:** 2015-2019  
**Project Status:** Preliminary  
**Project Manager:** City Administrator and City Council Ad-hoc Arts Committee  
**Funding Source:** General CIP  
**Contractor:** Various

### Project Description

As part of Council goals and objectives, the Council wishes to beautify and give positive image for City of Merriam. An ad-hoc committee was formed by staff and members of the Council to review what should be included as part of image branding for the City of Merriam.

### Project Costs

	<b>2016/Prior</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>Total</b>
TOTAL COST:	\$226,000	\$113,000	\$113,000	\$113,000	\$565,000

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Recreational Facilities Improvements



## Project Information

**Project #:** TBD  
**Development Year:** 2017-2018  
**Project Status:** Preliminary Studies  
**Project Manager:** Department Director  
**Funding Source:** General CIP, Debt Issuance  
**Contractor:** TBD

## Project Description

Structural, mechanical, and space studies have been conducted on two City facilities in recent months: Irene B. French Community Center and Merriam Aquatic Center. Additionally, a recreational needs study/master plan is now underway that will include public participation and an objective analysis of programs and facilities the City could reasonably sustain. The programmed amount of \$4 million could be spent without the issuance of debt. Amounts spent in excess of \$4 million will require debt issuance.

Facility	Study/Evaluation	Date
Merriam Aquatic Center	Facility Evaluation	May 2014
IBF Community Center	Assessment & Feasibility Study	May 2015
Parks/Rec Facilities	Parks/Rec Facility Master Plan	Beginning May 2016

## Project Costs

	<u>2017</u>	<u>2018</u>	<u>Total</u>
ENGINEERING CONSTRUCTION	\$1,000,000	\$3,000,000	\$4,000,000

## Impact on Operating Budget

Any budget impact will depend on the type, size, and operational expectations of the facilities. Staff anticipates that improvements will reduce operating expenditures and increase revenues as the building is updated and modernized.

# Residential Streetlight Program



Residential Street light on Goodman north of Johnson Drive

## Project Information

**Project #:** GM0403  
**Construction Year:** 2015 - 2021  
**Project Status:** Ongoing  
**Project Manager:** Public Works Director  
**Funding Source:** General CIP  
**Contractor:** Generally Public Works

## Project Description

City Council instituted a residential streetlight program to begin installation of standard residential streetlights with all of the upcoming residential street projects. In addition, City Council directed staff to infill street lights in previously improved residential areas. This project dedicates available dollars each year to add new lighting to existing residential neighborhoods in addition to lighting that will be installed as streets are converted from rural to urban sections. The new systems are installed and maintained by Public Works crews.

## Project Costs

	<b>Expenditures by Year:</b>					
	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
TOTAL PROJECT COST:	\$80,000	\$64,000	\$79,000	\$67,000	\$80,000	\$80,000

## Impact on Operating Budget

The new decorative streetlights will be metered and maintained by the City's Public Works department. The streetlights currently in place are not metered, and are maintained through a service contract with an outside provider. The Public Works department will experience increased costs as more and more City-maintained lights are installed. The City expects to offset much of this additional cost by gradually reducing the number of lights serviced contractually, as well as the increased efficiency of the metered lights over non-metered lights.

# Sidewalk Program

## City Wide – Sidewalk In-Fill



### Project Information

**Project #:** NEW  
**Construction Year:** 2017-2019  
**Project Status:** Preliminary  
**Project Engineer:** GBA  
**Funding Source:** General CIP  
**Contractor:** Public Works

### Project Description

Fill in approximately 27,053 linear feet of sidewalk in areas that either have no sidewalk or have partial sidewalks that need to be connected. It is proposed to break this project into three phases so that it can be properly managed and constructed with lower impact on the residents.

<u>Project Costs</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Total</u>
ENGINEERING	\$35,000	\$115,000			\$150,000
CONSTRUCTION		\$500,000	\$500,000	\$500,000	1,500,000
LEGAL		\$5,000			\$5,000
EASEMENT / ROW ACQUISITION		\$10,000			\$10,000
CONTINGENCY		\$50,000	\$75,000	\$50,000	\$175,000
<b>TOTAL PROJECT COST:</b>	<b>\$35,000</b>	<b>\$680,000</b>	<b>\$575,000</b>	<b>\$550,000</b>	<b>\$1,840,000</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on operating budget.

# Small Drainage Projects

## Various Pipes Replacement/Rehabilitation

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Small storm drain outlet

### **Project Information**

<b>Project #:</b>	GM1103
<b>Construction Year:</b>	Ongoing
<b>Project Status:</b>	Varies
<b>Project Engineer:</b>	City Engineer
<b>Funding Source:</b>	General CIP
<b>Contractor:</b>	Public Works for spot repairs

### **Project Description**

City of Merriam has aging drainage infrastructures including Corrugated Metal Pipes (CMP) and Reinforced Concrete Pipe (RCP) that are either at risk of failure or undersized. Each year, the City Engineer and the Public Works Director are notified of failures that require emergency repairs. Many CMP pipes that are more than 15 years old are at risk for failure. In order to be more effective with limited available funding, the City Engineer proposes to utilize emerging technology in pipe installation if possible. Various trenchless technologies are available and have been widely used throughout North America. Such trenchless pipe installation technologies include Cured-In-Place-Pipe (CIPP), thermo-formed Ultra-Liner and Pipe Bursting, which all utilize existing pipe cavity and line the pipe instead of trenching across street sections. The cost of these technologies is becoming very competitive and in many cases can be more economical due to savings in logistics and cost of traffic control over busy streets and reconstruction of street over the trench. Another benefit to the trenchless technology is the significant reduction in risk of liability and safety in trenching adjacent to homes and yards. If trenchless technology is not feasible, the City Engineer and Public Works Director collaborate to find best option including in-house work with the Public Works crews.

### **Project Costs**

	<b><u>2016-2021</u></b>
CONSTRUCTION	\$300,000/Year

### **Impact on Operating Budget**

This project is not expected to have a significant effect on the operating budget.

# Storm Drain Inventory

## City-Wide Asset Management/Inventory

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Video Inspection photo of storm drain

### Project Information

**Project #:** GM1303  
**Construction Year:** 2015/2017  
**Project Status:** Preliminary  
**Project Manager:** City Engineer/Public Works Director  
**Funding Source:** General CIP  
**Contractor:** TBD

### Project Description

In 2013, Lucity Software was selected to assist City of Merriam Public Works Department to begin assessing City's aging infrastructure. As the Lucity software gets operational, staff proposes to begin video inspection of storm drain pipes in a systematic manner beginning with the oldest neighborhoods. This information will be stored in Lucity to assist in assessing and prioritizing most urgent pipe replacement projects.

### Project Costs

#### **Expenditures by Year:**

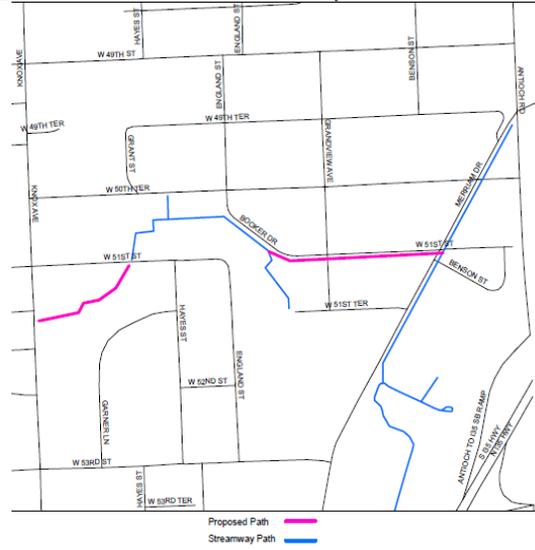
	<u>2016</u>	<u>2017</u>	<u>Total</u>
PROJECT COST:	\$200,000	\$200,000	\$400,000

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Streamway Trail Extension

## Merriam Dr. to Brown Park and Brown Park to Knox Ave. (Brown Park)



### Project Information

**Project #:** NEW  
**Construction Year:** 2017  
**Project Status:** Preliminary  
**Project Engineer:** N/A  
**Funding Source:** General CIP  
**Contractor:** Public Works

### Project Description

Turkey Creek Streamway Trail is identified in the MetroGreen Program in Mid America Regional Council's (MARC) effort to connect trail and non-motorized form of recreation and means of transportation in the metropolitan areas surrounding the Kansas Cities. A six party Turkey Creek Coalition was formed to support the cooperative efforts to extend this trail system into surrounding participating cities which include Merriam, Overland Park, Kansas City, Ks, Mission, and Roeland Park. Currently the project was submitted to MARC's Transportation Outlook 2040 for review and planning. Our current proposal is to extend the trail as shown on the map. This Project cost estimate includes a pedestrian activated traffic signal for the Merriam Dr. crosswalk. One of the links starts at Merriam Dr. via 51<sup>st</sup> St. to Brown Park; the other starts at Brown Park and extends southwest along the creek to Knox Ave. City of Overland Park has completed the design for connecting the trail on the south side of I-35 and east of Antioch Rd.

### Project Costs

	<b>2017</b>
SURVEYING/ENGINEERING	\$10,000
CONSTRUCTION	\$125,000
HAWK SIGNAL	\$31,000
EASEMENT/ROW ACQUISITION	\$10,000
LEGAL	\$5,000
CONTINGENCY	\$19,000
<b>TOTAL PROJECT COST:</b>	<b>\$200,000</b>

### Impact on Operating Budget

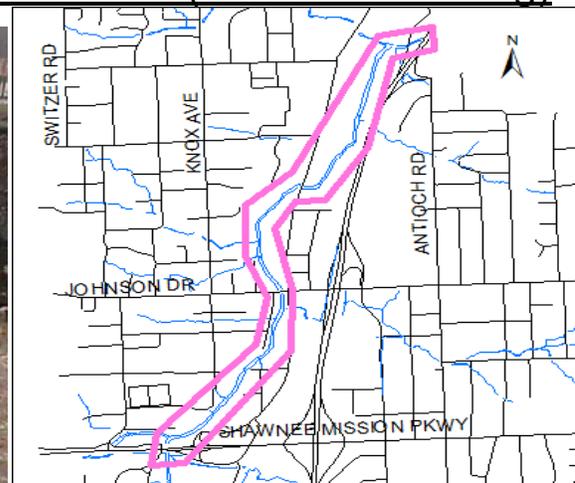
This project is not expected to have a significant effect on the operating budget. Anticipated annual increase in maintenance cost: Minimal.

