

PUBLIC WORKS & CAPITAL PROJECTS  
REVISED 5/7/15

RESOLUTION NO. 2015131

SUPPLEMENTAL BOND RESOLUTION DATED MAY 11, 2015.

A RESOLUTION SUPPLEMENTING RESOLUTION NO. 47 OF 2015 OF THE COUNTY OF DUTCHESS, NEW YORK, TO PAY A PORTION OF THE COST OF BRIDGE, CULVERT AND HIGHWAY IMPROVEMENTS IN AND FOR SAID COUNTY.

WHEREAS, the capital project hereinafter described, as proposed, has been determined to be a Type II Action pursuant to the regulations of the New York State Department of Environmental Conservation promulgated pursuant to the State Environmental Quality Review Act, which it has been determined will not have a significant effect on the environment; and

WHEREAS, the County Legislature authorized the financing of such capital project pursuant to Resolution No. 47, 2015 and now wishes to amend the plan of financing therefor;

NOW, THEREFORE

BE IT RESOLVED, by the County Legislature of the County of Dutchess, New York, as follows:

Section 1. Sections 1 and 2 of Resolution No. 47, 2015 are hereby amended to read as follows:

Section 1. The cost of the reconstruction and replacement of bridges, and culverts and reconstruction of roads, including the cost of a highway safety and drainage improvement program in and for the County of Dutchess, New York, including incidental improvements and expenses in connection therewith, is hereby authorized at a maximum estimated cost of \$8,765,666.

Section 2. It is hereby determined that the plan for the financing thereof is as follows:

(a) by the issuance of the \$5,471,000 serial bonds hereby authorized to be issued therefore pursuant to the provisions of the Local Finance Law; and

(b) by the expenditure of \$3,294,666 monies to be received from the State of New York as Consolidated Highway Improvement Program (CHIP) aid monies, which monies are hereby appropriated therefor.

The original amount of \$3,008,168 as stated in Resolution No. 2015047 plus an additional sum of \$286,498.

Section 2. The validity of such bonds and bond anticipation notes may be contested only if:

1) Such obligations are authorized for an object or purpose for which said County is not authorized to expend money, or

2) The provisions of law which should be complied with at the date of publication of this resolution are not substantially complied with,

and an action, suit or proceeding contesting such validity is commenced within twenty days after the date of such publication, or

3) Such obligations are authorized in violation of the provisions of the Constitution.

Section 3. This resolution, which takes effect immediately, shall be published in summary form in *The Poughkeepsie Journal* and the *Southern Dutchess News*, the official

newspapers of said County, together with a notice of the Clerk of the County Legislature in substantially the form provided in Section 81.00 of the Local Finance Law.

LEGAL NOTICE OF ESTOPPEL

The following entitled bond resolution, a summary of which is published herewith, has been adopted on May 11, 2015, and the validity of the obligations authorized by such resolution may be hereafter contested only if such obligations were authorized for an object or purpose for which the County of Dutchess, New York, is not authorized to expend money, or if the provisions of law which should have been complied with as of the date of publication of this notice were not substantially complied with, and an action, suit or proceeding contesting such validity is commenced within twenty days after the date of publication of this notice, or such obligations were authorized in violation of the provisions of the Constitution.

A complete copy of the resolution summarized herewith is each available for public inspection during regular business hours at the Office of the Clerk of the Legislature for a period of twenty days from the date of publication of this Notice.

Dated: Poughkeepsie, New York,

May \_\_\_\_, 2015.

\_\_\_\_\_  
Clerk, County Legislature

RESOLUTION NO. \_\_\_\_\_, 2015

SUPPLEMENTAL BOND RESOLUTION DATED MAY 11, 2015.

A RESOLUTION SUPPLEMENTING RESOLUTION NO. 47 OF 2015 OF THE COUNTY OF DUTCHESS, NEW YORK, TO PAY A PORTION OF THE COST OF BRIDGE, CULVERT AND HIGHWAY IMPROVEMENTS IN AND FOR SAID COUNTY.

<b>Class of objects or purposes:</b>	Highway, culvert and bridge improvements, including incidental improvements and expenses
<b>Period of probable usefulness:</b>	15 years
<b>Maximum estimated cost:</b>	\$8,765,666
<b>Maximum amount of bonds to be issued:</b>	\$5,471,000 bonds
<b>Other monies:</b>	\$3,294,666 CHIPS monies from State
<b>SEQRA status:</b>	Type II Action. SEQRA compliance materials on file in the office of the Clerk of the County Legislature which it may be inspected during regular office hours.

## FISCAL IMPACT STATEMENT

NO FISCAL IMPACT PROJECTED

### APPROPRIATION RESOLUTIONS

*(To be completed by requesting department)*

Total Current Year Cost \$ 286,498

Total Current Year Revenue \$ 286,498

and Source

New York State Consolidated Highway Improvement Program (CHIP)

Source of County Funds (*check one*):  Existing Appropriations,  Contingency,  
 Transfer of Existing Appropriations,  Additional Appropriations,  Other (*explain*).

Identify Line Items(s):

Related Expenses: Amount \$ \_\_\_\_\_

Nature/Reason:

Anticipated Savings to County: \_\_\_\_\_

Net County Cost (this year): \$0 \_\_\_\_\_

Over Five Years: \_\_\_\_\_

#### Additional Comments/Explanation:

Resolution to increase appropriations and revenue to reflect additional CHIPs aid.

Prepared by: Rachel Kashimer, Budget Office

Prepared On: 4/21/2015

**H0479 - 2015 Highway & Bridge Improvements**

**APPROPRIATIONS**

Increase

H0479.5110.3250	Roads-Reconstruction	\$	775,000.00
H0479.5110.3250.212	Roads-Reconstruction CHIPS	\$	2,286,498.00
H0479.5120.3450	Bridges-Reconstruction	\$	4,641,832.00
H0479.5120.3450.212	Bridges-Reconstruction CHIPS	\$	1,008,168.00
H0479.5110.3900	Bond Issuing Costs	\$	54,168.00
		\$	<u>8,765,666.00</u>

**REVENUES**

Increase

H0479.5110.57100	Serial Bonds	\$	5,471,000.00
H0479.5110.35010.07	Consolidated Highway Aid County Roads 2007 and forward	\$	2,286,498.00
H0479.5120.35010.07	Consolidated Highway Aid County Roads 2007 and forward	\$	1,008,168.00
		\$	<u>8,765,666.00</u>

PUBLIC WORKS & CAPITAL PROJECTS  
FOR DISCUSSION ONLY 3/9/15

RESOLUTION NO. 2015047

BOND RESOLUTION DATED MARCH 9, 2015.

A RESOLUTION AUTHORIZING THE ISSUANCE OF \$5,471,000 SERIAL BONDS OF THE COUNTY OF DUTCHESS, NEW YORK, TO PAY A PORTION OF THE COST OF BRIDGE, CULVERT AND HIGHWAY IMPROVEMENTS IN AND FOR SAID COUNTY.

WHEREAS, the capital project hereinafter described, as proposed, has been determined to be a Type II Action pursuant to the regulations of the New York State Department of Environmental Conservation promulgated pursuant to the State Environmental Quality Review Act, which it has been determined will not have a significant effect on the environment; and

WHEREAS, it is now desired to authorize the financing of such capital project; NOW,  
THEREFORE

BE IT RESOLVED, by the County Legislature of the County of Dutchess, New York, as follows:

Section 1. The cost of the reconstruction and replacement of bridges, and culverts and reconstruction of roads, including the cost of a highway safety and drainage improvement program in and for the County of Dutchess, New York, including incidental improvements and expenses in connection therewith, is hereby authorized at a maximum estimated cost of \$8,479,168.

Section 2. It is hereby determined that the plan for the financing thereof is as follows:

- (a) by the issuance of the \$5,471,000 serial bonds hereby authorized to be issued therefore pursuant to the provisions of the Local Finance Law; and

(b) by the expenditure of \$3,008,168 monies to be received from the State of New York as Consolidated Highway Improvement Program (CHIP) aid monies, which monies are hereby appropriated therefor.

