JOURNEY to 2030 Projects List
Evaluation Criteria Rating

DRAFT

			Mobility (MMS Data)														Safety & Security (MMS Data)						Preser-vation		Environment				Regional Equity			Land Use & Economic Development					Revised Current Cost	Project Info.		
Page in Universe of Projects and Programs Binder	*Community*	*Project*	*Average Daily Traffic Entering Interchange* [1]	*Peak Hour Speed Index - Range* [2]	*Average Peak Hour Speed Index in Peak Direction*	*Average Delay Per Mile - AM/PM (Seconds of Delay per Mile)*	*Average AM/PM Delay at Intersection (Seconds of Delay)*	*Volume/Practical Capacity - Range*	*Volume/Practical Capacity - Average*	*Improves Connections/Access to System*	*Improves Public Transit Service*	*Expands System Capacity*	*Provides Bike & Ped Facilities*	*Addresses Suburban Transit Needs*	*Better Access for Target Populations*	*Improves Freight Mobility*	*Overall Rating*	*Crashes Per Year* [3]	*Crashes/Mile*	*Crash Rate Per Million Vehicles* [4]	*Enhances Safety of Infrastructure for Users* [5]	*Component of Safety/Security Initiative*	*Overall Rating*	*Preserves Existing System*	*Overall Rating*	*Improves Air Quality*	*Protects Water, Open Space,Wildlife, etc.*	*Preserves Natural/Cultural Resources*	*Overall Rating*	*Improves Mobility for EJ Residents*	*Addresses EJ Issue*	*Overall Rating*	*Considers Land Use & Economic Plans*	*Supports Sustainable Development*	*Serves Existing Center of Activity*	*Provides Links for Economic Activities*	*Overall Rating*		*Current Status of Project*	*Type of Project*	*Notes*
Limited Access Highway Projects - Interchanges (1 of 2)																																							
1-50	Reading and Woburn	I-93/I-95 Interchange	327,000	51-78%	59%		N/A		N/A	2	0	3	0	0	0	2	3	147		1.23	2	3	3	0	0	1	0	0	1	0	0	0	1	2	1	1	1.25	$187,300,000	RTP	MI/AQ	A high crash location (#1); with moderately high crash rate. **It is used daily by the highest number of commuters.**
1-14	Canton	I-93/I-95 Interchange	212,000	46-80%	60%		N/A		N/A	2	1	3	0	1	0	2	3	67		0.87	1	3	2	0	0	0	1	0	1	0	0	0	2	-1	-1	1	0.25	$225,000,000	RTP	MI/ AQ	A high crash location (#23) with low crash rate. Chronic congestion AM and PM. LOS F; Route to 128 commuter rail station; used by feeder shuttles to station. Implements previous MPO study; consistent with local growth planning study. Much abutting land protected (ACEC), **MBTA station access. economic development district.**
5-10	Braintree	I-93/Route 3 Interchange (Braintree Split)	253,000	33-80%	64%		N/A		N/A	2	1	3	0	0	0	2	3	55		0.56	1	3	2	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	-0.75	$34,632,000	RTP	MI/AQ*	A high crash location (#30) with low crash rate. Congestion in AM NB (entering split) and PM SB (both entering and leaving split). Implements results of previous MPO study. *** AQ depending on alternative chosen.**
1-62	Somerville	I-93/Mystic Avenue Interchange	174,000	31-36%	34%		N/A		N/A	2	1	2	1	0	0	2	2	106		1.67	2	3	3	0	0	0	0	0	0	0	2	2	2	-1	1	2	1.00	$60,840,000	RTP	MI/ AQ	A high crash location (#4) with medium crash rate. **Design addresses safety on the arterial local road network** .Some elements at LOS F in AM. At the intersection of 2 major regional roadways. Used by 3 MBTA bus routes accessing Orange Line rapid transit and commuter rail stations; will provide access to proposed Assembly Square station and major future development; rezoned to encourage high-density/mixed use development. Somerville is a state economic target area. Lack of direct access from Route 28, south of I-93; lack of pedestrian access under I-93.
1-20	Concord and Lincoln	Route 2/Crosby's Corner Grade Separation[6]	45,500	66-120%	93%		27.8/34.7		N/A	2	0	3	0	0	0	2	2	9		0.64	1	3	2	0	0	1	0	0	1	0	0	0	1	-1	-3	1	-0.50	$72,000,000	RTP/ TIP	MI/ AQ	AM and PM LOS F (1995). High commuting use. Consistent with Concord long-range planning. High crash location (#775) with low crash rate.
1-56	Revere	Route 1A/Route 16 Connection[6]	52,500	60-65%	63%		36.5/88.8		N/A	2	0	1	0	0	0	2	2	N/A		N/A	1	2	1	0	0	0	1	0	0	0	1	1	1	1	1	1	1.00	$48,152,000	RTP	MI	A high usage corridor to Boston and Logan. Below 70% posted speed in AM and at LOS E/F in PM. Revere is a state economic target area.
1-54	Revere	Route 1/Route 16 Interchange	133,000	102-114%	108%		N/A		N/A	2	0	3	0	0	0	2	3	39		0.81	1	2	2	0	0	0	0	0	0	0	1	1	1	-1	-1	1	0.00	$4,784,000	RTP	AQ	A high crash location (#80) with low crash rate. Will improve mobility regional connections from Routes 1A, 107, and 1. Benefits EJ community. Linked to other improvements in the corridor. Revere is a state economic target area. Route 1/Route 16 would remove traffic now going through Mahoney Circle. **Direct connection would relieve Mahoney Circle/Route 60 traffic delays.**

