Upper Route 9G
Corridor Management Plan

PRESENTED BY
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PDCTC Background
Upper Route 9G Corridor Management Plan
Who We Are:

- Designated Metropolitan Planning Organization (MPO) for Dutchess County (one of 14 in New York State)
- Established in 1982
- Required by the federal government for Urbanized Areas of 50,000+ population
- Forum for establishing transportation policies and priorities
- Programs federal highway and transit funding through a locally driven planning process
- **Assists communities with their local transportation planning needs**
Previous Planning Projects

- **Route 9 Land Use & Transportation Study (2009)**
  - Pedestrian underpass at Marist College

- **Transit Development Plan (2009)**
  - New bus routes and schedules

- **CR 93 Corridor Management Plan (2011)**
  - Traffic analysis and recommendations

- **Dutchess County Bus Expansion Study (2013)**
  - Strategy to expand DCPT service in Poughkeepsie

- **Sidewalk Studies (2011-ongoing)**
  - Rhinebeck, Hyde Park, Pine Plains, & Arlington
  - Leverage for grant opportunities & funding
**PDCTC Voting Membership**

**Permanent Members**
- Dutchess County Executive, *Chairperson*
- NYSDOT Commissioner, *Secretary*
- Metropolitan Transportation Authority (MTA)
- City of Beacon Mayor
- City of Poughkeepsie Mayor
- Town of Beekman Supervisor
- Town of East Fishkill Supervisor
- Town of Fishkill Supervisor
- Town of Hyde Park Supervisor
- Town of LaGrange Supervisor
- Town of Poughkeepsie Supervisor
- Town of Wappinger Supervisor

**Partially Urbanized Towns (Rotating)**
- Town of Pawling Supervisor
- Town of Pleasant Valley Supervisor*
- Town of Union Vale Supervisor

**Urbanized Villages (Rotating)**
- Village of Fishkill Mayor
- Village of Pawling Mayor*
- Village of Wappingers Falls Mayor

**Non-Urban Towns (Nominated)**
- Town of Clinton Supervisor
- Town of Pine Plains Supervisor

* Current voting member.

**16 Voting Members**
Project Introduction

Upper Route 9G Corridor Management Plan
Project Scope of Work

✓ Task 1: Data Gathering
  – Peak Hour Turning Movement Counts
  – Ped/Bike volume counts
  – Ped/Bike Origin & Destination surveys

✓ Task 2: Analyze Existing Conditions
  – Crash Analysis (2009-2013 data)
  – Crash Diagrams

✓ Task 3: Road Safety Audit (RSA)

✓ Task 4: Assess Future Conditions
  – 10-year planning horizon

✓ Task 5: Develop Improvement Strategies

▪ Task 6: Complete Final Plan

Goal: identify short- and long-range recommendations to improve vehicular and non-vehicular safety and mobility in the study area.
Project Study Area

Road Segments
1. Route 9G: Route 199-CR 78
2. CR 78 (Broadway) through Tivoli
3. CR 103 (Annandale Rd.) through Bard

Intersections
1. CR 78 (Broadway)/Montgomery St./North Rd.
2. Route 9G/CR 78 (W. Kerley Corners Rd.)
3. Route 9G/Kidd Ln.
4. Route 9G/CR 79 (Budds Corners Rd.)
5. Route 9G/CR 103 (Annandale Rd.)
6. Route 9G/Entrance Rd. (Bard College)
7. Route 9G/Kelly Rd./River Rd.
8. CR 103 (Annandale Rd.)/River Rd.
9. Route 9G/Route 199 (W. Market St.)
Project Milestones

- Kick-off Meeting: Feb. 2015
- Turning Movement Counts: Apr. 2015
- Ped/Bike Counts/Surveys: May 2015
- Public Workshop #1: May 2015
- Stakeholder Interviews: Jun. 2015
- Road Safety Audit (RSA): Sep. 2015
- Public Workshop #2: May 2016
Recommendations

- 54 recommendations (not counting repairs to be addressed through maintenance activities)
- Grouped by location & jurisdiction:
  - Overall Study Area
  - Trails & Shared-use Paths
  - Corridors & Intersections (Route 9G, CR 78, & CR 103)
  - Transit
- Includes estimated costs
- Final Plan and Supporting Documents available online at http://www.dutchessny.gov/pdctc.htm

Project relied on the participation of an Advisory Committee to guide study and review interim work products.
Overview of Corridor Management Plan

Upper Route 9G Corridor Management Plan

- Provide public with an overview and status update on recommendations
Implementation Schedule

- Immediate (< 1 year)
- Mid-term (1-5 years)
- Longer-term (6-10 years)
- Continuing/Ongoing

Recommendations

Address user, land use, and design practices that will advance responsible corridor use and development, contributing to a safer travel environment.

