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Brown County Engineer

# 2007 Brown County Engineer's Annual Report



March 2008

## Brown County Engineer's Office

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## The Year in Review...

To the citizens and Honorable Board of Commissioners of Brown County, Ohio:

I am pleased to present the Brown County Engineers 2007 Annual Report for your review.

During 2007, the Brown County Engineer's Office administered construction and maintenance projects totaling over \$2.2 million.

Five bridges were replaced in 2007, totaling \$603,292.00. They were on Stringtown Road in Huntington Township, Mefords Run Road in Huntington Township, Bardwell West Road in Sterling Township, Bodman Road in Sterling Township and Hartman Road in Union Township. The County received \$273,561 from the Ohio Public Works Commission (OPWC) for the Mefords Run Road Bridge. The project was advertised for bids and Cooper Excavating, LLC was awarded the contract. The project was completed in early 2007. The other projects were completed using county forces.

The Brown County Engineer's Office works closely with all of the Township Trustees throughout the county to replace the deficient culverts on all of the township roads as well as the culverts on our county roads. Our crews replaced 61 culverts in 2007 for a total of \$159,909.

Seven roads, approximately 17.2 miles, were resurfaced with asphalt concrete hotmix and bermed. The resurfacing was advertised for bid and the contract was awarded to Brown County Asphalt. The total cost for the resurfacing was \$788,868.80. The berming was completed using county forces at a cost of \$52,148.75.

Eighteen roads totaling 50.2 miles were sealed using county forces at a cost of \$345,435.44.

Other projects included the widening of Jimmie Van Thompson Road in Clark and Pike Townships for a total cost of \$68,304.92. All of the 17.2 miles of hotmix and most of the 50.2 miles of sealed roads were lined for a total cost of \$61,236.78. A roadside repair project was completed on White Oak Valley Road at a cost of \$14,524.74. Herbicidal Spraying was completed on the guardrail on all of our county roads at a cost of \$11,097.13.

Also, the Engineer's Office purchased some new equipment in 2007. Two tandem International dump trucks were purchased on state bid totaling \$204,626, a shop truck, tar distributor and a fork lift were some of the other items. All totaled we spent \$410,910.50 on new equipment in 2007.

The Brown County Engineer's Office also launched the GIS web site in May of 2007. On the website you can:

- Search parcel owner information
- View detailed maps of properties in Brown County
- View a scanned image of the recorded survey
- Utilize direct property record links to auditor & recorders pages
- View color aerial photography from 2004
- View soils maps
- View roads & bridges
- View scanned images of tax maps
- View school districts
- View current village corporation limits

All listed above and more is available at... [www.browncountygis.com](http://www.browncountygis.com)



Brown County, Ohio

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## Looking Forward.....

A quality based consultant selection process was performed in 2007 for the design of the bridge replacement project on White Oak Valley Road as well as the bridge replacement project on Skiffsville Road. We were already under contract with a design firm for the Tri-County Highway bridge replacement project prior to 2007 and we look forward to nearing a construction date for all three of these projects in 2008.

Looking forward, the Engineer's Office has high expectations for this year. We plan to replace eight bridges in 2008. Six of the bridges will be replaced by county forces while the other two will be advertised for bids, one of which will be partly funded by OPWC. We plan to resurface approximately 24.9 miles of roads with asphalt concrete hotmix. We also plan to widen approximately 12.2 miles of roads.

We appreciate you taking the time to review this annual report. If you would like to learn more about the report and stay up to date on our current projects please visit our website [www.browncountyengineer.org](http://www.browncountyengineer.org)

Sincerely,

Todd Cluxton  
Brown County Engineer



## Tax Map Summary

<b>Total Property transfers...</b>	<b>2,375</b>
New surveys	80
Splits over 5 acres	45
Splits under 5 acres	60
Re-plats (lots)	43
Road vacations	1
Major subdivisions *	4
2 in township	
2 in village	
Annexations**	7
<b>Total Plats filed.....</b>	<b>240</b>

\*28 new major subdivision lots created  
 \*\*52 village parcel accounts created

### Un-recorded Plats reviewed in 2007

Annexations	4
Replats	9
8 in township	
1 in village	
Subdivisions	1
Condominium	1
11 x 17 plats checked	77
68 in township	
9 in village	

