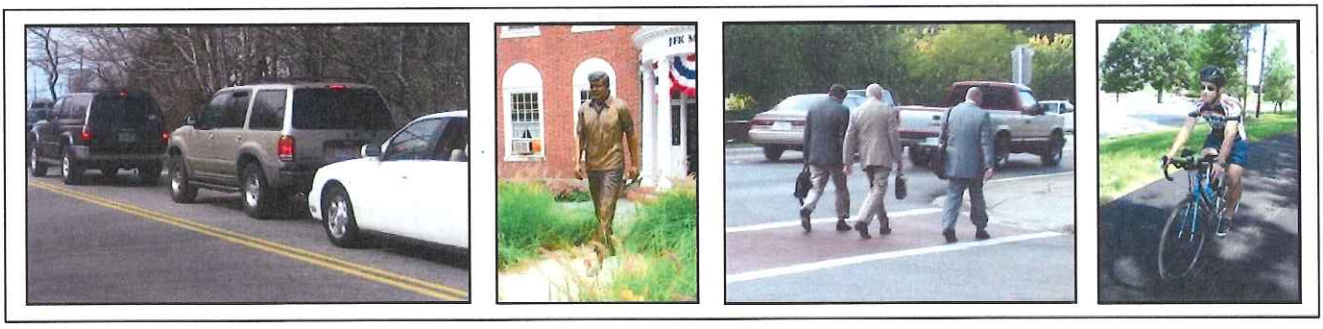
CAPE COD
COMMISSION

Hyannis Access Implementation Scope of Work

April 27, 2010



CAPE COD COMMISSION

Hyannis Access Implementation Scope of Work

BACKGROUND

Safe and convenient access into Hyannis is important for numerous reasons. Hyannis is the location of the Cape Cod Hospital, the Barnstable Municipal Airport, the Cape Cod Regional Transportation Authority, the Hyannis Transportation Center, and the Steamship Authority. In addition, Hyannis was recently approved as a Growth Incentive Zone. Safe and convenient access into Hyannis is essential to accommodate existing and new commercial growth in the Hyannis area. Both the Cape Cod Chamber of Commerce and the Hyannis Area Chamber of Commerce were active participants in the Yarmouth Road/Willow Street Corridor Study (2009-2010) and are eagerly awaiting the long-term solution for this area.

The Hyannis Access Study (undertaken by MassHighway; completed in 2008) highlighted the significant vehicle congestion and safety problems for motorists accessing the downtown Hyannis area. The Hyannis Access Study focused on the Airport Rotary and the Route 28/Yarmouth Road intersection and recommended further study of the Yarmouth Road/Willow Street corridor. The Cape Cod Commission undertook the Yarmouth Road/Willow Street planning effort last year, resulting in the Yarmouth Road/Willow Street Task Force determining a preferred alternative for the Yarmouth Road/Willow Street corridor and the Route 28/Yarmouth Road intersection. A previous design of Route 28 from the Airport Rotary to the Barnstable/Yarmouth town line showed a four-lane undivided cross section. Based on the experience with a four-lane undivided roadway on Route 28 in Centerville, the Town of Barnstable and Cape Cod Commission transportation staff will revisit the design of Route 28 between the Airport Rotary and Yarmouth Road. In addition, numerous large-scale developments have focused attention on the section of Route 132 from the Airport Rotary to the Cape Cod Mall traffic signal. The study will also incorporate transportation modeling efforts in East Hyannis. During the Hyannis Access Implementation project, the

CAPE COD
COMMISSION

Hyannis Access Implementation Task Force will focus on identifying the preferred long-term solution for this section of roadway.

Safe and convenient access in the Hyannis area is important for many modes of transportation, including walking, biking, automobile, transit, and rail. Currently, no sidewalks are provided around the Airport Rotary or along Route 28. Route 28 provides the connection between downtown Hyannis, the Hyannis Transportation Center, and the Barnstable Municipal Airport. As "green" vacations become popular, non-automotive access between the Barnstable Municipal Airport, the Regional Transportation Authority, the Steamship Authority, and the downtown Hyannis area are critical to success.

DESCRIPTION OF SERVICES

The Cape Cod Commission, under the 2010 Unified Planning Work Program, will conduct a transportation planning study for the study area shown below with the following study goal:

- Provide safe and convenient access along the study area corridor for all users of the roadway system including pedestrians, bicyclists, and motorists.