Concerns:
- Speeding
- Impaired Driving
- Visibility
- Minimizing conflicts

(Bard sign near 9G)
Overall Study Area Recommendations

OS-1 Targeted Enforcement & Portable Speed Feedback Devices

OS-2 Annual Road Safety Awareness Campaign

OS-3 Consider Complete Street Design Principles

OS-4 Incorporate Dutchess County Planning Dept.’s Greenway Guides Principles:

- Building Placement
- Narrow streets in hamlet centers
- Development in existing centers
- Street trees
- Bicycle Plans
- Consolidated driveways
- Shared parking
- Rural feel for low volume roads

OS-5 Consider permanent driver-feedback speed signs

3-E’s: Education, Enforcement & Engineering
Trails & Paths
Upper Route 9G Corridor Management Plan
Implementation Schedule

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Recommendations

Pedestrian & Bike Comments (Public Workshops):

- Install measures to slow traffic
- Provide a path through Tivoli Bays
- Sidewalks are needed on both sides of CR 103 through Bard
- No safe bike route from Bard College to Tivoli or along CR 103
**P-1** Pedestrian-bicycle connection between Bard Main Campus to Montgomery Place

**P-2** Pedestrian-bicycle facility to connect Bard Main Campus to Village of Tivoli, through Tivoli Bays

**P-3** Pedestrian-bicycle facility to connect Montgomery Place to CR 82 (Barrytown Rd.)/UTS

**P-4** Widen existing shared-use path along CR 103 (Annandale Rd.) to a minimum of 10 feet.
A-1 Consider reducing speed limit to 45 mph corridor-wide

A-2 Repave and seal sections of Route 9G

A-3 Consider installing roadside delineators on curves

A-4 Consider consolidating signs on Route 9G to reduce clutter

A-5 Evaluate the need to upgrade existing guiderail and end treatments to current standards or add new guiderail

A-6 Install Deer and Bicycle warning signs

A-7 Install traffic calming measures to encourage lower speeds and serve as gateways to the corridor

A-8 Seek to provide 11’ vehicle lanes and 4’ shoulders
Route 9G Intersection Existing Conditions: CR 78/W. Kerley Corners Rd.

9G southbound

CR 78 westbound at 9G

Limited sight distance

Fixed objects

9G from Jaeger House driveway (looking south)
**Route 9G at CR 78 (W. Kerley Corners Rd.) Intersection Recommendations**

**Immediate Term (within 1 year)**

2-1 Improve profile and alignment of westbound CR 78 approaching Route 9G

2-2 Continue to monitor, on a regular basis, the effectiveness of the recently installed safety improvements (flashing light) at the intersection

2-3 Supplement intersection warning sign on Route 9G with flashing beacon

2-4 Add a sign plaque, “Cross Traffic Does Not Stop” (W4-4P) to the Stop signs on the CR 78 approaches to Route 9G

2-5 Consider reducing the speed limit on CR 78 approaching Route 9G to 45 mph

2-6 Replace the static “Stop Ahead” sign on CR 78 westbound with a “Stop Ahead” sign with embedded and flashing LED lights.
Route 9G at CR 78 (W. Kerley Corners Rd.) Intersection Recommendations

Mid-Term (2-5 years)

2-7 Improve lighting at the intersection to provide better visibility

2-8 Assess effectiveness of flashing red signal and larger stop signs

2-9 Undertake an engineering study to determine whether a full traffic signal or roundabout can be installed on Route 9G at CR 78

2-10 Evaluate the feasibility of reducing the grade of Route 9G south of the CR 78 intersection (as may be required for signal installation)

2-11 Implement land-use planning regulations consistent with the improvements proposed for the intersection of Route 9G with CR 78
Route 9G at Kidd Ln. Intersection Recommendation

Mid-Term (2-5 years)

3-1 Evaluate the safe operation of the passing lane on Route 9G

Route 9G/Kidd Ln. looking south
Route 9G at CR 79 (Budds Corners Rd.) Intersection

Immediate Term (within 1 year)

4-1 Reduce the speed limit on CR 79 approaching Route 9G to 45 mph

Mid-Term (2-5 years)

4-2 Study options to make CR 79 (Budds Corners Rd.) a “T” intersection
Immediate Term (within 1 year)
4-1 Reduce the speed limit on CR 79 approaching Route 9G to 45 mph

Mid-Term (2-5 years)
4-2 Study options to make CR 79 (Budds Corners Rd.) a “T” intersection
Mid-Term (2-5 years)

