



# The Orange Brigade



Winter 2010

Logan County Engineer's Office

Volume 36



From the desk of the  
Logan County Engineer,  
Scott C. Coleman, P.E., P.S.

Greetings:

The Logan County Engineer's Office has been aggressively seeking grant funds to supplement our regular funding and sales tax funding. The James K. Cox Bridge, bridge 63-2.63, 2009 pavement marking program, 2009 federal aid and OPWC paving, 2009 guardrail replacement, and 3M sign facing grants totaled \$5,665,174.96 of grant funding to the Logan County Engineer's Office. We also acquired \$147,961.35 of OPWC grant funding for the 2009 Township and Village paving programs.

Unfortunately, the \$51,000,000.00 of grant applications for resurfacing county, township, and municipal roads through the American Recovery and Reinvestment Act were not funded.

For 2010, we have received approval of up to \$127,350.00 for the update of the Location Based Response System and Sign Upgrades. We have also received approval of up to \$88,211.00 of grant funding for Pleasant Township Road 33 widening. We will continue to apply for additional grants throughout the year.

Sales tax revenue was down 10 percent in 2009. Motor vehicle fuel tax revenue was down 4 percent and automobile registration fees were down 2 percent in 2009. Despite a glum outlook for our revenue, we have completed the 2010 bridge replacement schedule and resurfacing plan. We have also completed a tentative resurfacing plan for 2011 through 2015. These plans and press releases are posted on our website <http://www.co.logan.oh.us/engineer/index.html>.

Beginning in 2005, the Logan County Engineer's Office has relinquished a portion of our general revenue funding,

which is provided by the County Commissioners, in order to help the general fund departments continue to operate during these tight financial times. The general revenue funds that the County Commissioners provide to this office have been dedicated to bridge replacements and to pay the debt for the Highway Garage that was built in 1994. Since 2005, the Logan County Engineer's Office has surrendered \$661,443.07 for the benefit of the general fund departments of the County.

The snow and ice season has descended upon us once again. We have just begun to come out of several days of a very cold spell and most of the snow accumulation has melted. We have had snow, freezing drizzle, and drifting to deal with this season. We continue to work hard to treat the roads appropriately for each storm. So far this season, we have worked 994 hours of regular time and 389 hours of overtime to treat the county highways. We have used 1,830 tons of mixed salt and grit. Our total cost of labor, equipment, and materials for snow and ice control is \$138,711.01 and counting. Please remember the Ohio Department of Transportation winter slogan "ice and snow...take it slow". See their website for winter driving tips and links to traffic conditions.

<http://www.dot.state.oh.us/Services/Pages/IceandSnowInformation.aspx>

Census 2010, coming soon. This coming March, every household should receive a 2010 census form. The census forms should be completed and mailed back by April 1, 2010. If forms are not completed, census takers will visit homes in April through July. Recent estimates have indicated that for every person we lose in not counting them, it costs \$2,000 to \$3,000 to the local community. For additional information on the 2010 census, please visit their website:

<http://2010.census.gov/2010census/>.

Sincerely,

Scott C. Coleman, P.E., P.S.  
Logan County Engineer

## 2009 & 2010 Bridge Program

*By: Bryan Dhume, P.E., Assistant Engineer*

During 2009 the Logan County Bridge Crew completed the replacement of seven bridges in the county. Three (3) of these structures were prestressed box beam bridges on capped pile concrete abutments; one (1) was a steel beam bridge consisting of reused steel beams on capped pile concrete abutments designed for future prestressed box beams, and three (3) structures were large four (4)-sided concrete box culverts. Four (4) of the bridges (T.R. 164-1.75, T.R. 164-2.10, T.R. 56-5.09, and T.R. 181-0.80) replaced those that could not be crossed by school buses. One of the bridges (T.R. 56-5.09) was completed in cooperation with a township to correct a serious roadway deficiency near the bridge approach. Additionally, two bridges, C.R. 63-1.38 and C.R. 63-2.63, were replaced by contract using federal funding. All of the replacements were major improvements to the roads they carry.

We are currently completing the 2010 annual inspections of all 300 bridges in Logan County and will be finished by March. Our office will then use these inspection reports to finalize bridge replacements for 2011 and minor bridge repairs for 2010. After many years of an aggressive bridge replacement program, our office is starting to see a decline in the overall number of bridges that need replaced. However, timely maintenance and repairs is becoming more important to maintain their good condition.

Bridge replacements and repairs take the combined efforts of both the Highway Department and Engineer's Office staff, in addition to the patience of the traveling public. Listed below are the bridges replaced in 2009 and the bridges scheduled for replacement or major repair in 2010.

