

DRAFT PROPOSED

CAPE COD COMMISSION CAPE COD METROPOLITAN PLANNING ORGANIZATION

Unified Planning Work Program for Transportation Planning Activities

October 1, 2006 - September 30, 2007

Metropolitan Planning Organization Members
John Cogliano, Secretary, Executive Office of Transportation
Luisa Paiewonsky, Commissioner, Massachusetts Highway Department
Brian Currie, Chair, Cape Cod Regional Transit Authority
, Chair, Cape Cod Commission
Henry Farnham, President, Barnstable Town Council
William Doherty, Chairman, Barnstable County Commissioners
Wayne Taylor, Upper Cape
Jane Otis, Mid Cape
John Hinckley, Jr., Outer Cape

Transportation Advisory Group:
Cape Cod Joint Transportation Committee
Robert A. Burgmann, Chair

Expected Metropolitan Planning Organization Endorsement Date:

August 2006

This program is funded in part by the Cape Cod Commission, a department of Barnstable County. Prepared in Cooperation with the Executive Office of Transportation, the Massachusetts Highway Department and the U.S. Department of Transportation, Federal Highway Administration.

Cape Cod Metropolitan Planning Organization (MPO)

UNIFIED PLANNING WORK PROGRAM (UPWP)

October 1, 2006 through September 30, 2007

The signatures to follow certify that the Cape Cod Metropolitan Planning Organization (MPO), at their meeting on August _____, 2006, hereby approves the following action in accordance with the Comprehensive, Cooperative and Continuing transportation planning process:

In accordance with the requirements of 23 CFR Part 450 Section 310 of Federal Regulations, the MPO for Cape Cod has completed its review and hereby endorses the Cape Cod Unified Planning Work Program for Transportation Planning Activities for October 1, 2006 through September 30, 2007.

SIGNATORY CERTIFICATION:

John Cogliano, Secretary
Executive Office of Transportation

Luisa Paiewonsky, Commissioner
Massachusetts Highway Department

(to be updated), Chair
Cape Cod Commission

Brian Currie, Chair
Cape Cod Regional Transit Authority

William Doherty, Chair
Barnstable County Commissioners

Henry Farnham, President
Barnstable Town Council

Wayne Taylor
Upper Cape Towns

Jane Otis
Mid Cape Towns

John Hinckley, Jr.
Outer Cape Towns

Cape Cod Joint Transportation Committee Members

Robert A. Burgmann, PE	Barnstable
Richard Lafarge	Bourne
Robert Bersin, PE	Brewster
Paul DeCoste	Chatham
Joseph Rodricks, PE	Dennis
Steve Douglas	Eastham
George Calise, PE	Falmouth
Lincoln Hooper	Harwich
R. Gregory Taylor, PE	Mashpee
Mark Budnick	Orleans
Keith Bergman	Provincetown
Paul S. Tilton, PE	Sandwich
Paul Morris	Truro
Mark Vincent	Wellfleet
George R. Allaire, PE	Yarmouth
Dr. Gross	Bicycle Representative

Susan Kadar	Cape Cod Commission Liaison
Joseph Potzka	Cape Cod Regional Transit Authority

Damaris Santiago	Federal Highway Administration
Rachel Bain	Executive Office of Transportation
Bernard McCourt	MassHighway District 5
Maggie Geist	Assoc for the Preservation of Cape Cod

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INTRODUCTION

This Unified Planning Work Program (UPWP) is developed annually by the Cape Cod Commission transportation staff on behalf of the Cape Cod Metropolitan Planning Organization, in accordance with the requirements in SAFETEA-LU and federal planning regulations. The UPWP describes all significant transportation planning activities planned to be performed on Cape Cod over the twelve (12) month period, regardless of lead organization and funding source. The following are the major transportation planning areas:

- 1) Management and Support of the Planning Process and Certification Activities - the efforts required for coordinating transportation planning activities between CCC and Metropolitan Planning Organization (MPO) member communities, local, regional, state and federal agencies; efforts required to maintain the public participation process; Environmental Justice and Limited English Proficiency strategies; efforts required for the administration of the CCC contract with the Massachusetts Highway Department (MassHighway) and the Executive Office of Transportation (EOT); development and approval of the Unified Planning Work Program and the Transportation Improvement Program; and enhancement of the technical capacity of the planning process.
- 2) Data Collection & Analysis Activities - to continually gather and update traffic, crash and road data necessary for transportation planning and analysis; to maintain databases, to develop and update Cape Cod's travel demand forecasting model; review safety data, goals, objectives and strategies to promote safety.
- 3) Short and Long Range Transportation Planning - efforts to update and maintain the Regional Transportation Plan for Cape Cod, a certification activity that requires a new plan every four years and development of the Congestion Management System for the region. Also efforts to perform special planning studies of corridor safety/traffic flow and transit and integration of special studies into the regional transportation plan. Emphasis areas include identification of strategies to support the economic vitality of the metropolitan area, transportation security, emergency planning, strategies to promote smart growth and economic development patterns, environmental protection and energy conservation and preservation of the existing transportation system.
- 4) Other technical activities - to provide other technical assistance to the region, including assistance in the design and implementation of projects, pavement management, participating in special studies, coordination with transit agencies and assistance in the planning, design and development of the Intelligent Transportation System for Cape Cod. Special emphasis areas include enhancing the integration and connectivity of the transportation system, across and between modes, for people and freight and promotion of Operation & Management Strategies (O & M).
- 5) Regulatory review and planning assistance to the Towns- Review of Developments of Regional Impact and assistance in the development and implementation of Local Comprehensive Plans and Districts of Critical Planning Concern.

6) Other tentative planning efforts - Efforts that have received preliminary approval that may be initiated during the UPWP period, including the Route 6A/Scenic Byways Program and several efforts proposed by the National Park Service.

7) Other Planning Activities - efforts planned by the Cape Cod Regional Transit Authority, including the Cape Cod Multimodal Transportation Study and MHD's Hyannis Access Study.

TASK #1 - MANAGEMENT AND SUPPORT OF THE PLANNING PROCESS AND CERTIFICATION ACTIVITIES

Task 1.1 - Unified Planning Work Program (Certification Activity)

Objectives: To develop a Unified Planning Work Program (UPWP) in accordance with the requirements in SAFETEA-LU and federal planning regulations. To obtain MPO endorsement of the UPWP. To prepare progress reports, as needed.

