

Massachusetts Highway Department – District 5 Project Need Form (PNF)

This form is intended to provide preliminary information about the proposed project. It is not expected that all information that is asked for is available or known but applicants are encouraged to complete the form as fully as possible.

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Project Reference No. (to be filled out by MassHighway): _____

PART I – LOCATION IDENTIFICATION AND DESCRIPTION OF NEED

Municipality: Town of Chatham

Route and/or Street(s): Intersection: Route 28/Crowell Road/Depot Road/Queen Anne Road

Bridge ID Number (if applicable): N/A

Who owns the roadway/facility? Commonwealth of Massachusetts – Rte. 28

Town of Chatham – Crowell Rd., Depot Rd., Queen Anne Rd.

Estimated project limits by mile marker and station from MassHighway’s roadway database or other distinguishing landmarks such as cross street(s). Include a locus map of the project and photos illustrating project need:

Start: Station 71

End: Station 71

Total Mileage: N/A

Please provide a brief description of the project need:

Intersection improvements to facilitate traffic flow, reduce accidents and improve pedestrian and bicycle access.

Estimated Construction Cost: \$750,000

Does the project have Federal Funding? Yes No

If yes, legislation: N/A Amount: \$ N/A

Is the project authorized in a state transportation bond bill? Yes No

If yes, bill: N/A Amount: \$ N/A

PART II – PROJECT BACKGROUND

In what type of area is the project located? *Project limits may include more than one type of area. For a definition of areas, please refer to Chapter 3 of the Guidebook.*

- Rural Natural Suburban High Density
- Rural Village Suburban Village/Town Center
- Rural Developed Urban Residential or CBD
- Suburban Low Density

How does the roadway/facility function in the community?

- High-speed, primary corridor with limited access
- Moderate speed, major corridor between towns/regions
- Low to moderate speed corridor between towns/regions
- Moderate speed, major street connecting residential areas to a town center or major connector
- Low to moderate speed street connecting residential areas with other streets
- Primarily or exclusively a residential street

What is the federal functional classification of the road?

- Interstate Rural Principal Arterial
- Urban Principal Arterial Rural Minor Arterial (*Urban Extension of*)
- Urban Minor Arterial Rural Major Collector
- Urban Collector Rural Minor Collector

Is the proposed project on the National Highway System? Yes No

Does the project have any Intelligent Transportation System Components?

Yes No If yes, describe: _____

Is the project a footprint road project? Yes No

Is the project a footprint bridge project? Yes No

Provide whatever information is available to characterize the current, general use of the facility (attach traffic counts).

| CHARACTERISTIC | USE/DATA | DATA SOURCE | NOT AVAILABLE/ Comments |
|--|----------------------|--------------|----------------------------|
| Number of Lanes | 2 | Existing | |
| Lane Width | 14' | Existing | |
| Shoulder Width | - | | |
| Sidewalk Availability/Width | 2 sides (4' each) | | |
| Bicycle Facility Availability/Width | - | | |
| Existing Right of Way | 60' | State Layout | |
| Current Average Annual Daily Traffic (AADT) | 14,513 | CCC | |
| Current Peak Hour Vehicular Volume | 1,587 | CCC | |
| Current Peak Hour Bicycle Traffic | 20 | | |
| Current Peak Hour Pedestrian Traffic | 25 | | |
| Percent Truck Traffic | 1.6% | | |
| Current Transit Operations/Facilities | Regional Bus | | |
| Traffic Control (signal, flash, signs, etc.) | Signals | | |
| Roadway Lighting | | | |
| Pavement Condition and Markings | Poor | | |
| Posted Speed Limit | | | |
| 85th Percentile Speed | | | |

PART III – TRANSPORTATION NEEDS ASSESSMENT

Choose a project type – Roadway, Sidewalk or Multiuse Path; Bridge or Other. Answer the questions that apply to the proposed project. Depending on the nature of the project, not all questions need to be answered. For all projects, answer **For All Projects**.