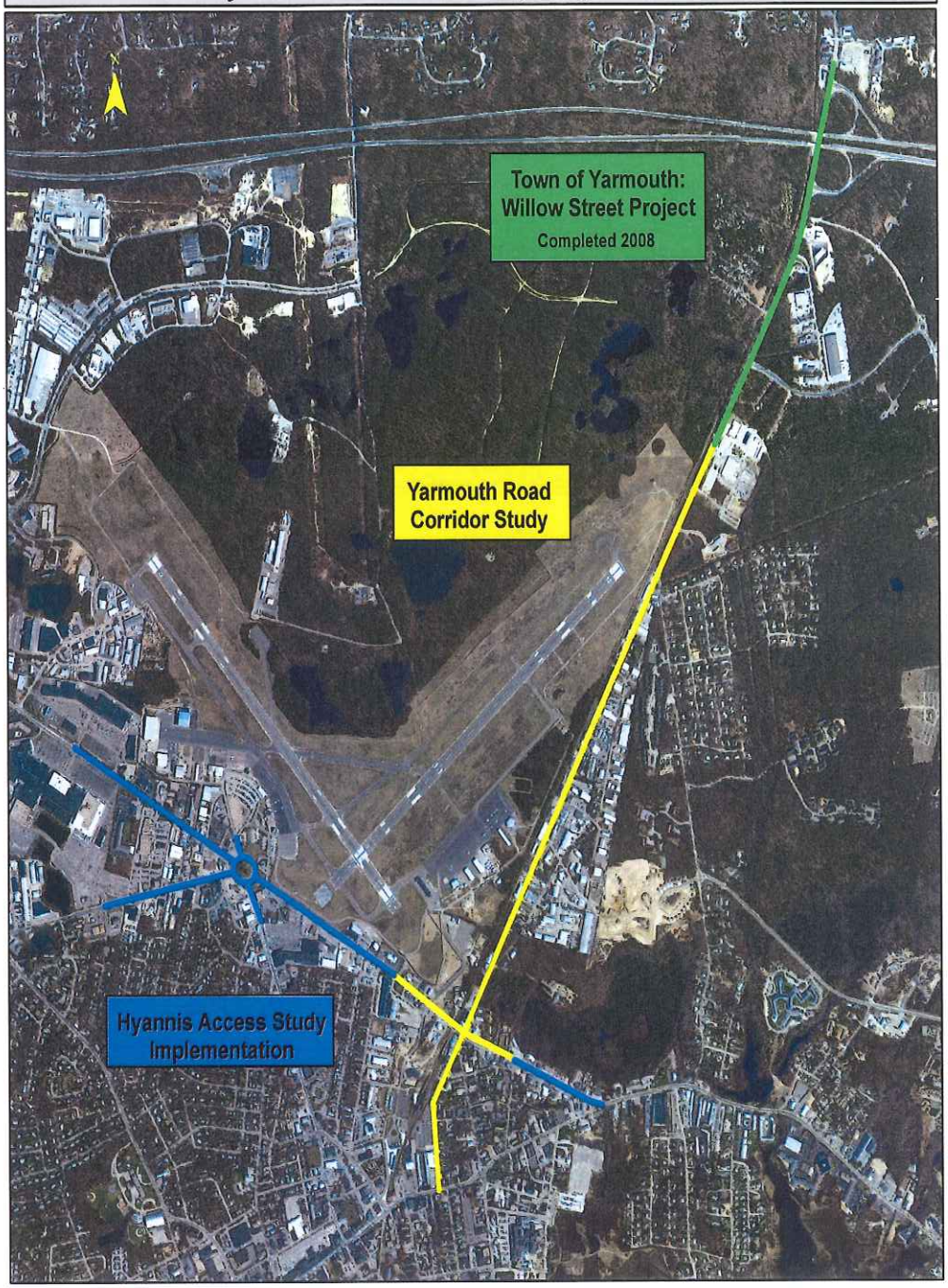
All concept plans shall incorporate the preferred alternative for the Yarmouth Road/Willow Street corridor.

PROJECT LIMITS

Looking west to east, the project begins on Route 132 (from the Cape Cod Mall traffic signal), and on Route 28 (from the Cape Cod Mall traffic signal) to the Airport Rotary, continuing along Route 28 to the Barnstable/Yarmouth town line in Hyannis, MA. Reconfiguration of the Airport Rotary will require proper alignment of all approaches to the rotary. The project shall also incorporate the Yarmouth Road/Willow Street preferred alternative including a multi-use path connecting the Hyannis Transportation Center and the proposed Cape Cod Rail Trail extension. Please see the attached Study Area map on the next page.

CAPE COD
COMMISSION

Hyannis Access Study Implementation



CAPE COD
COMMISSION

TASK 1 – DATA COLLECTION AND EXISTING CONDITIONS

This task involves collection of data, identification of existing transportation infrastructure, traffic conditions, and safety concerns.

1.1 STUDY AREA

Prepare a map and written description of the Hyannis Access Implementation study area.

1.2 TRANSPORTATION INFRASTRUCTURE

Define the present transportation options existing along the corridor including alternative options such as walking, biking, transit, and rail.

