

Champaign County Engineer

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Remit to Address
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Champaign County Engineer 2014 Annual Report



It is with great pleasure to present the work of Champaign County Engineer's office. Whether we are keeping the roads safe during the winter season, resurfacing or repairing deteriorated roads, replacing bridges or culverts, or working on the right of way, the employees are very dedicated and hard working. Most of our man hours in 2014 were **dedicated to the maintenance** of the 239 miles of roadway and the upkeep of the right of way in the form of resurfacing, mowing, snow and ice control, ditch cleaning, trash pickup, tree cutting and road repair. **The 2014 winter was one of our coldest and busiest years.** Many overtime hours and efforts were devoted to make the roads safer for our citizens. A great deal of thanks is given to them for making 2014 a successful year. Some of our accomplishments completed this year can be found in the following report.

Funding for our office to accomplish our work comes from three main sources. The portion of the 28 cents per gallon gas tax that goes to each county **only calculates to 3.2 cents per gallon.** This **fixed amount** is based on the number of gallons sold in Ohio and generated about \$2,300,000 in 2014 for Champaign County. The fluctuating price of fuel does not change the amount we receive and this number has been stagnate for the past 7 years. The **second funding source** comes from a license plate fee which is divided between several government entities. The Engineer's office last year received just over \$1,304,000. The **third main source** of revenue is also based on the number of licenses issued in Champaign County referred to as the Permissive License Fee. This additional \$5.00 fee totaled about \$152,000 last year. Champaign County has **less funding than more populated counties** to pave our roads due to the limited number of license plates issued. With this **funding challenge**, our office has applied for additional State and Federal grants to assist in overcoming the 30 to 40% increase in material cost over the recent years. We will continue to be innovative in our ways of using this money in the most effective and efficient manner for the citizens of Champaign County.

In accordance with the Ohio Revised Code, an annual report must be made to the County Commissioners summarizing the work performed and the condition of the County infrastructure. Information about our operation can be found on our website and any questions concerning this report or comments pertaining to our work can be addresses to **our office who will be happy to serve you.**

Sincerely,

A handwritten signature in black ink that reads "Stephen McCall". The signature is fluid and cursive.

Stephen McCall P.E., P.S.
Champaign County Engineer

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2014 Road Work

Current Road centerline mileage for the County total 239.26 miles. This mileage is certified and provided to the Ohio Department of Transportation.

<p style="text-align: center;">2014 Paving Project</p> <p>In 2014 we were able to pave 2.86 miles of Valley Pike and .60 of a mile of County Line road.</p> <p>Total Cost \$ 302,587.15</p> <p>Mad River township added their portion of County Line road to our bid to save them administrative cost and to get a lower unit cost with a larger quantity.</p>	<p style="text-align: center;">2014 Resurfacing Program</p> <p>Resurfaced the roads in the Eastern portion of the County</p> <p style="text-align: center;">County Miles – 48.04 Miles Township Miles –71.67 Miles</p> <p style="text-align: center;">407,044.38 Gallons of HF-RS2P 11,945.02 Tons of #8 Stone \$969,299.04 Total Material Cost</p>						
<p style="text-align: center;">Mowing</p> <p>We made 3 single passes and 2 full width passes of mowing this year totaling 2,389 lane miles of mowing.</p>	<p>Over 119 miles of County and Township roads were chip and sealed with HF-RS2P emulsion. We are currently on a six year resurfacing rotation with our program and inspect the roads every three years to see if they need immediate attention.</p>						
<p style="text-align: center;">Pavement Marking</p> <p>68.37 Miles of Road were marked with centerline and edge line. 22 railroad crossings, 2 cross walks and 5 school zones were also painted for a total project cost of \$88,436.14</p>	<p style="text-align: center;">Road Profile and Crown Correction</p> <p>Various locations on Snapp, Runkle, Old Troy Pike, Stringtown, Sullivan, Nine Mile, and Elm Tree Road were milled and graded to help improve the ride quality and correct drainage issues.</p>						
<p style="text-align: center;">Crack Sealing</p> <p>Last year we crack sealed Ludlow, Millerstown, Hanna, Prairie, Mechanicsburg Catawba and Kite Road. The total mileage of crack sealing was 20.88 miles.</p>	<p style="text-align: center;">Sign Replacements 2012-2013 Totals</p> <p>A total of 679 road name signs were replaced requiring 788 man hours.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Material Cost</td> <td style="width: 33%;">Federal Grant</td> <td style="width: 33%;">Local Share</td> </tr> <tr> <td>\$35,376.40</td> <td>\$28,301.12</td> <td>\$7,075.28</td> </tr> </table>	Material Cost	Federal Grant	Local Share	\$35,376.40	\$28,301.12	\$7,075.28
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2014 Bridge and Culvert Work