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Limited Access Highway Projects - Interchanges (2 of 2)																																							
1-52	Revere	Mahoney Circle Grade Separation	52,500	35-53%	44%		36.5/88.8		N/A	2	1	2	1	0	0	2	2	48		2.52	3	3	3	0	0	1	0	0	1	0	2	2	1	1	1	1	1.00	$15,600,000	RTP	MI/ AQ	**Questionable community support.** Development of parcels in project area will hinder project. A high crash location (#46) with high crash rate. LOS D in AM and LOS D and F in PM. The 18th most delayed intersection in the MPO region. Moves regional trips from local roads; benefits this EJ community. Revere is a state economic target area. Within 1/2 mile of MBTA Blue Line rapid transit station.
1-40	Marlborough and Hudson	I-495/I-290/Route 85 Connector Interchange[6]	97,000	83-98%	91%		N/A		N/A	2	0	2	0	0	0	2	2	53		1.50	2	3	3	0	0	0	0	0	0	0	0	0	2	1	1	1	1.25	$28,704,000	RTP	MI/ AQ	Existing safety problems. A high crash location (#48), with medium crash rates; truck rollovers. Ramps at or near LOS F.
1-16	Canton	I-95 Northbound/Dedham Street Ramp and Bridge	106,500	71-80%	76%		N/A		N/A	3	1	3	0	1	0	2	3	NA		NA	1	2	1	0	0	0	0	0	0	0	0	0	2	-1	1	1	0.75	$3,500,000	RTP	AQ	Benefit for local streets and access to major industrial/commercial area. Improves access to Westwood and MBTA 128 commuter rail station. Implements previous MPO study; consistent with local growth planning study. In protected area (ACEC). **Provides direct connection with Westwood business district and MBTA commuter station, eliminating circuitous access from I-95/Route 128. Canton opposition.**
1-18	Concord	Concord Rotary/Route 2[6]	42,000	36-48%	42%		21.4/69.8		N/A	3	0	2	0	0	0	2	2	41		2.44	3	3	3	0	0	0	0	0	0	0	0	0	-2	-1	-1	0	-1.00	$41,600,000	RTP	MI	A high crash location (#123) and high crash rate. One of 5 busiest radial routes to Boston; high commuting use. Questionable support by Concord.
1-8	Boston	Route 1A/Boardman Street Grade Separation [6]	65,500	33-40%	36%		55.4/133.5		N/A	2	1	2	0	0	0	2	2	8		0.32	1	2	2	0	0	1	0	0	1	0	0	0	1	-1	1	1	0.25	$10,400,000	RTP	MI/ AQ	A high crash location (#600). LOS D in AM and F in PM. Ranked 1A's worst intersection. Air quality benefits.
1-22	Danvers and Peabody	Route 1/Route 114 Corridor Improvements	77,000	N/A	N/A		N/A		N/A	2	0	2	0	0	0	1	2	40		1.41	2	2	2	0	0	0	0	0	0	0	0	0	2	-1	-1	1	0.25	$48,672,000	RTP	MI/ AQ	A high crash location (#15). Serious congestion in AM and PM. Corridors are in designated redevelopment districts.
1-72	Wilmington and Reading	I-93/Route 129 Interchange Improvement Project	177,000	88%	88%		N/A		N/A	1	0	1	0	0	0	1	1	49		0.76	1	2	2	0	0	0	0	0	0	0	0	0	0	-1	-1	1	-0.25	$18,200,000	RTP	MI/AQ	Two high crash locations (#46 and #136). LOS D in PM at one ramp; LOS F in AM and E in PM at another (the 15th most delayed intersection in N. Suburban subregion in PM).

[1] "Average Daily Traffic Entering Interchange" is a measure of the traffic activity at the interchange. It is defined by the sum of the ADT entering the interchange from all approaches, highway and arterial/other. ADT volumes were collected in 2003-2008.

[2] Speeds were collected during spring 2004–fall 2007.

