

## **Overview of Public Works CIP**

The Public Works FY 16 – 21 CIP includes two separate sections: Roads and Bridges.

Johnsville Road Sidewalk project will provide a connection to Eldersburg Elementary School, Liberty High School, residential neighborhoods, and the commercial corridor along MD 32 (Sykesville Road) via Bartholow Road. It is anticipated that 80 percent of design and construction costs would be funded by the Safe Routes to School Program that is administered by the Maryland Department of Transportation

Approximately \$79 million is included in the FY 16 – 21 CIP to maintain roads throughout the County. Approximately thirty-five percent of the County's road network are considered mainline or collector and arterial roads. These roads typically carry a higher traffic volume. Sixty-five percent are lower volume roadways, including neighborhood roads. Typical repair strategies include: patching, overlay, mill and overlay, full depth reclamation and reconstruction.

The recommendation also includes ongoing bridge maintenance and replacement for five bridges.

For additional information on these or other Public Works projects please refer to the individual project pages.

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2016 TO 2021

|   | Fiscal Year      |                  |                    |                  |                    | Prior Allocation   | Balance to Complete | Total Project Cost |                    |
|---|------------------|------------------|--------------------|------------------|--------------------|--------------------|---------------------|--------------------|--------------------|
|   | 2016             | 2017             | 2018               | 2019             | 2020               |                    |                     |                    | 2021               |
| <b>BRIDGES:</b>   |                  |                  |                    |                  |                    |                    |                     |                    |                    |
| Bear Run Road over Bear Branch                            | \$0              | \$0              | \$0                | \$0              | \$0                | \$240,000          | \$0                 | \$1,300,000        | \$1,540,000        |
| Bridge Inspection and Inventory                           | 33,600           | 33,600           | 37,000             | 37,000           | 37,500             | 42,000             | 0                   | 0                  | 220,700            |
| Bridge Maintenance and Structural Repairs                 | 50,700           | 53,200           | 55,900             | 58,700           | 61,600             | 64,700             | 0                   | 0                  | 344,800            |
| Cape Horn Road over Unnamed Stream                        | 372,000          | 0                | 0                  | 0                | 0                  | 0                  | 129,000             | 0                  | 501,000            |
| Cleaning and Painting of Existing Bridge Structural Steel | 79,000           | 81,800           | 84,700             | 87,700           | 92,100             | 96,800             | 0                   | 0                  | 522,100            |
| Gaither Road over South Branch Patapsco River             | 0                | 0                | 230,000            | 0                | 1,898,000          | 0                  | 0                   | 0                  | 2,128,000          |
| Hollingsworth Road over Unnamed Tributary                 | 0                | 0                | 0                  | 0                | 230,000            | 649,000            | 0                   | 0                  | 879,000            |
| Stone Chapel Road over Little Pipe Creek                  | 207,000          | 0                | 729,000            | 0                | 0                  | 0                  | 0                   | 0                  | 936,000            |
| <b>BRIDGES TOTAL</b>                                      | <b>\$742,300</b> | <b>\$168,600</b> | <b>\$1,136,600</b> | <b>\$183,400</b> | <b>\$2,319,200</b> | <b>\$1,092,500</b> | <b>\$129,000</b>    | <b>\$1,300,000</b> | <b>\$7,071,600</b> |
| <b>SOURCES OF FUNDING:</b>                                |                  |                  |                    |                  |                    |                    |                     |                    |                    |
| Transfer from General Fund                                | \$163,300        | \$168,600        | \$177,600          | \$183,400        | \$191,200          | \$203,500          | \$0                 | \$0                | \$1,087,600        |
| Bonds   | 419,000          | 0                | 237,600            | 0                | 673,600            | 697,000            | 129,000             | 260,000            | 2,416,200          |
| Federal Highway/Bridge                                    | 160,000          | 0                | 721,400            | 0                | 1,454,400          | 192,000            | 0                   | 1,040,000          | 3,567,800          |
| <b>BRIDGES TOTAL</b>                                      | <b>\$742,300</b> | <b>\$168,600</b> | <b>\$1,136,600</b> | <b>\$183,400</b> | <b>\$2,319,200</b> | <b>\$1,092,500</b> | <b>\$129,000</b>    | <b>\$1,300,000</b> | <b>\$7,071,600</b> |

