

Appendix 13

TCM Timely Implementation

**Appendix 13:
Transportation Control Measures**

A Transportation Control Measure (TCM) commitment is a transportation investment or activity in the State Implementation Plan (SIP) designed to reduce on-road vehicle emissions. Failure to demonstrate timely implementation of TCMs contained in the SIP can result in disapproval of our air quality conformity determination. All emissions are calculated using Texas mobile source emissions reductions strategies (MoSERS) and emissions factors from MOBILE6. Note this appendix demonstrates timely implementation of TCMs, but TCM emission credits are applied to this conformity. Please refer to the individual project listing for more information on these TCMs.

Organization of this appendix:

MPO ID	Sequential unique number given to all projects used for identification by H-GAC that corresponds to the GIS and modeling networks and RTP.
Sponsor	Sponsor Agency usually the agency submitting project and providing matching funds.
Street	Street/Highway where project is located. If project is not located on a specific facility then VA or N/A is listed for street.
From Limit/To Limit	Beginning and ending limits of the project
Project Description	Scope of work or description of project as submitted by the sponsor.
Total Cost	Total project cost including all funding sources (federal, state, local)
SIP Code	Due to a redesign of the RTP database the project category and type differ slightly from how it was reported in the SIP. This field is how each project was reported in the SIP
Length	Length in miles of project
Completion Date	Date project was completed
VOC	Volatile organic compound (kg/day)
NOx	Nitrogen oxide (kg/day)
Project Notes	Specific notes about the project.

Transportation Control Measures

Type	Category	VOC (kg/day)	NOx (kg/day)	Total Length	Grand Total
AIR QUALITY	DEMAND MANAGEMENT	146.8	206.795	0.002	\$15,661,663
AIR QUALITY Total		146.8	206.795	0.002	\$15,661,663
PEDESTRIAN/BICYCLE	OTHER	0.2	0.31	16.7	\$441,600
	SEPARATE PATH	16.921	19.413	81.176	\$26,074,326
	SIDEWALKS	1.418	2.452	7.046	\$19,592,314
	STRIPED LANE	44.287	59.875	281.793	\$74,028,867
PEDESTRIAN/BICYCLE Total		62.826	82.05	386.715	\$120,137,107
PORT	FACILITY IMPROVEMENTS	2.16	3.02	7.95	\$14,882,830
PORT Total		2.16	3.02	7.95	\$14,882,830
TRAFFIC FLOW IMPROVEMENTS	ACCESS MANAGEMENT IMPROVEMENTS	22.144	45.77	11.226	\$3,125,000
	GRADE SEPARATION	20.255	31.45	20.665	\$72,079,067
	INTELLIGENT TRANSPORTATION SYSTEMS	60.826	133.52	148.472	\$68,885,629
	INTERCHANGE IMPROVEMENTS	6.491	12.687	4.989	\$35,289,991
	INTERSECTION IMPROVEMENTS	1.996	3.613	1.343	\$2,830,000
	OTHER	1.74	3.82	0.001	\$3,903,000
	TRAFFIC ENGINEERING	1.981	4.504	3.594	\$61,892,000
	TRAFFIC SIGNAL IMPROVEMENTS	45.504	69.669	36.354	\$11,917,502
TURN LANES	17.897	35.37	8.765	\$7,342,025	
TRAFFIC FLOW IMPROVEMENTS Total		178.834	340.403	235.409	\$267,264,214
TRANSIT	LIGHT RAIL	14.44	20.22	6	\$300,000,000
	OPERATING	0.98	1.37	0.001	\$600,000
	OTHER	0.55	0.98	0	\$1,250,000
	PARK & RIDE	47.683	55.808	3773 spaces	\$12,543,357
	PEDESTRIAN IMPROVEMENTS	28.943	45.31	9.761	\$22,993,000
	SERVICES	0.98	1.37	0.001	\$600,000
TRANSIT Total		93.576	125.058	31.518	\$337,986,357
Grand Total		484.196	757.326	661.594	\$755,932,171

Transportation Control Measures

SIP CODE	VOC (kg/day)	NOx (kg/day)	Total Length	Grand Total
BIKE/PED	91.769	127.36	396.476	\$143,130,107
INTMDL	3.9	6.84	7.951	\$18,785,830
ITS	84.184	154.531	140.24	\$68,016,629
P&R	49.643	58.548	3773 sp+srv+o	\$13,743,357
RCTSS	22.146	48.658	44.586	\$12,786,502
TDM	161.24	227.015	6.002	\$315,661,663
TRANS	0.55	0.98	0	\$1,250,000
TSM	70.764	133.394	50.582	\$182,558,083
Grand Total	484.196	757.326	661.594	\$755,932,171