### **Bridges Replaced 2009:**

T.R. 164-2.10 (Monroe Twp.)  
T.R. 164-1.75 (Monroe Twp.)  
T.R. 56-5.09 (McArthur Twp.)  
C.R. 270-0.65 (Stokes Twp.)  
C.R. 270-1.46 (Stokes Twp.)  
T.R. 181-0.80 (Jefferson Twp.)  
T.R. 91-1.45 (Washington Twp.)  
C.R. 63-1.38 (Miami Twp.)  
C.R. 63-2.63 (Miami Twp.)

### **Bridges Scheduled for 2010:**

C.R. 142-0.88 Replacement (Perry Twp.)  
T.R. 216-1.16 Replacement (Joint project with city of Bellefontaine)  
C.R. 26-2.68 Replacement (Rushcreek Twp.)  
C.R. 64-0.00 Fascia beam replacement (Miami Twp., Joint project with Champaign Co.)  
C.R. 88-0.19 Deck replacement (Stokes Twp.)  
C.R. 13-1.56 Floor beam hanger replacement (Washington & Bloomfield Twps.)  
C.R. 38-0.29 Floor beam hanger replacement (Richland Twp.)  
C.R. 105-0.24 Replacement (Richland Twp.)  
C.R. 39-6.80 Repair beams (Richland Twp.)  
C.R. 97-0.76 Repair and paint beams, replace deck (Richland Twp.)  
C.R. 4-2.15 Replacement (Miami Twp.)



# TARGET SAFETY...

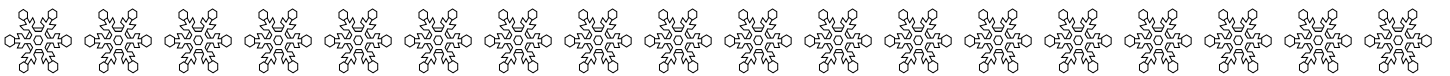


By: Todd Bumgardner, Engineering Technician 2

The Safety Committee reorganized in June of 2009. Don Phipps (Traffic Control Superintendent), Shane Long (Highway Worker 3), Jeremy Burrey (Highway Worker 3), and I currently serve on the committee. Starting in July, the Logan County Engineer's Office has held monthly safety meetings. Each of the topics covered to date were submitted by department superintendents. We have had guest speakers including Matt Stonerock from the Logan County Health Department discussing H1N1 and seasonal flu as well as the Bellefontaine Fire Department with a practical demonstration on the use of fire extinguishers. Our own Don Phipps and John Berry (Head Mechanic) have presented on first aid and winter driving safety, respectively.

The Safety Committee has played a hand in getting many purchases including: an extension ladder, a fall protection kit, 6 new safety fueling cans, equipment washing PPE and safety lifting chains. Between June 2009 to January 2010, new safety purchases have totaled \$3,604.11. The group has assisted in assessing site safety concerns, installing new safety belts, purchasing equipment control cabling, and fueling nozzles. The group also assisted in oversight of the annual first aid kit replacements and fire extinguisher inspections.

The goal of the Safety Committee is to help bring ideas and raise awareness of safe work practices. Our focus is on completing our duties by using safe work practices and watching out for our co-workers to ensure that everyone goes home to their families safe and sound. As of January 22, 2010, we have completed 137 work days without an injury accident totaling over seven (7) months of construction operation.



## SAFE WINTER DRIVING

- Keep your vehicle maintained
- Clean your vehicle of snow and ice
- Allow extra time to reach your destination
- Increase available braking distance
- Listen to local radio for updates
- Follow the weather forecast
- Keep emergency supplies in your vehicle
- Don't crowd the plow

For in-depth information on winter driving tips, visit this ODOT website:

<http://www.dot.state.oh.us/Services/Pages/IceandSnowInformation.aspx>



## **THE SPIRIT OF GIVING**

Once again, the generosity of the staff at the Logan County Engineer's Office, Map Room, Highway Department and the family of Mark Dearwester (Routemarker 2) made a difference in the lives of three children in need in Logan County. With donations, we were able to provide each child with: complete outfits, pj's, undergarments, all the items on their Christmas lists, and stockings full of goodies.

## **"A SPECIAL THANK YOU TO HEARTLAND OF BELLEFONTAINE"**

The staff at this fine local nursing home generously donated boxed lunches for all the Logan County Highway Department in recognition of their service and long hours clearing the roadways this winter season. The meals were delivered to the garage and were enjoyed by all the employees. Their kindness and thoughtfulness was greatly appreciated!