Previous Work: Previous UPWPs (most recent MPO endorsed UPWP: August 2005)

Procedures: In conformance with applicable Federal and State guidelines, prepare a UPWP which describes all significant transportation and transportation-related planning activities anticipated to be carried out in the region during the period, regardless of funding sources or lead organization. Maintain the UPWP and make amendments as necessary.

Products: Unified Planning Work Program for Transportation Planning Activities for the period October 1, 2007 to September 30, 2008. Amendments to the current UPWP will be submitted as necessary. Monthly progress reports on PL activities performed under the UPWP. Annual report of transportation planning activities.

Schedule: Draft UPWP submitted to MPO & CCJTC June, 2007.
Final UPWP submitted to MPO August, 2007.
Monthly progress reports.
Annual Report submitted September, 2007.

Funding/Staffing breakdown:

Funding Source	Amount	CCC Staffing
FHWA/MassHighway	\$18,500	7 person-weeks

Task 1.2 - Transportation Improvement Program (Certification activity)

Objectives: To prepare a program of transportation improvement projects that is consistent with SAFETEA-LU, the region's transportation plan, the State Implementation Plan for FY 1995, EPA's Air Quality Conformity Regulations and FHWA/FTA's Planning Regulations. The Transportation Improvement Program (TIP) will include a four year program of projects for FY 2008 through 2011. The TIP will be endorsed by the Metropolitan Planning Organization (MPO) in accordance with federal regulations and the region's Public Participation Plan. Special emphasis to be placed on preservation of the existing transportation system.

Previous Work: "Cape Cod Transportation Improvement Programs (TIPs)", 1988 to present; latest endorsed (August 2006) document covers the period of federal fiscal years 2007-2010.

Procedures:

I. TIP procedures

To continue to participate in a committee of Regional Planning Agency (RPA) Directors, Federal & State officials to cooperatively develop financial estimates, evaluate projects, and schedule of TIP development.

II. Preparation of the draft TIP

A. General

1. The TIP is a staged, multi-year, intermodal program of transportation projects which are consistent with the Regional Transportation Plan (RTP). It is the programming document to implement primarily FHWA & Federal Transit Administration (FTA) Regional Transportation Plan projects.

2. Insure involvement of local officials and citizens through the Cape Cod Joint Transportation Committee and the Public Participation Plan.

3. Provide assistance to municipalities and private interests in advancing TIP projects.

4. Coordinate with MassHighway District 5, and the Office of Transportation Planning in developing project advancement.

5. Include projects within financial estimates and other items as required by federal and state law.

B. Development of the four year program of projects according to a uniform statewide format.

1. Update the list of transit, highway, or air quality projects that are expected to require federal transportation funds for planning and engineering, construction or purchase during the fiscal years the TIP is prepared for.

2. The list of projects may include information such as the following:

- a) The official MassHighway/EOT identifying project title.
- b) Project description,
- c) Estimated total cost.
- d) Proposed sources of federal and non-federal funds.

3. The total costs of projects seeking federal funds in each program year shall be in line with anticipated federal funds.

C. PUBLIC PARTICIPATION

1. There will be reasonable opportunity for public comment in accordance with the Plan for Public Participation.
2. At least one public meeting will be held during the TIP development process.
3. The proposed and approved TIP will be published or otherwise made readily available for information purposes.
4. The use of visualization techniques and availability in electronic format on the World Wide Web shall be employed.

Note: The public meeting on the Transportation Improvement Program shall serve as the required public hearing for routine, traditional Section 5307 grants as determined by the Public Participation Plan for Cape Cod endorsed by the Cape Cod Metropolitan Planning Organization. Projects requiring an environmental assessment or an environmental impact statement will require additional public involvement, in accordance with the joint FHWA/FTA environmental regulations, 23 CFR part 771.

III. TIP Approval

The TIP documents will be reviewed and endorsed by the MPO. The endorsed products to serve as the required air quality consistency documentation necessary for DOT (FHWA/FTA) and EPA conformity determination.

IV. Modification/Amendment

- A. Amendments to the TIP require MPO approval.
- B. Administrative adjustments to the TIP may be approved by the CCC Executive Director, with appropriate notification to the MPO.

Products:

- I. TIP consistent with the State Implementation Plan and the Regional Transportation Plan.
- II. Modifications/amendments to the TIP as required.

Schedule: As determined by the MPO, FHWA, FTA, EOT, MassHighway and MARPA.

Funding/Staffing breakdown:

Funding source	Amount	CCC Staffing
FHWA/MassHighway	\$60,000	23 person-weeks

Task 1.3 - CCJTC and MPO activities/Public Participation Process

Objectives: To maintain an open comprehensive, cooperative and continuing (3C) transportation planning and programming process involving the local, regional, state and federal levels of government in conformance with applicable federal and state requirements and guidelines.

Previous Work: Past maintenance of 3C process. Preparation of year 2003 update to the Cape Cod Regional Transportation Plan including information and strategies to ensure environmental justice. Support to CCJTC and MPO.

Procedures:

1. Provide administrative and technical support to the 3C regional planning process, such as:
 - a) Community liaison and assistance on transportation planning matters.
 - b) Review of federal and state transportation programs and related documents as required.
2. Provide for and support the public participation process (PPP) in transportation planning for Cape Cod.
 - a) Support Cape Cod Joint Transportation Committee (CCJTC).
 - b) Develop, support and participate in local parking, traffic, bikeway and environmental committee meetings.
 - c) Participate in information programs related to handicapped accessibility and environmental issues in transportation.
 - d) Preliminary and follow-up work for meetings as required.
3. Present transportation plans and programs (e.g., UPWP, Transportation Plan, TIP) developed through the public participation process to the Cape Cod Joint Transportation Committee and the Metropolitan Planning Organization (MPO) for appropriate action.
4. Conduct efforts in conformance with Environmental Justice requirements.

Products: Viable 3C process, including CCJTC and public participation program.
Revision of PPP, as necessary.
Bibliography of CCC transportation reports and other technical documents.
Transportation program annual report.
Minutes and reports on CCJTC meetings.
Letters, memoranda and notes as required.

Schedule: Meetings held monthly.
Other products as required.

Funding/Staffing breakdown:

Funding Source	Amount	CCC Staffing
FHWA/MassHighway	\$50,000	19 person-weeks

Task 1.4 - Environmental Justice

Objectives: To ensure that all segments of the population are able to fully participate in transportation planning processes and has access to transportation facilities. To integrate the basic principles of Environmental Justice into the 3C Transportation Planning Process, including Limited English Proficiency, as necessary. To develop and maintain a Title VI Civil Rights Plan for the Cape Cod MPO. To cooperate with stakeholders in the development of the Public Transit Human Services Transportation Plan.