Transportation Control Measures

SIP CODE	VOC (tons/day)	NOx (tons/day)	Total Length	Grand Total
BIKE/PED	0.101158007	0.140390368	396.476	\$143,130,107
INTMDL	0.004299014	0.007539809	7.951	\$18,785,830
ITS	0.092796975	0.170341269	140.24	\$68,016,629
P&R	0.05472204	0.064538123	3773 sp+srv+o	\$13,743,357
RCTSS	0.024411786	0.053636264	44.586	\$12,786,502
TDM	0.177736676	0.250241202	6.002	\$315,661,663
TRANS	0.000606271	0.001080265	0	\$1,250,000
TSM	0.078003958	0.147041715	50.582	\$182,558,083
Grand Total	0.533734727	0.834809015	661.594	\$755,932,171

Transportation Control Measures

Type	Category	VOC (ton/day)	NOx (ton/day)	Total Length	Grand Total
AIR QUALITY	DEMAND MANAGEMENT	0.162	0.228	0.002	\$15,661,663
AIR QUALITY Total		0.162	0.228	0.002	\$15,661,663
PEDESTRIAN/BICYCLE	OTHER	0.000	0.000	16.7	\$441,600
	SEPARATE PATH	0.019	0.021	81.176	\$26,074,326
	SIDEWALKS	0.002	0.003	7.046	\$19,592,314
	STRIPED LANE	0.049	0.066	281.793	\$74,028,867
PEDESTRIAN/BICYCLE Total		0.069	0.090	386.715	\$120,137,107
PORT	FACILITY IMPROVEMENTS	0.002	0.003	7.95	\$14,882,830
PORT Total		0.002	0.003	7.95	\$14,882,830
TRAFFIC FLOW IMPROVEMENTS	ACCESS MANAGEMENT IMPROVEMENTS	0.024	0.050	11.226	\$3,125,000
	GRADE SEPARATION	0.022	0.035	20.665	\$72,079,067
	INTELLIGENT TRANSPORTATION SYSTEMS	0.067	0.147	148.472	\$68,885,629
	INTERCHANGE IMPROVEMENTS	0.007	0.014	4.989	\$35,289,991
	INTERSECTION IMPROVEMENTS	0.002	0.004	1.343	\$2,830,000
	OTHER	0.002	0.004	0.001	\$3,903,000
	TRAFFIC ENGINEERING	0.002	0.005	3.594	\$61,892,000
	TRAFFIC SIGNAL IMPROVEMENTS	0.050	0.077	36.354	\$11,917,502
TURN LANES	0.020	0.039	8.765	\$7,342,025	
TRAFFIC FLOW IMPROVEMENTS Total		0.197	0.375	235.409	\$267,264,214
TRANSIT	LIGHT RAIL	0.016	0.022	6	\$300,000,000
	OPERATING	0.001	0.002	0.001	\$600,000
	OTHER	0.001	0.001	0	\$1,250,000
	PARK & RIDE	0.053	0.062	3773 spaces	\$12,543,357
	PEDESTRIAN IMPROVEMENTS	0.032	0.050	9.761	\$22,993,000
SERVICES	0.001	0.002	0.001	\$600,000	
TRANSIT Total		0.103	0.138	31.518	\$337,986,357
Grand Total		0.534	0.835	661.594	\$755,932,171

Transportation Control Measures

Type	Category	SIP Code
AIR QUALITY	DEMAND MANAGEMENT	TDM
PEDESTRIAN/BICYCLE	OTHER	BIKE/PED
	SEPARATE PATH	BIKE/PED
	SIDEWALKS	BIKE/PED
	STRIPED LANE	BIKE/PED
PORT	FACILITY IMPROVEMENTS	INTMDL
TRAFFIC FLOW IMPROVEMENTS	ACCESS MANAGEMENT IMPROVEMENTS	TSM
	GRADE SEPARATION	TSM
	INTELLIGENT TRANSPORTATION SYSTEMS	ITS
	INTERCHANGE IMPROVEMENTS	TSM
	INTERSECTION IMPROVEMENTS	TSM
	OTHER	TSM
	TRAFFIC ENGINEERING	TSM
	TRAFFIC SIGNAL IMPROVEMENTS	RCTSS
	TURN LANES	TSM
TRANSIT	LIGHT RAIL	TDM
	OPERATING	P&R
	OTHER	TRANS
	PARK & RIDE	P&R
	PEDESTRIAN IMPROVEMENTS	BIKE/PED
	SERVICES	P&R

Transportation Control Measures

Grouped by Type, then Category. Sorted by Street, then limits.

