



# 2013 Annual Report

## SCIOTO COUNTY ENGINEER

### CRAIG J. OPPERMAN, P.E., P.S.

Dear Citizens of Scioto County,

As we take a reflective look back at the year 2013, we are once again submitting to you our Annual Report which is prepared to inform the residents of Scioto County of the accomplishments performed by the Scioto County Engineer's Department over the previous year.

Our office continues to struggle against the diminishing Motor Vehicle and Gas Tax funding and the interest groups working to reduce the efforts and effectiveness of this County Engineer's Office and others across the state. These factors coupled with increased material costs have been working to reduce the overall quality of our road system. In an attempt to combat this the Engineer's Office has been obtaining grant funding to keep improving the county, but grants are scarce and difficult to obtain.

In 2013, the Scioto County Engineer's Office was able to obtain \$919,895.44 in Federal Highway Administration funds to apply towards the improvement of the county road system. These funds were utilized to install guardrail, place pavement markings and install higher visibility signs throughout the county. The County also received \$61,000.00 in Federal funds to hire a consultant for performing bridge load ratings and design. These \$980,895.44 in funds were able to be obtained with the County Engineer supplying no matching money.

Through the investment of \$639,229.55 of the Motor Vehicle and Gas Tax (MVGT) funds we were able to complete a total of \$1,666,820.10 in projects utilizing State Issue 1 (Ohio Public Works Commission) grant dollars which were applied for by the Scioto County Engineer's Office. These projects are vital to the improvement of our County infrastructure as exhibited in the article within this report.

The County Engineer's Office continues to assist townships with materials, engineering, grant writing and construction for township roadways and bridge projects. During 2013, the Engineer's Office cooperated in the amount of \$83,580.86 with Townships on joint projects. Through this effort our office completed projects on township roads with a combined total of \$908,785.77.

We would, once again, like to extend our appreciation to the Scioto County Commissioners for their continued confidence in our programs.

As always, the information received from the residents of Scioto County is an important part of our operations. Please continue to contact our office at 259-5541 to alert us to dangerous situations that need to be investigated.

Thank you for the opportunity to serve as your County Engineer.

Respectfully,

Craig J. Opperman, P.E., P.S.  
Scioto County Engineer



**Scioto County Commissioners**  
Mike Crabtree

Vern Riffe III

Doug Coleman

# Lick Run-Lyra Road CR002 Sight Distance Curve Project

Approximately 750' of embankment along Lick Run-Lyra Road CR002, near Clinton Furnace Road CR009, in Vernon Township was excavated and sloped back to improve the sight distance at the intersection. The roadway shoulder was widened and a new 2' wide ditch was maintained. Approximately 5,092 cubic yards of embankment was removed. The total project cost of \$29,163.32 was funded by MVGT funds.



## Diehlman Road TR116-2.73 Bridge Replacement

An existing 16' x 62'-10" steel beam bridge was replaced with a new 21' x 75' prestressed box beam bridge on Diehlman Road in Union Township. The work was performed by Ohio/U.S. Bridge, Inc., at a total cost of \$336,761.00 of which all was funded through Issue 1 grant money.



## Millers Run-Fallen Timber Road CR026-7.45 Bridge Replacement

An existing 24' x 62' steel truss bridge was replaced with a new 24' x 60' prestressed box beam bridge on Millers Run-Fallen Timber Road in Madison Township. The work was performed by DGM, Inc., at a total cost of \$246,000.00 of which all was funded through Issue 1 grant money.



### MISCELLANEOUS STATISTICS 2013 GLANCE

|                                      |                   |
|--------------------------------------|-------------------|
| Miles of County Roads Maintained     | 414               |
| Number of Bridges Maintained         | 500               |
| Pieces of Equipment Maintained       | 118               |
| Work Order Requests Completed        | 395               |
| 911 Addresses Issued                 | 95                |
| Property Transfers                   | 4,675             |
| Property Splits                      | 235               |
| Miles of Road Hot Mixed Paved        | 6.95              |
| Miles of Road Chip and Sealed        | 46.95             |
| Miles of Cold Mix Paving             | 4.78              |
| Miles of Pavement Markings           | 19.38             |
| Miles of Road Mowed                  | 2484              |
| Bridge Replacements OPWC Funds       | 3                 |
| Bridge Replacements County Funds     | 2                 |
| Bridge Deck Replacement County Funds | 1                 |
| Concrete Box Culverts Installed      | 12                |
| Concrete Box Culverts Fabricated     | 8                 |
| Concrete Pipes Installed             | 1,168 Feet        |
| Plastic Pipe Installed               | 2,543 Feet        |
| New Guardrail Installed              | 48,981.40 Feet    |
| Rebar Used                           | 120,660 Pounds    |
| Concrete Poured                      | 1,010 Cubic Yards |
| Signs Replaced                       | 820               |
| Used Equipment Purchased             | 13                |
| New Equipment Purchased              | 0                 |