Previous Work: Attendance at preliminary meetings with MassHighway and FHWA to discuss environmental justice requirements and receive guidance on ensuring compliance. Preparation of year 2000 update to the Cape Cod Regional Transportation Plan including information and strategies to ensure Environmental Justice.

Procedures: Coordination with the Cape Cod Regional Transit Authority and MassHighway, as required.

Products:

The following products are expected:

- Annual Title VI Civil Rights Report for the Cape Cod MPO

Schedule: To be determined.

Funding/Staffing breakdown:

Funding Source	Amount	CCC Staffing
FHWA/MassHighway	\$5,100	2 person-weeks

Task 1.5 - Access to Jobs

Objective:

To work with the Cape Cod Regional Transit Authority to develop strategies to improve access to employment for welfare recipients and other low income persons.

Previous work:

Past coordination with CCRTA.

Products:

Participation at meetings, letters and memoranda as required.

Schedule:

As required per CCRTA schedule.

Funding/Staffing breakdown:

Funding Source	Amount	CCC Staffing
FHWA/MassHighway	\$2,550	1 person-week

Task 1.6 - Other meetings and support of the planning process

Objectives: To participate in and provide support to meetings and other activities relevant to the transportation planning process. To coordinate transportation planning activities with other Regional Planning Agencies, EOT, MassHighway, FHWA, FTA and MARPA, particularly regarding the statewide road and bridge program and policy/funding discussions. To enhance the technical capability of the planning process through participation in relevant training, as resources permit.

Previous Work: Past support

Procedures: Flexible.

Products: Attendance at meetings; preparation of letters and memoranda.

Schedule: Progress reports prepared monthly. Other activities scheduled as required.

Funding/Staffing breakdown:

Funding	Amount	Staffing
MassHighway/FHWA	\$36,383	14 person-weeks

TASK #2 - DATA COLLECTION AND ANALYSIS ACTIVITIES

Task 2.1 - Cape Cod Traffic Counting Program

Objectives: To create and maintain a database of traffic counting data for Cape Cod to be used for transportation planning. To monitor growth in traffic volumes and to determine existing traffic volumes on Cape Cod roads. To perform the coverage counts for MHD. To perform bicycle and pedestrian activity counts in selected locations. To obtain data on road geometry, when necessary, as part of the traffic counting efforts.

Note: It is a goal of the region to install permanent traffic counters to provide continuous reliable data on traffic volumes, vehicle types and speed on all major roads. Permanent stations with remote access capabilities are the appropriate safe and cost-effective manner to collect the data.

Previous Work: Traffic counting program, 1984-2006.

Procedures: For the summer of 2007, approximately 10 coverage counts will be scheduled in each of Cape Cod's 15 towns, for a total of about 150 counts. Approximately 50% of the count locations for the summer of 2007 will be selected to support planning studies proposed in the Fiscal Year 2007 and proposed Fiscal Year 2008 Unified Planning Work Program. Additional counts, in coordination with or at the request of the towns and MassHighway, will be taken as schedule and weather permits. Where possible, FHWA traffic monitoring guide procedures will be followed. Police details, if required for the additional count locations, shall be the responsibility of the towns for local roads and MassHighway for state roads and locations requested by MassHighway. Turning movement counts will also be taken at selected intersections. Bicycle and pedestrian counts will also be performed on selected paths throughout Cape Cod.

Work activities under this task are as follows:

- Placement of counters
- Retrieval of counters
- Routine checks of counters
- Equipment inventory and maintenance
- Data tabulation
- Data factoring
- Data analysis/recording
- Coordination of counters
- Coordination of safety measures with towns
- Coordination of external program counts
- Periodic calibration/verification of equipment per MassHighway guidelines
- Obtain necessary permits from towns and MassHighway
- Development of traffic count file and data base
- Data mapping
- Program evaluation
- Computer data entry and maintenance

- Updated geometric information, as needed. Gathered information to include sidewalks, shoulders and bicycle lanes.

Products:

- Cape Cod Traffic Counting Report for 2006. Report will contain information on study design, count location, date/time of peak hour volume, average daily traffic, factored average daily traffic. The most recent 10 years of counts conducted by CCC will be included in this report.
- Database that includes date of counts, general weather and traffic conditions average daily traffic, factored average daily traffic, peak hour traffic volume, breakdown of traffic by hour over period studied (kept on file).
- Factored counts for MassHighway.
- Expanded seasonal traffic counting data
- Turning movement counts at intersections, including bicycle and pedestrian counts.
- An analysis of traffic growth trends over the past 10, 5 and 3 year periods. For Cape Cod, subregions and major routes.
- Counts accessible at website (www.gocapecod.org).

Schedule:

Report on counts taken in 2007 submitted December, 2007.

Office file updated continuously.

Funding/Staffing breakdown:

Funding Source	Amount	CCC Staffing
FHWA/MassHighway	\$55,000	22 person-weeks

Task 2.2 - Transportation Database Management/Data & Information Requests

Objectives: To maintain and improve databases of Cape Cod transportation information including: roadway geometry, motor vehicle crashes, traffic volumes (motor vehicles, bicycles, pedestrian) and other. To provide the transportation information for Cape Cod to local and state officials, transportation professionals and the public. To review safety data, goals, objectives and strategies to promote safety.

Previous Work: Accident databases prepared with data supplied by MassHighway. Original database included detailed data for the years 1989-1991 and 1993 and less detailed information for the years 1991-2001. Analyses included in the 1997, 2000 and 2003 Cape Cod Regional Transportation Plans and other studies.

Procedures: Integrate new records when available; maintain database, develop subroutines for analysis. When details are needed for specific locations, town crash records may be obtained and reviewed. CCC staff will contact MassHighway to request latest crash records. Respond to data and information requests from the public, transportation professionals and local, regional and state officials. Participate in and obtain latest Pictometry data and software.

Products: Crash, roadway geometry, roadway traffic volumes, intersection turning movements data. Pictometry information database. Reports, letters and memoranda as required.

Schedule: Ongoing. Updated annually with receipt of MassHighway accident records. Responsive to need for local data.

Funding/Staffing breakdown:

Funding Source	Amount	CCC staffing
MassHighway/FHWA	\$33,700	7 person-weeks

Task 2.3 - Travel Demand Forecasting & computer modeling

Objectives: To continue to develop and calibrate computerized travel demand forecasting databases and models for Cape Cod, including year 2030 forecasts. Continue integration with Geographical Information Systems (GIS) data to provide a platform for GIS based traffic counts, congested link summaries, and accident summaries.