[3] Crash data is from 2004 - 2006

[4] Crash rate per million entering vehicles = (Avg. # of crashes per year * 10^6) / (ADT * 365)

[6] Safety Rating is largely based on the following criteria: crash rate<1: 1; crash rate greater than 1 but less than 2: 2; crash rate >2: 3

[6] ADT counts are from major road only, not all 4 approaches to the interchange.

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JOURNEY to 2030 RTP Projects List
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Limited Access Highway Projects - Segments (1 of 1)																																								
1-4	Beverly to Peabody	Route 128 Capacity Improvements	80,200	73-102%	89%			73-125%	100%	2	0	3	0	0	0	3	3	271	41		3	3	3	2	2	1	0	0	1	0	0	0	2	-3	-1	1	-0.25	$150,800,000	RTP	MI/ AQ	Eight high crash locations (#22 to #166). Oldest remaining section of 128; poor design standards and high volumes.
1-38	Malden and Revere	Route 1 Improvements	86,600	30-110%	85%			108%	108%	1	0	3	0	0	0	3	3	100	55		3	3	3	0	0	0	0	0	0	0	0	0	2	-1	1	1	0.75	$67,600,000	RTP	MI/ AQ	A high crash location (#79). Congestion SB AM and NB PM peaks. Two redevelopment areas in project area; state economic target area. **High crash location and substandard horizontal curve design.**
1-68	Weymouth to Duxbury	Route 3 South Additional Lanes	85,900	60-105%	96%			82-130%	107%	1	0	3	0	0	0	3	3	321	20		2	3	3	0	0	1	0	0	1	0	0	0	-3	-3	-1	1	-1.50	$219,024,000	RTP	MI/ AQ	Four high crash locations (#8 to #84). LOS E and F AM and PM peaks; breakdown lane used in peaks.

[1] Average Major Road ADT: Values were calculated based on the information presented in the Traffic Volumes on Major Highways in Massachusetts book (May 2007). The ADT values were determined by matching the project area to the road segments presented in the book, converting the AWDT to ADT with a 0.875 adjustment factor and then averaging the segment values for the project.

[2] Range of Peak Hour Speed Index: The speed index values were calculated by matching up the project area to the travel time run values conducted by the MMS. The speed from each segment of the travel time run was divided by the posted speed limit for that segment for Northbound/Eastbound and Southbound/Westbound direction during both the AM and PM Peak Hour. The results of these calculations were then used to define the range of values.

[3] Average Peak Hour Speed Index: The speed index values were calculated by matching up the project area to the travel time run values conducted by the MMS. The speed from each segment of the travel time run was divided by the posted speed limit for that segment for Northbound/Eastbound and Southbound/Westbound direction during both the AM and PM Peak Hour. The results of these calculations were then averaged by project.

[4] Range of Volume/Practical Capacity: Values were calculated based on the information presented in the Traffic Volumes on Major Highways in Massachusetts book (May 2007). The ADT values were determined by matching the project area to the road segments presented in the book, converting the AWDT to ADT with a 0.875 adjustment factor. These values where then divided by the Practical Capacity (20,000 vehicle per lane) to generate the V/PC figures for each segment within the project area. The V/PC where then used to define the range.

[5] Average of Volume/Practical Capacity: Values were calculated based on the information presented in the Traffic Volumes on Major Highways in Massachusetts book (May 2007). The ADT values were determined by matching the project area to the road segments presented in the book, converting the AWDT to ADT with a 0.875 adjustment factor. These values where then divided by the Practical Capacity (20,000 vehicle per lane) to generate the V/PC figures for each segment within the project area. The V/PC where then average to provide the value per project.