# Bear Run Road over Bear Branch

District Location: 1

Heidi K. Pepin, Senior Budget Analyst (410) 386-2082

Proj #

Functional Classification: Local  
 Average Daily Traffic: 343  
 Bridge No.: CL261



This project provides planned funding to replace the existing three cell culvert structure, located in central Carroll County, west of Westminster. The new structure will be determined based on an alternatives analysis.

This project qualifies for Federal aid funding, which covers 80 percent of the engineering, administrative, and construction costs.

|                       | FY 16    | FY 17    | FY 18    | FY 19    | FY 20    | FY 21          | Prior Allocation | Balance to Complete | Total Project Cost |
|-----------------------|----------|----------|----------|----------|----------|----------------|------------------|---------------------|--------------------|
| Engineering/Design    |          |          |          |          |          | 240,000        |                  |                     | 240,000            |
| Land Acquisition      |          |          |          |          |          |                |                  |                     | 0                  |
| Site Work             |          |          |          |          |          |                |                  | 100,000             | 100,000            |
| Construction          |          |          |          |          |          |                |                  | 1,015,000           | 1,015,000          |
| Equipment/Furnishings |          |          |          |          |          |                |                  |                     | 0                  |
| Other                 |          |          |          |          |          |                |                  | 185,000             | 185,000            |
| <b>EXPENDITURES</b>   |          |          |          |          |          |                |                  |                     |                    |
| <b>TOTAL</b>          | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>240,000</b> | <b>0</b>         | <b>1,300,000</b>    | <b>1,540,000</b>   |

| <b>SOURCES OF FUNDS</b>            |          |          |          |          |          |          |  |           |           |
|------------------------------------|----------|----------|----------|----------|----------|----------|--|-----------|-----------|
| Transfer from General Fund         |          |          |          |          |          |          |  |           | 0         |
| Local Income Tax                   |          |          |          |          |          |          |  |           | 0         |
| Bonds                              |          |          |          |          |          | 48,000   |  | 260,000   | 308,000   |
| Federal Highway/Bridge             |          |          |          |          |          | 192,000  |  | 1,040,000 | 1,232,000 |
| <b>PROJECTED OPERATING IMPACTS</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |  |           | <b>0</b>  |

# Bridge Inspection and Inventory

Heidi K. Pepin, Senior Budget Analyst (410) 386-2082

9684

This project provides ongoing funding for the inspection of twenty small structures that do not qualify for Federal funds. The twenty small structures are inspected on the same two-year cycle as the 132 major County-maintained structures. The project includes biennial field inspections as well as completion and submission of inspection reports to the County.

|                                    | FY 16         | FY 17         | FY 18         | FY 19         | FY 20         | FY 21         | Prior Allocation | Balance to Complete | Total Project Cost |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|---------------------|--------------------|
| Engineering/Design                 | 33,600        | 33,600        | 37,000        | 37,000        | 37,500        | 42,000        |                  |                     | <b>220,700</b>     |
| Land Acquisition                   |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Site Work                          |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Construction                       |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Equipment/Furnishings              |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Other                              |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| <b>EXPENDITURES</b>                |               |               |               |               |               |               |                  |                     |                    |
| <b>TOTAL</b>                       | <b>33,600</b> | <b>33,600</b> | <b>37,000</b> | <b>37,000</b> | <b>37,500</b> | <b>42,000</b> | <b>0</b>         | <b>0</b>            | <b>220,700</b>     |
| <b>SOURCES OF FUNDS</b>            |               |               |               |               |               |               |                  |                     |                    |
| Transfer from General Fund         | 33,600        | 33,600        | 37,000        | 37,000        | 37,500        | 42,000        |                  |                     | <b>220,700</b>     |
| Local Income Tax                   |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Property Tax                       |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Bonds                              |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| <b>PROJECTED OPERATING IMPACTS</b> | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |                  |                     |                    |