Previous Work:

- Transportation model, developed in 1999/2000 for base year of 1997.
- Route 28 Safety & Traffic Flow Study (Chatham/Harwich/Dennis/Yarmouth)
- Route 6 Outer Cape Safety & Traffic Flow Study (Eastham to Provincetown)

Procedures: Review and utilize available socio-economic, employment, population and housing data for base year and forecast year data. Utilize existing traffic volume and transit data to determine existing travel demands. Utilize existing transportation models for sub-regions of Cape Cod. Improve transfer methods of data between CCC Geographic Information Systems (GIS) services and transportation modeling effort. Expand transportation demand model to include Saturday morning element and to explicitly include alternate modes. Additional modeling efforts include the use of synchro-sym traffic software. Construction of synchro models includes development of a computerized roadway/intersection network. Inputs include turning movements and roadway link traffic volumes, roadway and intersection geometry, and signal timing and phasing.

Products: Updated regional transportation model based on 2000 census information, reports of results, and summaries. Models will be used to support Task 3 and other regional planning and TIP activities.

Schedule: Ongoing through September 30, 2007. To be developed in coordination with MassHighway.

Funding/Staffing breakdown:

Funding Source	Amount	CCC Staffing
MassHighway/FHWA	\$23,500	9 person-weeks

TASK #3 - SHORT AND LONG RANGE TRANSPORTATION PLANNING

FTA ITEM CODE 44.23.01

Task 3.1 - Regional Transportation Plan (Certification activity)/Long Range Transportation Planning

Objectives: To maintain and update the Regional Transportation Plan for Cape Cod, in conformance with the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) and successor acts, consistent with the goals and requirements of the Cape Cod Commission, towns, the MassHighway, EOT, FTA and the FHWA, considering all modes of transportation and both short and long-range elements.

Previous work: Ten (10) year needs assessment prepared in October 1989.
Regional Policy Plan for Cape Cod, August, 1991.
Long Range Transportation Plan, September, 1993.
Long Range Transportation Plan Amendments, September 1994.
Regional Policy Plan for Cape Cod, November, 1996.
Regional Transportation Plan, approved by MPO March 1997.
Regional Transportation Plan, approved by MPO January 2001.

Procedures: Per Scope of Work, as approved and amended as needed.

Products: Cape Cod 2006 Regional Transportation Plan.

Schedule: Public Participation – ongoing thru March 2007
Forecast Future Conditions – complete October 2006
Problem ID & Alternatives Analysis – complete November 2006
Conclusions & Recommendations – complete December 2006
MPO Endorsement – March 2007

Funding/Staffing breakdown:

Funding Source	Amount	CCC Staffing
MassHighway/FHWA	\$50,000	19 person-weeks
FTA	\$20,000	8 person-weeks
CCC	\$ 5,000	2 person-weeks

Task 3.2 - Congestion Management Plan Development

Objective: To develop an on-line system database for providing Congestion Management information, including intersection and roadway Level-of-Service, travel times and Park & Ride Usage. Also to perform location studies, as time and need allows. To develop criteria for identifying congestion and methods to address congestion, consistent with the Commonwealth of Massachusetts' Fix It First Initiative, Communities First Initiative and Sustainable Development Policy.

Previous Work: Cape Cod Congestion Management System 1997 Report, January 21, 1998.

Procedures: Per detailed study design.

Products: Congestion Management Plan website for Cape Cod.

Schedule: To be developed in coordination with EOT.

Budget:

FHWA/MHD	\$50,000	19 person-weeks
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Task 3.3 - Upper Cape Long Range Transportation Study

Objectives: To evaluate recent transportation studies in the Canal Area and develop a scope of work for a future major transportation study. Long term goals include the identification of alternatives to improve transportation flow and safety in the Upper Cape considering all modes of transportation. Efforts to be conducted consistent with the Commonwealth of Massachusetts Fix It First and Communities First initiatives.

Previous Work:

- The draft Canal Area Transportation Study prepared by Rizzo Associates, Inc. for MHD dated December 21, 1998, and the subsequent draft studies done by staff at the Cape Cod Commission, the most recent dated August 22, 2001.
- Route 3/Route 6 Sagamore Grade Separation Revised Environmental Assessment/Final Environmental Impact Report (EOEA #11731) dated October 31, 2003
- Bourne Scenic Highway Study and Canal Area Study – TransCAD Technical Assistance: Cape Cod Travel Demand Forecasting Model dated February 2000 – Louis Berger Group, Inc.
- EOEA Build-out Analysis for Cape Cod,
- Canal Area Traffic Study dated December 22, 2004 by the Massachusetts Highway Department.

Procedures:

A detailed study design will be developed and submitted for approval prior to the initiation of work.

Prior to embarking on a detailed study of the Upper Cape transportation needs, a review of the existing body of work and an analysis of the needs not addressed previously must be done. The geographic area intended by the JTC request is also beyond the scope of the most recent studies and these additional areas need to be defined with respect to their needs as well.

The scope of work to be defined will also include several subject areas not specifically addressed by the previous studies including:

- Freight
- Rail Service
- Emergency Services
- Intelligent Transportation Systems
- Alternative Transportation
- Bicycle Facilities
- Public Transportation
- Passenger Rail
- Canal Crossings
- Capacity
- Useful Life

Products:

- Review of existing studies
- Development of data collection and additional study needs
- Development of Scope of Work and budget for subsequent phases

Schedule: To be determined in detailed study design.

Funding/Staffing breakdown:

Funding source	Amount	CCC staffing
MassHighway/FHWA	\$10,000	4 person-weeks

Task 3.4 – Transportation Safety (Reporting/Coordination & Evaluation at 3 locations)

Objectives: To evaluate safety improvements at three high crash locations identified in the 2006 Cape Cod Regional Transportation Plan.

Previous Work: Safety evaluation study at the Otis Rotary in Bourne, Route 137/39 intersection in Harwich and Route 6A/28 in Orleans, three high crash locations identified in 2003 Cape Cod Regional Transportation Plan.

Procedures:

Review of causal factors of crashes at the three locations.
Review of roadway/intersection geometry.
Identification of deficiencies and alternatives to improve safety.

Review of local and state police reporting practices.
Identification of ways to improve accuracy, consistency and timeliness of information
Assistance in the implementation of improved practices.

Products:

Recommendations to improve safety at three locations.