Type: **AIR QUALITY**

Category: **DEMAND MANAGEMENT**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
3049	H-GAC	VA	VARIOUS		TELECOMMUTING 3 YEAR PILOT PROGRAM (FY 1998-2000)	\$358,845	TDM	0.001	05/01/2000	3.550	5.000
<i>COMPLETE 2000</i>											
9975	H-GAC	VA	VARIOUS		REGIONAL COMMUTE ALTERNATIVES PROGRAM - IMPLEMENTATION (FY 2002)	\$4,177,188	TDM		07/01/2002	28.650	40.359
<i>COMPLETE 2002</i>											
9927	H-GAC	VA	VARIOUS		REGIONAL COMMUTE ALTERNATIVES PROGRAM - IMPLEMENTATION (FY 2000)	\$3,439,040	TDM		09/01/2002	28.650	40.359
<i>COMPLETE 2002</i>											
9417	H-GAC	VA	VARIOUS		REGIONAL VANPOOL PROGRAM (FY 2000)	\$1,387,500	TDM	0.000	04/11/2005	28.650	40.359
<i>COMPLETE 2002</i>											
9790	H-GAC	VA	VARIOUS		REGIONAL COMMUTE ALTERNATIVES PROGRAM (FY 1998)	\$1,250,000	TDM		02/01/2001	28.650	40.359
<i>COMPLETE 2001</i>											
9945	H-GAC	VA	VARIOUS		REGIONAL COMMUTE ALTERNATIVES PROGRAM - IMPLEMENTATION (FY 2001)	\$5,049,090	TDM	0.001	04/11/2005	28.650	40.359
<i>COMPLETE 2002</i>											
Category Totals:						\$15,661,663		0.002		146.800	206.795
Totals for Type: AIR QUALITY						Type Totals:	\$15,661,663	0.002		146.800	206.795

Type: **PEDESTRIAN/BICYCLE**

Category: **OTHER**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
5061	CITY OF SUGAR LAND	SWEETWATER BLVD	AT DITCH "A"		CONSTRUCT BIKE/PEDESTRIAN BRIDGE OVER "DITCH A"	\$207,600	BIKE/PED	10.000	01/26/2004	0.100	0.150
<i>COMPLETED 2004</i>											
5060	CITY OF SUGAR LAND	WILLIAMS TRACE BLVD	AT OYSTER CREEK		CONSTRUCT BIKE/PEDESTRIAN BRIDGE OVER OYSTER CREEK	\$234,000	BIKE/PED	6.700	01/26/2004	0.100	0.160
<i>COMPLETE 2004</i>											
Category Totals:						\$441,600		16.700		0.200	0.310

Type: **PEDESTRIAN/BICYCLE**

Category: **SEPARATE PATH**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
2927	CITY OF ALVIN	ALVIN MUSTANG TRAIL	N ALVIN C/L	S ALVIN C/L	CONSTRUCT ALVIN MUSTANG TRAIL SYSTEM OF BRAZORIA COUNTY	\$1,798,000	BIKE/PED	23.200	11/14/2003	1.299	1.843
<i>COMPLETED IN 2003</i>											
1725	CITY OF PEARLAND	BARRY ROSE RD	FM 518	PEARLAND PKWY	SIDEWALK/BIKE PATH	\$137,500	BIKE/PED	2.200	01/01/2005	0.098	0.136
<i>PROVIDED BY CITY OF PEARLAND COMPLETED 2005</i>											
3069	CITY OF BAYTOWN	BAYTOWN HIKE & BIKE TRAIL	ARIZONA ST	MARKET ST	CONSTRUCT HIKE & BIKE TRAIL (PHASE 2)	\$1,086,448	BIKE/PED	1.041	06/26/2006	0.100	0.160
7599	CITY OF PEARLAND	CULLEN	FM 518	FITE @ CR 98	CONSTRUCT 4-LANE INCLUDES SIDEWALK/BIKE PATH (ENDS @ NORTHFORK)	\$9,372,110	BIKE/PED	1.231	07/01/2005	0.137	0.189
<i>PROVIDED BY CITY OF PEARLAND COMPLETED 2005</i>											
13461	CITY OF HOUSTON	DIXIE DR	TIERWESTER	ALMEDA	BIKE ROUTE	\$0	BIKE/PED	1.130		0.320	0.270
<i>COMPLETED LOCALLY BY CITY OF HOUSTON</i>											
1723	CITY OF PEARLAND	FM 518	CR 91	SH 288	SIDEWALK/BIKE PATH	\$0	BIKE/PED	0.700	09/01/2005	0.085	0.118
<i>COMPLETED BY THE CITY OF PEARLAND</i>											
1722	CITY OF PEARLAND	FM 518	SH 35	WESTMINSTER	SIDEWALK/BIKE PATH	\$0	BIKE/PED	1.200	09/01/2005	0.150	0.207
<i>COMPLETED BY THE CITY OF PEARLAND</i>											
9954	CITY OF BAYTOWN	GOOSE CREEK TRAIL	S OF MARKET ST	W OF TEXAS AVE	CONSTRUCT HIKE/BIKE TRAIL	\$1,406,250	BIKE/PED	0.682	06/26/2006	0.299	0.425
3075	CITY OF HOUSTON	HARRISBURG-SUNSET RAILS TO TRAILS	CHENEVERT	75TH ST & BUFFALO BAYOU	HARRISBURG/SUNSET RAILS TO TRAILS-PH 1 (TCM SIP COMMITMENT)	\$2,075,000	BIKE/PED	5.000	06/23/2000	0.280	0.397
<i>COMPLETE 2000</i>											
7006	CITY OF HOUSTON	HARRISBURG/SUNSET RAILS TO TRAILS			HARRISBURG/SUNSET RAILS TO TRAILS - PHASE 2	\$952,000	BIKE/PED	0.324	10/06/2003	0.560	0.810
<i>PROJECT COMPLETED 2003</i>											
10946	TXDOT HOUSTON DISTRICT	HEMPSTEAD RD	N OF N POST OAK	S OF N POST OAK	CONSTRUCT TWO PEDESTRIAN SHELTER FOUNDATIONS WITH PEDESTRIAN RAILS	\$80,000	BIKE/PED	0.080	03/18/2004	0.280	0.640
<i>PROJECT COMPLETED MARCH 2004</i>											

