

BUTLER COUNTY ENGINEER'S OFFICE



GREGORY J. WILKENS, P.E., P.S. BUTLER COUNTY ENGINEER

www.bceo.org

2011
Capital Improvements
Report

March 28, 2011

Board of County Commissioners
Butler County Government Services Center
315 High Street
Hamilton, Ohio 45011-2759

RE: 2011 Capital Improvements Report

Board of Butler County Commissioners:

The staff of the Butler County Engineer's Office conducts an ongoing inspection and analysis of the roads and bridges that are under our jurisdiction and make up the County system, per Section 5543.02 of the Ohio Revised Code. On the basis of these inspections and analyses, we respectfully submit to the Butler County Board of Commissioners this Report for all recommended 2011 capital improvements as of March 9, 2011. Each project listed has the direct participation of the Butler County Engineer's Office, involving some expenditure of funds and/or resources. All local construction funding and match money for State and Federal grants are BCEO funds unless otherwise specified.

We acknowledge your prior approval via resolution 1) to acquire needed rights of way and prepare plans in accordance with our recommended improvements, and 2) to proceed by Force Account, as outlined in Section 5543.19 of the Ohio Revised Code, in the maintenance, repair, and construction of roads, bridges, and culverts in Butler County during the year 2011.

This project list is subject to modification as funding allocations change and possible emergency projects arise. A continuously updated project list is maintained for public viewing on the Butler County Engineer's web site.

Very truly yours,

Gregory J. Wilkens, P.E., P.S.
Butler County Engineer

2011 PROPOSED CAPITAL IMPROVEMENTS

The following list of proposed capital improvements and general maintenance projects is compiled as of March 9, 2011. This report lists projects that will begin construction during 2011. It does not include 2010 carryover projects still under construction that were accounted for in last year's Capital Improvements Report. All local funding and match money for State and Federal grants are BCEO funds unless otherwise specified.

Bridges

State OPWC Funds

Bridge Replacement

Ross Hanover Road Bridge #00.180

PROJECT COST: \$604,946

State OPWC funds: \$344,819

Local BCEO funds: \$260,127



Bridge Replacement

Rialto Road Bridge #01.105

ESTIMATED PROJECT COST: \$550,000

State OPWC funds: \$445,000

Local BCEO funds: \$105,000



Local Funds by Contract

Bridge Rehabilitation

South Weaver Road Bridge #00.657

ESTIMATED PROJECT COST: \$250,000



Bridge Repairs

River Ridge Lane Bridge #00.170

ESTIMATED PROJECT COST: \$318,055





River Ridge Lane Bridge #00.170 - underside view, severe cracking



River Ridge Lane Bridge #00.170 - underside view, exposed rebar

Local Funds by Force Account

Bridge Rehabilitation

Four Mile Creek Road Bridge #01.876

ESTIMATED PROJECT COST: \$50,000



2 Bridge Rehabilitations of underlying pipe

Morman Road Bridge #02.086

Stahlheber Road Bridge #03.329

ESTIMATED PROJECT COST: \$30,000

2 Bridge Removals - Replace with backfill and pave

Riverside Drive Bridge #00.348

Trenton Road Bridge #00.636

ESTIMATED PROJECT COST: \$30,000

Culverts

Local Funds by Force Account

Culvert Replacements on County Roads

Augspurger Road Culvert #01.340
Augspurger Road Culvert #01.505
Augspurger Road Culvert #01.600
Augspurger Road Culvert #01.870
Fairfield Road Culvert #00.866
Fairfield Road Culvert #00.946
Fairfield Road Culvert #01.180
Fairfield Road Culvert #01.512
Garver Elliot Road Culvert #01.195
Garver Elliot Road Culvert #01.220
Hamilton Eaton Road Culvert #06.562
Okeana Drewersburg Road Culvert #00.011
Okeana Drewersburg Road Culvert #00.352
Okeana Drewersburg Road Culvert #00.834
Okeana Drewersburg Road Culvert #01.337
Okeana Drewersburg Road Culvert #01.609
Okeana Drewersburg Road Culvert #01.949
Okeana Drewersburg Road Culvert #02.216
Okeana Drewersburg Road Culvert #02.812
Okeana Drewersburg Road Culvert #02.854
Springfield Road Culvert #00.003
Springfield Road Culvert #00.831
Springfield Road Culvert #01.658
Springfield Road Culvert #03.623
Stillwell Beckett Road Culvert #07.574
ESTIMATED PROJECT COST: \$350,000



