

2009 ANNUAL REPORT

Department: Highway

Department Head: Dave Hartman

Departmental Employees: 29 until August then 28 after a retirement

Department Mission: The Yates County Highway Department is responsible for the construction, maintenance and repair of the County transportation system that includes 181 miles of roads and 40 bridges. The Department accomplishes its mission through various capital improvement, maintenance and repair projects and bridge maintenance, repair or replacement projects. The Department also provides snow and ice control services as needed.

January-March

Freezing rain covered the County on Jan. 7th causing numerous accidents and issues for Public Safety personnel and Highway departments. Plow trucks were out twenty days in January. Crews worked on various vehicle and building maintenance activities and portable sign maintenance and repair projects in Benton. New signs were also made in the sign shop. One crew completed site work and ditch re-alignments at a deep, tunnel-culvert on CR17, Bath Rd. in late January and early February as weather allowed. Safety and training meetings were held on days when severe weather was in effect. February brought somewhat milder temperatures and crews were able to get back out on the roads to do ditch cleaning and tree and brush trimming activities. Crews were out nine days in February for snow & ice control and only four days in March. That is the fewest number of days out and the least amount of snow for February and March in the last ten years.

April-June

Early April brought above normal temperatures and relatively mild weather. Crews continued work on Voak Rd. ditch cleaning and back slope earthwork. Various road shoulders were repaired to correct problems (gouges) caused by winter plowing. Various roadside ditches and backslopes were hydro-seeded. The culvert/pipe replacement crew installed and braced one-sided concrete forms in a deep, tunnel-culvert on Bath Rd. as part of a re-construction of the tunnel support wall facings.



CR#17, Bath Rd. tunnel-culvert concrete formwork

After all formwork and PVC weep pipes were set, concrete was pumped into the forms and the forms removed after curing was complete. The project was done in order to replace spalled and failed stem wall concrete and provide structural support to the galvanized arc pipe sections. Without replacement of the structural stem wall concrete, the culvert structure would have continued to deteriorate and some sort of structural failure would have been possible. The installation of PVC weep pipes will assist in relieving soil pressure by allowing ground water from behind the arch sections and support wall to escape.



CR#17, Bath Rd. completed concrete repairs

Suit-Kote (NYS Office of General Services state bid) began Cold-in-Place Recycling CR#33, Darbys Corners Rd. on May 4th and finished on May 5th



CR#33, Darbys Corners, Cold-in-Place Recycle commencement

Midland Asphalt (competitive bid) completed cold milling of pavement on CR#27, (Voak Rd.) between May 4th and May 7th and completed cold milling of pavement on CR#14, (Havens Corners Rd.) between May 7th and May 11th. Hanson Aggregates (competitive bid) placed hot mix asphalt on CR#27 and CR#14 between May 18th and June 3rd. A. L. Blades & Sons (competitive bid) paved CR#33, (Darby's Corners) June 3rd - June 5th. Crews prepared Himrod Rd. (between CR#36 – CR#28), Italy Valley Rd. (between Rt. 364 - CR#34) and Shay Rd. for surface treating work that was completed by Suit-Kote (competitive bid) between June 16th – June 23th. Suit-Kote (NYS OGS state bid) did crack sealing between May 19th and June 2nd. Surface treating was delayed several days due to heavy rain storms. One crew installed shoulders (millings from CR#14 & 27) on CR#14, 27 and 33 from early June through the end of June.

July-September

Havens Corners Rd. was closed July 13th - July 27th while crews replaced a large culvert between Flat St. and Thistle St. with a low-profile aluminum box culvert. See photos below.



Havens Corners low profile aluminum box culvert assembly

Various maintenance activities were completed in July, August and September. Activities included shoulder in-fills on Lovejoy, Chubb Hollow and Havens Corners Rds., tree trimming, ditch cleaning, shoulder cutting and one crew grader-patched several roads with hot mix asphalt where ruts had developed. The new Case 430 skid steer loader and milling head were put to use to mill out and replace the asphalt approaches at several railroad crossings that were rough and crews were able to make the crossings much smoother. One crew hydro-seeded all exposed ditches and backslopes in September.