Type: **PEDESTRIAN/BICYCLE**

Category: **SEPARATE PATH**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
3065	CITY OF HOUSTON	HERMAN BROWN PARK TRAIL	W/I HERMAN BROWN PARK	DUNVEGAN WAY AT MERCURY DR & WESTSHIRE AT IH 10	BIKE & HIKE TRAIL THRU HERMAN BROWN PARK PH 1	\$611,000	BIKE/PED	2.550	02/02/2001	0.143	0.203
<i>COMPLETE 2001</i>											
7644	HARRIS COUNTY	LYONS SCHOOL RD	STUEBNER AIRLINE	BLUE & GOLD RD	PEDESTRIAN WALKWAY	\$207,900	BIKE/PED		03/01/2004	0.213	0.302
<i>PROJECT COMPLETED MARCH 2004</i>											
1724	CITY OF PEARLAND	MAGNOLIA	PEARLAND PKWY	VETERANS	SIDEWALK/BIKE PATH	\$178,541	BIKE/PED	1.300	09/01/2003	0.111	0.153
<i>COMPLETED BY CITY OF PEARLAND</i>											
2934	HARRIS COUNTY	NORTH CHANNEL HIKE & BIKE TRL	WOODFOREST BLVD (SOUTH)	WALLISVILL E RD (NORTH)	CONSTRUCT HIKE & BIKE TRAIL	\$984,269	BIKE/PED	1.988	09/01/2006	0.111	0.158
<i>PROJECT COMPLETED HARRIS COUNTY PRECINCT 2</i>											
3033	CITY OF LAKE JACKSON	OYSTER CREEK TRAIL	N. DIXIE DR	SH 332	CONSTRUCT HIKE & BIKE TRAIL	\$1,286,040	BIKE/PED	1.976	11/01/2006	0.460	0.380
<i>PROJECT TO BE COMPLETED BY DECEMBER 2006</i>											
7062	CITY OF ANGLETON	PEDESTRIAN WALKWAY	IN ANGLETON		CONSTRUCT PEDESTRIAN WALKWAY IN ANGLETON	\$658,175	BIKE/PED	2.540	01/25/2006	0.150	0.360
1721	CITY OF PEARLAND	SH 35	JOHN LIZER	INDUSTRIAL	SIDEWALK/BIKE PATH	\$85,000	BIKE/PED	1.400	08/01/2001	0.129	0.179
<i>COMPLETED BY CITY OF PEARLAND</i>											
13460	CITY OF HOUSTON	T C JESTER BLVD	11TH STREET	WASHINGTON AVE	CONSTRUCT BIKE ROUTE	\$0	BIKE/PED	1.500		0.440	0.360
<i>COMPLETED LOCALLY BY CITY OF HOUSTON</i>											
13201	HARRIS COUNTY	TERRY HERSHEY PARK	SH 6	BW 8	CONSTRUCT TERRY HERSHEY PARK HIKE/BIKE TRAIL	\$0	BIKE/PED	10.830	09/01/2005	10.420	10.510
<i>COMPLETED BY HARRIS COUNTY</i>											
2936	TXDOT HOUSTON DISTRICT	TEXAS CITY TRLS - PH 2	COLLEGE OF THE MAINLAND	BAY ST PARK (E TX CITY)	CONSTRUCT HIKE & BIKE TRAILS	\$1,600,933	BIKE/PED	9.330	10/20/2000	0.522	0.741
<i>COMPLETED 2000</i>											

Type: **PEDESTRIAN/BICYCLE**

Category: **SEPARATE PATH**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
5059	CITY OF SEABROOK	TODVILLE RD	PINE GULLY PARK	MIRAMAR PARK	CONSTRUCT 15' HIKE/BIKE TRAIL PARALLEL TO TODVILLE	\$218,160	BIKE/PED	2.110	02/18/2002	0.118	0.168
2586	CITY OF TEXAS CITY	VA	2ND AVE AT 16TH ST	BAY ST @ 14TH AVE	TEXAS CITY TRAILS LANDSCAPING & SIGNALS	\$735,000	BIKE/PED	4.004	11/12/1998	0.224	0.318
<i>COMPLETED 1998 STILL SHOWN BECAUSE IT WAS A REPLACEMENT PROJECT FOR THE 2004 SIP</i>											
3074	CITY OF HOUSTON	W WHITE OAK BAYOU TRL	11TH ST	S OF PINEMONT	CONSTRUCT W WHITE OAK BAYOU TRAIL (TCM SIP COMMITMENT)	\$2,602,000	BIKE/PED	4.860	08/20/2001	0.272	0.386
<i>COMPLETE 2001</i>											
Category Totals:						\$26,074,326		81.176		16.921	19.413