Section 3. It is hereby determined that the period of probable usefulness of the aforesaid class of objects or purposes is 15 years, pursuant to subdivision 91 of paragraph a of Section 11.00 of the Local Finance Law, based upon subdivisions 10 and 20 thereof.

Section 4. Subject to the provisions of the Local Finance Law, the power to authorize the issuance of and to sell bond anticipation notes in anticipation of the issuance and sale of the serial bonds herein authorized, including renewals of such notes, is hereby delegated to the Commissioner of Finance, the chief fiscal officer. Such notes shall be of such terms, form and contents, and shall be sold in such manner, as may be prescribed by said Commissioner of Finance, consistent with the provisions of the Local Finance Law.

Section 5. The faith and credit of said County of Dutchess, New York, are hereby irrevocably pledged for the payment of the principal of and interest on such bonds as the same respectively become due and payable. An annual appropriation shall be made in each year sufficient to pay the principal of and interest on such bonds becoming due and payable in such year. There shall annually be levied on all the taxable real property of said County a tax sufficient to pay the principal of and interest on such bonds as the same become due and payable.

Section 6. Such bonds shall be in fully registered form and shall be signed in the name of the County of Dutchess, New York, by the manual or facsimile signature of the Commissioner of Finance and a facsimile of its corporate seal shall be imprinted or impressed thereon and may be attested by the manual or facsimile signature of the County Clerk.

Section 7. The powers and duties of advertising such bonds for sale, conducting the sale and awarding the bonds, are hereby delegated to the Commissioner of Finance, who shall advertise such bonds for sale, conduct the sale, and award the bonds in such manner as she shall deem best for the interests of the County; provided, however, that in the exercise of these delegated powers, she shall comply fully with the provisions of the Local Finance Law and any order or rule of the State Comptroller applicable to the sale of municipal bonds. The receipt of the Commissioner of Finance shall be a full acquittance to the purchaser of such bonds, who shall not be obliged to see to the application of the purchase money.

Section 8. All other matters, except as provided herein relating to such bonds including determining whether to issue such bonds having substantially level or declining annual debt service and all matters related thereto, prescribing whether manual or facsimile signatures shall appear on said bonds, prescribing the method for the recording of ownership of said bonds, appointing the fiscal agent or agents for said bonds, providing for the printing and delivery of said bonds (and if said bonds are to be executed in the name of the County by the facsimile signature of the Commissioner of Finance, providing for the manual countersignature of a fiscal agent or of a designated official of the County), the date, denominations, maturities and interest payment dates, place or places of payment, and also including the consolidation with other issues, shall be determined by the Commissioner of Finance. It is hereby determined that it is to the financial advantage of the County not to impose and collect from registered owners of such serial bonds any charges for mailing, shipping and insuring bonds transferred or exchanged by the fiscal agent, and, accordingly, pursuant to paragraph c of Section 70.00 of the Local Finance Law, no such charges shall be so collected by the fiscal agent. Such bonds shall contain substantially the recital of validity clause provided for in section 52.00 of the Local Finance Law and shall otherwise be in such form

and contain such recitals in addition to those required by section 52.00 of the Local Finance Law, as the Commissioner of Finance shall determine.

Section 9. This resolution shall constitute a statement of official intent for purposes of Treasury Regulations Section 1.150 - 2. Other than as specified in this resolution, no monies are, or are reasonably expected to be, reserved, allocated on a long-term basis, or otherwise set aside with respect to the permanent funding of the object or purpose described herein.

Section 10. The validity of such bonds and bond anticipation notes may be contested only if:

- 1) Such obligations are authorized for an object or purpose for which said County is not authorized to expend money, or
- 2) The provisions of law which should be complied with at the date of publication of this resolution are not substantially complied with, and an action, suit or proceeding contesting such validity is commenced within twenty days after the date of such publication, or
- 3) Such obligations are authorized in violation of the provisions of the Constitution.

Section 11. This resolution, which takes effect immediately, shall be published in summary form in *The Poughkeepsie Journal* and the *Southern Dutchess News*, the official newspapers of said County, together with a notice of the Clerk of the County Legislature in substantially the form provided in Section 81.00 of the Local Finance Law.

**Bridge, Culvert and Highway Improvements**

Year	PRIN O/S	PRIN PAYMENT	INTEREST	TOTAL
1	\$5,471,000	\$364,733	\$164,130	\$528,863
2	5,106,267	364,733	153,188	517,921
3	4,741,534	364,733	142,246	506,979
4	4,376,800	364,733	131,304	496,037
5	4,012,067	364,733	120,362	485,095
6	3,647,334	364,733	109,420	474,153
7	3,282,600	364,733	98,478	463,211
8	2,917,867	364,733	87,536	452,269
9	2,553,133	364,733	76,594	441,327
10	2,188,400	364,733	65,652	430,385
11	1,823,667	364,733	54,710	419,443
12	1,458,933	364,733	43,768	408,501
13	1,094,200	364,733	32,826	397,559
14	729,467	364,733	21,884	386,617
15	364,733	364,733	10,942	375,675
<b>TOTAL</b>		<u>\$5,471,000</u>	<u>\$1,313,040</u>	<u>\$6,784,040</u>
<b>AVG. PER YEAR</b>		\$364,733	\$87,536	\$452,269

**FISCAL IMPACT STATEMENT**

TOTAL PRINCIPAL	\$5,471,000	
ANTICIPATED INTEREST RATE		3.00%
TERM	15 YEARS.	ANTICIPATED FEES:
ANTICIPATED ANNUAL COST (PRIN + INT):		\$54,168
TOTAL PAYBACK (ANNUAL COST x TERMS):		\$6,784,040

PREPARED BY HEIDI SEELBACH

## 2015 Highway and Bridge Improvement Program

The Department of Public Works Highway Management Division (Engineering and Highway Construction & Maintenance) conducts a Capital Highway and Bridge Improvement Program each year. These funds are utilized to maintain, repair and improve our County transportation system, which includes 151 bridges, 186 large drainage culverts and structures, and 395 centerline miles of roads. The highway system also includes associated storm water drainage systems (pipes, catch basins and ditches), 21 traffic control signals or beacons, and other safety devices (signs, guide rail, pavement markings, etc.).

Planned programs for 2015 include: *Pavement Management Program, Bridge and Culvert Improvement Program, and Highway, Safety and Drainage Improvement Program.* The total cost for projects included in this request is estimated at \$8,425,000.

The County expects to receive approximately \$3,008,168 in *Consolidated Highway Improvement Programs Funds (CHIPS)* from New York State that will offset 2015 capital project costs.

Based on estimated project costs and anticipated offsets from CHIPS funding, the net 2015 request is \$5,416,832.

### Summary Breakdown of Request:

Estimated Program Amount	Program Description
\$2,000,000	Pavement Management Program.
\$5,650,000	Bridge and Culvert Improvement Program.
\$775,000	Highway, Safety and Drainage Improvement Program.
\$8,425,000	<b>Estimated Total 2015 Projects Cost</b>
-\$3,008,168	Anticipated 2015 CHIPS Funds (NYS)
\$5,416,832	<b>2015 Net Request</b>

### Pavement Management Program

The 2015 Pavement Management program involves resurfacing or reconstruction of County highways using both contractors and County forces. Special surface treatments, developed to extend pavement life, may be performed by vendors and contractors with the necessary equipment and expertise. Work necessary to prepare the highways for resurfacing or reconstruction, such as culvert pipe replacement, ditch and drainage system repairs and localized surface repairs are included within the scope of this program. In addition, replacement of pavement markings is included within the scope of work under this program. All such work is eligible for CHIPS funding. The estimate for current year funding of this project is \$2,000,000. CHIPS funding will be used to offset this program.