1.3 TRAFFIC LEVELS

Compile and collect traffic data for key intersections and major segments of Route 28 and Route 132. This effort shall include the Executive Office of Transportation (now MassDOT) traffic modeling used during the development of the Hyannis Access Study. An updated simulation model of key roadway links/intersections shall be developed using TransCAD software.

1.4 ACCESS

Define the frequency and design quality of curb cuts along key segments of Route 28 and Route 132.

1.5 LAND USE

Map existing land use patterns including population density, housing and employment, open space, and wetland areas.

1.6 SAFETY PROBLEMS

Using crash records supplied by MassDOT and the Town of Barnstable, prepare analyses of patterns for the most recently available three years' data. If time allows, provide crash diagrams at key locations along the corridor.

1.7 LEVEL OF SERVICE, DELAY, AND OTHER MEASURES OF EFFECTIVENESS

Prepare charts, graphs, maps, and descriptions of traffic flow (Level of Service) at key intersections within the study area.

TASK 2 – FUTURE CONDITIONS

This task involves identification of future traffic and safety conditions based on Regional Planning Agency forecasts.

2.1 FUTURE TRAFFIC LEVELS

Using the latest available planning assumptions (e.g., trend analysis, Regional Transportation Plan forecasts) identify growth in traffic levels for the future year 2035. Prepare maps and charts and updated simulations.

2.2 FUTURE LAND USE SCENARIOS

Identify areas where land use activity is likely to increase in the future.

CAPE COD
COMMISSION

TASK 3 – ALTERNATIVES ANALYSIS, RECOMMENDATIONS, AND PUBLIC PARTICIPATION

This task involves developing alternatives and recommendations, consistent with the Regional Transportation Plan, to improve transportation/traffic flow and safety along the corridor under both present-day and future traffic conditions. Cape Cod Commission staff will meet with the MassDOT Highway Planning Staff, the Town of Barnstable, and others on an as-needed basis to facilitate design alternatives. Public outreach will be consistent with the Cape Cod Public Participation Plan.

3.1 TRAFFIC FLOW IMPROVEMENTS

Identify and analyze alternatives to improve flow and reduce delay that may include intersection improvements, designing a raised median along Route 132, and a raised median along Route 28 between the Airport Rotary and Yarmouth Road. Select a preferred alternative for the reconfiguration of the Airport Rotary to accommodate walking, biking, automobile, and transit traffic.

3.2 SAFETY IMPROVEMENTS

Create alternatives that will improve transportation/traffic safety and improve pedestrian/bicycle safety by providing separate pedestrian/bicycle access along Route 132 and Route 28.

3.3 ACCESS MANAGEMENT IMPROVEMENTS

Discuss access management alternatives including driveway consolidation and inter-connections between parcels.

3.4 PUBLIC MEETING/PUBLIC PARTICIPATION

At a minimum, Cape Cod Commission will conduct the following public information meetings:

- Initial "Kick-Off" meeting
- Presentation of Draft Roadway Alternative
- Presentation of Refined Alternatives
- Presentation of Final Concept Design

Cape Cod Commission transportation staff anticipates that all these public information meetings will be conducted in the Town of Barnstable. However, due to the regional need for this transportation improvement project, public information meetings outside the Town of Barnstable maybe added to the list above. At least one public meeting will be held for each of the following purposes:

- to solicit input for identification of alternatives,
- to solicit reactions to the Draft Report,
- and to present findings of the Final Report.

Public meeting announcements will be published in the Cape Cod Commission's *Reporter* (a monthly newsletter), the Cape Cod Commission web page www.capecodcommission.org, on the Cape Cod Commission transportation information center www.gocapecod.org, press releases, and direct mailing to all abutters.

Progress reports will be posted on the Cape Cod Commission transportation information center www.gocapecod.org. Commission transportation staff will engaged the Town of Barnstable local community access to broadcast updates on the progress of the Hyannis Access Implementation project.

CAPE COD
COMMISSION

TASK 4 –DEVELOPMENT OF RECOMMENDATIONS, DRAFT AND FINAL REPORT

Data, analysis, and findings will be published in a draft report and submitted to MassDOT Planning for review.

4.1 DEVELOP DRAFT REPORT

Based on the results of the alternatives analysis and public participation, produce Draft Report and submit it to MassDOT for comment. The Draft Report will be presented to the Cape Cod Joint Transportation Committee (JTC), the Cape Cod Metropolitan Planning Organization (MPO), appropriate representatives of Yarmouth and Barnstable, and the general public following MassDOT review.

4.2 DEVELOP FINAL REPORT

The Final Report shall be completed by Cape Cod Commission staff, taking into consideration all comments from the general public, stakeholders and MassDOT.