# Upper Turkey Creek Improvement

## From Shawnee Mission Pkwy to Waterfall Park (Railroad Crossing)



Turkey Creek



### **Project Information**

<b>Project #:</b>	GM0204
<b>Construction Year:</b>	Unknown (2018 or 2019)
<b>Project Status:</b>	Preliminary Engineering Phase
<b>Project Engineer:</b>	US Army Corp of Engineers (Lead agency)
<b>Funding Source:</b>	Federal/General CIP/SMAC Funding
<b>Contractor:</b>	TBD

### **Project Description**

In May of 2002, the City entered into an agreement with the USACE to assist in funding of the Feasibility Phase Study in an effort to define flood mitigation options. In January 2013, USACE hosted an Alternative Formulation Briefing with the Federal Agencies as a final step to finalize the Feasibility Study Report. In February 2013, the USACE requested the City to sign a non-binding Letter of Intent and financial certification in support for the project. In May 2015, the KC Regional Corps Engineers and City Staff presented the project to the Civil Works Review Board in Washington D.C. At this meeting, the project competed with other flood mitigation projects nationwide for funding. It was moved forward for Agency Review. It is anticipated that final engineering will take additional two years after study/preliminary engineering phase. Staff received verbal support for funding from SMAC/JOCO for construction when the project is ready to move forward. The easement acquisition that is subject to Federal Uniform Act (for property acquisition for construction) is not a SMAC eligible expense.

In spring, 2013, National Oceanic Atmospheric Administration (NOAA) released a new rainfall study for the Midwest region identified as Atlas 14. The USACE received comments from other Federal reviewing authority to address the higher rainfall rate in the Feasibility Study. This may affect the latest cost estimates.

Next page is the best estimate budget at this time subject to changes. It is hoped that following the upcoming Civil Works Review Board in May that a more distinct project schedule with a definitive budget is developed.

### **Impact on Operating Budget**

This project is not expected to have a significant effect on the operating budget. Merriam Drainage District has maintenance jurisdiction along Turkey Creek and its banks.

# Upper Turkey Creek Improvement\*\*

## From Shawnee Mission Pkwy to Waterfall Park (Railroad Crossing) Final Engineering and Construction Expenditures by Year

	Total
<b><u>Cost Category</u></b>	
Engineering	\$ 3,066,000
Easement Acquisition	4,854,000
Utility Relocations	5,268,000
Construction	22,565,000
Construction Engineering/Other	1,826,000
Project Total	<u>\$ 37,579,000</u>

### **Federal vs. Local Cost Apportionment**

Federal Share	\$ 24,426,000
Local Share	13,153,000
Total	<u>\$ 37,579,000</u>

### **Local Share Funding Source**

Johnson County Stormwater Mgmt	\$ 6,106,750
In Kind Contributions (Easements)	2,000,000
City of Merriam	5,046,250
	<u>\$ 13,153,000</u>

\*\*Estimated costs represent the best available information as of April 20, 2015. Staff is awaiting further information from the US Army Corps of Engineers as to construction schedule. The current CIP plan includes \$4,297,000 of Merriam net costs.

# Waterfall Park Development

## Park Improvements



Waterfall Park Playfield



### Project Information

**Project #:** GM0411  
**Design Year:** Multi-year  
**Construction Year:** 2009-19  
**Project Status:** On-going  
**Project Engineer:** Public Works  
**Funding Source:** General CIP  
**Contractor:** Public Works

### Project Description

Waterfall Park was graded and seeded in 2009 for recreational play field. The play field is currently in use and rented for fee to recreational soccer by elementary school age children. Currently, Public Works waters the field by hooking up their water truck manually to the fire hydrant, which requires a crew and a water truck for several hours a day. For an irrigation system, WaterOne requires a water meter assembly. Public Works will also expand the parking lot.

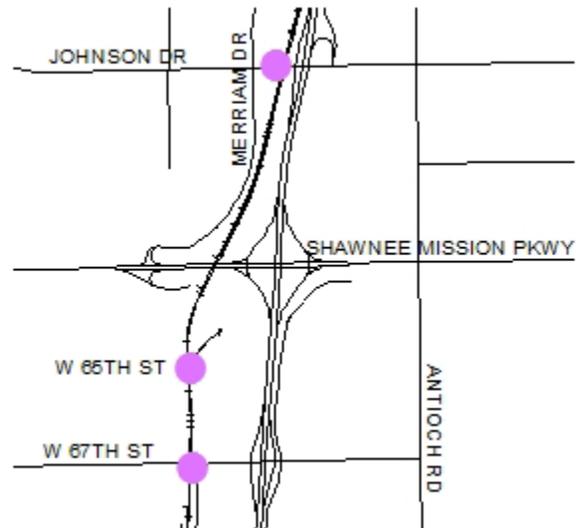
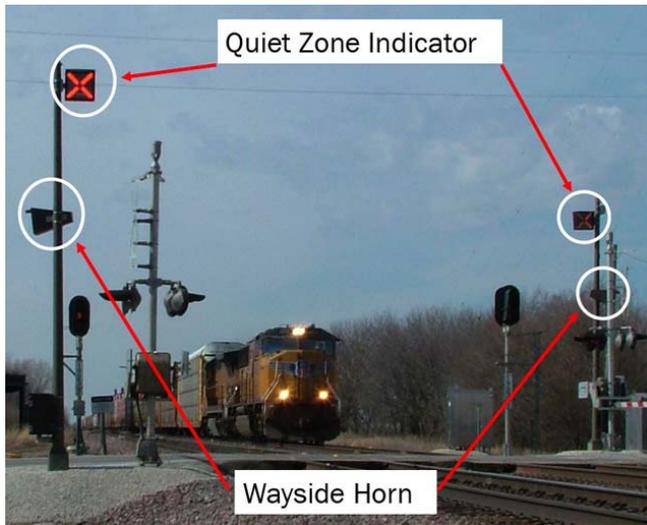
### Project Costs

	<u>2015/Prior</u>	<u>Expenditures per Year:</u>		
		<u>2016</u>	<u>2019</u>	<u>Total</u>
VARIOUS IMPROVEMENTS/	\$364,196			\$364,196
PARKING LOT EXPANSION		\$60,000		\$60,000
PAVILION			\$85,000	\$85,000
<b>TOTAL PROJECT COST:</b>	<b>\$364,196</b>	<b>\$60,000</b>	<b>\$85,000</b>	<b>\$509,196</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget. The water bill and the cost of port-a-potty rental will be in the Parks and Recreation budget.

# Wayside Horns



## Project Information

<b>Project #:</b>	GT1601
<b>Construction Year:</b>	2016
<b>Project Status:</b>	Design
<b>Project Manager:</b>	Public Works Director
<b>Funding Source:</b>	General CIP
<b>Contractor:</b>	CTC, Inc.

## Project Description

Wayside horn systems are considered a one for one replacement for train horns at roadway-railway grade crossings. These systems work independently from quiet zone classification and provide noise abatement in the grade-crossing area, reducing train horn noise by as much as 70 percent.

A Wayside Horn System mounts at a highway-rail grade crossing, and, when a train approaches, produces a digitized train horn sound in the standard crossing warning pattern. Since the sound is directed toward the roadway, noise is significantly lessened along the train's approach path.

## Project Costs

**2016**

CONSTRUCTION \$500,000

**TOTAL PROJECT COST: \$500,000**

## Impact on Operating Budget

Impact to operating budget is undetermined at this time. While not significant, the maintenance costs of the signal systems will be added to the roadway traffic signal budget.

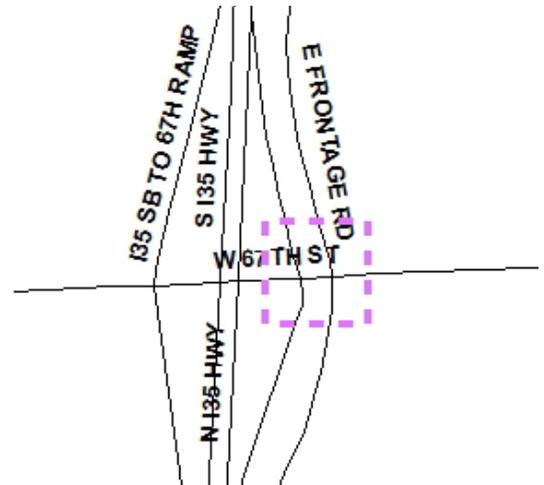
# I-35 Redevelopment District Projects



# 67<sup>th</sup> Street/I-35/ E. Frontage Road Improvement



Street & E. Frontage Rd.



## Project Information

**Project #:** TBD  
**Construction Year:** 2021  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Contractor:** TBD  
**Funding Source** I-35 TIF

## Project Description

This intersection has been functionally deficient for years as a result of the confluence of the I-35 on and off ramps and East Frontage Road in a confined area. The signalization at various parts of the intersection is confusing with no right turn configuration for safety reasons. Confusion also occurs for drivers traveling east on 67<sup>th</sup> Street and turning north on either the I-35 on ramp or north on East Frontage Road. Additionally, semi-truck traffic heading north on the I-35 off ramp and wanting to drive south on East Frontage Road, have difficulty navigating the confined area and often jump the curb on the west side of East Frontage Road. A round-a-bout may be one of many possible fixes. A traffic study is proposed in 2017 (using Special Sales Tax funds) to determine the appropriate improvement. The actual solution can be constructed as the CIP budget allows.

## Project Costs

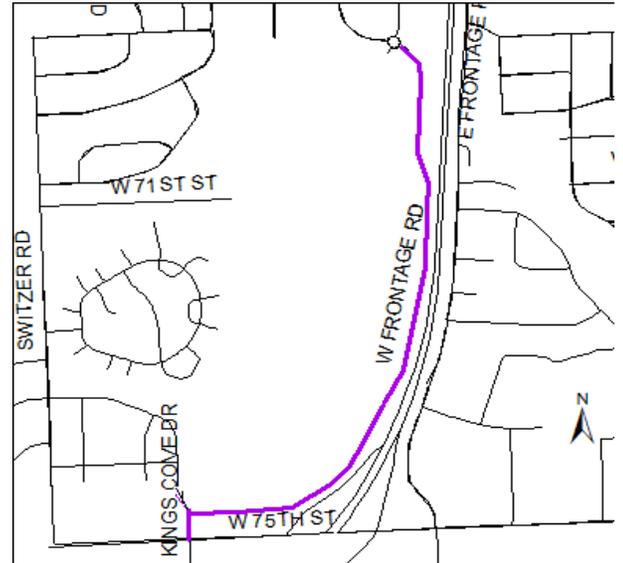
	<u>2017</u>	<u>2021</u>
Preliminary Engineering Study (Special Sales Tax)	\$40,000	
Construction		\$2,500,000

## Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# W. Frontage Road Curb/Gutter Improvement

## From Turkey Creek Drive (Merriam Pointe) to 75<sup>th</sup> Street



W. Frontage Road

### Project Information

<b>Project #:</b>	TBD
<b>Design Year:</b>	2021
<b>Construction Year:</b>	2021
<b>Project Status:</b>	Preliminary
<b>Project Engineer:</b>	TBD
<b>Funding Source:</b>	I-35 TIF
<b>Contractor:</b>	TBD

### Project Description

W. Frontage Road between the new Merriam Pointe auto dealerships to south of 75<sup>th</sup> Street has curb/gutter only on the east side. Street run-off drains directly to the grassy area and down the slopes to the businesses below the street level. Staff proposes to install curb/gutter, sidewalk, drainage improvements and mill/overlay of pavement. Existing decorative street lights need adjustments as part of the project.