### Bridge & Culvert Improvement Program

Bridge PV-15 Replacement and realignment of CR 72 (North Avenue) near Sherow Road, Town of Pleasant Valley. Design work was funded using prior year capital funds and is complete. Right-of way is being purchased and environmental permits are being pursued. \$1.4M in construction costs were authorized in the 2014 bond request. The construction cost estimate has increased due to wetland mitigation construction; increased bridge width due to intersection alignment; above and below ground utility conflicts; and additional right-of-way needed for wetlands mitigation. The current estimate for construction and construction inspection is \$2.6M. Construction is scheduled for 2015 assuming environmental permits can be obtained. The current request includes \$1.2M.

Bridge RH-18 Replacement, CR 79 (Linden Avenue) over Sawkill Creek, Town of Red Hook. This bridge is currently posted for 3 tons due to significant structural deficiencies. Environmental studies, design work preparation of construction bid documents was authorized in the 2014 bond request. Design work is underway and is expected to be complete April 2015. The estimate for construction and construction inspection is \$1.2M. Right-of-way is being sought and environmental permits are being pursued. Construction is scheduled for May 2015 if permits and right-of-way are obtained. The current request includes \$1.2M.

Bridge PP-2, Hoffman Road over Shekomoko Creek, Town of Pine Plains. The bridge has been closed to traffic since September 2014 due to a partial collapse of the abutment and wing wall. Environmental studies and design work was funded using prior year capital funds and is underway. Plans and specifications are expected to be complete in May 2015. The estimate for construction and construction inspection is \$2.0M. Right-of-way is being sought and environmental permits are being pursued. Construction is scheduled for June 2015 if permits and right-of-way are obtained. The current request includes \$2.0M.

Bridge Painting -- various locations throughout the County. This project will involve removing old failing paint and rust from steel bridge structures and applying a new paint coating system. Work also includes specialized inspection

services provided by consultants to assure proper surface preparation and paint application. Design by County forces, construction by contracted services. Estimated cost: \$600,000.

Culvert M-9 Repair, CR 56 (Turkey Hill Road) over unnamed stream, Town of Milan. This culvert is structurally deficient and hydraulically inefficient. Plans and specifications have been designed by in-house staff. Construction will be performed by contracted services. Construction inspection will be performed by in-house staff. Construction is estimated at \$350,000 and is scheduled for 2015. The current request includes \$350,000.

Scour repair to three bridges, various locations. NYS DOT's biennial bridge inspection program identified undermining and scour problems at the following three bridges: Bridge C-22, CR 18 (Clinton Hollow Road) over the Little Wappinger Creek, Town of Clinton; Bridge L-29 CR 21 (East Noxon Road) over the Jackson Creek, Town of LaGrange; and Bridge L-33, CR 21 (East Noxon Road) over the Jackson Creek, Town of LaGrange. Repairs will be made to stabilize the stream bed, fill in voids under bridge abutments and piers, and install scour resistant countermeasures. Construction will be performed by contracted services. Construction inspection will be performed by in-house staff. Construction is estimated at \$300,000 and is scheduled for 2015. The current request includes \$300,000.

#### Highway Safety and Drainage Improvement Program

Miscellaneous Drainage Repairs, County-wide. This request is to fund capital repairs to culverts, large pipes, and drainage systems as necessary. Severe weather, unforeseen damage and unanticipated repair needs require the Department to maintain the ability to expend funds on capital projects to keep the transportation system safe and operational. The current request includes \$100,000.

Guide Rail Installation or Replacement, County-wide. This request is to fund installation of new guide rail or replacement guide rail at various locations throughout the county road system. The current request includes \$125,000.

Intersection Improvements at CR 72 (North Avenue) and Hurley Road, Town of Pleasant Valley. This intersection has experienced 3 fatal accidents over the past 10 years. Preliminary design plans and studies have been completed. The request is for funding of final design and development of plans and specifications by consultant services. Construction is scheduled for 2016 if right of way and permits can be obtained in 2015. Construction and construction funds will be requested in the 2016 bond request. The current includes \$175,000.

Retaining Wall Replacement, CR 50 (Mt. Ross Road), Town of Pine Plains. This project includes removal of a falling retaining wall and replacing it in the same location. The wall supports a private property that is adjacent to the county road shoulder. The falling wall is causing large stones and debris to fall on the county road shoulder, causing a hazard to motorists. Design is underway by in-house staff. Construction will be performed by contracted services and construction

Inspection will be done by in-house staff. Construction is estimated at \$200,000 and is scheduled for 2015. The current request includes \$200,000.

Intersection Improvements at CR 103 (River Road) and Mt. Rutsen Road, Town of Rhinebeck. This intersection is a "Y" configuration and does not allow for optimal sight distances for motorists entering River Road from Mt. Rutsen Road. This project will re-configure the intersection into a "T" style intersection and improve sight distances and safety. Environmental studies and design will be performed by in-house staff with some required consultant services. Construction is planned for 2015 or 2016 by DPW forces. The current request includes \$100,000 for consultant services and specialized construction equipment rentals.

Intersection Improvements at CR 78 (West Kerley Corners Road) and NYS Route 9G. NYSDOT has installed a flashing traffic signal at the intersection. The westbound approach to the intersection on CR 78 has a hill in the road that restricts visibility of the new traffic signal. This project will remove the hill in the road to increase sight distance to the new traffic signal. Design will be completed by in-house staff, with some specialized consultant services. Construction is scheduled for 2016 and funds for construction will be requested in the 2016 bond request. The current request includes \$75,000 for consultant services.

*Note: Estimates for individual projects are approximate based on current information. Some projects may actually come in lower or higher than estimated; however, the cost for all projects combined will be within the total \$8.425 million.*

H0479 - 2015 Highway & Bridge Improvements

**APPROPRIATIONS**

Increase

H0479.5110.3250	Roads-Reconstruction	\$775,000
H0479.5110.3250.212	Roads-Reconstruction CHIPS	\$2,000,000
H0479.5120.3450	Bridges-Reconstruction	\$4,641,832
H0479.5120.3450.212	Bridges-Reconstruction CHIPS	\$1,008,168
H0479.5110.3900	Bond Issuing Costs	\$54,168
		<u>\$8,479,168</u>

**REVENUES**

Increase

H0479.5110.57100	Serial Bonds	\$5,471,000
H0479.5110.35010.07	Consolidated Highway Aid County Roads 2007 and forward	\$2,000,000
H0479.5120.35010.07	Consolidated Highway Aid County Roads 2007 and forward	\$1,008,168
		<u>\$8,479,168</u>



# 2015 Road and Bridge Improvement Program

- ▶ Pavement Management Program ▶ \$2,000,000
- ▶ Bridge/Culvert Improvement Program ▶ \$5,650,000
- ▶ Misc. Highway, Safety and Drainage  
Improvement Program ▶ \$775,000
- ▶ Estimated Total 2014 Project Costs ▶ \$8,425,000
  