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Arterial Roadway Projects - Intersections																																								
1-28	Framingham	Route 126/Route 135 Grade Separation	36,800				218/220			2	0	0	1	0	0	2	2	33		2.46	3	2	3	0	0	1	0	0	1	0	1	1	2	2	2	2	2.00	$52,000,000	RTP	MI	A high crash location (#130). Intersection at LOS F in AM and PM. Second worst in MetroWest subregion and 8th worst in MPO region. MBTA commuter rail station in the vicinity and LIFT buses operate in area. Is an an identified EJ community. Linked to downtown redevelopment.
Arterial Roadway Projects - Segments																																								
1-66	Weymouth	Route 18 Capacity Improvements	25,200 to 36,600			51/55				3	0	3	1	0	0	2	3	367	81		3	2	3	0	0	0	0	0	0	0	0	0	3	1	1	2	1.75	$26,100,000	RTP/ TIP	MI/AQ	Three high crash locations (#8 to #298). Six intersections in the top 25 most delayed in South Shore Coalition subregion. Provides access to South Weymouth commuter rail station on Plymouth Line. Part of development plan for S. Weymouth Naval Air Station, site designated for redevelopment. Weymouth is a state economic target area.
1-26	Everett, Medford, Revere	Route 16 (Revere Beach Parkway)	40,200 to 52,800			102/102				2	0	3	0	0	0	2	3	197	86		3	2	3	0	0	0	0	0	0	0	1	1	1	1	-1	1	0.50	$97,344,000	RTP	MI/ AQ	Four high crash locations (#11 to #539). LOS E/F in AM and PM. Would improve access to MBTA Wellington Orange Line station. Important access to Telecom City site. Everett is a state economic target area.
1-2	Bedford, Burlington and Billerica	Middlesex Turnpike Improvements	15,000-20,000			25/28				1	0	3	1	0	0	2	2	20	9		1	2	1	0	0	0	0	0	0	0	0	0	2	-1	-1	1	0.25	$33,041,840	RTP/ TIP	MI/AQ	LOS E in AM and PM along Turnpike. LOS F at 6 of 7 intersections. Adding sidewalks. Improvements in a multi-community Economic Opportunity Area.
1-44	Newton and Needham	Needham Street/Highland Avenue	25,200 to 34,000			N/A				1	0	1	0	0	0	1	1	90	65		2	2	2	0	0	0	0	0	0	0	0	0	2	-1	-1	1	0.25	$8,100,000	RTP	AQ?	One high crash location (#41). LOS E/F in AM and PM. MBTA bus route uses Needham St. in Newton. Needham section in a redevelopment district; project would facilitate.
1-10	Boston	Rutherford Avenue	12,600 to 29,100			N/A				1	1	-1	0	0	0	0	0	23	20		1	2	1	0	0	0	0	2	2	0	0	0	2	2	2	3	2.25	$79,300,000	RTP	MI	Two Orange Line rapid transit stations adjacent to project. An Urban Ring Phase 2 route. Would improve access to historic resources and park; improve pedestrian facilities; add open space. Boston is a state economic target area.
	Woburn	Montvale Avenue	33,600 to 36,400							1	0	2	0	0	0	1	1	44	220		3	2	2	0	0	0	0	0	0	0	0	0						$3,400,000		AQ	Improvements in traffic flow. Adding additional lanes between I-93 and Washington Street and will improve flow at Montvale and Washington Street intersection.
7-10	Marshfield	Route 139 Improvements	6,200 to 20,100			10/14				1	0	2	0	0	0	1	1	22	10		1	1	1	0	0	0	0	0	0	0	0	0	1	-1	-1	1	0.00	$7,150,200		AQ	Sidewalks and shared bicycle lane (shoulder) included. Development consistent with local master plan.
7-4	Milford	Route 16 Bypass Road	17,800 to 25,000			56/68				2	0	3	0	0	0	1	2	23	48		0	0	0	0	0	0	0	0	0	0	0	0	2	-1	-2	0	-0.25			AQ	Improvements in traffic flow and a bike trail extension. Crash information is for Route 16 in area of bypass.

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Collector/Local Roadway Projects																																										
1-64	Weymouth, Hingham, and Rockland	S. Weymouth Naval Air Station Access Improvements								2	1	3	1	0	0	0	3				0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	2	1.75	$52,000,000	RTP	MI/ AQ	Five high crash locations (#142 to #985) Would connect 2 regional routes and provide access to mixed-use redevelopment site and proposed multi-modal center for the South Weymouth commuter rail station on the Plymouth Line.
1-48	Quincy	Quincy Center Concourse, Phase 2								2	0	3	1	0	0	1	3				0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	1	2.00	$7,500,000	RTP	AQ	Would provide new connection and improve access and economic activity in downtown.
1-74	Woburn	New Boston Street Bridge								3	1	3	0	0	0	2	3				0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	-1	-1	1	0.25	$4,500,000	RTP	AQ	Would provide a second access route to the Anderson Regional Transportation Center on the Lowell commuter rail line and the Industriplex are and for emergency vehicles.
1-60	Salem	Bridge Street	17,300 to 23,900							1	2	3	1	0	0	1	2	36	65		2	2	2	0	0	0	0	0	0	0	0	0	0	0	2	1	-2	1	0.50	$10,000,000	RTP	AQ/ MI	Two high crash locations (#141 and #600). Would improve access to Salem commuter rail station including pedestrian access. MBTA buses serve the station.
1-24	Everett, Malden, Medford	Telecom City Boulevard								2	0	3	0	0	0	1	2				0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	1	1.75	$15,808,000	RTP	AQ/ MI	Would facilitate development at Telecom City and vicinity, a state economic target area.
1-58	Salem	Boston Street	22,900							1	1	3	0	0	0	1	2	37	66		2	2	2	0	0	0	0	0	0	0	0	0	0	0	1	-1	-1	1	0.00	$2,392,000	RTP	AQ	Salem is a state economic target area.
6-50	Boston	T Under D								1	2	0	0	0	0	0	1				1	1	1	0	0	1	0	0	1	0	0	0	0	0	2	2	1	1	1.50	$80,000,000		MI	Would provide more reliable service to Logan on Silver Line. In South Boston Waterfront District.
Freight Projects																																										
1-6/ 6-34	Boston	East Boston Haul Road/Chelsea Truck Route								3	1	3	1	0	0	3	3				2	1	2	0	0	1	0	1	1	0	2	2	1	-1	1	3	1.00	$18,000,000	RTP	AQ/ MI	Would enhance accessibility for commercial vehicles to Logan and Chelsea; remove this traffic from neighborhood streets; add pedestrian connection to E. Boston Greenway. Eliminates truck traffic bottleneck. Boston is a state economic target area.