# Bridge Maintenance and Structural Repairs

Heidi K. Pepin, Senior Budget Analyst (410) 386-2082

9882

This project provides ongoing funding for preventive maintenance and small repairs to County-maintained bridges including: deck joint replacements, structural steel repairs, concrete patching, sediment removal, stream channel stabilization, traffic barrier replacement, and approach roadway repairs.

|                                    | FY 16         | FY 17         | FY 18         | FY 19         | FY 20         | FY 21         | Prior Allocation | Balance to Complete | Total Project Cost |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|---------------------|--------------------|
| Engineering/Design                 |               |               |               |               |               |               |                  |                     | 0                  |
| Land Acquisition                   |               |               |               |               |               |               |                  |                     | 0                  |
| Site Work                          |               |               |               |               |               |               |                  |                     | 0                  |
| Construction                       | 50,700        | 53,200        | 55,900        | 58,700        | 61,600        | 64,700        |                  |                     | 344,800            |
| Equipment/Furnishings              |               |               |               |               |               |               |                  |                     | 0                  |
| Other                              |               |               |               |               |               |               |                  |                     | 0                  |
| <b>EXPENDITURES</b>                |               |               |               |               |               |               |                  |                     |                    |
| <b>TOTAL</b>                       | <b>50,700</b> | <b>53,200</b> | <b>55,900</b> | <b>58,700</b> | <b>61,600</b> | <b>64,700</b> | <b>0</b>         | <b>0</b>            | <b>344,800</b>     |
| <b>SOURCES OF FUNDS</b>            |               |               |               |               |               |               |                  |                     |                    |
| Transfer from General Fund         | 50,700        | 53,200        | 55,900        | 58,700        | 61,600        | 64,700        |                  |                     | 344,800            |
| Local Income Tax                   |               |               |               |               |               |               |                  |                     | 0                  |
| Property Tax                       |               |               |               |               |               |               |                  |                     | 0                  |
| Bonds                              |               |               |               |               |               |               |                  |                     | 0                  |
| <b>PROJECTED OPERATING IMPACTS</b> | 0             | 0             | 0             | 0             | 0             | 0             |                  |                     | 0                  |

# Cape Horn Road over Unnamed Stream

District Location: 1

Heidi K. Pepin, Senior Budget Analyst (410) 386-2082

8512

Functional Classification: Minor Collector  
 Average Daily Traffic: 1,376  
 Bridge No.: CL387



This project provides funding to replace the existing bridge located at the intersection of Cape Horn Road and Harvey Gummel Road. The existing structure is a steel beam bridge on concrete abutments. The new structure will be determined based on an alternatives analysis.

|                                    | FY 16          | FY 17    | FY 18    | FY 19    | FY 20    | FY 21    | Prior Allocation | Balance to Complete | Total Project Cost |
|------------------------------------|----------------|----------|----------|----------|----------|----------|------------------|---------------------|--------------------|
| Engineering/Design                 |                |          |          |          |          |          | 125,000          |                     | 125,000            |
| Land Acquisition                   |                |          |          |          |          |          | 4,000            |                     | 4,000              |
| Site Work                          | 26,000         |          |          |          |          |          |                  |                     | 26,000             |
| Construction                       | 260,000        |          |          |          |          |          |                  |                     | 260,000            |
| Equipment/Furnishings              |                |          |          |          |          |          |                  |                     | 0                  |
| Other                              | 86,000         |          |          |          |          |          |                  |                     | 86,000             |
| <b>EXPENDITURES</b>                |                |          |          |          |          |          |                  |                     |                    |
| <b>TOTAL</b>                       | <b>372,000</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>129,000</b>   | <b>0</b>            | <b>501,000</b>     |
| <b>SOURCES OF FUNDS</b>            |                |          |          |          |          |          |                  |                     |                    |
| Transfer from General Fund         |                |          |          |          |          |          |                  |                     | 0                  |
| Local Income Tax                   |                |          |          |          |          |          |                  |                     | 0                  |
| Property Tax                       |                |          |          |          |          |          |                  |                     | 0                  |
| Bonds                              | 372,000        |          |          |          |          |          | 129,000          |                     | 501,000            |
| <b>PROJECTED OPERATING IMPACTS</b> | <b>0</b>       | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |                  |                     |                    |