Schedule:

October 2006	Selection of 3 locations
November/December 2006	Data Collection
January – March 2007	Problem identification, development of improvements and analysis
April 2007	Recommendations and draft report
June 2007	Final report

Funding/Staffing breakdown:

Funding source	Amount	CCC staffing
MassHighway/FHWA	\$30,000	11 person-weeks

Task 3.5 – Growth Center Transportation and Land Use Study

Objectives: To identify and evaluate transportation improvements and their impact on land use in one or more growth centers on Cape Cod. Efforts to be conducted consistent with the Commonwealth of Massachusetts Fix It First and Communities First initiatives. To promote consistency between transportation improvements and state and local planned growth in economic development patterns with consideration of strategies that promote energy conservation and improve quality of life.

Previous Work:

Routes 28 & 132 Traffic Circulation Study Barnstable Area, August 31, 1992 by the CCC.
Conceptual Design and Feasibility Study for a New Route 6 Interchange in the Town of Barnstable, January 1998, Massachusetts Highway Department.

Procedures:

A detailed study design will be developed and submitted to FHWA.

Locations include:

- Downtown Buzzards Bay
- East Harwich Center (Route 39 and Route 137)
- Hyannis Main Street and Route 132 area – provide assistance to the Town and MassHighway regarding access alternatives from Route 6 and their impact on land use in coordination with MassHighway’s “Hyannis Access Study” Task Force.

Results will be used to develop recommendations consistent with the Regional Transportation Plan, including recommendations for land use and access management, consistent with the Communities First and Fix It First Initiatives and the Sustainable Development Policy of the Commonwealth of Massachusetts.

Public participation: Public meetings, as necessary

Products:

Interim and final reports.

Schedule:

To be determined.

Funding/Staffing breakdown:

Funding source	Amount	CCC staffing
MassHighway/FHWA	\$40,000	16 person-weeks

Task 3.6 - Follow-up on previous transportation planning studies

Objectives:

To allow for completion of and/or follow-up work on special transportation studies of prior UPWPs.

Previous work:

Refer to list of Significant Regional Transportation Studies in this document.

Methodology:

To be determined in consultation with MHD, consistent with prior study designs, updated as necessary.

Products:

To be determined.

Schedule:

Flexible.

Funding/Staffing breakdown:

Funding Source	Amount	CCC Staffing
FHWA/MassHighway	\$11,000	4 person-weeks

TASK #4 - OTHER TECHNICAL ACTIVITIES

ITEM CODE 41.17.00

Task 4.1 – Intermodal Coordination and ITS & Travel Smart Initiatives

Objectives: To promote the most efficient, cost effective and environmentally sound use of our transportation system, covering all modes of transportation. To advance the development of a Transportation Management Center on Cape Cod. To work with the State in the advancement of intelligent transportation system initiatives for Cape Cod, including further development of ITS architecture for the region. To assist in the advancement of improved rail, bus and water transportation, including passengers and freight. to/from and within the Cape Cod region. To enhance the integration and connectivity of the transportation system, across and between modes, for people and freight. To promote efficient system operation and management.

Previous Work: Assistance to the Cape Cod Transit Task Force and the Cape Cod Regional Transit Authority. Development of the Flex Route bus service for the Outer Cape. Marine Transportation Feasibility Study (1998). Intermodal and congestion management systems efforts. Assistance in Intelligent Transportation Systems (ITS) efforts on Cape Cod. Participation in Farradyne Systems study (1995). Participation in the Barnstable-Yarmouth Transportation Study. Transportation website "www.gocapecod.org." Assistance to the Cape Cod Chamber of Commerce with the development of the "Smart Guide."

Procedure:

- Assistance to the Cape Cod Transit Task Force and the Cape Cod Regional Transit Authority.
- Assistance to the Massachusetts Highway Department with the development of intelligent Transportation System Architecture for Cape Cod. Efforts to include identification of stakeholders, attendance at meetings, review of documents and other assistance.
- Development of specific ITS criteria, goals and priorities consistent with the Cape Cod Regional Transportation Plan.
- Evaluation and integration of under-utilized sources of transportation information, including the Cape Cod Regional Transit Authority automated vehicle locator and the Route 132 closed loop signal system.
- Advancing 511 Traveler Information System.

Products: Possible products include:

- Evaluation of CCRTA transit routes
- Recommendations for improved rail and water transportation

- Continued identification and development of congestion and intermodal management strategies; updated and expanded website of transportation information, reports and memoranda as required. Several possible products include:
 - Traveler information via internet
 - Promotion of transportation alternatives
 - ITS plans for Cape Cod Canal Area
 - ITS plans for Hyannis area
 - Summary reports of updates to CMS database
 - Technical memoranda reporting analyses of travel patterns and traffic condition prediction methodology
 - ITS coordination with other regions

Schedule: Continuous throughout the year.

Funding/Staffing:

Funding source	Amount	CCC staffing
EOT	\$31,523	12 person-weeks
CCC	\$ 7,881	3 person weeks
MassHighway/FHWA	\$50,000	19 person-weeks

Task 4.2 Cape Cod Rural Roads Initiative

Objectives: To advance context sensitive design examples to provide safe, multi-modal mobility on Cape Cod and the Islands while maintaining the environmental, historic and scenic qualities of the existing surrounds. To participate with Martha's Vineyard, Nantucket, and the National Park Service/Cape Cod National Seashore on the implementation of the HPP Rural Roads Initiative, under the Transportation Equity Act for the 21st Century. To participate in the MHD Design Manual Task Force proceedings.

Previous Work: Meetings with MassHighway, Nantucket Planning & Economic Development Commission, the Martha's Vineyard Commission, the National Park Service/Cape Cod National Seashore and Congressman Delahunt's office to discuss the work effort. Development of a proposed Memorandum of Agreement, scope of work, budget and schedule. Participation on MHD design guidebook task force.

Procedures: Staff oversight of design development of a transportation project on Cape Cod, including consultation with the National Park Service/Cape Cod National Seashore. Effort to be consistent with the Massachusetts' Communities First and Fix It First policies.

Products: Participation in the implementation of the MHD design guidebook, context sensitive design solutions, and Massachusetts' Communities First and Fix It First policies.

Schedule: To be determined.

Funding/Staffing:

Funding Source	Amount	CCC staffing
MassHighway/FHWA	\$10,000	4 person weeks

Task 4.3 - Pavement Management

Objectives: To begin to update and implement a regional pavement management system for Cape Cod to provide an objective rating of pavement conditions and needs.