Ratings scale: -3 to 3

MI = Major Investment (Over $10 Million)
AQ = Regionally Significant for AQ Conformity

Ongoing No-Build Project	2007 Plan Cost	2010	2011–2020	2021–2030	2007 Plan Total	Updated Cost	Status
Route 128 Additional Lanes (Randolph to Wellesley)	$301,350,000	$32,000,000	$219,500,000		$301,350,000	$251,500,000	This cost is lower since money has been spent down since adoption of Plan in 2007.
Recommended Projects							
Middlesex Turnpike Improvements Phase 3 (Bedford, Burlington, and Billerica)	$14,400,000	$14,400,000			$14,400,000	$19,200,000	Phase 2 of 3 in the 2009 element of TIP for $13.8M, Phase 3 is $19.2M and is shown here
Route 128 Capacity Improvements (Beverly to Peabody)	$145,000,000			$293,743,000	$293,743,000	$293,743,000	From Lisco Memo - Potential Long-Range Plans for Improving Express Highways
East Boston Haul Road/Chelsea Truck Route (Boston)	$14,000,000	$5,401,600	$11,767,500		$17,169,100	$18,000,000	$5.6 million is an earmark, Massport - In planning looking for programming in outer TIP year, requested that price be increased to $18,000,000
Route 1A/Boardman Street Grade Separation (Boston)	$10,000,000		$13,686,000		$13,686,000	$13,686,000	Route 1A Corridor Study - 1990, project is inactive in MHD Environmental Services Division, if reactivated a new feasibility study would be needed.
Rutherford Avenue/Sullivan Square (Boston)	$79,300,000	$21,252,500	$79,443,000		$100,695,500	$100,695,500	Boston recommendation from Rutherford Ave Study (1999), Sullivan Square earmark of $11.6 million, part is programmed in 2009
Consolidated Rental Car Facility (Logan Airport, Boston)[1]	$453,000,000	$49,000,000	$404,000,000		$453,000,000	$453,000,000	Needs to be listed in Plan for Massport, no MPO money
I-93/Route 3 Interchange - Braintree Split (Braintree)	$33,300,000		$45,573,000		$45,573,000	$45,573,000	Braintree Split study with recommendations (2005)
I-93/I-95 Interchange (Canton)	$120,000,000		$164,228,000		$164,228,000	$225,000,000	Project in MHD Environmental Services Division, probably ready for 2012, most recent estimate from MHD Environmental's most recent alternative.
I-95 Northbound/Dedham Street Ramp and Bridge (Canton)[2]	$3,500,000	$3,500,000			$3,500,000	$3,500,000	Project to be paid for by developer
Concord Rotary/Route 2 (Concord)	$40,000,000			$81,033,000	$81,033,000	$81,033,000	Preparing 25% plans - in design phase (Route 2 Corridor Study), questionable support by Concord, supported by Acton.
Route 2/Crosby's Corner Grade Separation (Concord and Lincoln)	$31,500,000	$12,450,000	$19,050,000		$31,500,000	$72,000,000	In past TIP ($39 million programmed in 2011 and 2012, remaining should be programmed in 2013 and 2014) - (Route 2 Corridor Study)
Route 1/Route 114 Corridor Improvements (Danvers and Peabody)	$46,800,000			$94,808,000	$94,808,000	$94,808,000	Project inactive in Environmental Section of MassHighway. Developer paid for some ramp improvements.
Telecom City Boulevard (Everett, Malden, and Medford)	$15,200,000		$20,802,000		$20,802,000	$20,802,000	Economic Development Plan, new bridge, now called River's Edge
Revere Beach Parkway (Everett, Medford, and Revere)	$93,600,000			$189,616,000	$189,616,000	$189,616,000	Signal coordination in Lower North Shore Improvement Study (Everett requested widening)
Route 126/Route 135 Grade Separation (Framingham)	$50,000,000			$101,291,000	$101,291,000	$101,291,000	Framingham and MassHighway project
Route 85 Improvements (Hudson)	$5,900,000		$8,075,000		$8,075,000	$10,659,000	Part of the I-495/I290 Interchange, Separated on request from Hudson, cost increase to $8,100,000 increased by 4%/year to 2015.
Route 1 Improvements (Malden and Revere)	$65,000,000			$131,678,000	$131,678,000	$131,678,000	Lower North Shore Improvement Study, approved by PRC, in MHD Environmental Services with FEIR anticipated by end of 2009 and 25% design mid 2010.
I-495/I-290/Route 85 Connector Interchange (Marlborough and Hudson)	$27,600,000		$37,773,000		$37,773,000	$37,773,000	MassHighway project