### Project Costs

	<b>2021</b>
ENGINEERING	\$100,000
EASEMENT	\$10,000
LEGAL	\$10,000
CONSTRUCTION	\$1,000,000
CONTINGENCY	\$100,000
<b>TOTAL PROJECT COST:</b>	<b>\$1,220,000</b>

### Impact on Operating Budget

The improvement is not expected to have a significant effect on operating budget.

# SPECIAL SALES TAX PROJECTS



# W. 54<sup>th</sup> St., W. 54<sup>th</sup> Ter. & Switzer Rd. Drainage Improvement Remi Caenen Subdivision

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Drainage Path on backyards



## Project Information

**Project #:** NEW  
**Construction Year:** 2017  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Contractor:** TBD

## Project Description

The subdivision was developed in phases without any drainage improvement on the street. The properties receive drainage water from the development from the north. Only one property on 10209 W. 54<sup>th</sup> Terrace has a recorded surface drainage easement. Downstream properties have no recorded easements. Drainage meanders through multiple properties until it is captured in a private drainage improvement that outlets to City storm system on 55<sup>th</sup> Street. Streets and some of the lower lying properties may experience flooding.

## Project Costs

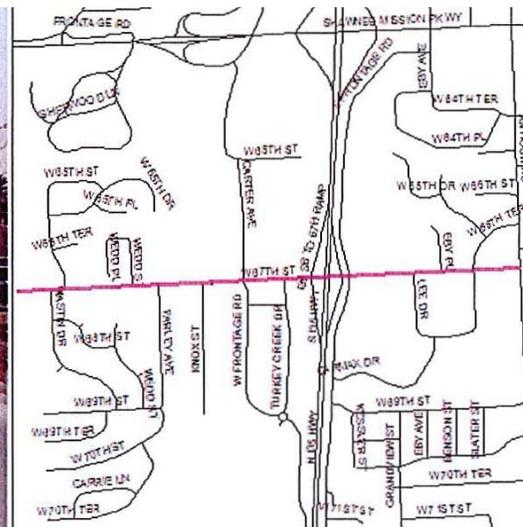
	<b><u>2017</u></b>
PRELIMINARY COST EST.	\$200,000
<b>TOTAL PROJECT COST:</b>	<b>\$200,000</b>

## Impact on Operating Budget

To be determined after design.

# 67th Street Reconstruction/Improvement

## From West City Limits to Antioch Road



### Project Information

<b>Project #:</b>	NEW
<b>Design:</b>	2018
<b>Construction Year:</b>	2019
<b>Project Status:</b>	Design
<b>Project Engineer:</b>	TBD
<b>Funding Source:</b>	CARS/Special Street Tax
<b>Contractor:</b>	TBD

### Project Description

The project entails West 67<sup>th</sup> Street between West City Limits to Antioch Road. The scope of work includes removal of concrete cap around Antioch Road area, a 2-inch mill/overlay, new pavement markings, install new streetlights, new traffic signal system and replacement of curb/gutters/sidewalk/ADA ramps as required. The City of Merriam plans to submit CARS application to Johnson County to request funding.

### Project Costs

	<u>2018/2019</u>
ENGINEER	\$90,172
CONSTRUCTION	\$536,212
SIDEWALK REPLACEMENT	\$172,500
STREET LIGHTS	\$193,012
ROW/EASEMENT	\$15,000
LEGAL	\$10,000
CONSTRUCTION ENGINEERING	\$90,172
TOTAL PROJECT COST	\$1,107,068
CARS ELIGIBLE FUNDING (50%)*	-\$495,947
<b>TOTAL MERRIAM COST:</b>	<b>\$611,121</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Antioch Road Mill/Overlay/Curb/Gutter Repair

## From 47<sup>th</sup> Street to 54<sup>th</sup> Terrace (Joint Project with City of Overland Park)



Antioch Road



### Project Information

<b>Project #:</b>	NEW
<b>Design year:</b>	2017
<b>Construction Year:</b>	2017
<b>Project Status:</b>	Design by City of Overland Park
<b>Project Engineer:</b>	Joint Project with City of Overland Park (Lead)
<b>Funding Source:</b>	CARS/Special Sales Tax
<b>Contractor:</b>	TBD

### Project Description

The centerline of Antioch Street is the border between Merriam and Overland Park. The City of Merriam and the City of Overland Park will collaborate in improving Antioch Road from 47<sup>th</sup> Street to 54<sup>th</sup> Terrace. Antioch Road is a Functionally Classified Street (i.e. major arterial) by Johnson County thus eligible for County Assisted Roadway System (CARS) funding. If selected for CARS funding, 50% of the construction costs will be reimbursable. City of Overland Park and City of Merriam plan to submit joint CARS application to Johnson County to request funding. The general scope of work includes replacement of curb/gutter and median and mill/overlay. Several CMP pipe crossings and catch basins that are beyond design life will be replaced.

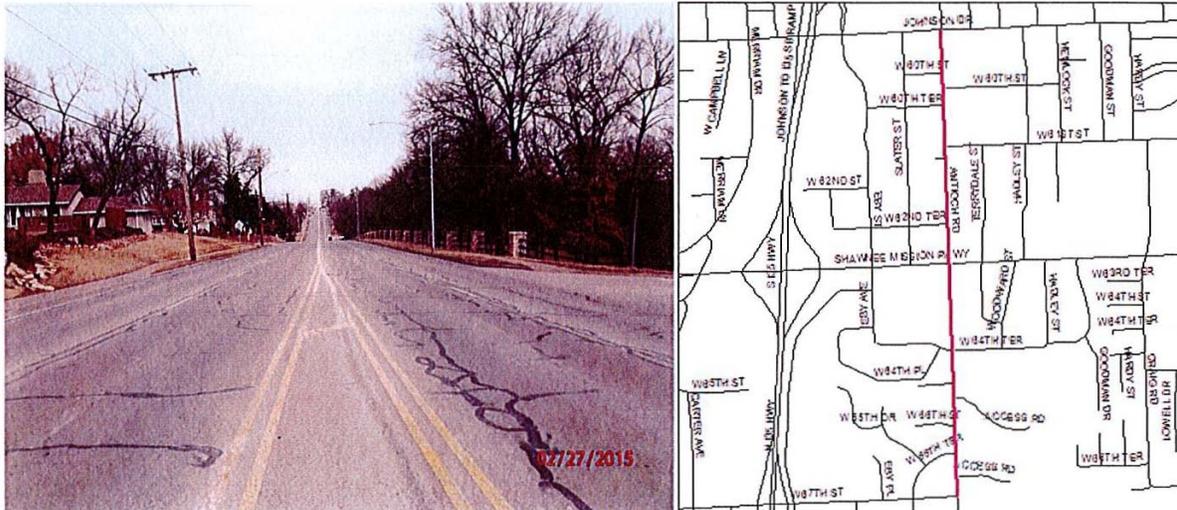
<b><u>Project Cost</u></b>	<b>2017</b>
ENGINEERING	\$15,000
CONSTRUCTION	\$912,506
SIDEWALK REPAIR	\$42,389
CONSTRUCTION ENGINEERING	\$50,105
LEGAL	\$5,000
EASEMENT/ROW ACQUISITION	\$10,000
<b>TOTAL PROJECT COST:</b>	<b>\$1,035,000</b>
CITY OF OVERLAND PARK SHARE	-\$517,500
CITY OF MERRIAM COST	\$517,500
MERRIAM SHARE OF CARS FUNDING*(50% of 50%)	-\$258,750
<b>Net cost to Merriam</b>	<b>\$258,750</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Antioch Road Reconstruction/Improvement

## From West 67<sup>th</sup> Street to Johnson Drive



### Project Information

**Project #:** GC1601  
**Design:** 2016  
**Construction Year:** 2016  
**Project Status:** Design  
**Project Engineer:** BHC Rhodes  
**Funding Source:** CARS/Special Sales Tax  
**Contractor:** J M. Fahey

### Project Description

The project entails Antioch Road between West 67<sup>th</sup> Street to Johnson Drive. The scope of work includes total reconstruction of a drainage structure, 2-inch mill/overlay, pavement markings, pedestrian traffic signal modification, install new streetlights, traffic signal system and replacement of curb/gutters/sidewalk/ADA ramps as required. The City of Merriam plans to submit CARS application to Johnson County to request funding.

### Project Costs

	<u>2016</u>
ENGINEERING	\$135,000
CONSTRUCTION	\$1,790,000
SIDEWALK REPLACEMENT (included in construction)	
STREET LIGHTS (included in construction)	
HAWK PEDESTRIAN SIGNAL (included in construction)	
CONSTRUCTION ENGINEERING	\$20,000
LEGAL	\$5,000
UTILITY RELOCATION COSTS	\$5,000
CONTINGENCY	\$90,500
<b>TOTAL PROJECT COST</b>	<b>\$2,045,500</b>
<b>CARS ELIGIBLE FUNDING</b>	<b>-\$878,000</b>
<b>TOTAL MERRIAM COST:</b>	<b>\$1,167,500</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Farley Avenue Reconstruction

## W. 67<sup>th</sup> Street to W. 69<sup>th</sup> Street



Farley Avenue looking south



### Project Information

<b>Project #:</b>	GM1601
<b>Design Year:</b>	2015
<b>Construction Year:</b>	2016
<b>Project Status:</b>	Construction
<b>Project Engineer:</b>	BHC Rhodes
<b>Funding Source:</b>	Special Sales Tax
<b>Contractor:</b>	Pyramid Contractors

### Project Description

A Feasibility Study was completed and three options were presented to Council in fall, 2011. Council preferred the full street option with 24' wide curb/gutter street with sidewalk on one side. Farley Avenue between 67<sup>th</sup> Street and 69<sup>th</sup> Street is currently a very narrow rural street section. Pavement is only 20' wide and there are safety concerns with such a narrow street width. As a result, the street was marked one-way going southbound in fall, 2012. Due to lack of drainage inlets, the side of the road acts as natural ditch, which overtop and drain to adjacent properties. Per recent traffic counts by Public Works, this portion of Farley Avenue has 710 Northbound/662 Southbound vehicles per day as of 2011. Farley Avenue is not identified in Johnson County's map of functional classified street and is **not** eligible for funding from the County's CARS program. Due to lack of access for construction and precipitous fall on one side, construction of a full street section will be disproportionately more expensive compared with other residential streets.