# Cleaning and Painting of Existing Bridge Structural Steel

Heidi K. Pepin, Senior Budget Analyst (410) 386-2082

9686

This project provides ongoing funding for cleaning and painting of existing structural steel. Cleaning and painting slows deterioration and extends the useful life of steel structures.

The following bridges are scheduled for cleaning and painting:

- McKinstry's Mill Road over Little Pipe Creek
- Mumma Ford Road over Monocacy River
- Winters Church Road over Little Pipe Creek
- Grimville Road over Gillis Falls
- Woodbine Road over South Branch Patapsco River

The funding amount included in each year covers engineering and 20 percent of the construction.

|                                    | FY 16         | FY 17         | FY 18         | FY 19         | FY 20         | FY 21         | Prior Allocation | Balance to Complete | Total Project Cost |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|---------------------|--------------------|
| Engineering/Design                 | 17,000        | 17,800        | 18,700        | 19,700        | 20,700        | 21,800        |                  |                     | <b>115,700</b>     |
| Land Acquisition                   |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Site Work                          |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Construction                       | 62,000        | 64,000        | 66,000        | 68,000        | 71,400        | 75,000        |                  |                     | <b>406,400</b>     |
| Equipment/Furnishings              |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Other                              |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| <b>EXPENDITURES</b>                |               |               |               |               |               |               |                  |                     |                    |
| <b>TOTAL</b>                       | <b>79,000</b> | <b>81,800</b> | <b>84,700</b> | <b>87,700</b> | <b>92,100</b> | <b>96,800</b> | <b>0</b>         | <b>0</b>            | <b>522,100</b>     |
| <b>SOURCES OF FUNDS</b>            |               |               |               |               |               |               |                  |                     |                    |
| Transfer from General Fund         | 79,000        | 81,800        | 84,700        | 87,700        | 92,100        | 96,800        |                  |                     | <b>522,100</b>     |
| Local Income Tax                   |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Property Tax                       |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| Bonds                              |               |               |               |               |               |               |                  |                     | <b>0</b>           |
| <b>PROJECTED OPERATING IMPACTS</b> | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |                  |                     |                    |





# Hollingsworth Road over Unnamed Tributary

District Location: 2

Heidi K. Pepin, Senior Budget Analyst (410) 386-2082

Proj #

Functional Classification: Rural Local  
 Average Daily Traffic: 1,114  
 Bridge No.: CL 348



This project provides planned funding to replace the existing bridge, located in eastern Carroll County near the Baltimore County line, west of Glen Falls Road. The existing structure is a steel beam bridge with a timber deck on stone abutments. The new structure will be determined based on an alternatives analysis. The structure width and waterway opening will be evaluated as part of the analysis.

|                       | FY 16 | FY 17 | FY 18 | FY 19 | FY 20   | FY 21   | Prior Allocation | Balance to Complete | Total Project Cost |
|-----------------------|-------|-------|-------|-------|---------|---------|------------------|---------------------|--------------------|
| Engineering/Design    |       |       |       |       | 230,000 |         |                  |                     | 230,000            |
| Land Acquisition      |       |       |       |       |         | 8,000   |                  |                     | 8,000              |
| Site Work             |       |       |       |       |         | 53,000  |                  |                     | 53,000             |
| Construction          |       |       |       |       |         | 530,000 |                  |                     | 530,000            |
| Equipment/Furnishings |       |       |       |       |         |         |                  |                     | 0                  |
| Other                 |       |       |       |       |         | 58,000  |                  |                     | 58,000             |
| <b>EXPENDITURES</b>   |       |       |       |       |         |         |                  |                     |                    |