Needham Street/Winchester Street (Newton and Needham) [3]	$6,000,000		$7,896,000		$7,896,000	$6,000,000	Needham, Newton, MassHighway project
Highland Avenue (Needham) [3]	$2,100,000		$2,763,000		$2,763,000	$2,100,000	Needham, Newton, MassHighway project
Quincy Center Concourse, Phase 2 (Quincy)	$7,000,000		$9,580,000		$9,580,000	$7,500,000	Quincy - 100% design plans received by MassHighway
I-93/I-95 Interchange (Reading and Woburn)	$171,000,000		$234,025,000		$234,025,000	$246,474,000	I-93/I-95 Interchange Transportation Study
Mahoney Circle Grade Separation (Revere)	$15,000,000			$30,387,000	$30,387,000	$30,387,000	MassHighway project, no PRC approval, project on hold in MHD Environmental Services Division.
Route 1/Route 16 Interchange (Revere)	$4,600,000		$6,295,000		$6,295,000	$6,295,000	Lower North Shore Improvement Study
Route 1A/Route 16 Connection (Revere)	$46,300,000			$93,795,000	$93,795,000	$93,795,000	Lower North Shore Improvement Study
Boston Street (Salem)	$2,300,000		$3,148,000		$3,148,000	$3,148,000	MassHighway in preliminary design phase
Bridge Street (Salem)	$3,500,000		$4,790,000		$4,790,000	$13,159,000	MassHighway 25% design plans received by MassHighway, cost increase to $10,000,000 increased by 4%/year to 2015.
I-93/Mystic Avenue Interchange (Somerville)	$58,500,000			$118,510,000	$118,510,000	$118,510,000	Mystic Avenue/Route 128/I-93 Interchange Improvement Study - 1994 earmark for study in the 2009 element of TIP
S. Weymouth Naval Air Station Access Improvements (Parkway construction)[4]	$52,000,000		$52,000,000		$52,000,000	$52,000,000	Naval Station Redevelopment, $52 million for Parkway construction (not included in the total to be funded with non-MPO revenues)
S. Weymouth Naval Air Station Access Improvements (Multi-modal Center)[4]						$10,000,000	Naval Station Redevelopment $10 million for Multi-Modal Center (cost included in total, funding with federal earmark). Programmed in 2009 TIP.
Route 18 Capacity Improvements (Weymouth)	$24,000,000	$24,000,000			$24,000,000	$26,100,000	Was in 2010 element of TIP
Route 3 South Additional Lanes (Weymouth to Duxbury)	$210,600,000			$426,637,000	$426,637,000	$426,637,000	Federal requirement - using shoulder in peak - required to build additional lane to accommodate. May want to include Braintree Split in study area.
I-93/Route 129 Interchange Improvement Project (Wilmington and Reading)	$17,500,000		$23,950,000		$23,950,000	$23,950,000	Phase from Woburn St to Rte 38 nearing completion - reconstruction with sidewalks, project dropped by MHD Environmental Services Division.
New Boston Street Bridge (Woburn)	$2,400,000			$4,862,000	$4,862,000	$4,862,000	City of Woburn request, no PRC approval no design plans, Woburn asked for 2010 at Municipal TIP Day, MassHighway site -$4.5M
Total	**$1,663,750,000**	**$109,504,100**	**$912,344,500**	**$1,566,360,000**	**$2,638,058,600**	**$2,725,974,500**	
					Difference	**$87,915,900**	

[1] This project will be paid for by the Massachusetts Port Authority. Funding for this project will come from General Airport Revenue Bonds, taxable revenue bonds supported by revenue from the daily Customer Facility Charge and rent from car companies, and Transportation Infrastructure Finance and Innovation Act (TIFIA) funds

[2] This project will be paid for by the developer and is not included in the total.

[3] The Needham Street/Highland Avenue project has been split in two because it is currently split by MassHighway. The Needham Street description has been changed to be a three lane cross-section rather than four-lane. It is currently a three lane cross-section so it is no longer an expansion. The Highland Avenue project in Needham does not include an expansion. The roadway is currently a four lane section from south of the bridge at the Needham/Newton town line to Webster Street. The bridge is a two lane bridge and should be widened to accommodate these projects. The bridge widening is not included in either of the projects' designs or costs.

