

Champaign County Engineer

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Champaign County Engineer 2015 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 2015 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 2014-2015 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 2015 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 state 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. The permissive fee will be increased \$10.00 per plate in 2016 and will help overcome the material and construction cost increases over the last 20 years. This will add approximately \$300,000 to our funding resources. 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 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 addressed to **our office who will be happy to serve you.**

Sincerely,



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

Mike Knotts
Superintendent
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2015 Road Work

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

<p>2015 Paving Project</p> <p>In 2015 we were able to reconstruct and pave 3.27 miles of Dallas Road. Hensley Inc. performed the cement road stabilization and A & B Asphalt paved the road. Total Cost \$ 532,807.80</p>	<p>2015 Resurfacing Program</p> <p>Various roads in the western portion of the county were chip and sealed.</p> <p>County Miles – 28.76 Miles Township Miles –66.84 Miles</p> <p>383,079 Gallons of HF-RS2P 11,036 Tons of #8 Stone \$886,069.97 Total Material Cost</p> <p>Over 95 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>Mowing</p> <p>We made 3 single passes and 3 full width passes of mowing this year totaling 2,942 lane miles of mowing.</p> <p>Our mowing cost for 2015 was \$62,701.19.</p>	
<p>Pavement Marking</p> <p>150.32 Miles of Road were marked with centerline and edge line. 10 railroad crossings, 2 cross walks and 5 school zones were also painted for a total project cost of \$166,558.11.</p>	<p>Road Profile and Crown Correction</p> <p>Various locations on Urbana Woodstock Pike, Cable Road, Old Troy Pike, Millerstown Eris, Helltown and Possum Hollow Roads were milled and graded to help improve the ride quality and correct drainage issues.</p>
<p>Crack Sealing</p> <p>Last year we crack sealed Pisgah, Powell, Friend, St. Paris Jackson, Zimmerman, Heck Hill, Christiansburg Jackson, Apple, Mt. Tabor and Hickory Grove. The total mileage of crack sealing was 22.17 miles.</p>	<p>Petition Ditches</p> <p>Champaign County has 14 petition ditches that are under county maintenance. We mowed and sprayed approximately 23 miles of ditch, repaired a few tile and cut several trees.</p>

Snow and Ice Control

<p>1,383 tons of salt were used to treat county and township roads through the 2014-2015 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>With the potential supply shortage, we conserved the salt by using a 3:1 grit to salt mixture to treat the roads. The 2015 winter salt price was \$70.05 per ton. Many counties and cities also had a summer salt bid to fill the barns so they would have salt at the start of winter. Champaign County received a bid of \$70.15 per ton for 1000 tons of salt to insure a full supply for the winter.</p>
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2015 Bridge and Culvert Work

2015 Bridge Replacement and Repair	
Location	Cost
McAdams Road BR157-0033	\$227,754.00 Total \$189,035.82 OPWC \$38,718.18 County
Dellinger Road BR 120-0049	\$199,389.36 Total \$167,487.06 OPWC \$15,951.17 County \$7,975.57 City of Urbana \$7,975.57 Salem Twp
Total	\$427,143.36

2015 Culverts Replaced

Per Ohio Law any structure with a span less than 10' is considered a culvert.

The engineer's office replaced 38 structures, of which, 16 were larger than 36" and 22 were between 12"-36" diameter. The largest culvert replaced was a 60"x 80' HD plastic on Degraff road.

Our annual inspection of 213 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.

2015 Bridge Inspection

General Appraisal	Condition	Number
9A	As Built	79
8A	Very Good	77
7A	Good	39
6A	Satisfactory	16
5A	Fair	2
4A	Poor	0
3A	Serious	0
2A	Critical	0
Total		213

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

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 performed in 2014. The Conveyance Standards were updated from 2001 and went into effect December 1, 2015.

<p style="text-align: center;">2015 Permits</p> <ul style="list-style-type: none"> ➤ 25 Total Requests for Driveway Permits ➤ 10 Driveway pipes were installed ➤ 19 House numbers were issued ➤ 19 Total Utility Permits Were Issued <ul style="list-style-type: none"> 14 Issued on county roads 5 Issued on township roads 	<p style="text-align: center;">Deed, Description and Survey Reviews</p> <ul style="list-style-type: none"> ➤ 218 Surveys were approved <ul style="list-style-type: none"> 64 New splits were approved 35 New attachments were approved 15 New easements were approved 104 Retracement surveys ➤ 1,873 Parcels updated on the tax map ➤ 1,862 Conveyances were reviewed 112 Sheriff Deeds
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Existing Fleet

The total miles driven by the 33 licensed vehicles was 254,734 miles last year. The 21 pieces of off road construction equipment totaled 4,532 hours of usage. We have 11 tandem trucks. The average age of our tandems is 5.09 years old with an average of 67,815 miles. Through 2015 we spent almost \$130,000 on fuel. The total maintenance cost for the entire fleet and construction equipment was over \$122,000 for this year.

2015 New Equipment Purchases

<p>1970 Bomag Reclaimer \$30,000</p> 	<p>2015 Limb Beaver \$19,900</p> 
<p>2015 Durapatcher \$56,673</p> 	<p>129 South Oakland St.</p> 

Financials

Projected 2015 Receipts			Projected 2015 Expenditures		
Gasoline Tax	\$2,355,836.56	50%	Road Projects & Maint.	\$2,040,002.53	41%
Auto License	\$1,326,575.04	28%	Payroll	\$1,306,547.74	27%
Miscellaneous	\$ 854,939.60	18%	Equipment & Fleet	\$577,817.32	12%
Permissive Tax	\$159,972.86	3%	Employee Benefits	\$470,673.12	10%
Interest	\$ 29,801.75	1%	Office Supplies & Operations	\$432,364.56	8%
			Bridge & Culvert Projects	\$ 73,781.82	2%
Total	\$4,727,125.81		Total Expenditures	\$4,901,187.09	