## **"The Survey Says...."**

By: *Curt Dill, P.S.*  
*Chief Deputy Surveyor*



As this new year begins, we are going to try to implement a control point densification program here in Logan County. We are going to run this jointly with our bridge replacement program. As a new bridge is constructed, we will install a control point somewhere on the bridge abutment. These control points will be two inch diameter domed brass discs set in the bridge abutment where they are easily accessible. Bridges that have been built in the last year or two will also be used to densify the network. Information about these points will be kept here at our office. These points will be identified by using the bridge number of the bridge they are set on. These points can be used by the surveying community to benefit the citizens of Logan County. Have a great 2010!

## ***"Traffic on the Move"***

By: *Don A. Phipps*  
*Traffic Control Superintendent*

The Traffic Department was very busy in 2009. We monitored two federal projects. First was the Guardrail Project which involved the installation of 15,843.25 feet of new guardrail with steel posts. The project was awarded to Lake Erie Construction Company from Norwalk, Ohio. The second federal aid program was the Pavement Marking Project. DuraMark, Inc. from Streetsboro, Ohio was awarded the bid which involved 349.15 miles of pavement marking throughout the county. Both companies did an outstanding job for Logan County.

The traffic crew also used over 14 gallons of white traffic paint and 140 pounds of glass beads for school zone marking on 7 county roads. The marking of railroad crossings utilized 41 gallons of white traffic paint and 410 pounds of glass beads on 17 county roads.



## **"Mapping Matters"**

### **Notes from the Map Room Staff**

By: *Suzie Yoesting*  
*Tax Map Draftsperson 2-Supervisor*

As 2010 begins the Map Room staff has stayed quite busy. The auction and sale of Crown Credit Company's 900 acres tract near the Bellefontaine Airport brought about much discussion and work for the Map Room. The new surveys splitting the tract into eight new parcels required an entire week to complete the review process. After numerous correspondences with the surveyor, multiple attorneys, title searchers, the auditor's office and city planning commission, the project was finally completed six weeks later when the final deed was recorded.

In addition to keeping up with daily duties, Tax Map Draftsperson, Jayma Burkhammer, has been updating the incorporated and unincorporated boundaries of Logan County for the U.S. Census Bureau. Using data from our GIS program, Jayma has integrated our information into the Census Bureau's program to digitally and more accurately update these boundaries. Until now the changes were made by hand on paper copies of an irregular or undetermined scale making it difficult to make accurate updates. As technology advances so does the manner in which the Map Room performs their duties.



## 2009 COMPLETED PROJECTS

<u>Project</u>	<u>Contractor</u>	<u>Funding</u>	<u>Description</u>	<u>Cost</u>
County OPWC Paving	The Shelly Company	OPWC & Sales Tax	19.80 Miles	\$ 1,241,305.00
County Federal Aid Paving	The Shelly Company	Federal Aid & Sales Tax	26.92 Miles	\$ 2,007,343.19
County OPWC Paving	The Shelly Company	OPWC & Sales Tax	3.90 Miles	\$ 236,100.04
Village OPWC Paving	Freisthler Paving, Inc.	OPWC & Village Funds	1.72 Miles	\$ 135,694.53
Township OPWC Paving	The Shelly Company	OPWC, TST & TF	11.44 Miles	\$ 724,303.93
County Pavement Marking	Dura-Mark, Inc.	Federal Aid Funding	349.15 Miles	\$ 156,203.69
County Guardrail Replacement	Lake Erie Constr.	Federal Aid Funding	14,112 Feet	\$ 220,925.56
<b>TOTAL</b>				<b>\$ 4,721,875.94</b>

OPWC = Ohio Public Works Commission Funding  
TST = Township Sales Tax  
TF = Township Funds

### County Road 63 Bridge Projects

*By: Todd Bumgardner, Engineering Technician 2*

**Bridge 63-1.38** spanning the railroad tracks just east of Quincy opened to traffic after the dedication ceremony held June 18, 2009. The bridge was dedicated to former county engineer, Jim Cox of Quincy, for his years of service to Logan County and the Ohio Department of Transportation. All involved with the construction of this project should be congratulated on the quality final product.

With 90% federal funding, billings from Miller Brothers Construction to Logan County for the completed construction were \$250,393.89. Federal funding also allowed the Logan County Engineer's Office to invoice for construction administration. The total of the federal reimbursed expense for Logan County's construction administration was \$50,383.70. Throughout the construction both the contractor and Logan County aided in controlling the cost of the project. The hard work of both sides allowed the sum of Change Order increases to be 0.58% of the original contract. Negotiations for final payment to CSX for construction flagging operations are in progress.