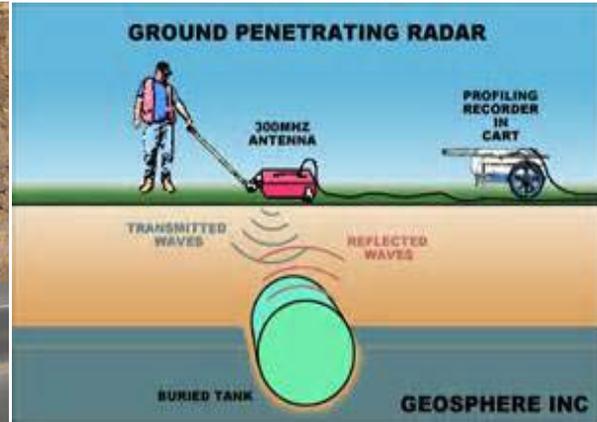
### Project Costs

	<b>Expenditures per Year:</b>		
	<b><u>2015</u></b>	<b><u>2016</u></b>	<b><u>Total</u></b>
FINAL ENGINEERING	\$172,500	\$52,500	\$225,000
CONSTRUCTION		\$1,578,548	\$1,578,548
EASEMENT		\$128,848	\$128,848
LEGAL		\$10,000	\$10,000
CONTINGENCY		\$158,000	\$158,000
<b>TOTAL PROJECT COST:</b>	<b>\$172,500</b>	<b>\$1,927,896</b>	<b>\$2,100,396</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Ground Penetrating Radar Street Evaluation



## Project Information

**Project #** TBD  
**Construction Year:** 2016-2017  
**Project Status:** Preliminary  
**Project Manager:** Public Works Director  
**Funding Source:** Special Sales Tax  
**Contractor:** TBD

## Project Description

In addressing the city streets, the long term programming plan was to first address the lack of curb and gutter on residential streets, the second was to upgrade substandard in-fill streets to full pavement width and add curb/gutters. The third phase of the plan was to begin reconstructing substandard subdivision streets to modern standards with an adequate compacted six inch aggregate base under eight inches of full depth asphalt.

The least intrusive way to determine where to begin the subdivision street upgrades is through the use of ground penetrating radar. This equipment will reveal existing asphalt thickness as well as the thickness of the existing base. Staff can then prioritize the program using worst will be first strategies.

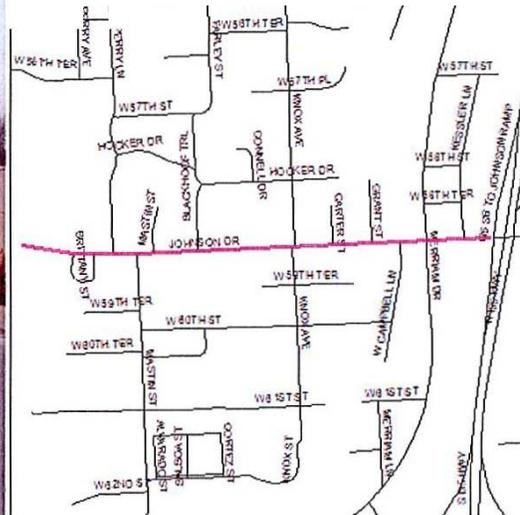
<u>Project Costs</u>	<u>2016</u>	<u>2017</u>	<u>Total</u>
ESTIMATED COST	\$45,000	\$45,000	\$90,000

## Impact on Operating Budget

There is no impact to the Public Works operating budget.

# Johnson Drive Reconstruction/Improvement

## From West City Limits through Kessler Lane



### Project Information

<b>Project #:</b>	NEW
<b>Design:</b>	2017
<b>Construction Year:</b>	2018
<b>Project Status:</b>	Design
<b>Project Engineer:</b>	BHC Rhodes
<b>Funding Source:</b>	CARS/General CIP/Highway
<b>Contractor:</b>	TBD

### Project Description

The project entails Johnson Drive from West City Limits through Kessler Lane. The scope of work includes removal of concrete cap around Merriam Drive area, 2 inch Mill/Overlay, pavement marking, install new streetlights, pedestrian traffic signal modification, traffic signal system/backup and replacement of curb/gutters/sidewalk/ADA ramps as required. The City of Merriam plans to submit CARS application to Johnson County to request funding.

### Project Costs

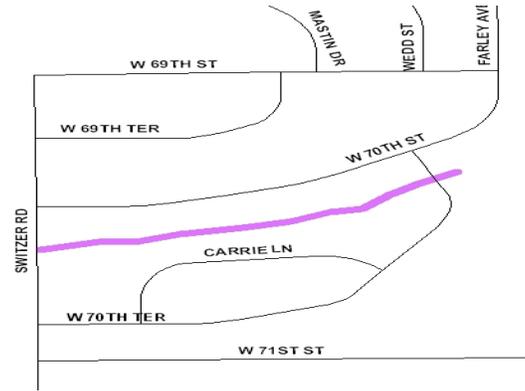
	<u>2017/2018</u>
ENGINEERING	\$96,258
CONSTRUCTION*	\$470,670
SIDEWALK REPLACEMENT*	\$262,500
STREET LIGHTS*	\$239,410
ROW/EASEMENT ACQUISITION	\$15,000
LEGAL	\$5,000
REFORESTATION	\$5,000
CONTINGENCY*	\$96,258
<b>TOTAL PROJECT COST</b>	<b>\$1,190,096</b>
<b>CARS ELIGIBLE FUNDING (50%)*</b>	<b>-\$534,419</b>
<b>TOTAL MERRIAM COST:</b>	<b>\$655,677</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Meyer Creek Improvement

## Switzer Road to Farley Ave



Meyer Creek

### Project Information

**Project #:** GS1401  
**Design Year:** 2013/2014  
**Construction Year:** 2015/2016  
**Project Status:** Substantial Completion  
**Project Engineer:** Affinis  
**Funding Source:** SMAC/Special Sales Tax  
**Contractor:** V. F. Anderson

### Project Description

This project is identified in the Northeast Johnson County Watershed Study, dated 11-20-06, as Turkey Creek Tributary Project 53 (TC53). A concrete lined channel runs through the backyards of homes on 70<sup>th</sup> Street and Carrie Lane. The existing channel lacks capacity. Ten (10) homes on 70<sup>th</sup> Street are in the 100-year flood plain per the study. The preliminary recommendation is to widen the size of the channel on W. 70<sup>th</sup> Terrace, which is 20' wide and 6' tall. This project will be funded by the special sales tax for streets/stormwater improvements. This project qualified for SMAC funding up to 75% of engineering consultant services, and eligible construction costs. The project will also improve other drainage improvements in the tract that are undersized and outlived its design life. These improvements are not SMAC eligible but recommended to be constructed together for overall cost savings.

### Project Costs

#### Expenditures by Year:

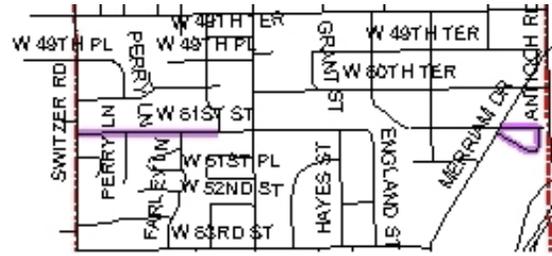
	<u>2015 &amp; Prior</u>	<u>2016</u>	<u>Total</u>
FINAL ENGINEERING *	\$302,956		\$302,956
CONSTRUCTION *	\$2,229,278	\$22,668	\$2,251,946
EASEMENT/ROW ACQUISITION	\$30,924		\$30,924
LEGAL	\$8,035		\$8,035
ADDITIONAL DRAINAGE IMP/ENG	\$299,780		\$299,780
<b>TOTAL PROJECT COST:</b>	<b>\$2,870,973</b>	<b>\$22,668</b>	<b>\$2,893,641</b>
<b>EST. 75% SMAC MATCH *</b>	<b>-\$1,787,203</b>		<b>-\$1,787,203</b>
<b>CITY OF MERRIAM FUNDS</b>	<b>\$1,083,770</b>	<b>\$22,668</b>	<b>\$1,106,438</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget, since it is an improvement of an unlined channel. Upon completion, this project will be maintained as part of the annual City's storm drainage system maintenance. The concrete lined channel will be checked and debris will be cleared.

# Residential Street Group V Project

## Unimproved Streets Throughout the City



**Project #:** NEW  
**Year:** 2017  
**Project Status:** Design  
**Project Engineer:** Affinis  
**Funding Source:** Special Sales Tax  
**Contractor:** TBD

### Project Description

Several residential streets are unimproved through the City. Individual locations were presented as individual projects. However, construction on individual streets will not be a viable project due to lack of interest from contractor bidding on the jobs and economy of scale. Staff proposes to combine three unimproved streets into one project.

- 51<sup>st</sup> Street Curb/Gutter In-fill Project Between Knox Ave and Switzer Road
- Merriam Lane Improvement Between 61<sup>st</sup> Street to Merriam Drive
- Campbell Street Improvement South of 60<sup>th</sup> Street

### Project Costs

	<b>2016</b>	<b>2017</b>	<b>Total</b>
ENGINEERING	\$201,017	\$37,553	\$238,570
CONSTRUCTION*		\$1,505,426	\$1,505,426
ROW/EASEMENT ACQUISITION		\$133,975	\$133,975
LEGAL		\$15,000	\$15,000
UTILITIES		\$170,000	\$170,000
CONTINGENCY		\$263,529	\$263,529
<b>TOTAL PROJECT COST</b>	<b>\$201,017</b>	<b>\$2,125,483</b>	<b>\$2,326,500</b>

### Impact on Operating Budget

To be determined after design.

# Shawnee Mission Pkwy Bridge over BNSF Railroad

## Bridge Repair/Rehabilitation



Shawnee Mission Pkwy Bridge over BNSF Railroad.

### Project Information

**Project #:** GU1601  
**Design Year:** 2015/2016  
**Construction Year:** 2016/2017  
**Project Status:** Design  
**Project Engineer:** GBA  
**Funding Source:** STP Federal Funds/I-35/Special Sales Tax  
**Contractor:** TBD

### Project Description

2011 Biennial Bridge Inspection of Shawnee Mission Pkwy over the BNSF railroad has identified this bridge to be qualified to receive Federal Funds for rehabilitation. The bridge carries more than 40,000 vehicles per day and plays a significant role in traffic/freight mobility. The bridge needs a significant rehabilitation to prolong the life of the bridge. The bridge was originally constructed by KDOT circa 1980s and was annexed to City of Merriam in the 1990s. The bridge has not received any significant repair since it opened. For ease of construction purposes, a mill/overlay of SMP from the bridge to the west city limits was added to this project.