Previous Work:

- Eastham, Pilot Pavement Management Study, December 1990.
- Bourne, Preliminary Pavement Management Report, April 1992.
- Participation on technical coordination committees for Pavement Management.
- Special Statewide pavement management systems effort -1994.

Procedures: To be determined in coordination with MHD and the towns.

Products: Preliminary assessment of pavement management needs.

Schedule: To be determined.

Funding/staffing:

Funding Source	Amount	CCC staffing
MassHighway/FHWA	\$10,000	4 person-weeks

Task 4.4 - Other technical assistance requests

Objectives: To provide the state, the towns and the region with technical transportation assistance, as needed.

Previous Work: Preparation of signal warrant analyses, review of local transportation improvement alternatives, preparation of local safety studies (Provincetown Bicycle Safety, Conwell Street Study, Bradford & Allen Street Study).

Procedures: As required.

Products: Letters, reports, memoranda and analyses.

Schedule: Continuous throughout the year.

Funding/Staffing:

Funding Source	Amount	CCC staffing
MassHighway/FHWA	\$14,084	5 person-weeks

TASK #5 - CAPE COD COMMISSION TRANSPORTATION PLANNING & REGULATORY ACTIVITIES

Task 5.1 - Review and Comment on Environmental Notification Forms, Environmental Impact Reports and Developments of Regional Impact

Objectives: The primary purpose of the CCC regulatory program is mitigation of transportation impacts in a manner that is consistent with Barnstable County's Regional Policy Plan. To ensure proper review and analysis of traffic impacts of major residential and commercial developments throughout the region. To provide such information to the CCC, EOT, MassHighway, EOEA-MEPA Unit, town officials and other interested parties, as required. To recommend mitigation measures and work with interested parties in applying conditions to projects. To assist the Cape Cod Commission regulatory staff in the review of developments of regional impact. To assist the Massachusetts Highway Department/Public Private Development Unit (MassHighway - PPDU) in the implementation of mitigation strategies.

Previous Work: Previous work includes analysis, review and comment on Environmental Notification Forms (ENFs), Environmental Impact Reports (EIRs) and Cape Cod Commission regulatory review.

Procedures:

- Review ENF, EIR, EIS, MIS and/or traffic analyses.
 - Compute trip generation estimates.
 - Review traffic counts on adjacent street network; conduct special traffic counts.
 - Perform preliminary site visit.
 - Compute LOS at site drive and area intersections, as necessary.
 - Attend MEPA site visit, if applicable.
 - Discuss project with interested parties.
 - Identification of appropriate mitigation measures.
 - Review mitigation measures for compliance and consistency with the Regional Policy Plan.
 - Written and oral comments and testimony to the Cape Cod Commission, MassHighway District 5, MEPA, the towns and other interested organizations as required.
 - Coordinate mitigation with MassHighway-PPDU.
- Products: Discussions with MEPA, MassHighway, project proponents and town officials. Provide written comments. Testimony at DRI and other meetings as required. Advancement of measures to mitigate traffic impacts. Analysis and recommendation on transportation improvements necessary to mitigate impacts.

Schedule: As required to meet CCC, MEPA, EOT, MassHighway and local deadlines.

Funding/Staffing:

Support of this effort will be provided by the CCC. Below is the funding/staffing breakdown:

Funding Source	Amount	CCC Staffing
CCC	\$140,571	53 person-weeks

Task 5.2 - Assist Communities and the Region in the Development and Implementation of Local Comprehensive Plans (LCPs) and Districts of Critical Planning Concern (DCPCs)

Objectives: To provide technical assistance in the development and implementation of LCPs and DCPCs and other CCC funded transportation efforts.

Previous work: Past assistance in the development of LCPs in various Cape Cod towns.

Procedures: Advisory and analytical assistance.

Products: Letters, memoranda, testimony as required.

Schedule: As established by the Cape Cod Commission and the Towns and legislated requirements.

Funding/staffing:

Funding Source	Amount	CCC Staffing
CCC	\$140,571	53 person-weeks

Task 5.3 - Other transportation activities

Objectives: To perform other transportation activities and transportation program management.

Previous work: Past transportation program management.

Procedures: Flexible.

Products: Viable transportation planning program.

Schedule: Continuous throughout the year.

Funding/Staffing:

Funding Source	Amount	CCC staffing
CCC	\$67,710	26 person-weeks

TASK #6 - Other Tentative Planning Efforts

Task 6.1 - Route 6A/Scenic Byways

Objectives:

To update the 1995 Route 6A Corridor Management Plans; to develop and design byway related projects and to implement those projects. Efforts to be consistent with the National Scenic Byways Program and the Cape Cod and Islands Rural Roads Initiative.

Previous Work:

Develop of a Corridor Management Plan for Route 6A (April 1995) and related follow-up/implementation projects:

- Route 6A Corridor Management Plan
- Access Management Study
- Tree Canopy
- Bicycle Activities/Bicycle Safety/Bicycle Map
- Pedestrian Activities/Tour Network
- Pedestrian Safety Improvements

Procedures:

To be determined per a detailed study design consistent with the FHWA review and award of funding.

Products:

Updated Corridor Management Plan.
Development and design of projects.
Project Implementation.

Schedule:

- Updated Corridor Management Plan 12 months after notice to proceed.

Funding Staffing:

Scenic Byways funds. Breakdown of staffing and contractual assistance to be determined.

	FHWA	MHD	Total
Update of CMP	\$100,000	\$25,000	\$125,000

Task 6.2 – National Seashore Planning Studies

Objectives:

To develop, promote and implement alternative transportation programs serving the Cape Cod National Seashore and surrounding communities.

Previous Work:

Develop of Flex Route bus service.

Procedures:

To be determined contingent upon acceptance of proposals and award of grant funds.

Possible work efforts and budget include:

Flex Maintenance Needs & Alternatives Study	\$200,000
Flex Evaluation Study	\$ 30,000
Evaluation of existing Transit Information Software, Procurement and Testing	\$250,000
Flex Expansion Planning	\$100,000
Evaluation of Transit Partner Program	\$ 15,000
Bicycle Transportation Needs Study	\$ 50,000
National Seashore Parking Study & Data Collection	\$ 80,000
Smart Card Implementation Study	\$ 75,000

Schedule:

To be determined.

Task #7 - Other Planning Studies

Task 7.1 Minimodal Transportation Study (Cape Cod Regional Transit Authority)

Objective:

To evaluate and identify "minimodal" locations in Orleans and to develop construction drawings and required permitting for a facility at MacMillan Wharf. Development of these transportation centers on Cape Cod is expected to promote transit as an alternative to automobile travel and to improve service coordination between public and private transportation providers.