Roadway, Sidewalk, Multiuse Path

- Preventive Maintenance
- Rehabilitation/Resurfacing
- Reconstruction Widening
- New Facility
- Intersection, Roundabout or Traffic Signal Improvements
- New Interchange or Interchange Reconfiguration
- Safety

What is the condition of the facility, e.g. extent of cracking, deterioration, rideability/walkability, surface condition, structural adequacy, etc.? Include a pavement management system (PMS) condition rating from a MassHighway approved PMS, as appropriate, and attach photo documentation with this submittal showing typical facility surface or site conditions.

Route 28 (State Highway) scheduled for resurfacing in 2010.

What year was the last repair made to the facility (at minimum a preventative maintenance treatment)?

Approximately 20 years.

What repair was made to the facility? (Use repair typed above and describe)

Scheduled road resurfacing

What is the crash history or other safety concerns of the facility? (For safety projects, consult MassHighway's Traffic Division for more detailed analysis requirements).

1999-2001: Rte. 28/Crowell Rd. – 9 accidents (source: MHD). Inadequate pedestrian facilities (i.e. crosswalks/sidewalks). Outdated signals, poor intersection geometry.

Are there mobility issues for motorists, bicyclists or pedestrians? (As an alternate to this question, attach Transportation Evaluation Criteria Form.)

Substandard intersection geometry, difficult turning movements, inadequate crosswalk markings, curb cuts do not meet ADA standards, inadequate sidewalks, no bicycle facilities.

Are there congestion issues? Provide level of service analysis results if necessary. (As an alternate to this question, attach Transportation Evaluation Criteria Form.)

Yes – Data not available.

What other conditions exist that warrant this project? (As an alternate to this question, attach Transportation Evaluation Criteria Form.)

Evaluate the impact of the project on the following resources/environmental conditions. If major impact”, “minor impact”, or “will improve” are selected, describe below. (As an alternate to this question, attach Transportation Evaluation Criteria Form.)

| RESOURCE/ CONDITION | MAJOR IMPACT | MINOR IMPACT | NO IMPACT | WILL IMPROVE | UNKNOWN |
|------------------------|-----------------|-----------------|--------------|-----------------|---------|
| Cultural Resources | | | | | X |
| Wetlands | | | | | X |
| Hazardous Materials | | | | | X |
| Air Quality | | | | | X |
| Noise | | | | | X |
| Other | | | | | |

Bridge

- Maintenance
- Rehabilitation
- Replacement
- New or Widening

What is the bridge rating and date of inspection?

N/A

- Structurally Deficient?
- Functionally Obsolete?
- Posted?
- Unknown?

What is the condition of the bridge elements?

N/A

What is the condition of other infrastructure elements?

Substandard intersection geometry/ drainage is substandard.

What is the schedule of preventative maintenance?

2010 Resurfacing.

If a new bridge or a bridge that does not meet current eligibility requirements, describe why the project is proposed.

N/A

Other

- New or Expanded TDM/Park and Ride Lot
- New or Expanded Traffic Management System
- Traffic Calming, Streetscape, Lighting, or Transit Improvements
- Intelligent Transportation Systems
- Other

Describe the conditions that warrant the project.

Intersection needs include: improving bike and pedestrian facilities, bringing intersection into compliance with ADA standards, improving intersection geometry

For All Projects

Describe Right of Way Issues

- Probably adequate
- Probably will require takings
- Probably will require easements and/or rights of entry
- Unknown

Describe known project area concerns or constraints.

Access control to parking lots for affected businesses.

Describe the project's effect on multimodal accommodation.

Improved access to downtown business area, recreation areas and nearby community center for pedestrians, bicyclists and motor vehicles.

PART IV – PUBLIC PROCESS

Please describe the public process associated with the project to date.

None to Date

Public information session (February 2009). Subsequent public information sessions to be held throughout planning process in conjunction with the design process prescribed in MassHighway Design Manual

What is the expected level of community interest in the project?

High **Medium** **Low** **Unknown**

Describe issues of concern raised by the public during the public process to date.

Please see attached documentation