

# Champaign County Engineer

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County Engineer

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## Champaign County Engineer 2013 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 2013 were dedicated to the maintenance of the 239 miles of roadway and the upkeep of the right of way in the forms of resurfacing, mowing, snow and ice control, ditch cleaning, trash pickup, tree cutting and road repair. Many of these duties are not as visible as a newly paved road, but are very important to the safety and level of service our office provides. A great deal of thanks is given to them for making 2013 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 2013 for Champaign County. The price of fuel does not change the amount we receive and this number has been stagnate for the past 5 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 does not receive as much as larger populated counties based on the number of licenses issued. Champaign County has less funding than more populated counties to pave our roads with 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. Last year we were fortunate to receive about \$1.3 million dollars in a grant to pave several of our busiest roads and also received over \$115,000 from the Ohio Public Works Commission to help replace a bridge on Urbana Woodstock Pike. We will continue to be innovative in our ways to use 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, written over a white background.

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

Ted Black  
Superintendent  
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## 2013 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 for reporting. We made 3 single passes and 2 full width passes of mowing this year totaling 2,378 lane miles of mowing.

<p style="text-align: center;"><b>2013 Paving Project</b></p> <p>In 2013 we were able to pave Springfield Urbana Pike, Middle Urbana, Prairie, Hanna, Millerstown, Short Cut and a portion of Ludlow road totaling 17.55 miles. Funding for this project was obtained through a federal transportation grant with a percentage of local funding. The local share was paid out of the MVL fees and gas tax.</p> <p>80% Federal funding / 20% Local Share  <b>Total Cost \$ 1,251,723.05</b>                  Local Share \$ 250,344.61</p>	<p style="text-align: center;"><b>2013 Resurfacing Program</b></p> <p>Resurfaced Roads in the Center Portion of the County</p> <p>County Miles – 37.33 Miles                  Township Miles – 35.4 Miles</p> <p>277,773 Gallons of HF-RS2P                  8,801 Tons of #8 Stone  <b>\$712,950.96 Total Cost</b></p> <p><b>Over 72 miles of County and Township roads were chip and sealed with RS-2P. 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.</b></p>						
<p style="text-align: center;"><b>Pavement Marking</b></p> <p>74.50 Miles of Road were marked with centerline and edge line. Several rail road crossing, cross walks and school zones were also painted for a total project cost of \$93,848.62</p>	<p style="text-align: center;"><b>Road Profile and Crown Correction</b></p> <p>Various locations on Elm Tree, Sullivan, Upper Valley and Lippincott Road were milled and graded to help improve the ride quality and correct drainage issues. One intersection on Elm Tree and one on Sullivan were greatly improved.</p>						
<p style="text-align: center;"><b>Crack Sealing</b></p> <p>Last year we only crack sealed Powell, Stevenson and Valley Pike. The total mileage of crack sealing was 4 miles. This work will increase next year as we anticipate almost 10 miles of paved road needing attention.</p>	<p style="text-align: center;"><b>Sign Replacements 2012-2013 Totals</b></p> <p>A total of 1912 signs were replaced requiring 1687 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>\$88,311.90</td> <td>\$70,649.52</td> <td>\$17,662.38</td> </tr> </table> <p>All regulatory signs and warning signs are high intensity and meet current regulations.</p>	Material Cost	Federal Grant	Local Share	\$88,311.90	\$70,649.52	\$17,662.38
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## 2013 Bridge Work and Large Culverts

2013 Bridge Replacement	
Location	Cost
Urbana Woodstock BR 2-0663	\$163,920.82
Sheehe Road BR 148-0034	\$75,352.86
Stony Creek BR 84-0205	\$87,899.88
Slate Stone BR 133-0099	\$78,010.12
Total	\$405,183.68

2013 Large Culverts Replaced	
Location	Cost
Baker Road Cul. 48-0010	\$47,581.13
Eris Road Cul. 234-0294	\$22,082.25
Kizer Road Cul. 15-0107	\$18,778.52
Rhodes Road Cul. 87-0012	\$18,767.89
Black Road Cul. 143-0058	\$13,064.66
Total	\$120,274.45

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.