- ▶ Anticipated CHIPS Funds (NYS) ▶ -\$3,008,168

**2015 Net Total Program Request**

**\$5,416,832**



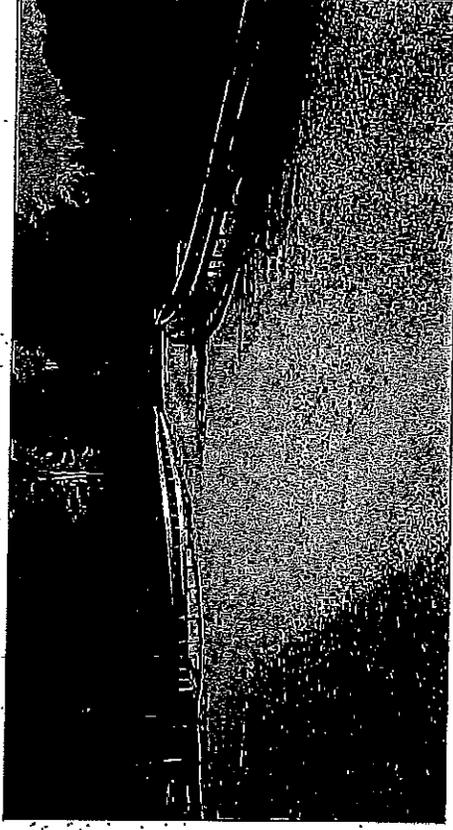
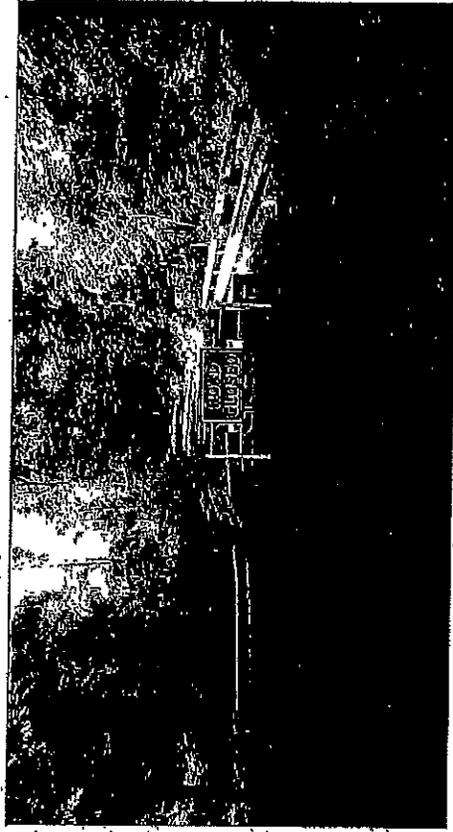
# 8 YR. History of Annual Bridge & Highway Bond Requests

<u>Year</u>	<u>Resolution No.</u>	<u>Net Request**</u>
2007	Res. No. 207090	\$3.284M
2008	Res. No. 208150	\$2.935M
2009	Res. No. 209116	\$2.715M
2010	Res. No. 2010225	\$0.000M
2011	Res. No. 2011133	\$1.488M
2012	Res. No. 2012087	\$1.704M
2013	Res. No. 2013068	\$3.500M
2014	Res. No. 2014048	\$5.568M

▶ \*\*\* Net County funding after CHIPs offset, does not include bond costs.

# 2014 Bridge Rehabilitation Project

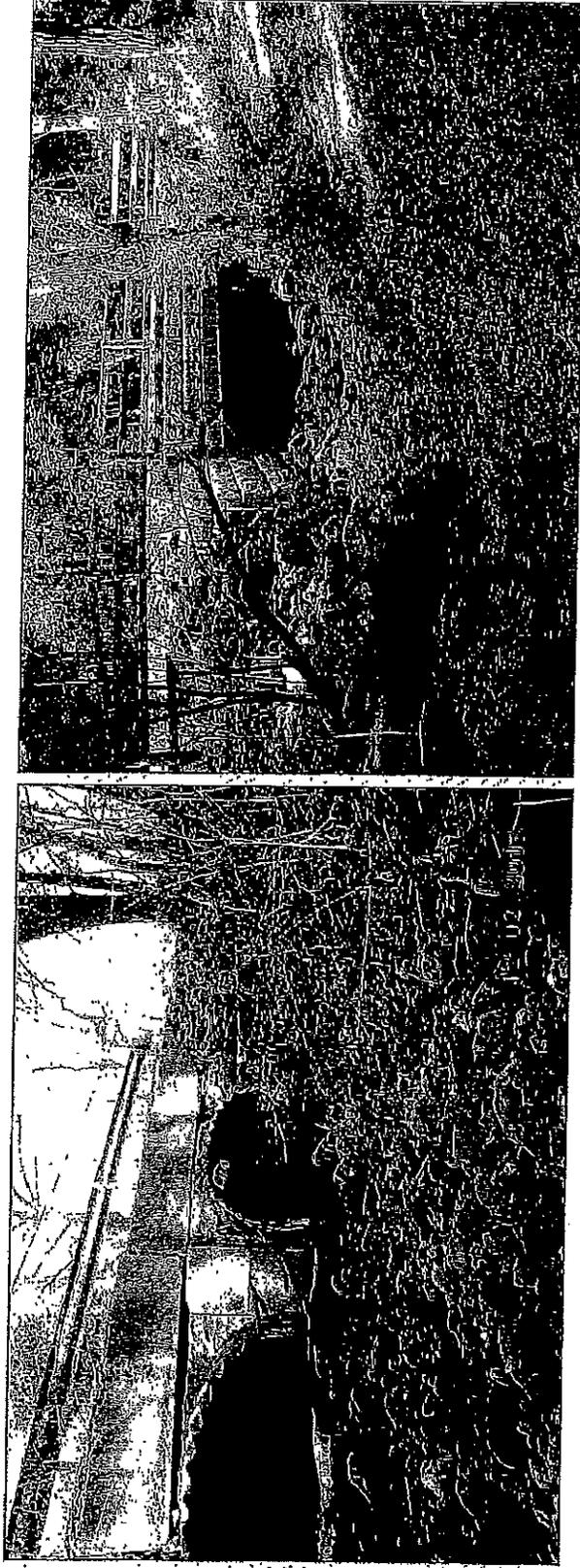
Bridge M-11, Fishwoods Road over Kobe Creek, Town of Milan



Bridge beams and deck replaced. Design by consultant and construction by contracted services.

# 2014 Culvert Replacement

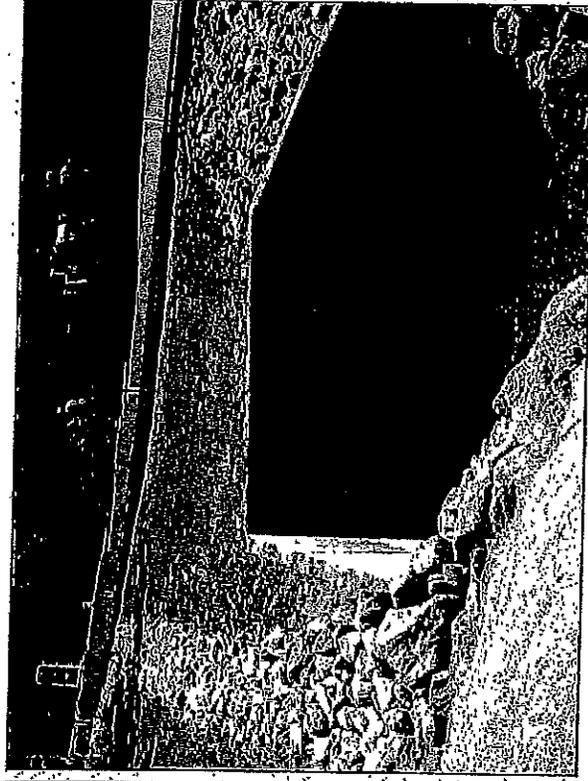
Culvert PA-03, Quaker Hill Road (CR 67), Town of Pawling



Replacement of twin pipes with new concrete box culvert and  
guide rail.

# 2014 Culvert Replacement

Culvert N-20, McGhee Hill Road (CR 64),  
Town of North East



Replaced twin pipe culvert with new concrete culvert, new headwalls and new guide railing.

# 2014 Culvert Replacement

Culvert C-16 ; Hollow Road (CR 14)  
Town of Clinton



Emergency replacement of collapsed concrete box culvert with new corrugated metal pipe and concrete headwalls.  
Design and construction by DPW forces.