Previous Work:

Cape Cod Transit Task efforts, including 5-Year Plan for Public Transportation on Cape Cod. Coordination with CCRTA in development of Hyannis Transportation Center.

Procedures:

- Development of potential Orleans site alternatives
- Develop access plans, initial environmental screening and preliminary plans, specifications and estimates
- Evaluate surrounding land use and consistency with local and regional planning for the proposed sites
- Develop site needs and potential based on short and long range planning
- Evaluate potential of the proposed Orleans sites to meet potential service needs
- Present alternatives for public comment and recommend final alternatives for further design and development
- Development of permitting and construction plans for MacMillian Wharf site

Products:

- 1) Report on candidate Orleans locations and feasibility of minimodal transportation centers.
- 2) Permitting and construction drawings and documents for the MacMillian Wharf site.

Schedule:

To be determined.

Budget:

EOT/FTA	\$295,104
CCRTA	\$73,776

Task 7.2 Hyannis Access Study (MassHighway & the Town of Barnstable)

Objective: To identify and evaluate transportation improvements to improve traffic flow between Route 6 and Rt 132 and Main Street as well as evaluate their impacts in land use.

Previous Work: Routes 28 & 132 Traffic Circulation Study Barnstable Area, August 31, 1992 by the CCC.

Conceptual Design and Feasibility Study for a New Route 6 Interchange in the Town of Barnstable, January 1998, Massachusetts Highway Department

Procedures: Per scope of work.

Products; Evaluation of access alternatives and recommendations for improvements.

Schedule: Substantial completion anticipated by June 2007.

Budget: \$250,000

PL FUNDING SUMMARY & DISCUSSION

(update expected from Executive Office of Transportation)

The Massachusetts Highway Department/Executive Office of Transportation receives Metropolitan Planning Funds (PL) from the Federal Highway Administration. These funds are passed through to planning agencies to conduct the comprehensive, cooperative and continuing (3C) transportation planning process. These funds are apportioned to states on the basis of urbanized area population and highway construction funding amounts. The state apportions the PL funds to the 10 urban area planning agencies, including the Cape Cod Commission/County of Barnstable.

The Cape Cod Commission's estimated PL funding and expenditure summary is as follows:

Total PL allocations as of July 1, 2003 (since 1991)	\$4,279,171
PL allocation per UPWP October 1, 2003	\$ 381,630
PL allocation per UPWP October 1, 2004	\$ 395,927
Total PL expenditures as of Sept. 30, 2003 (since 1991)	\$2,804,444
Total PL expenditures Oct. 1, 2003 through June 30, 2005	\$ 639,308
PL balance as of July 1, 2005	\$1,612,976

The Cape Cod Commission continues to expend PL funds as anticipated. Expenditures through the end of FFY 2005 (September 30, 2005) are expected to be approximately \$120,000, leaving a year-end PL balance of approximately \$1,493,000.

LIST OF SIGNIFICANT PLANNING STUDIES and OTHER GRANTS

Significant regional transportation studies:

By the Cape Cod Commission:

Cape Cod TIP Amendment (FY2006-1010)	March 2006
Route 28 Safety & Traffic Flow Study (Draft)	January 2006
Provincetown – Howland and Bradford Street Intersection Study	November 2005
Cape Cod Unified Planning Work Program for FY2006	August 2005
Cape Cod Transportation Improvement Program FY2006-2010	July 2005
Cape Cod Transportation Improvement Program Amendment FY2005-2009	May 2005
Cape Cod Transportation Improvement Program Amendment FY2005-2009	April 2005
Cape Cod Unified Planning Work Program for FY05 Amendment	February 2005
Cape Cod Unified Planning Work Program for FY05	August 2004
Cape Cod Transportation Improvement Program FY2005-2009	July 2004
Cape Cod Transportation Improvement Program Amendment FY2004-2008	June 2004
Cape Cod Transportation Improvement Program Amendment FY2004-2008	March 2004
Route 6 Safety & Traffic Study (Eastham, Wellfleet, Truro, Provincetown)	March 2004
Cape Cod Transit Support Facilities Design Prototypes (Cape Cod Commission and National Park Service)	February 2004
2003 Cape Cod MPO Regional Transportation Plan	August 2003

Cape Cod Unified Planning Work Program for FY04	August 2003
Cape Cod Transportation Improvement Program FY2004-2008	August 2003
Cape Cod Transportation Improvement Program Amendment J	June 2003
Falmouth Steamship Authority Traffic Study (final draft)	February 2003
Cape Cod Traffic Counting Program Annual Report	January 2003
Cape Cod Unified Planning Work Program for FY03	August 2002
Cape Cod Transportation Improvement Program FY2003-2007	August 2002
Cape Cod Park & Ride Study	June 2002
Five-Year Public Transportation Plan (by CCC and the CC Transit Task Force)	June 2002
2002 Regional Policy Plan	April 2002
Marston Mills Recreational Fields Traffic Study	November 2001
Provincetown Bike Route Study	December 2000
Bicycle Safety Study - Provincetown	April 2000
A Strategic Plan for Expanded Cape Cod Ferry Service	Jan. 2000
Harwich Route 39/137 Planning Study	May 1999
Conwell Street Corridor Safety Study	May 1999
BL-2 Internal Road Transportation Benefits & Detriments (Sandwich)	November 1998
Massachusetts Military Reservation Master Plan	September 1998
Cape Cod Marine Transportation Feasibility Study	June 1998
Veterans Memorial Elementary School (Provincetown) Pedestrian Safety Study	May 1998
Route 28 & 132 Traffic Circulation Study - Barnstable	August 1992
Route 28 Traffic Circulation Study - Yarmouth to Orleans	March 1992
Route 28 Traffic Circulation Study - Mashpee	December 1989
Route 28/MacArthur Blvd Traffic Study - Bourne	April 1989
10 Year Needs Assessment - Summary List	October 1989
Route 6 - Alternatives - Dennis to Orleans	October 1986

Environmental Impact Reports and Traffic Impact Studies (by others)