# 2013 ROADSIDE SAFETY IMPROVEMENTS

Two grants totaling \$825,032.28 were received from the Federal Highway Administration for installation of guardrail. Lake Erie Construction completed the 2013 Guardrail West Project with a final cost of \$494,961.29 and PDK Construction completed the 2013 Guardrail East Project, with a final cost of \$330,070.99. Shoulder widening and road-side hazard removals were performed by County Crews to prepare sites for guardrail. The roads selected for this year's project are listed below:

## 2013 Guardrail West

Arion Road  
Big Bear Creek Road  
Cramer Road  
Henley-Comstock Road  
Henley-Deemer Road  
McDermott-Pond Creek Road  
Pollock Road  
Rarden-Hazelbaker Hill Road  
Rarden Creek Road  
Sedan-Crabtree Road

## 2013 Guardrail East

Caldwell Road  
Cockrell's Run Road  
Dace Road  
Flatwoods-Fallen Timber Road  
Lucasville-Minford Road  
Millers Run-Back Run Road  
Millers Run-Fallen Timber Road  
Morris Lane-Blue Run Road

## Cockrells Run Road



## 2013 Curve Sign Upgrade Program

This program involved replacing the county curve sign inventory with brighter, more intense signs to meet Federal Highway Administration requirements. County crews installed 280 signs along county roads. The total cost of this program was \$14,986.61 which was funded 100% through Federal Highway Administration funding.

## Big Bear Creek Road CR032-8.32 Concrete Pipe

48" x 56' Concrete Pipe Installed by County Engineer Crews.



## BRIDGE CONSTRUCTION & MAINTENANCE

The Scioto County Engineer applied for and received approval of grant monies from the Ohio Public Works Commission for three (3) bridges under the Issue I Infrastructure Program. Total replacement was done on all three (3) of these bridges for a total cost of \$821,661.00. Listed below are the relevant bridges:

| Road Name                      | Cost          |
|--------------------------------|---------------|
| Millers Run-Fallen Timber Road | \$ 246,000.00 |
| Mackletree Road                | \$ 238,900.00 |
| Diehlman Road                  | \$ 336,761.00 |

The County Engineer performed total replacement on two (2) Bridges and one (1) deck only this year at a cost of \$241,844.79 as follows:

| Road Name             | Cost         |
|-----------------------|--------------|
| Little Egypt Road     | \$ 78,724.34 |
| Ruby Road (deck only) | \$ 67,359.16 |
| Lick Run-Lyra Road    | \$ 95,761.29 |

The County Engineer Crews fabricated and installed eight (8) three sided box bridges this year at a cost of \$279,544.71 as follows:

| Road Name  | Cost         |
|--|--------------|
| Clinton Furnace Road                               | \$ 20,575.17 |
| Cox Road (Joint project with Jefferson Twp.)       | \$ 20,697.07 |
| Dry Run Road                                       | \$ 68,763.18 |
| Greenbrier Road                                    | \$ 48,938.76 |
| Lyons Road   | \$ 36,095.97 |
| Stoney Run Road                                    | \$ 32,647.96 |
| Warren Hill Road (joint project with Madison Twp.) | \$ 27,877.02 |
| Zuefle Drive (joint project with Rush Twp.)        | \$ 23,949.58 |

The County Engineer Crews purchased and installed four (4) box culverts on county and township roads at a cost of \$63,613.21 as follows:

| Road Name  | Cost         |
|--|--------------|
| Big Spruce-Little Bear Creek Road                          | \$ 14,964.82 |
| Burns Hollow-Left Fork Rd. (Joint proj. w/ Jefferson Twp.) | \$ 24,613.67 |
| Lick Run-Lyra Road   | \$ 16,660.80 |
| Turkey Foot Road   | \$ 19,468.02 |