Fairfield Road Culvert #01.180



Springfield Road Culvert #01.658



Hamilton Eaton Road Culvert #06.562

Culvert Replacements on Township Roads

Bonham Road Culvert #01.059
Bonham Road Culvert #01.186
Bonham Road Culvert #01.702
Bonham Road Culvert #01.796
Buckley Road Culvert #00.657
ESTIMATED PROJECT COST: \$75,000
Materials - Oxford Township
Labor - BCEO FA



Bonham Road Culvert #01.186



Bonham Road Culvert #01.702

Intersection Improvements

Federal CDBG Funds

Intersection Improvement

Taylor School Road at U.S. 127

ESTIMATED PROJECT COST: \$107,540

Federal CDBG funds: \$107,540

Local Funds

Intersection Improvements

Stillwell Beckett Road at Morman Road

Stillwell Beckett Road at Krucker Road

ESTIMATED PROJECT COST: \$578,000



Stillwell Beckett Road at Morman Road



Stillwell Beckett Road at Krucker Road

Intersection Improvement - Install roundabout

Trenton Road at Busenbark Road and Riverside Drive

ESTIMATED PROJECT COST: \$915,000

Edgewood School District funds: \$565,000

BCEO funds: \$350,000

(BCEO funding subsidized with State OPWC 0-percent loan.)



Trenton Road at Busenbark Road



Project plan overlay

Intersection Improvement - Turn lanes

Wayne Madison Road at Augspurger Road

ESTIMATED PROJECT COST: \$250,000

Intersection Improvement - Turn lanes

Hamilton Mason Road at Highpoint Boulevard / Glenview Farms

ESTIMATED PROJECT COST: \$188,071

Funding: Assessment

Signal Installations - Warning detection flashers

Hamilton New London Road at Black Road

ESTIMATED PROJECT COST: \$20,000

Roadway Improvements

Federal Funds

Roadway Improvement - Widen to 3 and 5 lanes

Tylersville Road - Lakota Hills Drive to Wetherington Drive

ESTIMATED PROJECT COST: \$3,642,000

Federal funds: \$2,294,000

State OPWC funds: \$583,000

Local BCEO funds: \$765,000





Roadway Improvement – Widen to 5 lanes

Butler Warren Road – Tylersville Road to Bethany Road

ESTIMATED PROJECT COST: \$10,551,048

Federal funds: \$6,330,628

State OPWC funds: \$2,041,000

Local BCEO funds: \$69,210

Warren County funds: \$2,110,210

(Project in conjunction with Warren County and ODOT.)



Local Funds by Contract

Roadway Improvement – Widen existing lanes

Gilmore Road – Hamilton Mason Road to Ohio 129 overpass

ESTIMATED PROJECT COST: \$117,000

Fairfield Township funds: \$117,000

Paving

Local Funds by Contract

Resurfacing 15.3 miles of County Roads

Alert New London Road – Schradin Road to Ohio 126 (chip seal only)

Brown Road – Izaak Walton site to address #6115)

Eaton Road – Beissinger Road to Taylor School Road

Jenkin Road – South Wynn to Chapel Road (chip seal only)

Nichols Road – Lanes Mill Road to Ohio 177 (chip seal only)

South Wynn Road – Ohio 126 to Jenkins Road (chip seal only)