Independent Living Facility, Falmouth, Traffic Impact Technical Memorandum	April 2006
Orleans Toyota – O’Connor Road Traffic Impact Letter	April 2006
CCRTA Fare Study – Final Report (Draft)	March 2006
Strategic Plan for the Development of Flex Service	March 2006
Dunkin Donuts, Dennis, Traffic Impact Letter	March 2006
International Fund for Animal Welfare Transportation Report, Yarmouth	March 2006
Electronics Superstore, Hyannis, Traffic Impact Technical Memorandum	March 2006
Walgreens Pharmacy, Traffic Unoact & Assessment Study, Yarmouth	February 2006
Cape Cod Cooperative Bank, Barnstable, Traffic Impact Technical Memo	December 2005
Mashpee Industrial Park, Traffic Impact Letter	November 2005
Mashpee Commons, Traffic Impact & Access Study	November 2005
Macmillan Pier Transportation Center Feasibility Study – Final Draft Report	January 2006
CVS, Bourne – Traffic Impact Technical Memorandum	October 2005
Cape End Manor, Traffic Impact Letter, Provincetown	September 2005
Canal Bluffs 40B, Bourne, Traffic Impact Letter	September 2005
Bayside Seafood and Market, Brewster, Traffic Impact Assessment	August 2005
Dowcett Subdivision, Yarmouth, Traffic Impact Assessment	August 2005
Spring Bars Road 40B, Falmouth, Traffic Impact Assessment	July 2005
Bourne Elementary School, ENF	June 2005
Office Building, Hyannis, Traffic Impact Assessment	May 2005
Summerwoods 40B, Traffic Impact Letter, Harwich	April 2005
Integrated Solid Waste Mgt Facility, Bourne, Traffic Impact Assessment	January 2005
Riverview School, Sandwich, Traffic Impact Assessment	January 2005
Canal Place 40B, Bourne, Traffic Impact Report	January 2005
Orleans Shaw’s (Traffic Impact & Access Study)	November 2004
Annie’s Pasture 40B, Traffic Impact Assessment, Sandwich	November 2004
Eastham Town Beach Traffic Impact Assessment	September 2004
Lookout Ridge Subdivision, Traffic Impact Assessment, Sandwich	September 2004

Sandwich Shaw's (Traffic Impact & Access Study)	August 2004
Barnstable Airport Improvement Project, Hyannis, MA (Final EIR/Final EA)	May 2004
Proposed Cape Cod Hospital Expansion	March 2004
CanalSide Commons Development Traffic Impact and Access Study	March 2004
North Bay Partners Traffic Study – Barnstable	March 2004
Schooner Village 40B, Traffic Impact Assessment, Barnstable	January 2004
Sagamore Rotary Grade Separation (Revised EA/Final EIR)	October 2003
South Cape Village Supplemental EIR	October 2003
Alternative Transportation Facility Design Prototypes Workbook	September 2003
Sagamore Rotary Transportation Improvements Project (Environmental Assessment and draft EIR)	June 2003
Mashpee Place (final EIR)	May 2003
Wendy's Restaurant, Yarmouth, Traffic Impact & Access Study	June 2003
Cape Cod National Seashore Alternative Transportation Systems Long Range Planning Study	May 2003
Augat Self Storage Transportation Impact Assessment, Mashpee	March 2003
Harwich Commons Expansion, Traffic Impact & Access Study	March 2003
Dunkin Donuts, Traffic Study, Brewster	February 2003
Wellfleet Harbor Actors Theater (Traffic Impact & Access Study)	December 2002
Pleasant Bay Assisted Living, Traffic Study – Brewster	November 2002
Wise Living 40B, Traffic Impact & Access Study, Orleans	November 2002
Cape Cod Hospital Proposed Hadaway Road Ambulatory Campus	October 2002
Falmouth Hospital Expansion Traffic Impact Study	October 2002
Independence Medical Arts Traffic Impact Letter – Barnstable	October 2002
Sandwich Shaw's (Traffic Impact & Access Study)	August 2002
Mashpee Shaw's (Traffic Impact & Access Study)	August 2002
Rt 28 Mobil Gas Traffic Impact Letter – Yarmouth	July 2002
Truro Stop & Shop (draft EIR)	May 2002
Orleans Shaw's (Traffic Impact & Access Study)	January 2002
Long Pond Medical Traffic Impact Letter – Harwich	September 2001
Atlantis Supermarket (ENF)	September 2001
Harwich Shaw's (Traffic Impact and Access Study)	April and July 2001
Anchor Self Storage, Sight Distance & Trip Generation Analysis, Mashpee	May-June 2001
Flagship Self Storage, Traffic Assessment, Mashpee	May 2001
BJ's Wholesale Club	April 2001
Cotuit Landing - Barnstable (final)	November 2000
CanalSide Commons - Bourne (final)	October 2000
Brewster Farms Country Market, Traffic Report, Brewster	August 2000
CanalSide Commons - Bourne (supplemental draft)	May 2000
Mashpee Commons - Mashpee (draft)	March 2000
South Cape Factory Outlet - Mashpee (final)	February 2000
Route 3 - South Weymouth to Bourne - Corridor Needs Analysis	May 1999
Silver Square Traffic Impact Assessment – Bourne	April 1999
South Cape Factory Outlet - Mashpee (draft)	April 1999
CanalSide Commons - Bourne (draft)	Feb. 1999
Route 6 - Transportation Improvements Project Dennis to Orleans (draft)	October 1994
 <u>Feasibility/Conceptual Planning Studies (by others)</u>	
Sagamore Rotary Grade Separation Study	March 1998
Conceptual Design & Feasibility Study for a New Route 6 Interchange in the Town of Barnstable	Jan. 1998

Other active CCC Planning Grants:

US Dept of Housing & Urban Development - HOME program

Coastal Zone Management - Mass Bays Program

EPA – Wastewater Planning

EOEA – Smart Growth Technical Assistance

DEP – U. Mass. School of Marine Science & Technology

List of staff and estimated percentage of time allocated to MassHighway funded (PL) tasks in the 2007 UPWP:

John Lipman, Deputy Director & Chief Planner	5%
Robert Mumford, Transportation Program Manager	33%
Lev A. Malakhoff, Senior Transportation Engineer	80%
Priscilla N. Leclerc, Senior Transportation Planner	95%
Glenn Cannon, PE, Transportation Engineer	10%
Clay Schofield, PE, Transportation Engineer	75%
Tim Boesch, Transportation Engineer	10%
David Aron, Transportation Analyst	75%
Sharon Rooney, Planner	10%
Sarah Korjeff, Planner	5%
Phil Dascombe, Planner	5%
Ben Smith, GIS	10%
Gary Prahm, GIS	5%

Seasonal Traffic Counting Technician(s) - approximately 20 person weeks 100%