Twenty-Six (26) deteriorated metal pipes and concrete structures were replaced with concrete pipes on county and township roads. These pipes were all replaced using County employees and equipment at a cost of \$191,756.16 as follows:

| Road Name   | Cost         |
|---|--------------|
| Allegheny Hill Road                                   | \$ 6,311.99  |
| Bennett Schoolhouse Road                              | \$ 6,523.11  |
| Big Bear Creek Road (2 pipes)                         | \$ 14,526.40 |
| Bonsor Road   | \$ 10,977.85 |
| Dry Run Road (3 pipes)                                | \$ 18,946.63 |
| Duck Run Road   | \$ 7,082.03  |
| Galena Pike   | \$ 11,080.90 |
| Great Meadow Road                                     | \$ 10,075.86 |
| Lintz Hollow Road (Joint project with Jefferson Twp.) | \$ 11,057.19 |
| Neff Bratton Road                                     | \$ 3,290.27  |
| Oakes Road (4 pipes)                                  | \$ 39,345.84 |
| Roy Rogers Road                                       | \$ 7,253.44  |
| Sedan Crabtree Road                                   | \$ 5,032.52  |
| Slab Run Road   | \$ 6,375.68  |
| Stout Hollow Road                                     | \$ 6,215.14  |
| Upper Twin Creek Road                                 | \$ 4,715.74  |
| White Gravel-McDaniel Road (4 pipes)                  | \$ 22,945.55 |

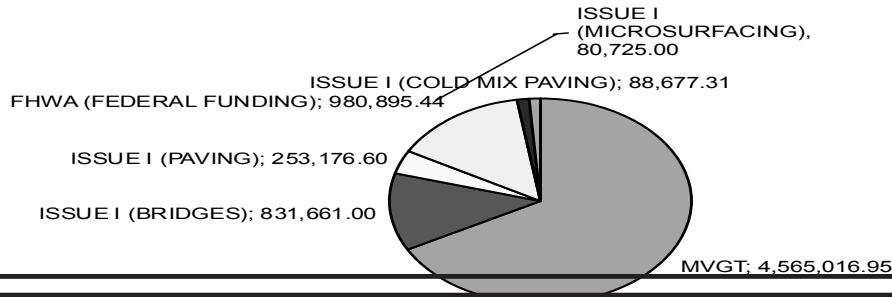
Sixty (60) deteriorated metal pipes were replaced with plastic pipes on county and township roads. These pipes were all replaced using County employees and equipment at a cost of \$129,593.11 as follows:

| Road Name                      | Cost         |
|--------------------------------|--------------|
| Bennett Schoolhouse Road       | \$ 3,713.35  |
| Big Bear Creek Road (7 pipes)  | \$ 9,891.97  |
| Big Run Road                   | \$ 1,529.19  |
| Bloom Furnace Road (2 pipes)   | \$ 3,278.58  |
| Clinton Furnace Road (2 pipes) | \$ 3,343.61  |
| Dry Run Road (4 pipes)         | \$ 6,537.65  |
| Essman Sugar Camp Road         | \$ 1,725.43  |
| Flatwood-Fallen Timber Road    | \$ 1,380.71  |
| Galena Pike (2 pipes)          | \$ 6,031.79  |
| Germany Hollow Road (6 pipes)  | \$ 8,772.47  |
| Henley Comstock Road           | \$ 31,647.48 |
| Henley Deemer Road             | \$ 2,218.80  |
| Mt. Carmel Road                | \$ 1,815.71  |
| Oakes Road (9 pipes)           | \$ 15,001.27 |
| Rarden Hazelbaker Hill Road    | \$ 2,523.78  |

## Road and Bridge Income

# \$6,800, 152.30

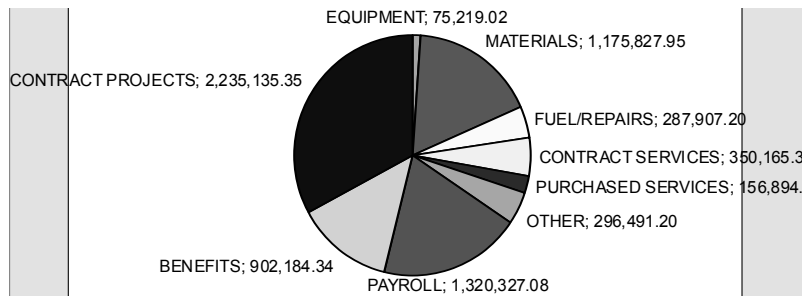
### WHERE IT COMES FROM



## Expenses

# \$6,800, 152.30

### WHERE IT COMES FROM



### Mackletree Road TR099-3.98 Bridge Replacement

An existing 20' x 52' steel beam bridge was replaced with a new 24' x 65' prestressed box beam bridge on Mackletree Road in Nile Township. The work was performed by Reiser Construction at a total cost of \$238,900.00 of which all was funded through Issue 1 grant money.