# 2014 Highway Improvements

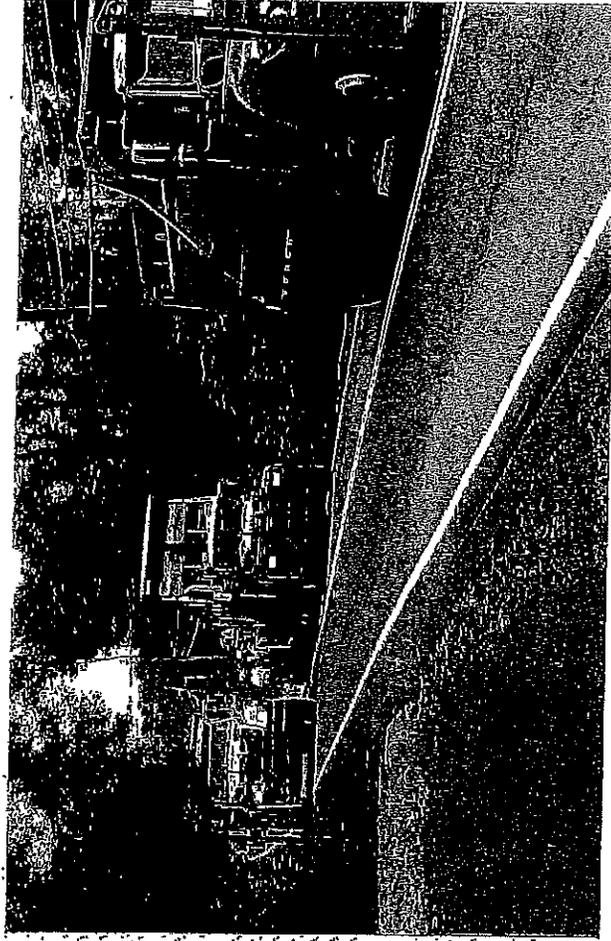
Milling and Hot Mix Asphalt (HMA) Overlay  
CR 44 Town of LaGrange



Asphalt wearing surface was milled off, then replaced with 1 1/2" high-friction asphalt concrete wearing surface