### 2013 Bridge Inspection

General Appraisal	Condition	Number
9A	As Built	76
8A	Very Good	76
7A	Good	39
6A	Satisfactory	19
5A	Fair	4
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 seven are posted narrow (18' to 20').

### Snow and Ice Control

<p>2200 Tons of salt were purchased through the 2012-2013 winter season. Our average over the last ten years has been just over 2000 tons. Nearly 60% is used for County roads and the remaining 40% is purchased by townships and smaller incorporated villages.</p>	<p>We completed a new salt barn this year giving us a storage capacity of 2400 ton of salt. Using the old salt dome, we can also store 700 tons of mixed material under roof. Prior planning will allow us to have an anticipated years worth of salt on site to avoid any shortages.</p>
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Our Office of Mapping and Planning continues to do a great job serving the public. Although the number of conveyances and new surveys are slightly lower than last year, the office answers a number of questions daily from the public in addition to their normal duties.

<p style="text-align: center;"><b>2013 Permits</b></p> <p>21 Total Requests for Driveway Permits</p> <ul style="list-style-type: none"> <li>➤ 7 Driveway pipes were installed</li> <li>➤ 21 House numbers were issued (2002 – 154)</li> </ul> <p>21 Total Utility Permits Were Issued (2003 – 116)</p> <ul style="list-style-type: none"> <li>➤ 15 Utility permits were issued on County roads</li> <li>➤ 6 Utility Permits were issued on Township roads</li> </ul>	<p style="text-align: center;"><b>MAPPING AND PLANNING DEPARTMENT</b></p> <ul style="list-style-type: none"> <li>➤ 195 Surveys were approved</li> <li>➤ 55 New splits were approved</li> <li>➤ 37 New attachments were approved</li> <li>➤ 17 New easements were approved</li> <li>➤ 86 Retracement surveys</li> <li>➤ 1503 Parcels were updated on the tax map</li> <li>➤ 1577 Conveyances were reviewed</li> </ul>
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### Existing Fleet

Currently, we have 11 tandem International 7400 trucks. The average age of our tandems is 4.7 years old with an average of 79,630 miles. The total miles driven by the 31 licensed vehicles was 253,255 miles last year. The 19 off road tractors and construction equipment totaled over 4000 hours of usage. Through 2013 we spent nearly \$130,000 on fuel, which has significantly increased over the past several years, and the total maintenance cost for the entire fleet and construction equipment was over \$77,000 for this year.

### 2013 New Equipment Purchases

<p style="text-align: center;">2013 International Dump Truck Truck, Plow, and Dump Body \$140,000</p> 	<p style="text-align: center;">2013 Volvo EC 1600 Excavator \$155,000</p> 
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### Financials

2013 Receipts	2013 Expenditures
Gasoline Tax    \$2,299,886.19    53%	Road Projects & Maint.    \$1,258,566.01    30%
Auto License    \$1,304,868.84    30%	Payroll    \$1,214,807.86    29%
Miscellaneous    \$ 534,165.92    12%	Equipment & Fleet    \$586,714.82    14%
Permissive Tax    \$151,736.76    4%	Employee Benefits    \$454,331.85    11%
Interest    \$ 29,793.56    1%	Bridge & Culvert Projects    \$314,748.78    8%
<b>Total</b> <b>\$4,320,451.27</b>	Office Supplies & Operations    \$203,512.00    5%
 	Facilities    \$115,164.10    3%
<b>Additional Funding</b>	<b>Total Expenditures</b> <b>\$4,255,142.77</b>
Federal Paving Project    \$1,001,378.44	
Federal Sign Project    \$25,271.07	
OPWC Funding    \$131,433.20	