### Project Costs

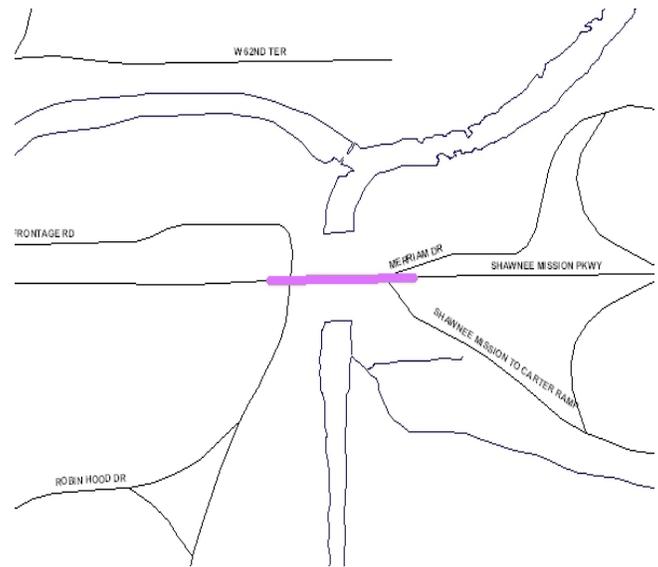
	<b>Expenditures by Year:</b>		
	<b><u>2015/Prior</u></b>	<b><u>2016/2017</u></b>	<b><u>Total</u></b>
FINAL ENGINEERING	\$140,648	\$134,352	\$275,000
CONSTRUCTION *		\$1,826,500	\$1,826,500
MILL/OVERLAY SMP TO WEST LIMITS		\$507,101	\$507,101
EASEMENT/ROW ACQUISITION		\$15,000	\$15,000
LEGAL/MARC	\$8,531	\$4,859	\$13,390
CONSTRUCTION ENGINEERING*		\$280,031	\$280,031
CONTINGENCY		\$233,400	\$233,400
<b>TOTAL PROJECT COST:</b>	<b>\$149,179</b>	<b>\$3,001,243</b>	<b>\$3,150,422</b>
<b>STP FEDERAL FUND (80%)</b>		<b>-\$1,636,500</b>	<b>-\$1,636,500</b>
<b>EST. CARS FUNDING *</b>		<b>-\$488,500</b>	<b>-\$488,500</b>
<b>MERRIAM NET COST</b>	<b>\$149,179</b>	<b>\$876,243</b>	<b>\$1,025,422</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# Shawnee Mission Pkwy Bridge over Turkey Creek

## Study and Rehabilitation



Shawnee Mission Pkwy Bridge over Turkey Creek

### Project Information

**Project #:** TBD  
**Construction Year:** 2017  
**Project Status:** PES  
**Project Engineer:** GBA  
**Funding Source:** Special Sales Tax/STP Federal Funds  
**Contractor:** TBD

### Project Description

Shawnee Mission Pkwy Bridge over Turkey Creek was identified in the 2013 Biennial Bridge Inspection Report to be in need of repair/maintenance on the bridge deck underside and wing walls. The deck underside is showing signs of fatigue and exposed corroded steel rebars. The wing wall on the eastern bank of the creek has separated from the main structure and is creeping. A feasibility study was completed in 2016 to provide options to improve the structural integrity of the bridge while maintaining or improving the hydraulic characteristics. This study provided the following construction options: Rehabilitation of existing structure - \$150,000; New multi-cell continuous slab - \$2,500,000; and New span-type bridge - \$2,000,000. The strategy is to construction option 1 in 2017 to extend the life of the bridge. Future improvements may be submitted for funding through Federal Surface Transportation Program (STP). Next call for project for STP will be in 2018.

### Project Costs

	<u>2016</u>	<u>2017</u>	<u>Total</u>
ENGINEERING SERVICES	\$25,000		
CONSTRUCTION		\$165,000	
TOTAL PROJECT COST:			\$190,000

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget.

# City of Merriam Stormwater Master Plan (SWMP)



## Project Information

**Project #:** NEW  
**Development Year:** 2018  
**Project Status:** Preliminary  
**Project Manager:** Public Works Director  
**Funding Source:** Special Sales Tax  
**Contractor:** TBD

## Project Description

A SWMP is a planning level document that serves to analyze the current condition of the City's existing stormwater drainage systems. This analysis serves to identify and prioritize areas where drainage systems are deficient and to what extent. After these problems are identified, preliminary drainage projects are developed and prioritized to help alleviate flooding in these areas. The SWMP will support the CIP by serving to provide educated and scientifically substantiated decisions for the management of the City's drainage systems. It also provides a cost comparison and defines the implementation schedule for the defined projects relative to the CIP.

## Project Costs

	<u>2018</u>
ESTIMATED PROJECT COST	\$250,000

## Impact on Operating Budget

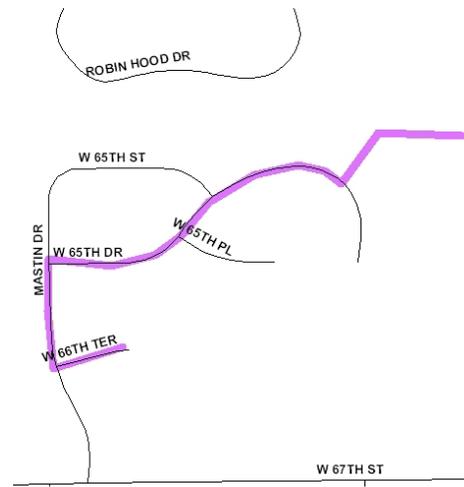
In and of itself, the new plan will have no impact on the Public Works operating budget; however, it may provide new best management practices for the general maintenance of the storm water system.

# West Vernon Place Drainage Improvement

## West Vernon Place Subdivision



One of the inlets on W. 65<sup>th</sup> Drive



### **Project Information**

**Project #:** NEW  
**Construction Year:** 2020/2021  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Funding Source:** Special Sales Tax  
**Contractor:** TBD

### **Project Description**

The subdivision is quite steep and drains very well on top. However, there is cross drainage across property lines from higher elevation properties to the lower elevation properties. There are only three or four inlets in the whole subdivision and these inlets do not have sufficient capacity. Streets and some of the lower lying properties may experience flooding.

<b>Project Cost</b>	<b>2020</b>	<b>2021</b>	<b>Total</b>
PRELIMINARY COST EST	\$150,000	\$1,100,000	\$1,250,000

### **Impact on Operating Budget**

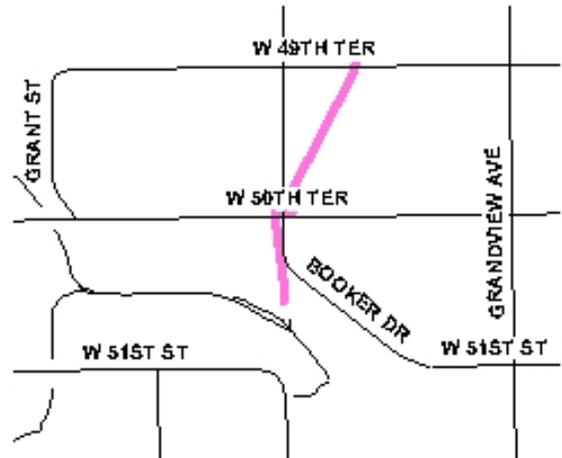
The impact will be determined after design.

# Unprogrammed Project Listing

Page	Project	Description
53	50th Ter and England Ave Drainage Improvements	South Park Subdivision
54	Blue Jacket Creek Drainage Improvement	From Farley Lane to Knox Avenue
55	Campbell Creek Drainage Improvement	9700 W. 60th to 9605 W. 59th Ter to Merriam Christian Church
56	Farley and Knox Drainage Improvement	5400 Block between Farley St. and Knox Ave.
57	Mastin Street Sidewalk Improvement	On the east side between W. 61st and W 62nd Streets
58	Mastin Drainage Improvement	60th Street to Campbell Park
59	Hocker Creek Improvement	5737 Connell to 5750 Knox
60	Brown Park Creek Improvements (Lower)	4901 Knox Ave to 4940 Grant Ave
61	Brown Park Creek Improvements (Upper)	From 47th Street to Knox Ave

# 50<sup>th</sup> Ter and England Ave Drainage Improvement

## South Park Subdivision



Overland flow at 9224 50<sup>th</sup> Ter

### Project Information

**Project #:** TBD  
**Construction Year:** 20XX  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Contractor:** TBD

### Project Description

The subdivision was developed in phases without any comprehensive drainage system improvements. Tributary area comes from north of 50<sup>th</sup> Terrace unto 9224 W 50<sup>th</sup> Terrace backyard. The topography of the lot is such that the drainage water from the north and east comes through this property's back yard. Then series of subsurface pipes and overland flow structures capture the flow which is conveyed to an inlet box on England Street. Series of inlet boxes serve the intersection at England and 50<sup>th</sup> Terrace. Inlet/catch basins are old and possibly unable to drain due to backwater from Brown Park Creek.

### Project Costs

PRELIMINARY COST EST.	\$300,000
<b>TOTAL PROJECT COST:</b>	<b>\$300,000</b>

### Impact on Operating Budget

To be determined after design.

# Blue Jacket Creek Drainage Improvement

## From Farley Lane to Knox Avenue



Blue Jacket Creek looking west from Knox Avenue



### Project Information

**Project #:** TBD  
**Construction Year:** 20XX  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Contractor:** TBD

### Project Description

A natural creek meanders through backyards of homes in Hocker Grove neighborhood. This has been on the un-programmed CIP project list as result of previous resident complaints of flooding or nuisance. Blue Jacket Creek is a tributary stream to Turkey Creek.

### Project Costs

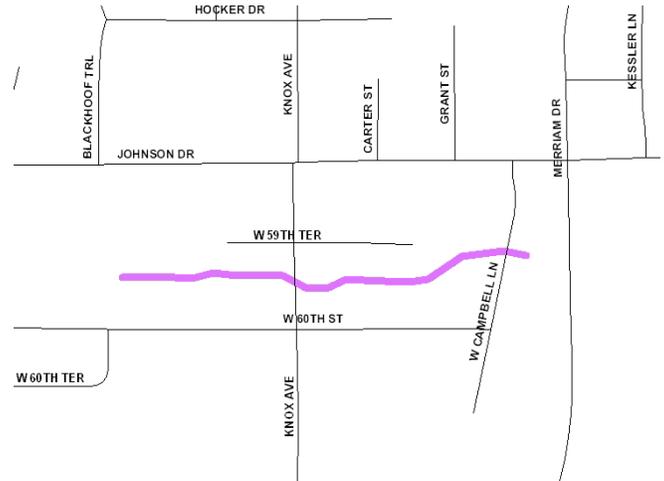
PRELIMINARY COST EST.	\$1,000,000
<b>TOTAL PROJECT COST:</b>	<b>\$1,000,000</b>

### Impact on Operating Budget

To be determined after design.