## Brown County 2007 Road Atlas

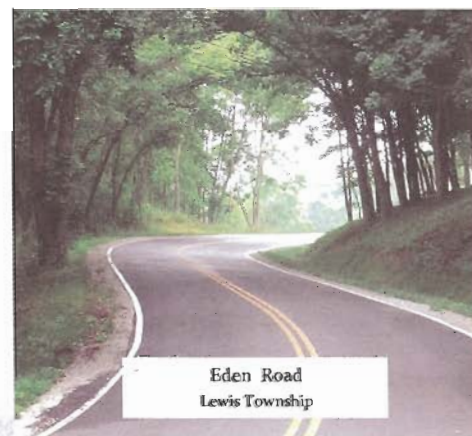
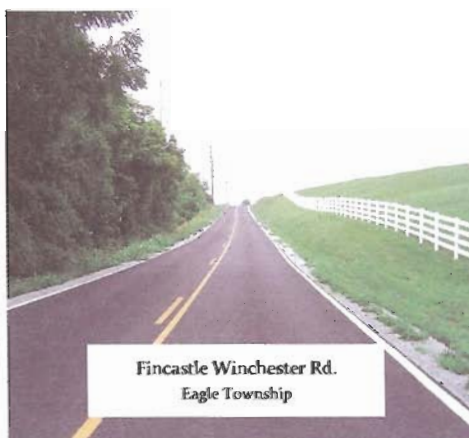


Publisher: Engels Guide Inc.  
 Price: \$4.00  
 18 map pages  
 26 pages total  
 5,000 copies printed  
 Available for re-sale

## Highway Maintenance...

### 2007 Paving Summary

Road No.	Road Name	Mileage	Cost
C-11	Barker Road	1.188	\$62,736.55
C-18	Eden Road	4.812	\$225,045.98
C-23	Fincastle Winchester Road	<b>2.754</b>	\$120,917.88
C-32 & C-37	Camp Run Road	3.143	\$146,739.39
C-95	Stivers Road	1.183	\$53,158.4
C-97	Tamme Road	1.580	\$70,337.58
C-170	Tibbe Road	2.507	\$109,933.02
<b>Totals</b>		<b>17.167</b>	<b>\$788,868.80</b>



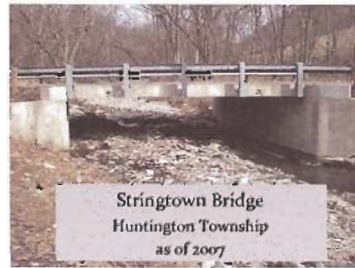
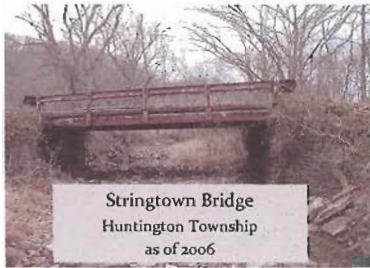
### 2007 Seal Coat Summary

Road No.	Road Name	Mileage	Cost Estimate
C-3a	Ripley Day Hill Road	4.245	\$30,745.78
C-3b	Day Hill Arnheim Road	5.648	\$36,355.25
C-4a	Free Soil Road	4.686	\$31,577.98
C-15 & C-77a	George Miller Road	3.446	\$22,056.86
C-17a & C-94	Delhi Arnheim Road	4.207	\$27,467.28
C-17b & C-27a	Ash Ridge Arnheim Road	5.051	\$37,486.8
C-17c	Schwallie Road	0.806	\$5,925.67
C-43a	Shinkles Ridge Road	4.008	\$24,008.58
C-48	Anderson State Road	3.75	\$26,730.52
C-66b	Steinman Road	2.264	\$13,560.46
C-72	Oak Woods Road	3.493	\$25,783.78
C-73	Goose Run Road	1.831	\$13,808.36
C-82	Five Points Fincastle Road	3.073	\$23,168.92
C-306	Suck Run Road	1.484	\$10,647.74
C-235	Hickory Ridge Road	1.049	\$9,084.50
C-307	Old A & P Road	1.139	\$7,026.96
<b>Totals</b>		<b>50.18</b>	<b>\$345,435.44</b>



### 2007 Bridge Replacement Summary

Bridge No.	Road Name	Type	Cost	Notes
T-251.0236	Stringtown Road	Bridge	\$59,909.00	
T-248.0001	Meffords Run Road	Bridge	\$369,765.00	\$96,204.00 County's share
C-6.0050	Bardwell West Road	Box Culvert	\$71,753.00	
C-87.0067	Bodman Road	Box Culvert	\$37,722.00	
T-231.0254	Hartman Road	Bridge	\$64,143.00	
<b>Totals</b>			<b>\$603,292.00</b>	<b>\$329,731.00 Total Cost to County</b>

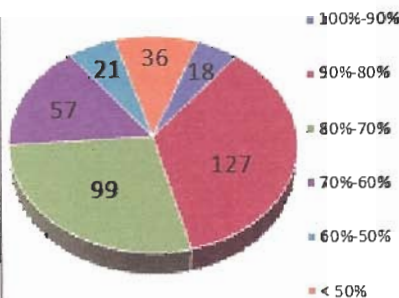


Brown County's 5,000 ton salt dome.