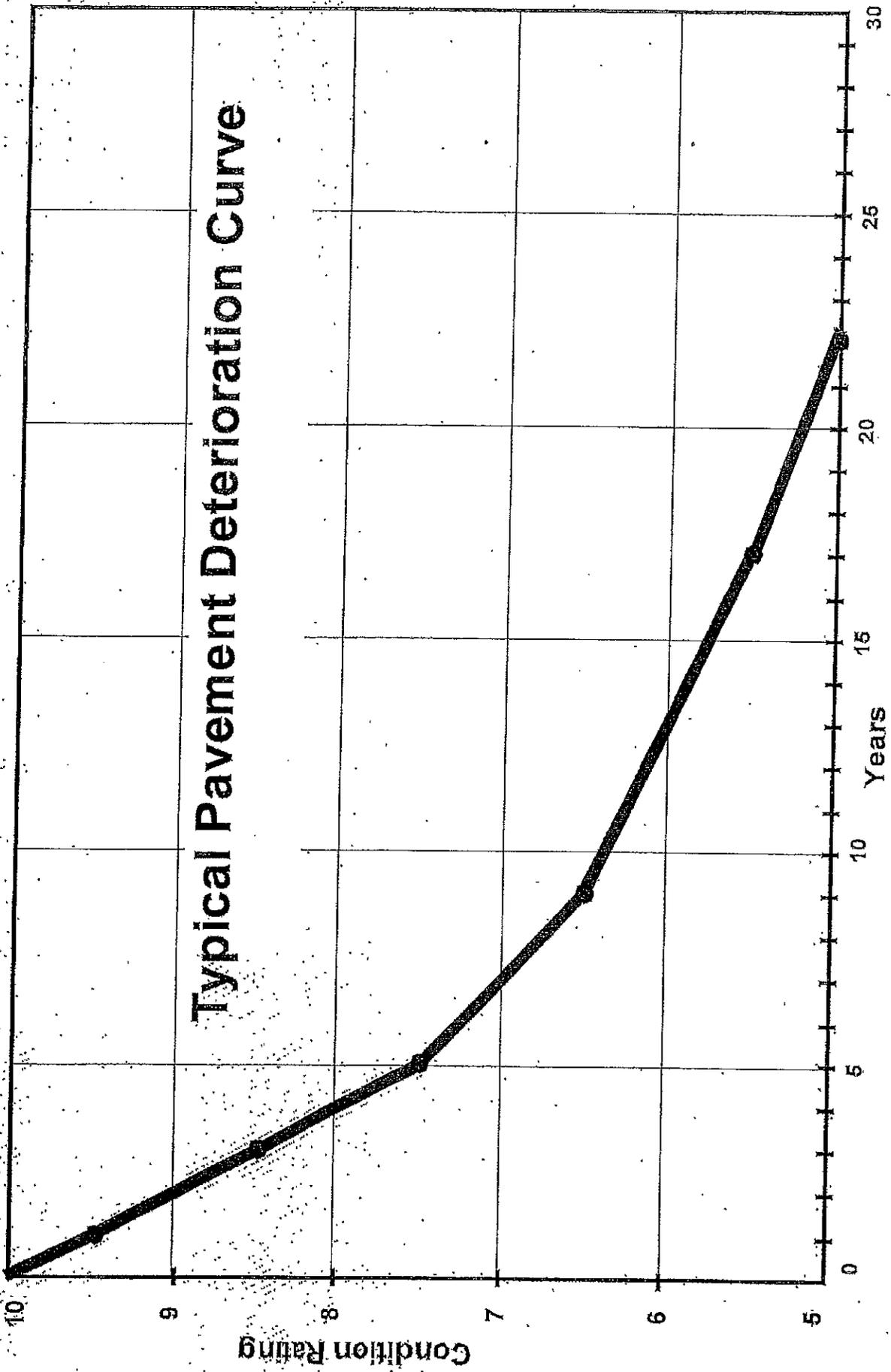
# 2014 Highway Improvements

Hot Mix Asphalt (HMA) Overlay  
CR 47 (South Avenue) Town of Pleasant Valley

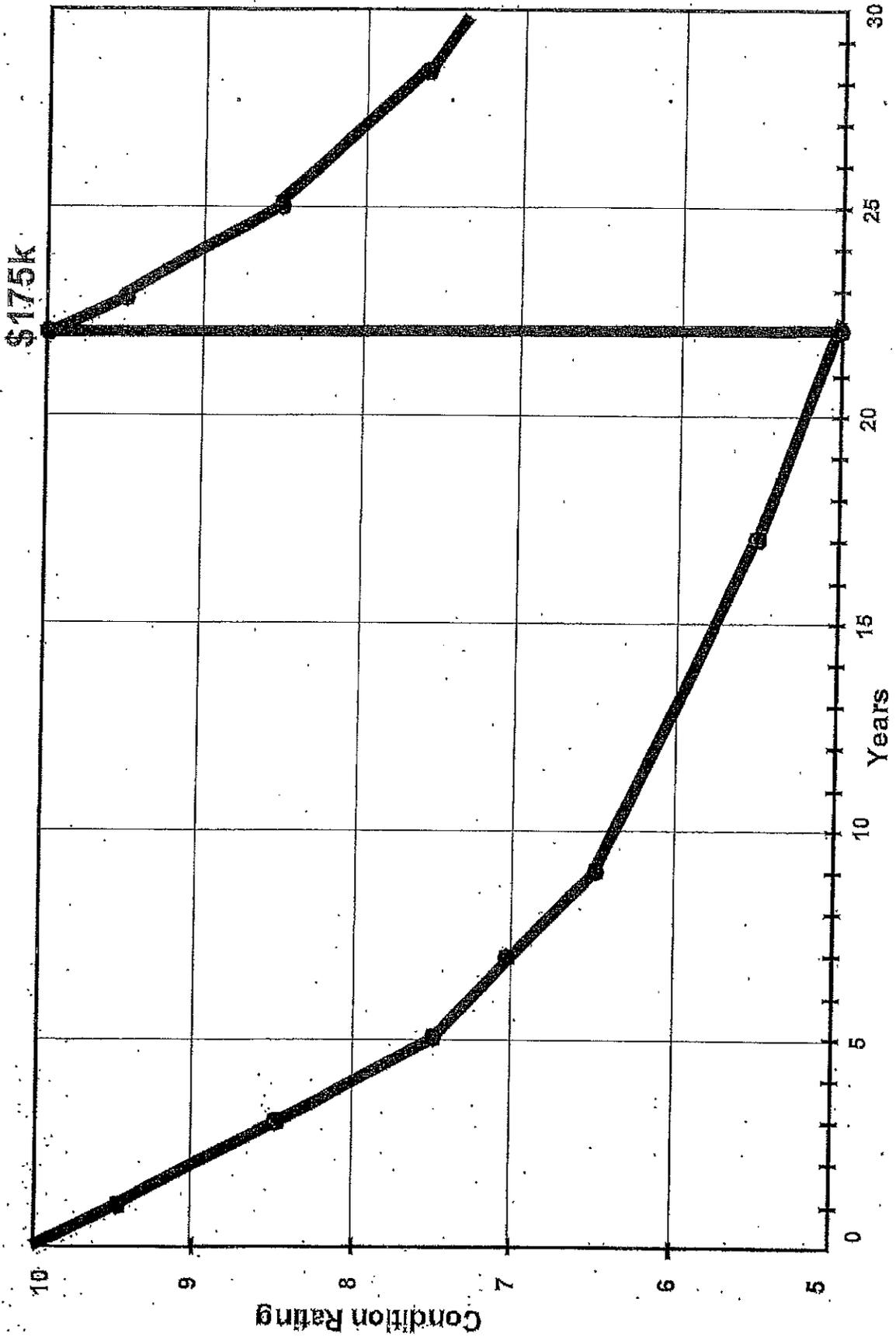


Resurfaced South Avenue (CR 47) with 1 1/2" high-friction asphalt.  
Work completed by DPW Forces.

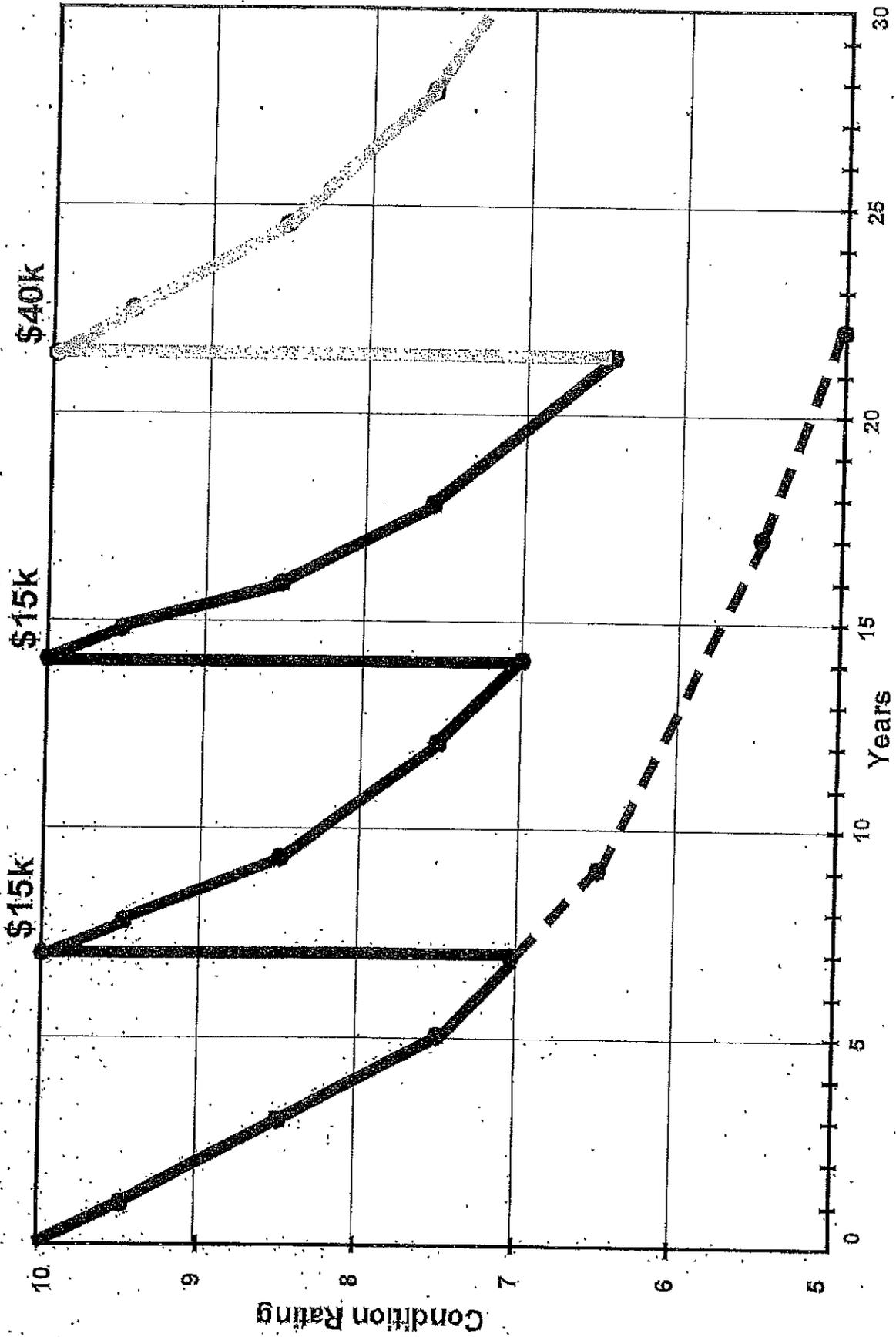
# Typical Pavement Deterioration Curve



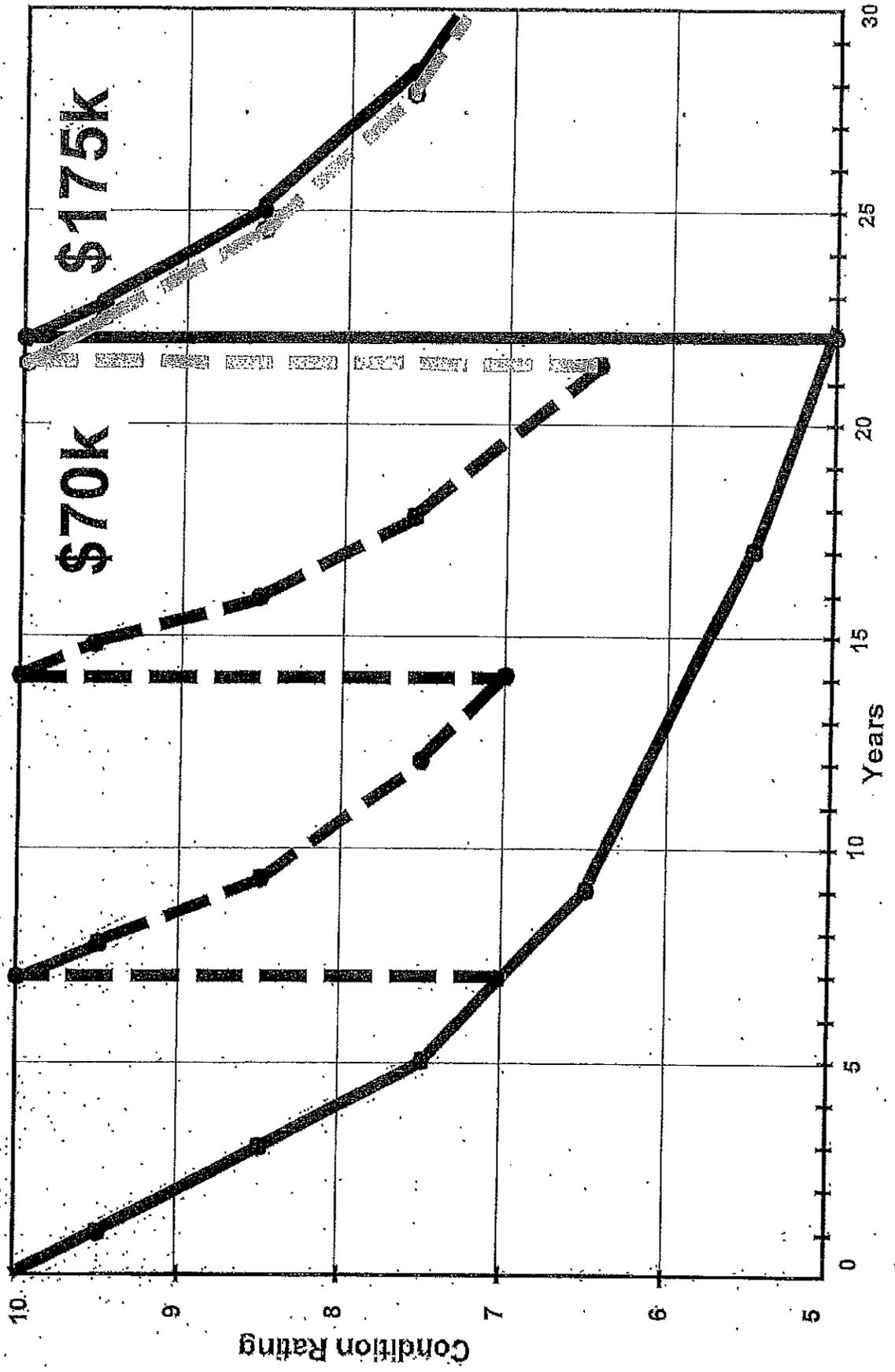
# Cost of Rehab after 22 years of Deterioration



