

ROBERT W. MACAULAY, ASSISTANT ENGINEER



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EDUCATION

BS ENVIRONMENTAL STUDIES
SUNY COLLEGE OF ENVIRONMENTAL
SCIENCE & FORESTRY, SYRACUSE NY

REGISTRATIONS & AFFILIATIONS

NYSTATE MEMBER SINCE 1983

PROJECT NOTES:

ALL PROJECTS DESIGNED UNDER
NYSDOT

PREVIOUS EXPERIENCE:

ASSISTANT ENGINEER, HIGHWAY DESIGN
CIVIL ENGINEER 1, HIGHWAY DESIGN
PRINCIPAL ENGINEERING TECHNICIAN
SENIOR ENGINEERING TECHNICIAN
ENGINEERING TECHNICIAN

With over 35 years of NYSDOT civil engineering practice, Mr. Macaulay has been involved in many aspects of the design and construction project process.

Mr. Macaulay especially enjoys taking the design lead in solving unique and challenging highway designs with creative, sensible, cost-effective, and environmental solutions. He has been a Highway design and CADD resource for the Region Design Group for over 20 years.

Some of the project types Mr. Macaulay has designed are: highway realignments, bridge rehabilitations and replacement, traffic control plans, stormwater management plans, closed drainage systems, and ADA Pedestrian accommodations.

Mr. Macaulay was one of the first to promote networked computer training throughout NYSDOT.

Prior to joining NYSDOT, Mr. Macaulay worked for Creighton Manning Engineering in Albany, NY on traffic studies and commercial development projects.

Project Experience

NYS 42 RECONSTRUCTION, MONTICELLO, NY, \$6.000 M

Mr. Macaulay was lead designer and received an Award for Context Sensitivity in this complete highway reconstruction project. Design entailed full depth highway reconstruction, unique sidewalk ramp solutions, context sensitive lighting, rails, & snow storage treatment along with complete water, sewer, and storm system replacement.

NYS 17C, JOHNSON CITY, MILL/FILL & SIDEWALK, NY, \$6.000 M

This mill & fill project required the evaluation of over 100 ADA ramps and sidewalks. NYSDOT ADA/PROWAG requirements had recently been established requiring the re-evaluation of over 100 sidewalk ramps through the Village that were less than a year old. Of those evaluated, over 60 were reconstructed as part of this project.

I81 BRIDGE REPLACEMENT, WHITNEY POINT NY, \$12.000 M

Mr. Macaulay was lead designer in this replacement of four consecutive bridges on I81 in Whitney Point. Several unique phasing schemes and Traffic Control plans were required especially related to the Tioughnioga River.

NYSDOT SOUTHERN TIER WELCOME CENTER, KIRKWOOD, NY, \$3.000 M

As Lead Site Designer, Mr. Macaulay designed all aspects of the site including the stormwater management and greywater system new composting septic system. A unique feature was a new composting system that reduces water consumption by 95%.

I81/FIVE MILE POINT, BRIDGE, KIRKWOOD, NY, \$8.000 M

Mr. Macaulay was the lead designer on this bridge replacement project. The critical nature of the Traffic Control Plan and construction phasing created several design challenges.

VARIOUS PROJECTS, REGION 9, NY, \$1.000-10.000 M

- Chilloway Road, Delaware County, NY
- NYS 10, Safety Improvements, Walton, NY
- Hancock By-pass, Sullivan County, NY