The Tri-County (Yates, Steuben, Schuyler) striping truck was in the county to paint traffic control lines in August and completed striping in mid September. The culvert crew was on CR#39, East Lake Rd. in Middlesex for a week in early September to repair a failed culvert and patch the road. The culvert crew then moved to Pre-Emption Rd. and began replacing culverts where required as prep work for the upcoming capital improvement project in 2010-2011. Other crews continued to work on various roadside ditch and tree trimming maintenance projects. The Sign Maintenance crew assisted the culvert crew with traffic control on Pre-Emption Rd. The Yates County Sheriff was contacted for assistance to patrol and enforce speed limits in designated work zones on Pre-Emption Rd. Deputies were dispatched and the portable radar trailer was set up. Motorists began to slow down and comply with the posted speed limits after several days of steady visual presence of Deputies on patrol and vehicles that were stopped for infractions.

October-December

The culvert crew continued replacing culverts in October on Pre-Emption Rd. with traffic control assistance from the Sign Maintenance crew. All culverts were replaced except one deep one that will be completed in spring of 2010. The same crew continued on Pre-Emption Rd. with backslope earthwork and cleaning out ditches through November. In early October, two crews were combined and they worked on boxing out shoulders on Pre-Emption Rd. and installing 3 foot wide hot mix asphalt shoulders. Ditch maintenance projects took place on CR#1s, 9, 10, 17, 30, 32 and 35. The same crew also did streambed gravel removal and abutment scour protection work at the Valley View Bridge. Trees were trimmed and removed from backslopes on CR24, 30 & 32. Bridge repairs and minor maintenance activities were completed on the Pre-Emption Rd. over Kashong Creek Bridge in Bellona and the Milo St. over Keuka Lake Outlet Bridge in Dresden. The elevation of the railroad crossing on Glenora Rd. was altered by Norfolk Southern and the approaches were paved back in by their contractor but due to irregularities in the road profile (at no fault of Norfolk-Southern), more asphalt was needed on both the east and west approaches so one crew made the necessary repairs. Snow fence was installed on CR#15 and CR#32. One Highway Department pickup truck was used by the Elections office to move voting machines for primary elections in September and again in early November for the general elections. Snow Plow trucks were out on snow and ice control operations 1day in November and 19 days in December.

PERSONNEL

The permanent work force:	Superintendent	1
	Deputy Superintendent	1
	Highway Maintenance Foreman	1
	Administrative Assistant	1
	Sr. Account Clerk Typist	1
	Working Supervisors	4
	Automotive Mechanic Supervisor	1
	Sr. Automotive Mechanic	1
	Automotive Mechanic	2
	Sign Maintenance Workers	2
	HEO	6
	<u>MEO/L</u>	<u>7</u>
	Total Employees	28

Temporary summer employees included five laborers.

Note: The total number of employees dropped to 28 when an HEO retired in August and the position was not refilled. This unfilled position represents the second position left unfilled in the last 5 years

EQUIPMENT

Vehicles/Equipment Purchased

2009 Chevrolet Kodiak 4500 series truck w/crane (sign crew truck) for \$75,780
2009 Case 430 Skid Steer Loader with attachments for \$43,335.85
2010 Ford F150XL for \$23,418

Total Purchases = \$142,533.85

Equipment Sold

No equipment was sold at auction this year

ROAD WORK – CAPITAL

CR#14, Havens Corners Road (1.55 mi.): Midland Asphalt Materials, Inc. cold milled 21,414 square yards of pavement from Voak Rd. to Maiden Lane in early May at a cost of \$23,877 (\$15,405/mile). Hanson Aggregates placed Hot-Mix Asphalt as follows: 4,401 tons of Type 3 binder at a 4" depth and 1,762 tons of Type 6F top at a 1.5" depth. The total cost of asphalt paving was \$322,476 (\$208,049 per mile). Oil price de-escalation adjustments saved a total of \$96,283. Shoulders, signs and hydro-seeding were done by YCHD forces and lane striping was done by the Tri-County striping truck. The total project cost to date including all prep work done in 2008 along the entire 6.88 mile length is \$796,680.