2014 Bridge Replacement and Repair	
Location	Cost
Kennard Kingscreek Rd. BR 130-0279	\$100,877.47
Elm Tree Road BR 21-1177	\$18,994.11
Couchman Road BR 35-0213	\$90,519.91
Lantz Road BR 178-0072	\$154,094.73
County Line Road BR 117-0075	\$24,406.56
Total	\$388,892.78

2014 Culverts Replaced
<p>Per Ohio Law any structure with a span less than 10' is considered a culvert.</p> <p>The engineer's office replaced 27 structures ranging from 12"-36" diameter. Most of these replacements were completed within one day.</p>

Our annual inspection of 215 bridges has been completed and shows that overall, our bridges are in good shape. We share maintenance responsibilities with Clark County with three bridges on County Line Road and two bridges with Logan County.

2014 Bridge Inspection

General Appraisal	Condition	Number
9A	As Built	77
8A	Very Good	76
7A	Good	40
6A	Satisfactory	16
5A	Fair	5
4A	Poor	1
3A	Serious	0
2A	Critical	0
Total		215

No bridges have load restrictions. Two bridges are posted one lane (18' or less) and six are posted narrow (18' to 20').

Snow and Ice Control

<p>3,145 Tons of salt were used to treat county and township roads through the 2013-2014 winter season. Our average over the last ten years has been just over 2000 tons. Nearly 60% was used for county roads and the remaining 40% was purchased by townships and smaller incorporated villages.</p>	<p>The price per ton of salt was \$49.47 last year. This year the price has increased to \$75.72 with some bids going as high as \$115.00 per ton. Many counties and cities did not get any bids because of the salt shortage. Because of this increase alternative deicers are being tested to save money and still provide safe roadways.</p>
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Mapping and Planning

Our Office of Mapping and Planning continues to do a great job serving the public. The office answers a number of questions daily from the public in addition to their normal duties. The number of conveyances and new surveys were nearly the same as last year except for a surplus of easements relating to the Christiansburg wastewater treatment project.

<p style="text-align: center;">2014 Permits</p> <ul style="list-style-type: none"> ➤ 24 Total Requests for Driveway Permits ➤ 10 Driveway pipes were installed ➤ 21 House numbers were issued ➤ 18 Total Utility Permits Were Issued <ul style="list-style-type: none"> 9 Issued on county roads 9 Issued on township roads 	<p style="text-align: center;">Deed, Description and Survey Reviews</p> <ul style="list-style-type: none"> ➤ 478 Surveys were approved <ul style="list-style-type: none"> 39 New splits were approved 16 New attachments were approved 314 New easements were approved 110 Retracement surveys ➤ 1,866 Parcels updated on the tax map ➤ 1,889 Conveyances were reviewed
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Existing Fleet

The total miles driven by the 31 licensed vehicles was 283,770 miles last year. The 19 pieces of off road construction equipment totaled 4,372 hours of usage. We have 11 tandem trucks. The average age of our tandems is 3.5 years old with an average of 57,817 miles. Through 2014 we spent almost \$190,000 on fuel. We are currently excited about the current diesel price which could save us \$60,000 this next year. The total maintenance cost for the entire fleet and construction equipment was over \$105,000 for this year.

2014 New Equipment Purchases

<p>3-2014 Western Star Dump Truck Truck, Plow, and Dump Body \$155,000</p> 	<p>2014 Hyundai Loader \$133,615</p> 
<p>2014 Compact Track Loader \$59,000</p> 	<p>2014 Bomag Pneumatic Roller \$63,000</p> 

Financials

Projected 2014 Receipts	Projected 2014 Expenditures
<p>Gasoline Tax \$2,334,893.50 49%</p> <p>Auto License \$1,293,489.40 27%</p> <p>Miscellaneous \$ 920,078.57 19%</p> <p>Permissive Tax \$151,642.07 4%</p> <p>Interest \$ 29,612.02 1%</p> <p>Total \$4,729,715.56</p>	<p>Road Projects & Maint. \$1,877,952.38 39%</p> <p>Payroll \$1,324,344.92 27%</p> <p>Equipment & Fleet \$782,549.16 16%</p> <p>Employee Benefits \$462,263.61 10%</p> <p>Bridge & Culvert Projects \$262,158.93 5%</p> <p>Office Supplies & Operations \$121,890.72 3%</p>
<p style="text-align: center;">Additional Funding</p> <p>Federal Sign Project \$28,301.12</p>	<p>Total Expenditures \$4,831,159.72</p>