## 2013 County Resurfacing Program

The 2013 Resurfacing Program included a combination of hot mixed asphalt pavement resurfacing and chip seal pavement resurfacing on the county road system.

### The Hot Mix Asphalt Paving Program

The Hot Mix Asphalt Paving Program was awarded to the low bidder, Al-lard Excavating. The County Engineer applied for and received a grant for \$253,176.60 from the Ohio Public Works Commission. Coupled with the County Engineer's Motor Vehicle and Gasoline Tax Funds for this project's local share match, we were able to resurface 6.95 miles of county roadways for a total cost of \$506,353.20. The resurfaced roads are as follows:

| Road Name          | Miles | Cost          |
|--------------------|-------|---------------|
| Galena Pike        | 1.35  | \$ 107,779.20 |
| Swauger Valley Rd. | 5.60  | \$ 398,574.00 |

### Microsurfacing

In addition, two roads were resurfaced using microsurfacing. American Pavements, Inc., was the low bidder. The County Engineer applied for and received a grant for \$80,725.00 from the Ohio Public Works Commission. Coupled with the County Engineer's Motor Vehicle and Gasoline Tax Funds for this project's local share match, we were able to resurface 3.78 miles of county roadways for a total cost of \$161,450.00. The resurfaced roads are as follows:

| Road Name              | Miles | Cost          |
|------------------------|-------|---------------|
| Lucasville-Minford Rd. | 0.31  | \$ 13,240.61  |
| Arion Road             | 3.47  | \$ 148,209.39 |

### The Chip Seal Program

The Chip Seal Program which is an application of a liquid asphalt emulsion and cover aggregate was performed by Scioto County Engineer employees. The funding for this program is provided entirely from the Scioto County Engineer's Motor Vehicle & Gasoline Tax revenues which enabled us to chip and seal 46.95 miles of county roadways at a cost of \$449,967.12. These roads are listed below below:

| Road Name                      | Miles | Cost         |
|--------------------------------|-------|--------------|
| Arch Road                      | 0.20  | \$ 2,849.37  |
| Cathey Lane                    | 0.81  | \$ 8,682.30  |
| Cramer Road                    | 2.48  | \$ 21,911.66 |
| Edwards Road                   | 0.82  | \$ 7,082.79  |
| Henley Deemer Road             | 2.40  | \$ 23,441.18 |
| Junior Road                    | 1.16  | \$ 12,932.42 |
| Junior Furnace-Powellville Rd. | 4.00  | \$ 44,055.85 |
| Knoxel Hill-Bracken Ridge Road | 3.15  | \$ 27,742.02 |
| Mead McNeer Road               | 2.40  | \$ 26,580.44 |
| Mt. Carmel Road                | 3.10  | \$ 28,918.37 |
| Nauvoo Pond Creek Road         | 5.90  | \$ 48,235.79 |
| Rarden Creek                   | 7.18  | \$ 66,844.07 |
| Schwamberger Road              | 1.00  | \$ 10,745.30 |
| Sedan Crabtree Road            | 2.05  | \$ 19,421.87 |
| Tick Ridge-Koenig Hill Road    | 6.00  | \$ 56,279.21 |
| Woods Ridge Road               | 4.30  | \$ 44,244.48 |

### The 409 Cold Mix Paving Program

The 409 Cold Mix Paving Program was performed by Scioto County Engineer employees. The funding for this program is provided entirely from the Scioto County Engineer's Motor Vehicle & Gasoline Tax revenues which enabled us to cold mix pave 4.78 miles of county roadways at a cost of \$177,354.62. These roads are listed below below:

| Road Name           | Miles | Cost         |
|---------------------|-------|--------------|
| Oakes Road          | 2.23  | \$ 78,431.99 |
| Sedan Crabtree Road | 2.55  | \$ 98,922.63 |

### 2013 Load Rating

Jones Stuckey Ltd, Inc. of Columbus, Ohio was hired by the County Engineer's Department to conduct load ratings on 2 bridges in Scioto County. These bridges included a Smith Type Covered Timber Truss and a Polygonal Welded Steel Pony Truss. Both bridges are part of the Otway Covered Bridge Project. The total cost was \$21,000.00 of which 80% was funded through FHWA/ODOT and 20% was funded by FHWA Bridge Credits.