# Cost of 3 Surface Treatments after @ 7 years Deterioration (7, 14, and 22 years)



# Cost Comparison between Three, 7-year Treatments and One, 22-year Treatment



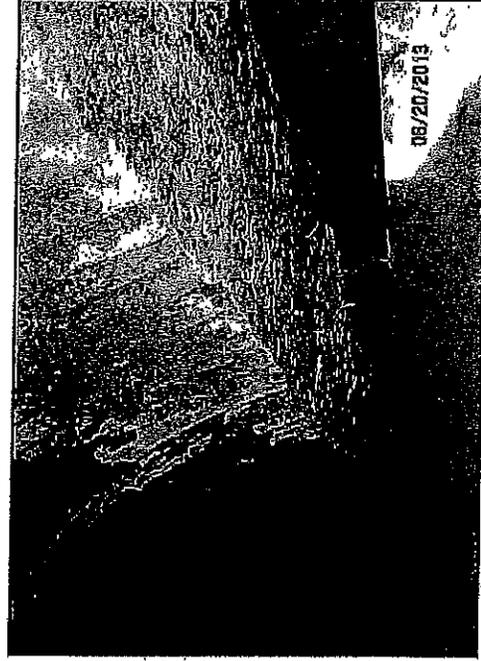
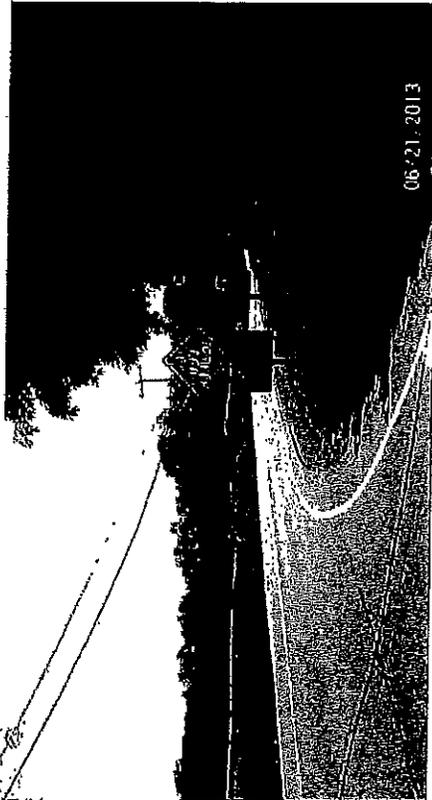
# 2015 Pavement Management Program

- Total Estimated Cost = \$2 Million
- Approximately 10 Centerline Miles of County Highway to receive treatment
- Treatments may include:
  1. Hot Mix Application (HMA) resurfacing
  2. Cold In-Place Recycling
  3. Full-Depth Reclamation (FDR)
  4. Heating/Scarifying/Overlay
  5. Fiber Mat w/ surface treatment
  6. Specialty Surface Treatments  
(Nova-Chip, Slurry-Seal, Chip-Seal, Ultra-thin)

# Bridge Rating Scale

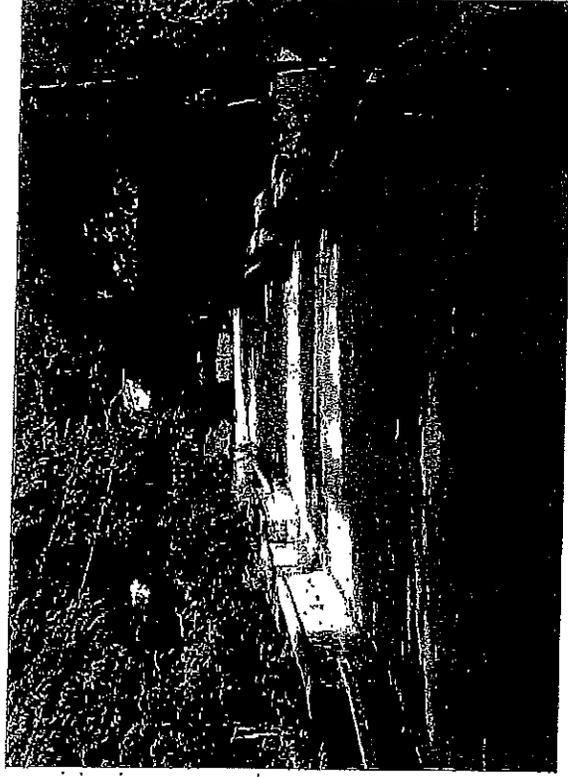
- ▶ 1 - Totally deteriorated, or in failed condition.
- ▶ 2 - Used to shade between ratings of 1 and 3.
- ▶ 3 - Serious deterioration, or not functioning as originally designed.
- ▶ 4 - Used to shade between ratings of 3 and 5.
- ▶ 5 - Minor deterioration, but functioning as originally designed.
- ▶ 6 - Used to shade between ratings of 5 and 7.
- ▶ 7 - New condition. No deterioration.
- ▶ 8 - Not applicable.
- ▶ 9 - Condition and/or existence unknown.

# Proposed 2015 Bridge Projects



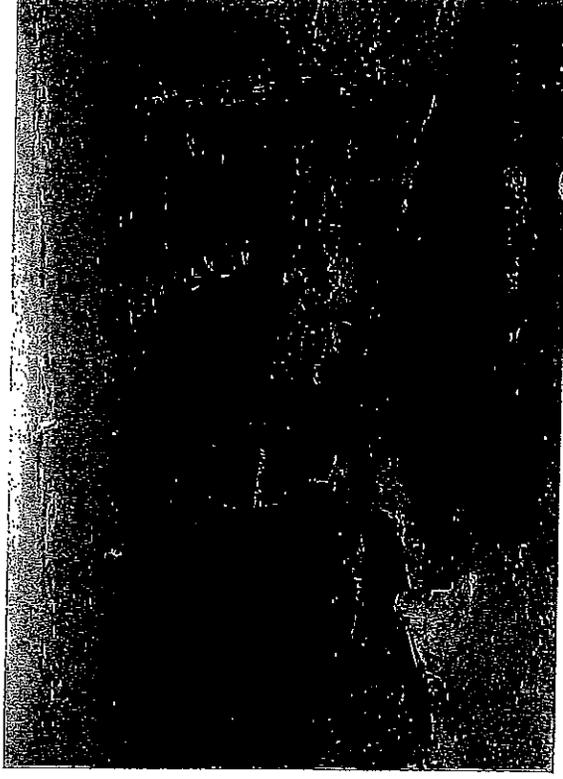
Bridge Replacement  
Bridge RH-18, Linden Ave. (CR 79) over Saw Kill,  
Town of Red Hook