5-1 Perform traffic signal warrant analysis for three-way signal or Rapid Rectangular Flashing Beacon (RRFB), including high-visibility crosswalks

5-2 Install a sidewalk on Old Whalesback Rd. from Route 9G to Whalesback Rd.
Immediate Term (within 1 year)
6-1 Add directional guide sign advising motorists that they are approaching the entrance to Bard College

Mid-Term (2-5 years)
6-2 Study installation of a full signal, an RRFB or HAWK, and high-visibility crosswalks and appropriate reuse of Bard building

Route 9G at Entrance Rd. Intersection Recommendations

Possible crosswalk

WARNING!
YOU ARE ABOUT TO CROSS A MAJOR HIGHWAY.
PROCEED WITH EXTREME CAUTION!

Route 9G north at Entrance Rd.
Route 9G looking south from Bard building
Route 9G at River/Kelly Rd. Intersection Recommendations

Immediate Term (within 1 year)

7-1 Install ‘No Turn on Red’ signs facing River and Kelly Rd.
7-2 Evaluate skid resistance of pavement for Route 9G northbound; repair as necessary
7-3 Evaluate grade change and signal clearance timings when crossing Route 9G
7-4 Enhance lighting at the intersection
CR 103 (Annandale Rd.)
Upper Route 9G Corridor Management Plan
CR 103 (Annandale Rd.) Corridor-Wide Recommendations

**Mid-Term (2-5 years)**

**B-1** Request that CR 103 be reclassified as a lower-volume, lower-speed Urban Minor Collector roadway

**B-2** Develop improved wayfinding signing for Bard College

**B-3** Assess pedestrian crosswalk locations/design to improve pedestrian operations & safety

**B-4** Consider installing RRFBs between south and north Campus Road

**B-5** Evaluate reducing speed limit to 35 mph between River Rd. and CR 82 (Barrytown Rd.)

Incorrect in-street sign placement

Use consistent crosswalk style
CR 103 (Annandale Rd.) Corridor-Wide Recommendations

Long-Term (6-10 years)

B-6 As part of the Bard Master Plan, incorporate such traffic calming elements as:

- Gateway treatments
- Raised pavement surfaces
- Curb bump-outs
- Narrower pavement width

B-7 Extend the sidewalk along CR 103 from Campus Rd. to Route 9G

B-8 At the CR 103 intersection with Cruger Island Rd., evaluate options for reconstructing the intersection as a perpendicular T-intersection to better channelize traffic

New sidewalk on CR 103

Possible “T” intersection
Long-Term (6-10 years)

B-8 At the CR 103 intersection with Cruger Island Rd., evaluate options for reconstructing the intersection as a perpendicular T-intersection to better channelize traffic.
Long-Term (6-10 years)

8-1 Consider reconfiguring the River Rd. triangle with a one-way circulation system on 2 of the 3 “triangle legs” and add sidewalks and crosswalks connecting to the existing sidewalk along CR 103

CR 103 looking south towards the triangle

River Rd. looking west towards the triangle
8-1 Evaluate options to reconstruct the intersection as a traditional “T” with traffic signal, roundabout or possible alternative configuration
CR 78 (Broadway)

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CR 78 (Broadway) Corridor-Wide Recommendations

C-1  Add a guide rail on the south side of Broadway west of Dock Rd.
C-2  Extend a sidewalk on one side of Broadway from Pine St. to the Hudson River
C-3  Change functional classification to Urban Minor Collector

CR 78 (Broadway) looking east from Kaatsbaan
**Maintenance Recommendations (Examples)**

**M-1** Trim vegetation and/or relocate signs to avoid sign obstructions

**M-2** Replace damaged guiderail along Route 9G

**M-3** Restripe pavement markings

**M-6** Install additional Deer Crossing warning signs

**M-8** Evaluate location of the existing intersection warning signs along Route 9G approaches to Kidd Ln.

**M-12** Improve visibility from CR 79 onto Route 9G by cutting back vegetation to improve sight lines

**M-13** Repaint stop bars on Old Whalesback Rd.

**M-15** Check mounting height of signs
Sponsor Review of Recommendations
Upper Route 9G Corridor Management Plan
NYSDOT-Region 8
Upper Route 9G Corridor Management Plan
Dutchess County DPW
Upper Route 9G Corridor Management Plan
Bard College
Upper Route 9G Corridor Management Plan
Town of Red Hook
Upper Route 9G Corridor Management Plan
Questions?

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http://www.dutchessny.gov/pdctc.htm
(click on ‘Community Planning Initiatives; Upper Route 9G)