Category: **SIDEWALKS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
7025	TXDOT HOUSTON DISTRICT	ALDINE MAIL ROUTE	0.5 MI W OF JOHN F KENNEDY BLVD	US 59	INSTALL SIDEWALKS	\$852,568	BIKE/PED	1.800	10/10/2005	0.150	0.210
7298	TXDOT HOUSTON DISTRICT	FM 2004	NEVILLE ST	SCHIRO ST	PLACE SIDEWALKS	\$117,000	BIKE/PED	0.614	06/27/2003	0.665	1.301
986	CITY OF PEARLAND	PEARLAND PKWY	BW 8	FM 518 IN PEARLAND	CONSTRUCT NEW 4-LANE EXTENSION INCLUDING 2.3 MI PEDESTRIAN SIDEWALK	\$17,970,000	BIKE/PED	2.300	12/01/2004	0.153	0.211
<i>PROVIDED BY CITY OF PEARLAND COMPLETED 2004</i>											
5058	CITY OF ROSENBERG	SH 36	US 90A	SEABOURN E CREEK PARK	CONSTRUCT 5' SIDEWALK	\$652,746	BIKE/PED	2.332	12/08/2006	0.450	0.730
<i>COMPLETED 12-08-2006</i>											
Category Totals:						\$19,592,314		7.046		1.418	2.452

Category: **STRIPED LANE**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
13202	HARRIS COUNTY	BARKER RESERVOIR TRAIL	BARKER CLODINE RD	NOBILE RD	CONSTRUCT GEORGE BUSH PARK/ BARKER RESERVOIR HIKE/BIKE TRAIL	\$0	BIKE/PED	4.000	09/01/2005	5.130	5.510
<i>COMPLETED BY HARRIS COUNTY</i>											

Type: **PEDESTRIAN/BICYCLE**

Category: **STRIPED LANE**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
41	TXDOT HOUSTON DISTRICT	FM 518	FM 1266	SH 146	WIDEN TO 4-LANE DIVIDED CURB & GUTTER INCLUDES 10-FT WIDE BIKEWAY	\$6,186,249	BIKE/PED	1.370		0.450	0.380
<i>PROJECT CURRENTLY UNDER CONSTRUCTION AND DUE TO WEATHER DELAYS IS SLATED TO BE COMPLETED IN FEBRUARY 2008</i>											
42	TXDOT HOUSTON DISTRICT	FM 518	FM 2094	FM 1266	WIDEN TO 4-LANE DIVIDED CURB & GUTTER INCLUDES 10-FT WIDE BIKEWAY	\$11,732,012	BIKE/PED	2.320		0.280	0.230
<i>PROJECT CURRENTLY UNDER CONSTRUCTION AND DUE TO WEATHER DELAYS IS SLATED TO BE COMPLETED IN FEBRUARY 2008</i>											
937	TXDOT HOUSTON DISTRICT	FM 529	1.44 MI W OF BARKER CYPRESS RD	BARKER CYPRESS RD	WIDEN TO 4 LANES WITH CONTINUOUS LEFT TURN LANE AND REPLACE BRIDGE INCLUDES 1.21 MI LONG 5-FT WIDE BIKE LANES IN EACH DIRECTION	\$6,190,000	BIKE/PED	1.440	07/26/2005	0.500	0.420
<i>PROJECT COMPLETED 07/26/2005</i>											
9845	TXDOT HOUSTON DISTRICT	FM 529	HUFFMEISTER RD	BARKER-CY PRESS RD	WIDEN TO 6 LANE DIVIDED CURB & GUTTER & TMS INCLUDES 5-FT WIDE ON STREET BIKE ROUTE	\$14,993,428	BIKE/PED	3.280	03/21/2001	0.360	0.300
<i>PROJECT COMPLETED IN 2001</i>											
73	TXDOT HOUSTON DISTRICT	FM 529	HUFFMEISTER RD	US 290	WIDEN TO 6 LANE DIVIDED W/ CONTINUOUS LEFT TURN LANE & TRAFFIC MANAGEMENT SYSTEM INCLUDES 3.33 MI LONG 5-FT WIDE BIKE LANES IN EACH DIRECTION	\$10,332,000	BIKE/PED	5.364	11/29/2001	0.360	0.300
<i>PROJECT COMPLETED IN 2001</i>											
10364	CITY OF HOUSTON	HOLLY HALL	FANNIN	ARDMORE	MEDICAL CENTER GALLERIA PHASE 2 BIKE TRAIL	\$917,339	BIKE/PED	1.324	05/01/2006	0.450	0.740
<i>PROJECT COMPLETED</i>											
3061	CITY OF HOUSTON	N HOUSTON ON-STREET BKWY NTRWK - PH 1			CONSTRUCT ON-STREET BIKEWAY NETWORK (N OF LP 610) (TCM SIP COMMITMENT)	\$1,746,000	BIKE/PED	41.270	03/01/2001	23.103	32.778
<i>COMPLETE 2001</i>											
7007	CITY OF HOUSTON	N HOUSTON ON-STREET BKWY NTRWK - PH 2			NORTH HOUSTON ON-STREET BIKEWAY NETWORK - PHASE 2	\$250,400	BIKE/PED	4.290	09/02/2004	0.240	0.341
3062	CITY OF HOUSTON	SE HOUSTON ON-ST BIKEWAY NETWORK	BETWEEN GRIGGS & EDGEBROOK	BETWEEN S WAYSIDE & ALLEN GENOA	BIKE SE HOUSTON ON-STREET BIKEWAY NETWORK (INSIDE LP 610) (TCM SIP COMMITMENT)	\$2,235,000	BIKE/PED	38.000		1.875	2.661
<i>PROJECT HAS BEEN COMPLETED WITH CITY FUNDING</i>											

