



DANIEL P. MCCOY  
COUNTY EXECUTIVE

DANIEL C. LYNCH  
DEPUTY COUNTY EXECUTIVE

COUNTY OF ALBANY  
DEPARTMENT OF PUBLIC WORKS  
449 NEW SALEM ROAD  
VOORHEESVILLE, NEW YORK 12186-4826  
(518) 765-2055 - FAX (518) 447-7047  
[WWW.ALBANYCOUNTY.COM](http://WWW.ALBANYCOUNTY.COM)

LISA M. RAMUNDO, PE  
COMMISSIONER

SCOTT D. DUNCAN  
DEPUTY COMMISSIONER

## ***MEMORANDUM***

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TO: Laura DeGaetano, Sr. Natural Resource Planner

FROM: William Anslow, Civil Engineer

DATE: October 1, 2020

RE: SEQR Determinations for DPW Highway Projects

Albany County DPW is requesting SEQR Determinations for the following projects proposed for 2021:

- 1) Hauling and Placing of Asphalt Concrete on Various County Roads
- 2) Highway Pavement Recycling Project on Various County Roads
- 3) CR157 (New Karner Rd.) Highway Improvement Project
- 4) DPW's Replacement of Vehicle/Equipment
- 5) CR55 (Creble Road) over Vloman Kill (Culvert Relining Project)
- 6) CR256 (Ketcham Road) over Tributary to Black Creek (Culvert Replacement)
- 7) CR357 (Fox Creek Road) over Ten Mile Creek (Superstructure Replacement)
- 8) CR405 (Sunset Hill Road) over Eight Mile Creek (Culvert Replacement)

These projects are located in Berne, Bethlehem, Colonie, Guilderland, Knox, New Scotland, Rensselaerville and Westerlo.

1) Hauling and Placing (CHIPS): milling of existing top course asphalt (2") and placement of new top course asphalt (2") on the following roads:

- CR6 (Ravine Rd.) from NY85 to CR1 (Towns of Berne & Rensselaerville)  $\approx$  5.8 miles
- CR9 (Bradt Hollow Rd./Canaday Hill Rd.) from NY443 to Dutch Settlement Rd. (Town of Berne)  $\approx$  3.8 miles
- CR12 (Rapp Rd.) from CR10 to CR10 (Towns of Berne & Rensselaerville)  $\approx$  2.4 miles
- CR154 (Osborne Rd.) from CR152 to NY9 (Town of Colonie)  $\approx$  500 ft.
- CR204 (Krumkill Rd./Russell Rd.) from Schoolhouse Rd. to City of Albany Line (Town of Bethlehem)  $\approx$  1.3 miles
- CR256 (Ketcham Rd.) from NY157 to NY157 (town of Knox)  $\approx$  1.7 miles
- CR259 (Beebe Rd.) from CR255 to CR252 (Town of Knox)  $\approx$  3.3 miles
- CR307 (Picard Rd.) from NY85A to NY156 (Town of New Scotland)  $\approx$  2.3 miles
- CR404 (Bear Swamp Rd.) from NY32 to CR402 (Town of Westerlo)  $\approx$  4.4 miles

TOTAL  $\approx$  25 MILES

COST ESTIMATE \$2,940,000.00

2) Highway Pavement Recycling Project (Bond): Placement of recycled pavement is proposed for the following roads:

- CR12 (Rapp Rd.) from CR10 to CR10 (Towns of Berne & Rensselaerville)  $\approx$  2.4 miles
- CR9 (Bradt Hollow Rd./Canaday Hill Rd.) from NY443 to Dutch Settlement Rd. (Town of Berne)  $\approx$  3.8 miles
- CR256 (Ketcham Rd.) from NY157 to NY157 (Town of Knox)  $\approx$  1.7 miles

TOTAL MILEAGE IS  $\approx$  7.9 MILES

ESTIMATED COST IS \$950,000.00

These projects will be accomplished using the cold-in-place pavement recycling method.

In the cold-in-place process, the existing roadway surface will be milled to a depth of 4"±. Loose stone is then added to the road as necessary. During the milling process, the milled pavement, along with the added stone, will be screened in a closed on-site unit to remove excess fines and/or deleterious material. The recycled pavement is then blended with liquid asphalt and transferred into a paver and placed back down on the roadway as a new base layer. This layer is then compacted with a roller to restore and strengthen the base, prolonging the life of the pavement without the cost and area of disturbance of full depth replacement.

The roads are paved with 2" of top course asphalt as part of the Hauling and Placing Asphalt Project.

The projects do not require a GP-0-10-001 permit. All activity occurs on existing pavement with 6"± of subbase to remain intact. This activity will not disturb more than an acre of land, and will not add any additional impervious area. All disturbed areas will be at a distance greater than a quarter mile between any disturbed activities (i.e. any excavation of failed shoulder material or isolated full depth areas throughout the property).

3) CR157 New Karner Rd. Highway Improvement Project (Bond) (Federal Aid):

This project involves pavement rehabilitation, safety improvements, signal timing updates and addition of complete street components along New Karner Road from US20 to Watervliet Shaker Road.

Design and Construction Inspection Cost Estimate \$460,000.00  
Construction Cost Estimate is \$5,061,000.00

4) DPW's Replacement of Vehicles/Equipment (Bond):

Public Works is proposing to replace heavy duty trucks and equipment in accordance with the DPW Vehicle Replacement Plan.

Total Cost for the Replacement is Estimated at \$1,270,000.00

5) CR55 over Vloman Kill (Culvert Relining Project) (Bond):

This project proposes to reline 3 (three) deteriorated corrugated metal pipes built in 1976. The pipes are 145' long x 35' wide. The culverts have deteriorated to the point that rehabilitation is necessary. The cost to rehabilitate will be 3-4 times less expensive than full replacement.

Design & Construction Inspection Costs Estimate is \$201,000.00  
Construction Cost Estimate is \$750,000.00

6) CR357 over Ten Mile Creek (Superstructure Replacement) (Bond):

This project proposes to replace a deteriorated prestressed concrete beam superstructure with new galvanized steel beams and a concrete deck. Minor work will be done to the abutments. Some approach work will be required. New bridge rail will also be installed.

Design & Construction Inspection Costs Estimate is \$150,000.00  
Construction Cost Estimate is \$700,000.00

7) CR256 over Tributary to Black Creek (Culvert Replacement) (Bond):

This project proposes to remove the existing 30' long, 5.33' x 7.67' wide corrugated metal pipe connected to a 20' long, 5.25' x 8' concrete box culvert and replace with a pre-cast concrete box culvert. Minor approach work, paving and new railing are also included.

Design & Construction Inspection Costs Estimate is \$150,000.00  
Construction Cost Estimate is \$450,000.00

8) CR405 over Eight Mile Creek (Culvert Replacement) (Bond):

This project proposes replacing the existing triple 60' long, 5' diameter corrugated metal pipes with a single pre-cast concrete box culvert. Minor approach work, paving and new railing are also included.

Design & Construction Inspection Costs Estimate is \$155,000.00

Construction Cost Estimate is \$715,000.00

Please contact me if you need any additional information. Thank you.