[4] Total project is $62 million; the $52 million for the construction of the Parkway will be funded with non-MPO revenues (state, local, etc.); $10 million for the Multi-modal Center will be funded with federal earmark and is included in the total. Multi-modal center programmed in 2009 TIP.

Marshfield – Route 139 Widening (in Universe of Projects list in Plan)	$7,150,200	25% design plans approved May 2008
Milford – Veterans Memorial Drive (in Universe of Projects list in Plan)		
Woburn – Montvale Avenue	$3,400,000	PRC Approval, no design plans
MassPort – T Under D	$80,000,000	
Somerville – Assembly Square Roadway Project	$50,000,000	
Beverly – Route 128 Brimball Avenue Interchange Relocation	$15,500,000	
Hanover – Route 53 Final Phase	$1,000,000	

PROJECTS CURRENTLY PROGRAMMED IN THE TRANSPORTATION IMPROVEMENT PROGRAM WITH COSTS OVER $10,000,000

Project	Location	Cost	Currently Listed in Plan
Route 128 Improvement Program Contract 4	Canton, Randolph & Westwood	$61,000,000	Y
Route 128 Improvement Program Contract 5	Dedham, Needham & Westwood	$72,000,000	Y
Route 128 Improvement Program	Needham & Wellesley	$53,219,389	Y
Middlesex Turnpike Phase II	Bedford, Billerica, & Burlington	$13,438,679	Y
Pulaski Boulevard	Bellingham	$13,006,510	N
Route 128 at Routes 35 & 62	Danvers & Peabody	$34,982,000	N
Route 18 Roadway Improvements	Weymouth	$26,100,000	Y
Route 2 (Crosby's Corner)	Concord & Lincoln	$71,943,985	Y

PROJECTS IN THE TRANSPORTATION IMPROVEMENT PROGRAM UNIVERSE WITH PRC APPROVAL WITH COSTS OVER $10,000,000

Project	Location	Cost	Currently Listed in Plan
Bridge Street (Beverly/Salem Bridge)	Salem	$10,000,000	Y
Route 27 (North Main Street)	Natick	$10,129,579	N
Lechmere Station Relocation and Expansion	Cambridge	$11,120,000	N
Massachusetts Avenue Bridge	Boston	$12,000,000	N
Route 93 Lighting	Somerville & Medford	$12,250,429	N
Route 107 (Fox Hill) Bridge	Lynn & Saugus	$13,600,000	N
Pulaski Boulevard, Phase 1	Bellingham	$13,006,510	N
Route 1/Walnut Street	Saugus	$18,525,078	N
Middlesex Turnpike Improvement Project, Phase Three	Bedford, Billerica & Burlington	$191,200,000	Y
Concord Rotary (Routes 2/2A/119)	Concord	$31,000,000	Y
Route 2A (Marrett Road) Bridge	Lexington	$21,087,700	N
I-495/I-290 Interchange	Hudson & Marlborough	$25,000,000	Y
Border to Boston Bikeway	Danvers	$26,269,150	N
Route 128 Interchanges Phase 2	Danvers & Peabody	$34,982,000	N
Revere Beach Parkway Bridge	Everett & Medford	$41,320,000	N
Route 1	Malden, Revere, Saugus	$65,563,620	Y
Route 3A (Washington Street) Bridge	Quincy & Weymouth	$255,360,000	N
Longfellow Bridge	Boston & Cambridge	$267,500,000	N

Environmental Services Division - Major Projects Update
July 2, 2009

FUNDED MAJOR PROJECTS IN PROGRESS				
Town	**Project**	**MHD Env. Construction Cost**	**RTP Cost/Year**	**Fed/State Document**
Andover - Tewksbury - Wilmington	I-93/Lowell Junction Interchange	$150,000,000	Project included in Merrimack Valley RTP	EIS/EIR
Beverly	Route 128/Brimball Ave. Interchange	$20-26 Million	Not Listed	EA/EIR
Boston - Cambridge	Longfellow Bridge	$250,000,000	Not Listed	ENF/EA /4F
Canton-Dedham-Westwood	I-95/I-93/University Ave/Dedham Street	$225,000,000 (2012)	Current - $120,000,000 2011-2020 - $164,228,000	EA/EIR
Concord	Concord Rotary	$30,000,000	Current - $40,000,000 2021-2030 - $81,033,000	EA/EIR
Marlborough - Hudson	I-290/I-495 Interchange Improvement Project	$31,000,000	Current - $27,600,000 2011-2020 - $37,773,000	ENF/Unknown
Quincy-Weymouth	Fore River Bridge Replacement	$152,000,000	Not Listed	Unknown
Revere - Malden - Saugus	Route 1 Relocation and Add-a-Lane	$70,000,000	Current - $65,000,000 2021-2030 - $131,678,000	EA/EIR
Weymouth-Rockland	East-West Parkway/Multimodal Center	$62,000,000	Current - $42,000,000 2011-2020 - $42,000,000	EA/FEIR
Weymouth-Abington	Route 18 Widening	$26,100,000	Current - $24,000,000 2007-2010 - $24,000,000	EA/Report
Weymouth-Duxbury	Route 3 South Improvements	$125,000,000 – $200,000,000	Current - $210,000,000 2021-2030 - $426,637,000	EA/SDEIR
Woburn - Reading - Stoneham	I-95/I-93 Interchange Improvements	$260,000,000	Current - $187,300,000 2011-2020 -$246,474,000	EIS/EIR