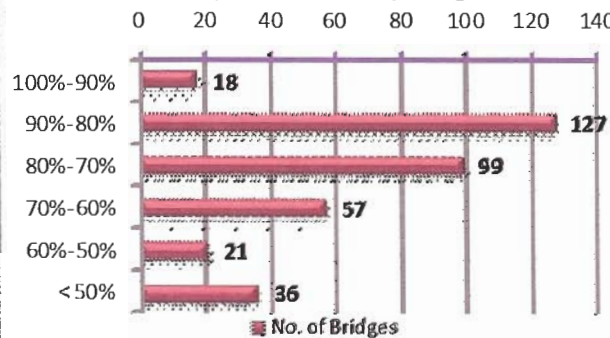


2007 International 20 ton Dump Truck. One of two purchased this year replacing two trucks from 1988.

### Sufficiency Rating\*



### Sufficiency Rating Percent \*/ Bridge Bar Chart



The "sufficiency rating" is an ODOT required index of road conditions that serves as a baseline over time for the following road attributes:

- Pavement conditions
- Bridge conditions
- Geometric Adequacy
- Accident Rates

### Equipment in action...



Gradall excavator at work on Gardner, Mobley, and Myers Roads this past summer in preparation for a widening and resurfacing program funded by an OPWC grant.

## Facts & Figures...

#### 2007 Equipment

Tandem Dump Truck	\$102,313.00
Tandem Dump Truck	\$102,313.00
Shop Truck	\$22,186.50
Tar Distributor	\$24,995.00
Tool Box	\$6,073.50
Fork Lift	\$24,961.50
Loader	\$128,068.00
<b>Total</b>	<b>\$410,910.50</b>

#### 2007 Revenue

Motor Vehicle Tax	\$1,553,662.00
Gas Tax	\$2,396,839.00
Fines	\$22,069.00
Reimbursements	\$35,358.00
Interest	\$270,098.00
Misc.	\$6,338.00
<b>Total</b>	<b>\$4,574,964.00</b>

#### 2006-2007 Winter Snow Removal

Salt Used	\$73,800.00
Ash Used	\$13,950.00
Hours	\$53,141.80
<b>Total</b>	<b>\$140,891.80</b>

#### 2007 Expenses

Diesel & Gas	\$188,380.67
Generator	\$24,999.00
Office large format copier / scanner	\$24,689.00
Salt (2,045.51 Ton)	\$88,603.56
Utility Repair	\$3,395.12
Utilities	\$48,252.25
Salaries	\$1,063,199.61
Insurance	\$223,159.02
<b>Total</b>	<b>\$1,664,678.23</b>

#### 2007 Miscellaneous...

Line striping	\$61,236.78
Herbicide Spraying	\$11,097.13
White Oak Valley Slip	\$44,524.74
Liming Van Thompson Rd.	\$68,304.92
Widening	
<b>Total</b>	<b>\$155,163.57</b>



250 Decals  
Price: \$3.73 a piece  
1.4" Diameter  
Placed on all road maintenance vehicles.

## Brown County Engineer's Office

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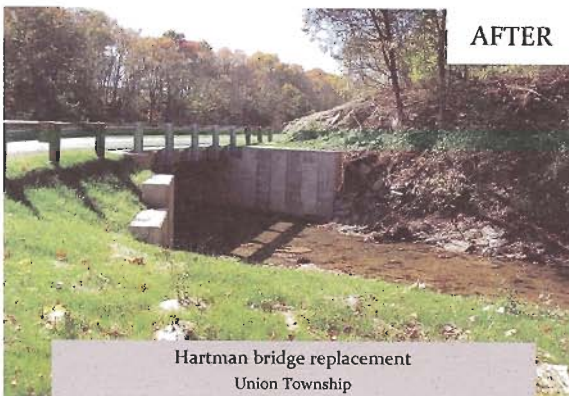


**BEFORE**

Beginning in the Spring of 2007 the Brown County bridge maintenance and replacement crews began construction of Hartman Road and Meffords Run bridges. Utilizing the new county facilities to pre cast the bridge decks the previous winter the county engineer's office was able to complete five bridge and box culvert replacements last summer.

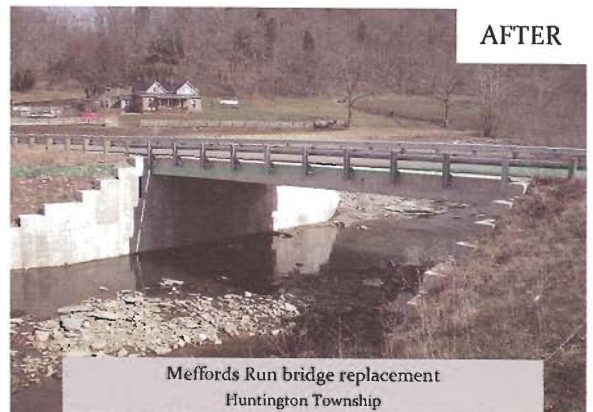


**BEFORE**



**AFTER**

Hartman bridge replacement  
Union Township



**AFTER**

Meffords Run bridge replacement  
Huntington Township