|              |          |          |          |          |                |                |          |          |                |
|--------------|----------|----------|----------|----------|----------------|----------------|----------|----------|----------------|
| <b>TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>230,000</b> | <b>649,000</b> | <b>0</b> | <b>0</b> | <b>879,000</b> |
|--------------|----------|----------|----------|----------|----------------|----------------|----------|----------|----------------|

| <b>SOURCES OF FUNDS</b>    |  |  |  |  |         |         |  |  |         |
|----------------------------|--|--|--|--|---------|---------|--|--|---------|
| Transfer from General Fund |  |  |  |  |         |         |  |  | 0       |
| Local Income Tax           |  |  |  |  |         |         |  |  | 0       |
| Property Tax               |  |  |  |  |         |         |  |  | 0       |
| Bonds                      |  |  |  |  | 230,000 | 649,000 |  |  | 879,000 |

| <b>PROJECTED OPERATING IMPACTS</b> |   |   |   |   |   |   |  |  |   |
|------------------------------------|---|---|---|---|---|---|--|--|---|
|                                    | 0 | 0 | 0 | 0 | 0 | 0 |  |  | 0 |

# Stone Chapel Road over Little Pipe Creek

District Location: 3

Heidi K. Pepin, Senior Budget Analyst (410) 386-2082

Proj #

Functional Classification: Minor Collector  
 Average Daily Traffic: 4,805  
 Bridge No.: CL 363



This project provides planned funding to rehabilitate the existing bridge, located outside of Westminster, near State road MD 31. The scope of the rehabilitation will be determined during the preliminary engineering phase.

This project qualifies for Federal aid funding, which will cover 80 percent of the engineering, administrative, and construction costs.

|                       | FY 16   | FY 17 | FY 18   | FY 19 | FY 20 | FY 21 | Prior Allocation | Balance to Complete | Total Project Cost |
|-----------------------|---------|-------|---------|-------|-------|-------|------------------|---------------------|--------------------|
| Engineering/Design    | 200,000 |       |         |       |       |       |                  |                     | 200,000            |
| Land Acquisition      | 7,000   |       |         |       |       |       |                  |                     | 7,000              |
| Site Work             |         |       | 54,000  |       |       |       |                  |                     | 54,000             |
| Construction          |         |       | 540,000 |       |       |       |                  |                     | 540,000            |
| Equipment/Furnishings |         |       |         |       |       |       |                  |                     | 0                  |
| Other                 |         |       | 135,000 |       |       |       |                  |                     | 135,000            |
| <b>EXPENDITURES</b>   |         |       |         |       |       |       |                  |                     |                    |

|              |                |          |                |          |          |          |          |          |                |
|--------------|----------------|----------|----------------|----------|----------|----------|----------|----------|----------------|
| <b>TOTAL</b> | <b>207,000</b> | <b>0</b> | <b>729,000</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>936,000</b> |
|--------------|----------------|----------|----------------|----------|----------|----------|----------|----------|----------------|

| <b>SOURCES OF FUNDS</b>    |         |  |         |  |  |  |  |  |         |
|----------------------------|---------|--|---------|--|--|--|--|--|---------|
| Transfer from General Fund |         |  |         |  |  |  |  |  | 0       |
| Local Income Tax           |         |  |         |  |  |  |  |  | 0       |
| Property Tax               |         |  |         |  |  |  |  |  | 0       |
| Bonds                      | 47,000  |  | 191,600 |  |  |  |  |  | 238,600 |
| Federal Highway/Bridge     | 160,000 |  | 537,400 |  |  |  |  |  | 697,400 |

| <b>PROJECTED OPERATING IMPACTS</b> |   |   |   |   |   |   |  |  |   |
|------------------------------------|---|---|---|---|---|---|--|--|---|
|                                    | 0 | 0 | 0 | 0 | 0 | 0 |  |  | 0 |