Type: **PEDESTRIAN/BICYCLE**

Category: **STRIPED LANE**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
7005	CITY OF HOUSTON	TMC/GREENWAY PLAZA/GALLERIA ON-STREET BIKE			ACCESS ON-STREET BIKEWAY NETWORK - PHASE 2	\$1,198,300	BIKE/PED	11.690	10/06/2003	0.654	0.928
7003	CITY OF HOUSTON	TMC/GREENWAY PLAZA/GALLERIA ON-STREET BIKE			TMC/GREENWAY PLAZA/GALLERIA ACCESS ON-STREET BIKEWAY NETWORK -NORTH SEGMENT PH 1 (TCM SIP COMMITMENT)	\$440,000	BIKE/PED	6.680	10/03/2000	1.690	2.380
<i>COMPLETE 2000</i>											
7004	CITY OF HOUSTON	TMC/GREENWAY PLAZA/GALLERIA ON-STREET BIKE			TMC/GREENWAY PLAZA/GALLERIA ACCESS ON-STREET BIKEWAY NETWORK -WEST SEGMENT PH 1 (TCM SIP COMMITMENT)	\$1,734,700	BIKE/PED	29.960	11/09/2000	1.677	2.380
<i>COMPLETE 2000</i>											
3071	CITY OF HOUSTON	TMC/GREENWAY PLAZA/GALLERIA ON-STREET BIKE	BOUNDED BY CHIMNEY ROCK ON W, BUFFALO BAYOU ON N	CALHOUN ON E & IH 610 O	MEDICAL CENTER/GREENWAY PLAZA/GALLERIA ACCESS ON STREET BIKEWAY NETWORK	\$1,277,400	BIKE/PED	26.390	05/30/2001	1.527	2.167
<i>COMPLETE 2001</i>											
9904	CITY OF SUGAR LAND	UNIVERSITY BLVD	US 59	COMMONW EALTH BLVD	CONSTRUCT 4-LANE DIVIDED ROADWAY ON NEW LOCATION INCLUDES 14-FT WIDE BIKEWAY 1.55 MI IN LENGTH	\$10,060,000	BIKE/PED	1.680	12/09/2003	0.240	0.200
<i>COMPLETED IN MARCH 2004</i>											
9987	CITY OF HOUSTON	VA		NORTH SEGMENT	CBD ACCESS ON-STREET BIKEWAY NETWORK (TCM SIP COMMITMENT)	\$2,076,965	BIKE/PED	26.380	03/14/2001	1.477	2.095
<i>COMPLETE 2001</i>											
9988	CITY OF HOUSTON	VA		SOUTH SEGMENT - PH 1	CBD ACCESS ON-STREET BIKEWAY NETWORK (TCM SIP COMMITMENT)	\$1,282,474	BIKE/PED	45.070	10/15/2001	2.523	3.580
<i>COMPLETE 2001</i>											
9989	CITY OF HOUSTON	VA		SOUTH SEGMENT - PH 2	CBD ACCESS ON STREET BIKEWAY NETWORK-PHASE 2	\$156,600	BIKE/PED	3.485	10/06/2003	0.195	0.277
<i>COMPLETED OCTOBER 2003</i>											
3063	CITY OF HOUSTON	W HOUSTON ON-ST BIKEWAY - PH 1			BIKE W HOUSTON ON-STREET BIKEWAY - PH 1 (TCM SIP COMMITMENT)	\$1,220,000	BIKE/PED	27.800	08/20/2001	1.556	2.208
<i>COMPLETE 2001</i>											
Category Totals:						\$74,028,867		281.793		44.287	59.875
Totals for Type: PEDESTRIAN/BICYCLE						Type Totals:	\$120,137,107		386.715	62.826	82.050

Type: **PORT**

Category: **FACILITY IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
9534	PORT OF HOUSTON AUTHORITY	DEER PARK JUNCTION TERMINAL	AT STRANG YARD		CONSTRUCT PORT OF HOUSTON LEAS TRACK - SEGMENT 3 AT STRANG YARD	\$14,882,830	INTMDL	7.950	02/28/2002	2.160	3.020
<i>COMPLETE 2002</i>											
						Category Totals:	\$14,882,830	7.950		2.160	3.020
Totals for Type: PORT						Type Totals:	\$14,882,830	7.950		2.160	3.020