# Proposed 2015 Bridge Projects



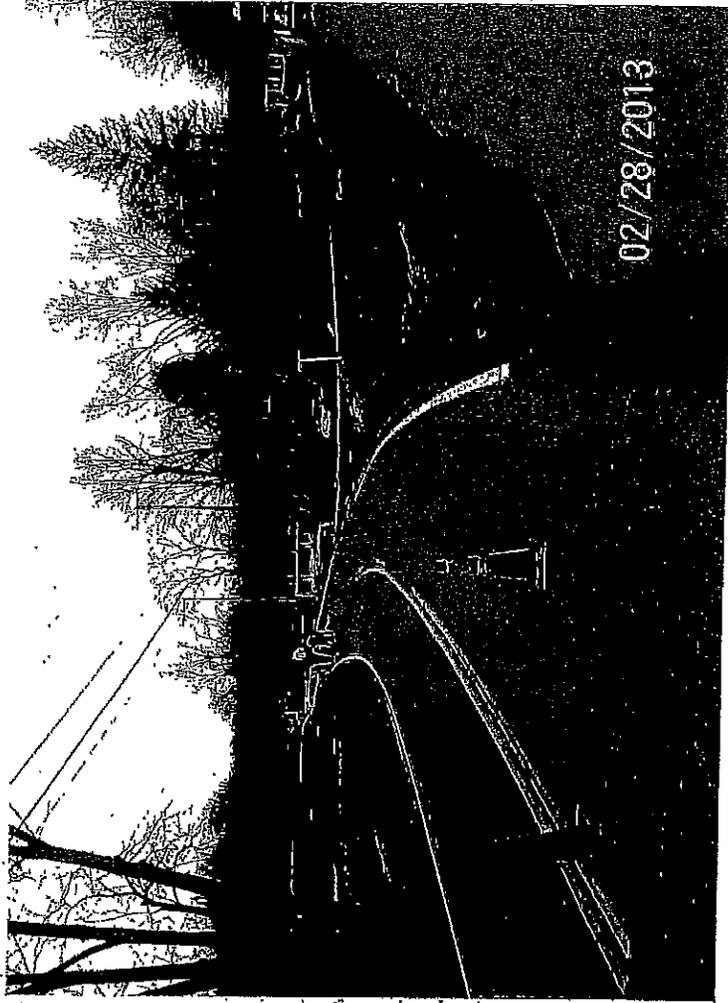
Bridge Replacement  
Bridge PP-2, Hoffman Road over Shekomoko Creek  
Town of Pine Plains

# Proposed 2015 Culvert Project



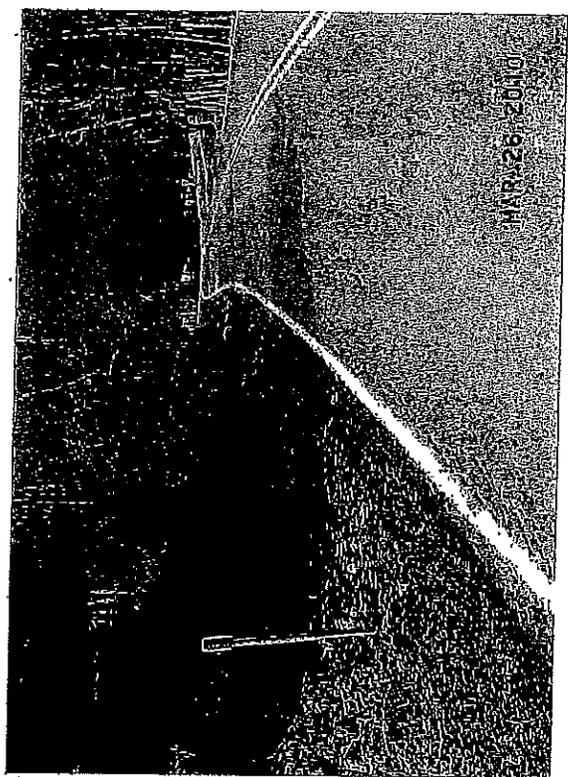
Culvert M-9 Repairs, Turkey Hill Road (CR 56) over  
unnamed stream, Town of Milan

# 2015 Highway Safety Project



Intersection Improvements at CR 72 (North Avenue) and Hurley Road, Town of Pleasant Valley.

# 2015 Highway Safety Project



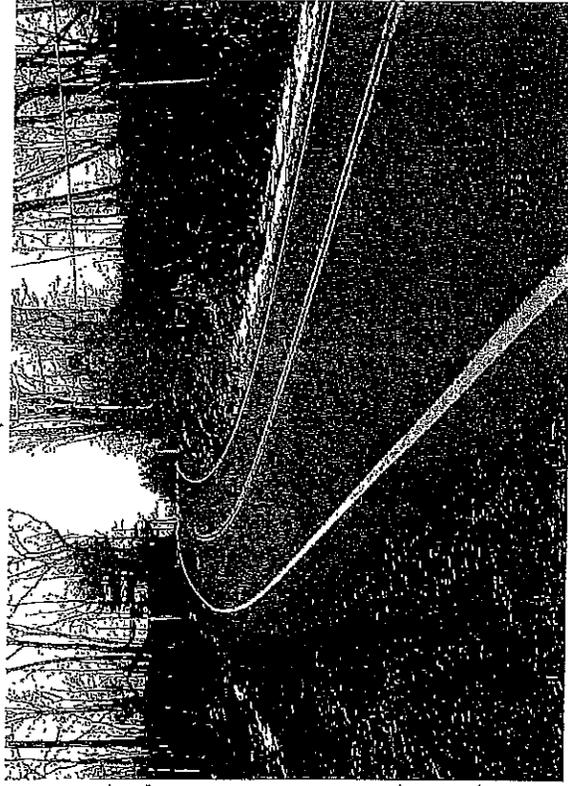
Retaining Wall Replacement, CR 50 (Mt. Ross Road), Town of Pine Plains

# 2015 Highway Safety Project



Intersection Improvements at CR 103 (River Road) and Mt. Rutsen Road,  
Town of Rhinebeck

# 2015 Highway Safety Project



Intersection Improvements at CR 78 (West Kerleys Corners Road) & NYS Route 9G



# 2015 Road and Bridge Improvement Program

- ▶ Pavement Management Program ▶ \$2,000,000
- ▶ Bridge/Culvert Improvement Program ▶ \$5,650,000
- ▶ Misc. Highway, Safety and Drainage  
Improvement Program ▶ \$775,000
- ▶ Estimated Total 2014 Project Costs ▶ \$8,425,000
  
- ▶ Anticipated CHIPS Funds (NYS) ▶ -\$3,008,168

**2015 Net Total Program Request**

**\$5,416,832**



ORRICK

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April 15, 2015

Douglas E. Goodfriend  
(212) 506-5211 (Direct Dial)  
dgoodfriend@orrick.com

**VIA E-MAIL** (hseelbach@ dutchessny.gov)

Ms. Heidi Seelbach  
Commissioner of Finance  
Dutchess County  
Department of Finance  
22 Market Street  
Poughkeepsie, New York 12601-3294

Re: County of Dutchess, New York  
Bridge, Culvert and Highway Improvements - \$5,471,000 Bonds  
Orrick File: 43218-2-104

Dear Heidi:

In accordance with your recent request, I have prepared and enclose herewith a form of bond resolution supplementing the bond resolution authorizing the issuance of \$5,471,000 serial bonds to pay a portion of the cost of highway, culvert and bridge improvements.

If utilized, please see that the resolution is adopted by the affirmative vote of at least two-thirds of the entire voting strength of the County Legislature and that the Legal Notice of estoppel of the bond resolution, a form of which I enclose herewith for your convenience, is published once in the official newspapers of the County.

When available, kindly return to me a certified copy of the enclosed resolution, together with an original printer's affidavit of publication of the Legal Notice of estoppel of the resolution from each of the newspapers in which the same is published.

With best wishes,

Very truly yours,

*Douglas*

Douglas E. Goodfriend

DEG/zmt  
Enclosures  
761150676.02

cc: Ms. Debbie Wiands (dwiands@co.dutchess.ny.us)