Environmental Services Division - Major Projects Update
July 2, 2009

PROJECTS IN PERMITTING - 25% - 100% DESIGN				
Town	**Project**	**MHD Env. Construction Cost**	**RTP Cost/Year**	**Fed/State Document**
Bedford –Billerica-Burlington	Middlesex Turnpike phase II	$33,000,000	Current - $13,800,000 2007-2010 - $33,041,840 (Phase II & III together)	EA-FONSI 8/03. FEIR Cert. 8/03
Bedford –Billerica-Burlington	Middlesex Turnpike phase III	Unknown	Current - $19,200,000	EA-FONSI 8/03. FEIR Cert. 8/03
Concord - Lincoln	Crosby's Corner Safety Improvements	$72,000,000	Current - $72,000,000	FEIR Cert. 4/02
Dedham-Needham-Westwood	Rt 128 Add-a-Lane Bridge Contract IV	$92,000,000	Total Rte 128 Project - $301,350,000	EA/FEIR approved 4/99
Needham-Wellesley	Rt 128 Add-a-Lane Bridge Contract V	$126,500,000	Total Rte 128 Project - $301,350,000	EA/FEIR approved 4/99
Salem	Reconstruction of Bridge Street from Flint to Washington	$15,500,000	Current - $10,000,000 2011-2020 - new cost $13,159,000	Re-evaluation/NOPC

Environmental Services Division - Major Projects Update
July 2, 2009

PENDING, ON HOLD, AND INACTIVE MAJOR PROJECTS				
Town	**Project**	**MHD Env. Construction Cost**	**RTP Cost/Year**	**Fed/State Document**
East Boston	Route 1A /Boardman Street	$10,000,000	Current - $10,000,000 2011-2020 - $13,686,000	EA/EIR
East Boston	East Boston Haul Road	$14,000,000	Current - $14,000,000 2011-2020 - $17,169,100	
Danvers	Rt. 114/I-95 Improvements	$35,000,000 (1994)	Current - $46,800,000 2021-203- - $94,808,000	EA/EIR
Littleton	Route 2 Interchange/MBTA	$10,000,000 (Interchange only)	Not Listed	EIS/EIR
Revere	Mahoney Circle Grade Separation	$25,000,000	Current - $15,000,00 was included in Plan 2021-2030 - $30,387,000	EA/EIR
Wilmington & Reading	I-93/Rt. 129 Interchange Improvements	$10,000,000	Current - $17,500,000 2011-2020 - $23,950,000	EIR Cert 12/99
Wilmington	I-93/Rt. 125/Ballardvale Rd.		Not Listed Ramp was constructed	EA; FEIR Cert. 7/00

Additional Expansion Highway Projects Requested by Municipalities/Agencies

Project	Cost (if available)
Marshfield – Route 139 Widening (in Universe of Projects list in Plan)	$7,150,200
Milford – Veterans Memorial Drive (in Universe of Projects list in Plan)	
Woburn – Montvale Avenue	$3,400,000
MassPort – T Under D (Boston Waterfront)	$80,000,000
Somerville – Assembly Square Roadway Project	$50,000,000
Westwood – Westwood Station Projects (over and above the I-95 Northbound/Dedham Street Ramp and Bridge (Canton))	
Beverly – Route 128 Brimball Avenue Interchange Relocation (possible expansion project)	15,500,555
Hanover – Route 53 Final Phase (included in Staff's TIP recommendation)	$1,000,000

Additional Expansion Highway Projects In Other MPOs

Project	Cost (if available)
Merrimack Valley – Tri-Town Interchange	
Central Mass – I-90/I495 (Westborough and Hopkinton)	
Central Mass – I-495/Route 9 (Westborough and Southborough)	

Bicycle Projects with Earmarks or Those over $10 Million

Project	Cost (if available)
Assabet River Rail Trail	$20,000,000
Bruce Freeman Rail Trail	$20,000,000
Border to Boston Bikeway	$42,500,000