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **ACCESS MANAGEMENT IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
10574	TXDOT HOUSTON DISTRICT	FM 1093	IH 610	SH 6	WESTHEIMER CORRIDOR IMPROVEMENTS - PHASE 1	\$3,125,000	TSM	11.226	12/01/2006	22.144	45.770
						Category Totals:	\$3,125,000	11.226		22.144	45.770

Category: **GRADE SEPARATION**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
6090	TXDOT HOUSTON DISTRICT	BS 288B	AT UP RR IN CLUTE		CONSTRUCT RAILROAD GRADE SEPARATION AND APPROACHES	\$10,000,000	TSM	0.833	01/01/2005	0.309	0.440
<i>COMPLETED JANUARY 2005</i>											
6070	PORT OF HOUSTON AUTHORITY	FAIRMONT PKWY	AT UPRR (W OF 16 TH ST)		CONSTRUCT GRADE SEPARATION	\$10,649,359	TSM	0.735	05/01/2007	0.111	0.158
2049	TXDOT HOUSTON DISTRICT	FM 723	AT BNSF AND UP RAILROADS IN ROSENBERG		RAILROAD GRADE SEPARATION AND APPROACHES	\$2,200,000	TSM	0.548	01/15/2003	0.203	0.289
<i>COMPLETED JANUARY 2003</i>											
470	TXDOT HOUSTON DISTRICT	IH 45 S	AT EL DORADO		CONSTRUCT GRADE SEPARATION	\$2,000,000	TSM	0.358	01/03/2003	5.140	7.180
<i>COMPLETE 2003</i>											
5082	TXDOT HOUSTON DISTRICT	SH 288	AT CR 220		CONSTRUCT GRADE SEPARATION	\$5,000,000	TSM	4.693	08/30/2004	1.739	2.477
<i>COMPLETED AUGUST 2004</i>											

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **GRADE SEPARATION**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
3012	TXDOT HOUSTON DISTRICT	SH 288	AT CR 44		GRADE SEPARATION	\$5,000,000	TSM	6.565	08/11/2003	2.432	3.465
<i>COMPLETED AUGUST 2003</i>											
3013	TXDOT HOUSTON DISTRICT	SH 288	AT FM 2004		CONSTRUCT GRADE SEPARATION OF MAINLANES ON SH 288 OVER FM 2004	\$7,953,500	TSM	1.035	08/11/2003	6.390	10.220
7033	TXDOT HOUSTON DISTRICT	SH 99	0.24 MI S OF HIGHLAND KNOLLS DR	HARRIS C/L	CONSTRUCT GRADE SEPARATION	\$6,473,310	TSM	0.525	12/20/2005	0.320	0.455
7034	TXDOT HOUSTON DISTRICT	SH 99	FORT BEND C/L	0.15 MI S OF IH 10	CONSTRUCT GRADE SEPARATION	\$11,329,098	TSM	1.546	12/20/2005	0.341	0.486
206	TXDOT HOUSTON DISTRICT	US 290	1488 M W OF MASON RD	1394 M E OF MASON RD	CONSTRUCT GRADE SEPARATION	\$8,500,000	TSM	2.861	02/06/2003	1.060	1.510
<i>COMPLETE 2003</i>											
9840	TXDOT HOUSTON DISTRICT	US 90	AT KRENEK RD		GRADE SEPARATION	\$2,973,800	TSM	0.966	01/03/2003	2.210	4.770

Category Totals: \$72,079,067 20.665 20.255 31.450

Category: **INTELLIGENT TRANSPORTATION SYSTEMS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
10535	HCTRA	BW 8	E OF SH 249	E OF HARDY TOLL ROAD	INSTALL COMPUTERIZED TRAFFIC MANAGEMENT SYSTEM	\$3,750,000	ITS	8.140	09/01/2004	3.085	6.772
1094	TXDOT HOUSTON DISTRICT	BW 8	US 90A	E OF SH 249	INSTALL COMPUTERIZED TRAFFIC MANAGEMENT SYSTEM	\$10,935,000	ITS	24.745	09/01/2004	9.378	20.588
10536	HCTRA	BW 8	W OF IH 45	GENOA-RED BLUFF	INSTALL COMPUTERIZED TRAFFIC MANAGEMENT SYSTEM	\$700,000	ITS	2.708		1.026	2.253