Stillwell Beckett Road – U.S. 27 to Ohio 177

ESTIMATED PROJECT COST: \$1,169,474

Other

Federal Funds

Regulatory and Warning Signs – Upgrades and Replacements

Various County roads

ESTIMATED TOTAL COST: \$62,500

Federal funds: \$50,000

Local BCEO funds: \$12,500

Federal Community Development Block Grant Funds

Piping and Drainage Improvements

Morgan Township – Bell Road

TOTAL COST: \$106,030

State ODNR Funds

Hike/Bike Trail Construction

Great Miami River Recreation Trail – 3rd St (Hamilton) along Hydraulic Canal and old Miami Erie Canal to Rentschler Forest MetroPark

ESTIMATED TOTAL COST: \$2,159,000

ODNR Clean Ohio Trails funds: \$500,000

Local Hamilton Community Foundation funds: \$1,659,000



Local Funds by Contract

Roadside Ditching and Embankment Improvements

Tylersville Road – just west of Smith Road

ESTIMATED TOTAL COST: \$200,000



Roadside Drainage Improvements

Hamilton New London Road – Boehm Farm Road to US 27 along SE side of road, US 27 to Indian Creek bridge along NW side of road

ESTIMATED TOTAL COST: \$350,000



Re-striping of Centerlines and Edgelines

Various County and township roads

ESTIMATED TOTAL COST: \$250,000

Funding: BCEO and townships

Local Funds – Maintenance Contract

Crosswalk construction with flashers

West Chester Road – at Lakota West High School

ESTIMATED TOTAL COST: \$20,000

Funding: To be included under existing signal maintenance contract

SUMMARY

The Butler County Engineer's 2011 Capital Improvements Report outlines approximately \$22.9 million in capital improvement projects proposed for this year. Each project listed in this Report will receive the direct involvement of the Butler County Engineer's Office (BCEO), including planning and engineering, funding, administration of the contract, and/or construction management and inspection. Where noted, the BCEO in some cases cooperates with other local agencies or private entities on a project, acting as the project administrator.

There are several projects – such as paving of township roads – that could not be added in time for this Report as they have not been finalized by their respective agencies.

This year's proposed capital improvements by the Butler County Engineer include:

Project type	Number	Total	Grant/Outside funding	Local/BCEO/County/TIF/Private
Bridges	9	\$1,833,001	\$789,819	\$1,043,182
Culverts	30	\$425,000	0	\$425,000
Intersections	7	\$2,058,611	\$107,540	\$1,951,071
Roadways	3	\$14,310,048	\$13,358,838	\$951,210
Paving	15.3 miles	\$1,169,474	0	\$1,169,474
Other	7	\$3,147,530	\$656,030	\$2,491,500
Total	56 (plus 15.3 miles paving)	\$22,943,664	\$14,912,227	\$8,031,437

The BCEO proposes to be involved with an estimated total of \$22,943,664 in construction and capital improvements projects. Road and bridge maintenance are part of the BCEO's daily operations, as are studies, planning, engineering, and design which will continue this year on many future projects. A complete list of current and future projects can be found on our web site at www.bceo.org.

Leveraged Grant Money

It is vital to note the necessity of adequate local funding to leverage outside grant funds from the State and Federal governments. Without these additional revenue sources, many of the projects listed in this Report could not be constructed.

The chart below shows a leverage ratio of approximately 5:1 BCEO funds to other sources (roadway and structural projects only). Important: The following chart is intended to compare leveraged money versus BCEO match money only within the four project categories that are roadway and structural related.

Project type	Number	Total	Leveraged funds	BCEO funds
Bridges	9	\$1,833,001	\$789,819	\$1,043,182
Culverts	30	\$425,000	0	\$425,000
Intersections	7	\$2,058,611	\$672,540	\$1,386,071
Roadways	2*	\$12,082,838**	\$11,248,628	\$834,210
Total	49	\$16,399,450	\$14,821,197	\$3,688,463

* Does not include Gilmore Road widening (Fairfield Twp funds).

** Does not include Warren County's portion of Butler Warren Road improvement. This figure is intended to show leveraged grant funds and BCEO match funds only.