CR#27, Voak Road (5.02 mi.): Midland Asphalt Materials, Inc. cold milled 64,608 square yards of pavement from Rte. 364 to Ontario Co. in early May at a cost of \$72,038 (\$14,350 per mile). Hanson Aggregates placed Hot-Mix Asphalt as follows: 14,182 tons of Type 3 binder at a 4" depth and 5,340 tons of Type 6F top at a 1.5" depth. The total cost of asphalt paving was \$1,016,580 (\$202,506 per mile). Oil price de-escalation adjustments saved a total of \$304,959. Shoulders, signs and hydro-seeding were done by YCHD forces and lane striping was done by the Tri-County striping truck. The total project cost to date including all prep work done in 2008 was \$1,419,357 (\$282,740 per C/L mile).

CR#33, Darbys Corners Road (1.55 mi.)

Suit Kote did Cold-in-Place recycling of the pavement in early May at a cost of \$104,302 (\$67,292 per mile). After curing of the cold mix asphalt, A.L. Blades & Sons placed a 1.5" Type 6F, Hot-Mix Asphalt top course over a true & leveling course (3,839 total tons) at a total cost of \$206,930 (\$133,503 per mile). The total tonnage of hot mix asphalt was 6,639 tons. Oil price de-escalation adjustments saved a total of \$77,941. Shoulders, signs and hydro-seeding were done by YCHD forces and lane striping was done by the Tri-County striping truck. The total project cost to date including all prep work done in 2008 was \$537,571 (\$346,820 per C/L mile).

A total of 27,762 tons of hot-mix asphalt was used for the three capital improvement projects.

ROAD WORK – MAINTENANCE

Crack sealing was done on various roads as needed between May 19th and June 2nd. Roads that were sealed included Earls Hill, Bellona Station, Chubb Hollow, Italy Valley (Italy Turnpike to Ontario Co. line) and Lovejoy Roads. The cost to crack seal these roads totaled \$44,018.

Surface treating was completed on:

4.3 miles of Himrod Rd. from Himrod to Leach Rd. at a cost of \$49,444 (\$11,499/mile).
9.4 miles of Italy Valley Rd. from Rte. 364 to CR#34 at a cost of \$106,189 (\$11,291/mile).
5.3 miles of Shay Rd. from Rte. 364 to end at a cost of \$60,903 (\$11,491/mile).

Including Traffic Control costs, the average cost to surface treat 19 miles of roads was \$11,471 per mile

ROAD WORK – MAINTENANCE continued

Traffic control signs were replaced and maintained as required on various roads. New sign making system was purchased and partially installed before the end of the year.

Various maintenance projects including ditch cleaning, shoulder repairs, mowing roadsides and grader patching were completed on various roads.

BRIDGES & CULVERTS

CR17, Bath Rd - An inspection of a large, deep, multi-plate arch pipe culvert in the fall of 2008 revealed large pieces of concrete beginning to spall and separate from the north support wall leaving a section of the multi-plate arch unsupported. Temporary supports were installed in the fall of 2008 and concrete forms were set in 2009 and concrete for the north wall re-facing was placed in June 2009.

Various bridge maintenance activities were completed on several bridges. Activities included debris removal from streambeds, stream alignment improvements, concrete patching, welding, approach repairs and the removal of sediment aggradation under the approach rails of many bridges was also completed in an effort to improve approach pavement drainage and condition ratings.

Fox's Mill Bridge – Fisher Associates substantially completed preliminary Design and Right-of-Way phase mapping on the proposed Federal Aid bridge project.

MISCELLANEOUS

There were 86 dead deer carcasses removed from County roads

Landfill: Grass was mowed twice per the landfill closure manual guidelines.

Drug & Alcohol testing: Seventeen (17) random tests were conducted on-site at the Highway Department offices by HealthWorks lab personnel with 13 being for substance and 4 for alcohol plus two (2) additional pre-employment drug tests. Results of all tests were negative.