# Campbell Creek Drainage Improvement

## 9700 W. 60<sup>th</sup> to 9605 W. 59<sup>th</sup> Ter to Merriam Christian Church



Drainage path through backyards of homes on W. 59<sup>th</sup> Terrace

### Project Information

**Project #:** TBD  
**Construction Year:** 20XX  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Contractor:** TBD

### Project Description

A drainage path meanders through backyards of properties on W. 59<sup>th</sup> Terrace and W. 60<sup>th</sup> Street. The existing storm drainage improvements are designed for a 25-year storm capacity. The property owners constructed improvements and garages that extend into previously recorded Permanent Drainage Easements. The storm water is tributary to the Turkey Creek. When Turkey Creek floods, these stormdrains will be inundated and will not be able to drain until Turkey Creek recedes.

### Project Costs

PRELIMINARY COST EST.	\$1,000,000
<b>TOTAL PROJECT COST:</b>	<b>\$1,000,000</b>

### Impact on Operating Budget

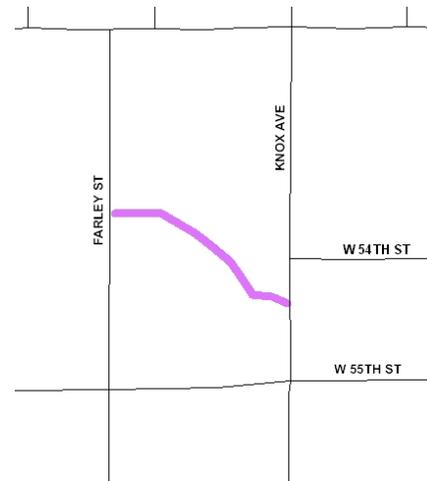
To be determined after design.

# Farley and Knox Drainage Improvement

## 5400 Block between Farley St. and Knox Ave.



Drainage Outlet on 5409 Farley



### Project Information

**Project #:** GM1102  
**Construction Year:** 20XX  
**Project Status:** Final Engineering  
**Project Engineer:** J2 Engineering  
**Funding Source:** General CIP  
**Contractor:** Public Works/Subcontractors

### Project Description

The low point of Farley Street between 53<sup>rd</sup> and 55<sup>th</sup> Streets is at 5409 Farley Street where a catch basin is located and the storm drainage system outlets in the side/back yard of 5409 Farley Street. The water leaving the storm drain crosses four downstream properties as it makes its way to an existing creek. Final engineering plans will enclose the storm drain system to join with an existing 42 inch storm drain on Knox which is discharged to the creek. This project is not SMAC Funding eligible.

### Project Costs

#### Expenditures by Year:

	<u>20XX</u>
ENGINEERING SERVICES	\$16,000
CONSTRUCTION	\$130,000
EASEMENT/ROW ACQUISITION	\$5,000
LEGAL	\$5,000
REFORESTATION	\$5,000
CONTINGENCY	\$ 10,000
<b>TOTAL PROJECT COST:</b>	<b>\$171,000</b>

### Impact on Operating Budget

This project is not expected to have a significant effect on the operating budget. Upon completion, this project will be maintained as part of the annual City's storm drainage system maintenance. The storm drain inlets will be checked for debris and clearance of debris from the inlet boxes. The task is expected to take about 1 hour of 2 man-hours to clean, at \$20/hour in salary and benefits.

Anticipated annual increase in maintenance cost: \$40

# Mastin Street Sidewalk Improvement

## On the east side between W. 61<sup>st</sup> and W. 62<sup>nd</sup> Streets



Mastin Street looking south



### Project Information

**Project #:** TBD  
**Construction Year:** 20XX  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Contractor:** TBD

### Project Description

A concern was raised regarding lack of sidewalk for Merriam Elementary School. Crossing Guard is present at W. 61<sup>st</sup> Street and Mastin. No crossing guard is present at W. 62<sup>nd</sup> Street. Schoolchildren are encouraged to use the help of a crossing guard at W. 61<sup>st</sup> Street to access the apartments on the south of W. 61<sup>st</sup> Street. Sidewalk will provide the access to the apartments. In order to construct the sidewalk, several trees in front of the apartments must be displaced due to root intrusions.

### Project Costs

PRELIMINARY COST EST.	\$25,000
<b>TOTAL PROJECT COST:</b>	<b>\$25,000</b>

### Impact on Operating Budget

Impact on operation budget is negligible.

# Mastin Drainage Improvement

## 60<sup>th</sup> Street to Campbell Park



Backyards of homes on W. 60<sup>th</sup> Street



### Project Information

<b>Project #:</b>	TBD
<b>Construction Year:</b>	20XX
<b>Project Status:</b>	Conceptual
<b>Project Engineer:</b>	TBD
<b>Contractor:</b>	TBD

### Project Description

A natural drainage path meanders through backyards of homes on W. 61<sup>st</sup> Street and W. 60<sup>th</sup> Street. During heavy rainstorms, the drainage path becomes a creek. When the creek is full, it becomes dangerous and has potential for property damage. Conceptual improvements include undergrounding the storm drainpipes. This area drains to Turkey Creek.

### Project Costs

PRELIMINARY COST EST.	\$1,500,000
<b>TOTAL PROJECT COST:</b>	<b>\$1,500,000</b>

### Impact on Operating Budget

To be determined after design.

# Hocker Creek Improvement

## From 5737 Connell Dr. to 5750 Knox Ave



West of Knox Ave between W. 57<sup>th</sup> and Hocker Dr.

### Project Information

<b>Project #:</b>	TBD
<b>Design Year:</b>	TBD
<b>Construction Year:</b>	TBD
<b>Project Status:</b>	Preliminary Engineering Study (PES)
<b>Project Engineer:</b>	Consultant to be selected
<b>Funding Source:</b>	Special Sales Tax
<b>Contractor:</b>	TBD

### Project Description

This project is identified in the Northeast Johnson County Watershed Study, dated 11-20-06, as Turkey Creek Tributary Project 52 (TC52). A combination of concrete lined and unimproved channel conveys flows through the backyards of the houses that front Farley, Connell and Knox Streets. Two partial structures are in the floodplain. This project is eligible for SMAC funding. However, it was deferred until further review by City Engineer and Public Works Director. Staff had not received calls of any drainage/flooding problems in this area.

### Project Costs

#### Expenditures by Year:

	<u>20XX</u>	<u>20XX</u>	<u>Total</u>
FINAL ENGINEERING*	\$257,000		\$257,000
CONSTRUCTION*		\$1,641,000	\$1,641,000
EASEMENT/ROW ACQUISITION		\$20,000	\$20,000
LEGAL		\$25,000	\$25,000
REFORESTATION*		\$20,000	\$20,000
CONTINGENCY*		\$336,500	\$336,500
<b>TOTAL PROJECT COST:</b>	<b>\$257,000</b>	<b>\$2,042,500</b>	<b>\$2,299,500</b>
<b>SMAC ELIGIBLE COST</b>	<b>\$257,000</b>	<b>\$1,997,500</b>	<b>\$2,254,500</b>
<b>EST. 75% SMAC MATCH*</b>	<b>-\$192,750</b>	<b>-\$1,498,125</b>	<b>-\$1,690,875</b>
<b>CITY OF MERRIAM FUNDS</b>	<b>\$64,250</b>	<b>\$544,375</b>	<b>\$608,625</b>

### Impact on Operating Budget

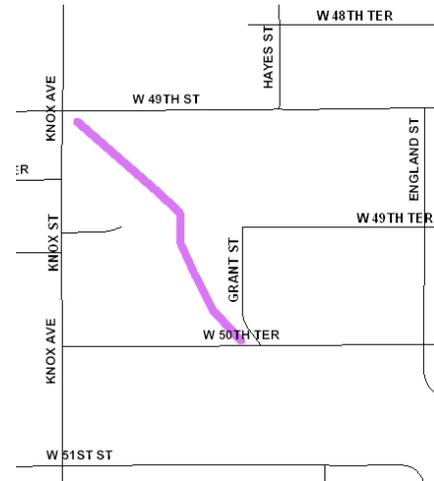
This project is not expected to have a significant effect on the operating budget, since it is an improvement of an existing channel. Upon completion, this project will be maintained as part of the annual City's storm drainage system maintenance. The concrete lined channel will be checked for debris and clearance of debris from the channel.

# Brown Park Creek Improvement (Lower section)

4901 Knox Avenue to 4940 Grant Avenue



Lower Brown Park Creek looking south from Knox Avenue



## Project Information

**Project #:** TBD  
**Construction Year:** 20XX  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Contractor:** TBD

## Project Description

A natural drainage path meanders through various neighborhoods. During heavy rainstorms, the creek becomes very wide and causes erosions along its path. Brown Creek is a tributary stream to Turkey Creek.

## Project Costs

	<b>20XX</b>
PRELIMINARY COST EST.	\$1,500,000
<b>TOTAL PROJECT COST:</b>	<b>\$1,500,000</b>

## Impact on Operating Budget

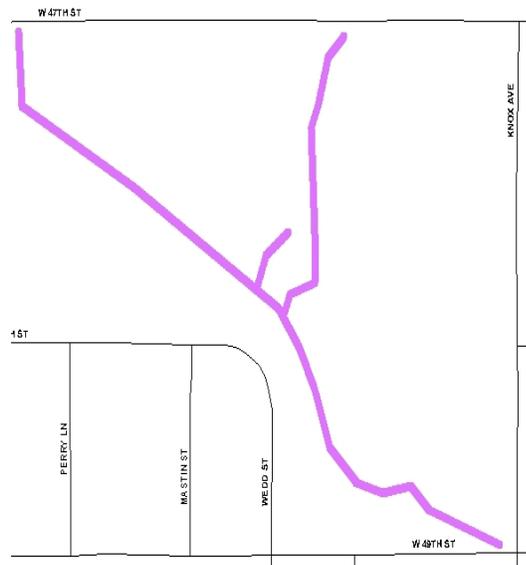
To be determined after design.

# Brown Park Creek Improvement (Upper section)

## From 47<sup>th</sup> Street to Knox Ave



Backyards of along Upper Brown Park Creek



### Project Information

**Project #:** TBD  
**Construction Year:** 20XX  
**Project Status:** Conceptual  
**Project Engineer:** TBD  
**Contractor:** TBD

### Project Description

A natural drainage paths meanders through backyards of homes on 48<sup>th</sup> Street and Wedd Street. Some portion of the creek is concrete lined as part of the original home development. Most of the creek is a natural, with uneven widths carved out by storm water. During heavy rainstorms, the property owners have observed creek almost overtopping the banks. Brown Creek also receives water from un-named smaller creeks from the north from 47<sup>th</sup> Street adjacent to the 10002 W. 48<sup>th</sup> Street. Brown Creek is a tributary stream to Turkey Creek. The project should be analyzed as a system from all the tributaries.