**Bridge 63-2.63** over Stony Creek west of DeGraff was completed in late August of 2009. The Righter Construction Company of Columbus, Ohio was the contractor. The work began by placing concrete caps atop the existing abutment and piers originally constructed in the late 1930's. While soundness of the existing pier and abutment foundations proved to be a cost and time saving benefit to Logan County, using the existing foundations also provided a new challenge. With the concrete caps and adding a fourth steel beam to the structure for redundancy, the overall bridge weight became a factor. To overcome this, we required the design and placement of a lightweight high strength concrete deck.

While at first glance this bridge does not "wow" the passing motorist, it utilized many cost saving methods and innovative products. The 1930 foundations along with the newly fabricated galvanized steel beams and composite lightweight concrete deck with an epoxy waterproof wearing course will provide Logan County with a quality bridge that will outlast the original.

With 80% federal funding, billings to Logan County for the completed construction will be \$151,647.70. The total of the federal reimbursed expense for construction administration was \$22,155.67. Deducts taken partly due to the construction delays and credits for non-performed work allowed the project to be completed at 5.31% under budget.

## Employee Birthdays

### **"HAPPY BIRTHDAY"**

#### January

Matt Archer  
Todd Bumgardner  
Harvey Grimes

#### February

Jayma Burkhammer  
Carolyn Grimes  
Michael Reffitt

#### March

John Berry  
Michaela Brunke  
Sam Ragland  
John Spencer

#### April

Mark Hilty  
Bob Simmons  
Suzanne Yoesting

#### May

Shirley Brunke  
Scott Coleman  
Dianne Gauder  
Jim Logan  
Dan McMillen  
Joel Miracle

#### June

John Cummins  
Curt Dill  
Keith Price  
Lisa Stover

#### July

Steven Tracey

#### August

Larry Artis  
Jeremy Burrey  
Elliott Fullerton  
Jon Hines  
Curtis Hites

#### September

Rick Archer  
Bryan Dhume  
Greg Kennaw  
Jason McKee

#### October

Todd Coleman  
Shane Long  
Don Phipps  
Denny Stryker

#### November

Butch Banning  
Greg Dappert  
Greg Swonguer

#### December

Mark Dearwester  
Rebecca Jolliff

### **"HAPPY BIRTHDAY"**

## Work Anniversaries - 2010

#### January

Greg Dappert - 6 Years  
Bob Simmons - 17 Years

#### February

Jim Logan - 13 Years  
Shane Long - 13 Years  
Keith Price - 13 Years

#### March

Butch Banning - 28 Years  
Todd Bumgardner - 2 Years  
Dianne Gauder - 7 Years

#### April

Shirley Brunke - 28 Years  
Jayma Burkhammer - 11 Yrs.  
Jason McKee - 2 Years

#### May

Matt Archer - 5 Years  
Curt Dill - 31 Years  
Dennis Stryker - 12 Years  
Steve Tracey - 5 Years  
Suzanne Yoesting - 16 Years

#### June

Larry Artis - 23 Years  
Todd Coleman - 13 Years  
Mark Hilty - 13 Years  
John Spencer - 11 Years

#### July

John Berry - 28 Years  
Michaela Brunke - 6 Years  
Bryan Dhume - 3 Years  
Carolyn Grimes - 9 Years  
Michael Reffitt - 13 Years

#### September

Rick Archer - 26 Years  
Scott Coleman - 16 Years  
Becky Jolliff - 21 Years  
Daniel McMillen - 17 Years  
Don Phipps - 6 Years

#### October

Jeremy Burrey - 7 Years  
John Cummins - 6 Years  
Mark Dearwester - 8 Years  
Elliott Fullerton - 4 Years  
Jon Hines - 23 Years  
Greg Kennaw - 4 Years  
Joel Miracle - 7 Years  
Sam Ragland - 6 Years  
Greg Swonguer - 8 Years

#### November

Harvey Grimes - 20 Years  
Lisa Stover - 2 Years

**"THANK YOU  
FOR YOUR  
YEARS OF SERVICE.  
YOUR  
HARD WORK  
IS APPRECIATED!"**

### Recent Promotions

**Jason McKee**  
Highway Worker 1

**"Congratulations! Job well done!"**

### Recent Retirements

Dick Cooksey. Routemarker 2  
(20+ Years of Service)

**"Best wishes in your retirement!"**

### Returning Employee

**Curtis Hites** was previously employed as a Highway Worker Trainee 1. He will be returning to the Logan County Engineer's Office as a Ditch Maintenance Technician. We are pleased to have Curtis back with our team. Curtis is married and resides in Russells Point.

Please visit our updated website at  
**"[www.co.logan.oh.us](http://www.co.logan.oh.us)"** and  
click on the Engineer link.