### Project Costs

	<b><u>20XX</u></b>
PRELIMINARY COST EST.	<u>\$3,000,000</u>
<b>TOTAL PROJECT COST:</b>	<b>\$3,000,000</b>

### Impact on Operating Budget

To be determined after design.

# Overview of CIP 1998-2016

## City of Merriam

	Approx. Date Completed	Total Cost	Merriam Net Cost
<b>General Projects</b>			(thru 3/31/2016)
<b>Completed</b>			
Aquatic Center - Phase I	May-98	327,400	\$ 327,400
63rd Street Buyout	June-98	375,305	91,993
65th Street/Lowell to Craig	June-99	152,162	117,147
Quail Creek Buyout	October-99	4,205,600	1,338,738
Brown Park Drainage (Phases I and II)	October-99	1,350,750	458,743
Antioch Park Creek Drainage	April-00	637,407	205,018
75th Street Traffic Signal	January-01	158,644	-
Community Center Repairs	April-01	907,816	907,816
50th Terrace/Antioch to Merriam Drive	May-01	104,305	104,305
Farley-Blackhoof	July-01	966,029	766,029
Quaker Creek Channel Improvements	September-01	65,867	65,717
59th Terrace/60th Street	October-01	413,206	413,206
62nd & Antioch Retaining Wall	July-01	66,932	29,506
Turkey Creek - Vicinity of BNSF Bridge	May-01	3,146,037	218,249
Merriam Drive Buildings	August-02	337,511	337,511
Quail Creek Drainage	November-02	1,531,274	1,051,577
Kessler Lane/57th Street	May-03	745,631	546,631
South Quaker Creek	May-05	182,093	182,093
Hocker Grove Street and Drainage Improvements	July-05	1,217,863	1,017,863
Campbell Street and Drainage Improvements	July-05	740,896	740,896
Hadley Street and Drainage Improvements	July-05	1,748,190	1,748,190
Hickory Creek Drainage	April-06	1,247,832	335,991
Hardy Street and Drainage Improvements	May-06	689,227	689,227
Vernon Place Street/Drainage Improvements	October-06	1,354,754	1,354,754
Switzer Drainage/W. Antioch	November-06	97,538	97,538
CDBG 2009: Switzer Streetlights	December-09	71,070	-
CDBG-R 2009: Mastin Streetlights	December-09	74,552	-
Bridge Repair Study - Johnson Dr. over Turkey Creek	July-10	16,438	16,438
47th Street	August-10	2,582,405	716,033
47th & Switzer Curb/Gutter Project	August-10	52,913	52,913
Economic Stimulus Overlays - Merriam Drive	August-10	69,585	59,964
Shawnee Creek Preliminary Engineering Study	December-10	50,418	12,745
SM Pkwy Bridge at Mastin	January-11	339,711	339,711
Upper Turkey Creek Feasibility Study	September-11	521,460	214,710
Bridge Repairs -Shawnee Mission Pkwy/Turkey Creek	November-11	75,807	39,807
Traffic Signal ILA's with Overland Park	August-12	249,320	249,320
Cure-in-Place Pipe Projects	September-12	129,850	129,850
55th Terrace/56th Terrace Drainage	September-12	250,184	195,946
Public Works Bridge over Quail Creek Culvert	December-12	202,544	12,803
Bridge Repairs - Merriam Dr/Turkey Creek	December-13	152,456	111,206
Dutch Maid Hotel Demolition	December-13	71,213	71,213
Gymnasium Floor Rehabilitation	April-13	27,686	27,686
Shawnee Mission Parkway Median Replacements	December-13	353,790	109,482
Shawnee Mission Pkwy Corridor Plan	December-13	157,638	30,638
Knox Court Cure-In-Place Pipe	August-14	151,306	151,306
CDBG Streetlights-Forest Park	October-14	79,522	-
City Parking Lot Repairs (Comm Center & Marketplace)	December-14	111,908	111,908
Community Center Upgrades	December-14	2,500	2,500
Community Center Architectural Review	December-14	10,000	10,000
Farley/Knox Drainage Improvements	December-14	13,247	13,247
CDBG Streetlights Switzer/Knox	September-15	114,009	44,009
Streetlight Metering SMPK (I-35 to west limits)	December-15	42,479	42,479
Park Land Acquisition and Development	various	532,879	356,292

	<u>Approx. Date Completed</u>	<u>Total Cost</u>	<u>Merriam Net Cost</u>
<b>General Projects</b>			
<b>Under Construction/On-going</b>			
CIP/Public Works Information/Asset Mgmt System		89,476	\$ 89,476
Overlay Supplement		2,651,159	2,215,797
Residential Street Lights		608,444	608,444
Waterfall Park Development		364,196	364,196
Small Drainage Improvements		192,555	192,555
Public Art		75,785	75,785
Wayside Horns		6,638	6,638

**SPECIAL SALES TAX PROJECTS:**

**1/8 & 1/4 Cent Sales Tax Projects - Streets (2001-2010)**

**Completed**

Sherwood Forest	January-04	1,081,850	\$ 1,081,850
Merriam Hills Street and Drainage	November-06	1,957,780	1,957,780
Farley Street (53rd to 55th)	May-07	511,268	322,639
Lowell Road	November-07	1,127,178	720,659
61st Street	November-08	308,181	213,669
Residential Street Group I	November-08	1,183,226	1,177,118
54th Terrace	September-09	73,129	73,129
Residential Street Group II (excluding Carter/Grant)	December-09	1,050,939	1,050,939
Residential Street Group III - South	October-10	826,190	826,190
Farley Avenue St. Feasibility Study	November-11	29,676	29,676
Residential Street Group III - North	September-12	1,657,563	1,657,563
Residential Street Group IV (w/ Carter/Grant)	October-15	2,275,639	2,275,639

**1/8 Cent Sales Tax Projects - Merriam Dr. (2001-2005)**

**Completed**

Finish Merriam Marketplace	October-01	222,072	\$ 222,072
Merriam Drive Fences	April-03	18,598	18,598
Streamway Park Phase III	March-05	40,682	40,682
Downtown Merriam Improvements	April-05	2,467,337	2,467,337
Streamway Trail Extension to Overland Park via Merriam Dr.	October-10	60,008	60,008
Marketplace Signage/Sound System	March-11	33,299	33,299
Johnson Dr/BNSF Railroad Crossing Improvements	November-11	91,600	91,600
Johnson Dr. Bridge/Turkey Creek	August-14	107,500	107,500

**Economic Development Grant (School SalesTax)**

**Completed**

Dutch Maid Annex Expenditures	June-06	431,812	\$ 431,811.96
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**1/4 Cent Sales Tax Projects - Stormwater/Streets (2010-2020)**

**Completed**

70th Terrace Drainage Box	October-11	1,647,001	\$ 420,592
75th St - Antioch to Frontage Rd	December-13	312,595	166,595
Shawnee Mission Pkwy/Antioch Intersection	June-14	71,624	71,624
Shawnee Creek Drainage - West (Switzer to Farley)	July-14	1,610,719	415,791
Shawnee Creek Drainage - East (Farley to Knox)	July-14	1,343,007	399,475
Johnson Dr Bridge over Turkey Creek	August-14	1,991,001	606,001
Comprehensive Engineering Study/PES	December-14	134,639	42,378
55th St Drainage Improvement	December-14	490,552	490,552
75th St - E. Frontage Rd to Switzer	December-14	2,580,429	2,580,429
E. Frontage Streetlights (72nd to 75th)	August-15	71,135	71,135
75th St Streetlights (Antioch to E. Frontage Rd.)	September-15	79,114	79,114
Meyer Creek Drainage	November-15	2,896,746	1,109,542
Sherwood Forest Drainage Outlet Repair	November-15	61,475	61,475
Antioch Overlay (67th to 75th)	November-15	483,259	483,259
Antioch Rd Streetlights (67th to 75th)	December-15	165,231	165,231

**Under Construction/On-going**

Shawnee Mission Parkway Bridge over BNSF Rail		\$ 141,421	\$ 141,421
Antioch Rd Reconstruction (Johnson Dr. to 67th)		95,141	95,141
Farley Avenue Reconstruction		151,192	151,192

	<u>Approx. Date Completed</u>	<u>Total Cost</u>	<u>Merriam Net Cost</u>
<b>BONDED PROJECTS:</b>			
<b>1994 Internal Improvement Bond Projects</b>			
<b>Completed</b>			
70th Street Drainage -Phase II	November-98	501,561	\$ 120,415.78
Perry Lane - Johnson Drive to 55th	July-99	844,899	754,899.47
57th & Knox (Hocker Creek) Drainage - Phase II	August-99	43,782	10,945.52
53rd - Knox to Farley	December-99	520,622	440,621.55
E Frontage Road - 67th to 75th	September-01	2,017,224	2,017,224.36
Shawnee Mission Parkway Sidewalk	September-02	47,853	47,852.62
<b>1997 Internal Improvement GO Bond Projects</b>			
<b>Completed</b>			
Antioch I-35 Bridge/Interchange	November-00	17,309,618	\$ 3,197,851.96
<b>1998 Minibond Project</b>			
<b>Completed</b>			
Aquatic Center - Phase II	May-99	864,546	\$ 864,545.88
<b>1998 Internal Improvement GO Bond Projects</b>			
<b>Completed</b>			
City Hall Renovation/Expansion	November-00	713,909	\$ 713,909.40
Merriam Drive Improvements (Concept Design)	September-00	76,031	76,030.56
Merriam Marketplace	October-01	2,064,826	2,064,826.22
<b>2002 Bond Projects</b>			
<b>Completed</b>			
City Hall/Public Safety Building	September-04	4,866,697	\$ 4,866,697.35
<b>2003 Bond Projects</b>			
<b>Completed</b>			
SMP Bridge Repairs	October-03	163,430	\$ 163,429.93
Brown Park Drainage Slump Repairs	January-04	967,639	217,639.42
Forest Park Drainage	May-04	871,607	871,606.68
Goodman Street	December-04	750,217	724,767.33
Johnson Drive Railroad Railroad Tracks	April-05	50,000	50,000.00
Brown Creek Erosion Project	September-05	433,426	433,426.49
Antioch/Shawnee Mission Pkwy	November-05	3,571,833	2,414,833.36
73rd and Switzer Drainage	June-06	321,057	321,056.80
<b>2004 Bond Projects</b>			
<b>Completed</b>			
West Frontage Road Reconfiguration - Merriam Pointe	December-08	6,192,719	\$ 6,192,719.00
<b>2005 Bond Projects</b>			
<b>Completed</b>			
Eby Street/Quaker Cr. Realignment - Merriam Village	October-08	5,640,058	\$ 5,640,058

	<u>Approx. Date Completed</u>	<u>Total Cost</u>	<u>Merriam Net Cost</u>
<b>TIF PROJECTS:</b>			
<b>I-35 Redevelopment TIF District</b>			
<b>Completed</b>			
West Frontage Road	November-01	62,206	\$ 62,206
75th Street Bridge Repairs	October-03	13,247	13,247
Carter Avenue	October-04	23,212	23,212
Carter Avenue Streetlights	October-04	91,440	91,440
Merriam Historic Plaza	September-06	1,837,549	1,338,049
W. Frontage Road Overlay	September-08	91,851	91,851
Quiet Zone on West Frontage Road	October-08	20,109	20,109
Merriam Police Department parking lot/lighting	October-08	91,674	91,674
Vavra Park Enhancements	June-09	921,682	671,682
Merriam Fire Department driveway	November-09	51,227	51,227
West Frontage Road Streetlights	August-11	81,792	81,792
Reconfigure Upper Parking Lot - City Hall	August-11	51,637	51,637
Johnson Drive Streetlights (South)	June-12	60,613	60,613
67th St/Carter Intersection Drainage Improvement	December-13	122,866	122,866
Slater/Eby/62nd Terr Overlay	August-13	139,975	139,975
Slater West Streetlights	November-13	85,223	85,223
W. Frontage Rd Roundabout	June-15	174,694	174,694
City Hall Parking Lot Overlay	June-15	82,329	82,329
IKEA Way Overlay	June-15	78,015	78,015
<b>Merriam Town Center TIF District</b>			
<b>Completed</b>			
Johnson Dr. Curbing/Storm Drain Rehab	October-11	521,633	\$ 521,633
Johnson Dr. Streetlights (North)	June-12	59,782	59,782
Antioch Overlay - 54th Terr to Johnson Dr	June-15	371,470	371,470
Traffic Signal Upgrades (Antioch/Johnson Dr)	October-15	142,813	142,813
		<u>117,157,810</u>	<u>\$ 78,864,831</u>

# Streetlight Planning

CDBG 2015

CARS 2018

Metered Streetlights

CARS 2017

CDBG 2017

MTC 2016

CARS 2016

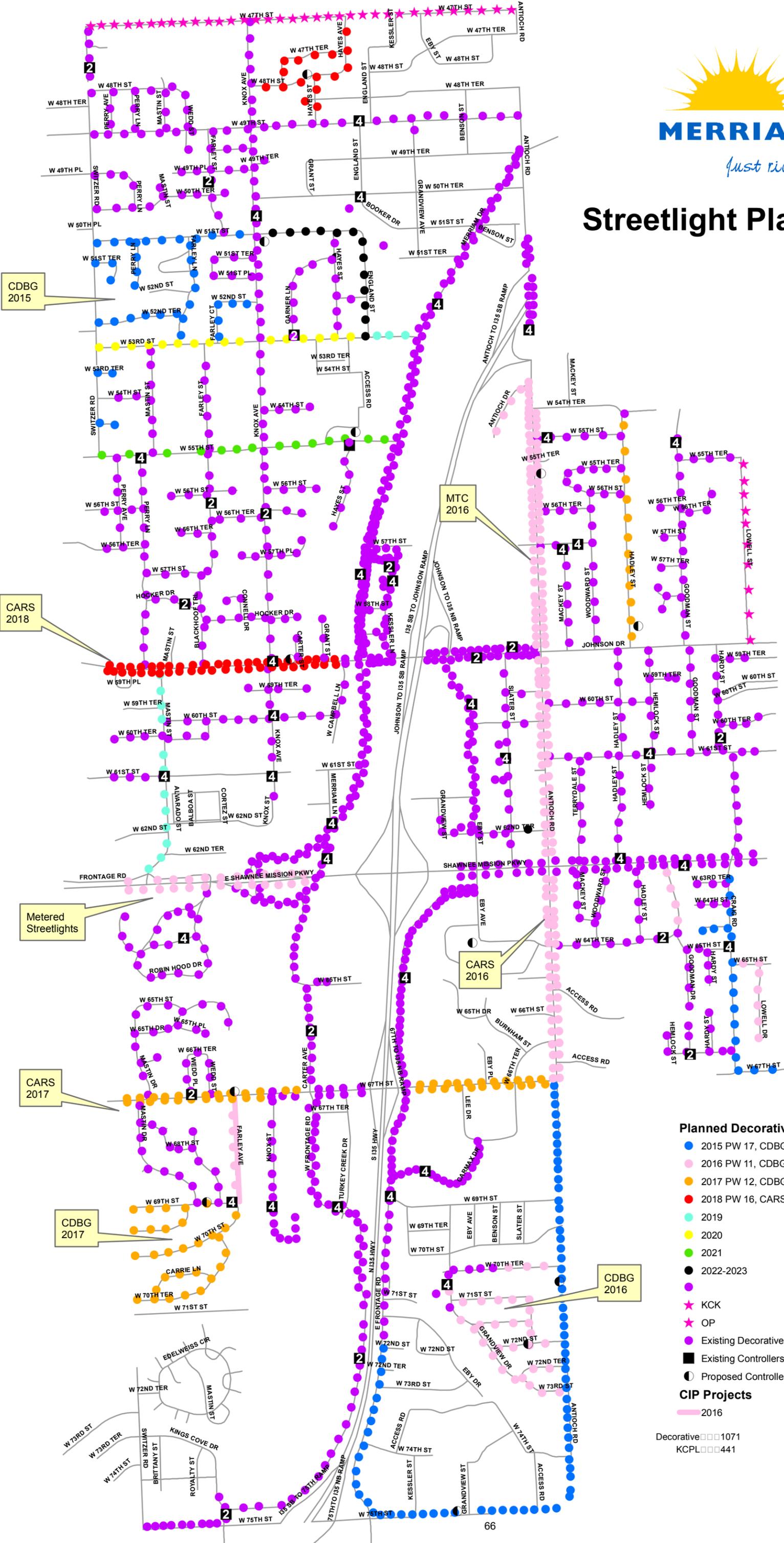
CDBG 2016



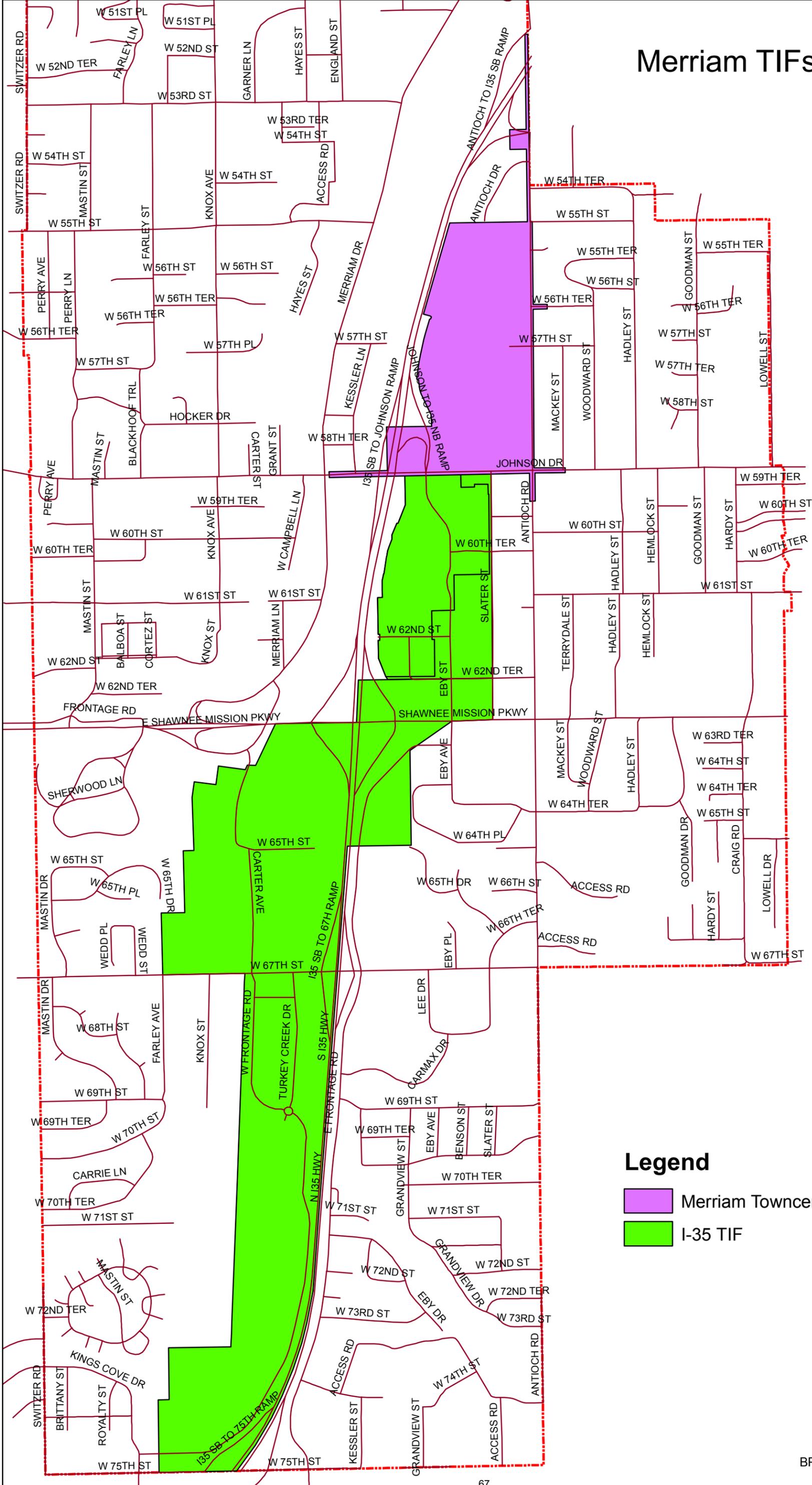
### Planned Decorative Lights

- 2015 PW 17, CDBG 38, E.Front 15, Antioch 44, 75St 16
- 2016 PW 11, CDBG 31, CIP 6, Metered 30, CARS 80, MTC 65
- 2017 PW 12, CDBG 30, CARS 46
- 2018 PW 16, CARS 46
- 2019
- 2020
- 2021
- 2022-2023
- Existing Decorative Lights
- Existing Controllers
- Proposed Controllers
- CIP Projects**
- 2016

Decorative □□□1071  
KCPL □□□441



# Merriam TIFs



**Legend**

-  Merriam Towncenter
-  I-35 TIF