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **INTELLIGENT TRANSPORTATION SYSTEMS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
1098	TXDOT HOUSTON DISTRICT	BW 8	W OF IH 45	US 90A	INSTALL COMPUTERIZED TRAFFIC MANAGEMENT SYSTEM	\$8,280,000	ITS	17.232	09/01/2004	6.531	14.337
9527	TXDOT HOUSTON DISTRICT	IH 10 E	SAN JACINTO ST	MEADOW ST	INSTALL COMPUTERIZED TRAFFIC MANAGEMENT SYSTEM	\$600,000	ITS	1.000	07/11/2003	1.220	2.679
1007	TXDOT HOUSTON DISTRICT	IH 10 W	STUDEMONT	SAN JACINTO	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$1,255,000	RCTSS	2.505	07/11/2003	0.940	2.080
1825	TXDOT HOUSTON DISTRICT	IH 45 N	CYPRESSWOOD	MONTGOMERY C/L	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$2,409,000	RCTSS	4.008	02/20/2007	1.421	3.120
1015	TXDOT HOUSTON DISTRICT	IH 45 N	HARRIS C/L	TAMINA RD	INSTALL CTMS (TCM SIP COMMITMENT)	\$2,318,660	ITS	4.830	02/20/2007	1.830	4.010
1014	TXDOT HOUSTON DISTRICT	IH 45 N	RANKIN RD	CYPRESSWOOD	INSTALL CTMS (TCM SIP COMMITMENT)	\$3,596,000	ITS	10.064	07/15/2002	3.810	8.370
1012	TXDOT HOUSTON DISTRICT	IH 45 S	61ST ST	S OF SH 6	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$3,856,000	ITS	5.811	07/03/2002	2.200	4.830
<i>COMPLETE 2002</i>											
1016	TXDOT HOUSTON DISTRICT	IH 45 S	S OF SH 6	HARRIS C/L	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$10,345,000	ITS	17.242	07/03/2002	6.530	14.340
<i>COMPLETE 2002</i>											
1103	TXDOT HOUSTON DISTRICT	SH 146	MCCABE RD	TYLER ST	INSTALL CTMS - INCL SURVEILLANCE SYS, COMMUNICATN SYS, SATELLITE COMPUTER FAC, & MONITORING CONTRL	\$1,204,650	ITS	2.130	12/08/2004	0.807	1.772
7101	TXDOT HOUSTON DISTRICT	SH 146	WYOMING ST	TYLER ST	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$2,590,000	ITS	4.321	12/08/2004	1.638	3.595
3010	TXDOT HOUSTON DISTRICT	SH 225	SH 134	STRANG RD	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$2,270,000	ITS	3.670	03/01/2002	1.391	3.053

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **INTELLIGENT TRANSPORTATION SYSTEMS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
1026	TXDOT HOUSTON DISTRICT	SP 330	IH 10	SH 146	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$1,458,272	ITS	5.068	08/01/2007	2.200	4.830
<i>LET SCHEDULED FOR 8/1/2005 WILL BE COMPLETED BY 2006</i>											
9532	TXDOT HOUSTON DISTRICT	US 59 N	0.136 MI S OF BF 1960A	GREENS BAYOU	INSTALL CTMS	\$2,172,654	ITS	9.613	07/03/2002	3.643	7.998
<i>COMPLETE 2002</i>											
1028	TXDOT HOUSTON DISTRICT	US 59 N	0.28 MI N OF SAUNDERS	IH 610	INSTALL CTMS	\$1,082,654	ITS	4.620	07/03/2002	1.751	3.844
<i>COMPLETE 2002</i>											
1029	TXDOT HOUSTON DISTRICT	US 59 N	BF 1960A	MONTGOMERY C/L	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$1,151,856	ITS	2.835	07/18/2007	0.970	2.130
<i>LET SCHEDULED FOR 8/1/2005 WILL BE COMPLETED BY 2006</i>											
1032	TXDOT HOUSTON DISTRICT	US 59 N	GREENS BAYOU	0.28 MI N OF SAUNDERS	INSTALL CTMS	\$3,027,731	ITS	6.410	07/03/2002	2.429	5.333
<i>COMPLETE 2002</i>											
9533	TXDOT HOUSTON DISTRICT	US 59 N	IH 610	0.019 MI N OF BELL ST	INSTALL COMPUTERIZED TRAFFIC MANAGEMENT SYSTEM	\$2,470,000	ITS	4.649	11/01/2005	1.759	3.860
1031	TXDOT HOUSTON DISTRICT	US 59 S	HARRIS C/L	SH 6	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$2,800,000	ITS	4.650	02/01/2007	1.267	2.781
1072	TXDOT HOUSTON DISTRICT	US 59 S	RAMPS AT SP 41/SUGAR CREEK BLVD	SH 6	UPGRADE FIXED TIME TO ACTUATED SIGNALS	\$150,000	RCTSS	0.001	12/03/2003	0.100	0.180
<i>COMPLETE 2001</i>											
1027	TXDOT HOUSTON DISTRICT	US 59 S	W BELLFORT	FORT BEND C/L	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$423,152	ITS	0.500	02/01/2007	3.369	7.396
1071	TXDOT HOUSTON DISTRICT	US 59 S	W OF S KIRKWOOD	RAMPS AT SP 41/SUGAR CRK BLVD	UPGRADE FIXED TIME TO ACTUATED SIGNALS	\$40,000	RCTSS	1.720	12/03/2003	1.531	3.369

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **INTELLIGENT TRANSPORTATION SYSTEMS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
COMPLETE 2001											
Category Totals:						\$68,885,629		148.472		60.826	133.520

Category: **INTERCHANGE IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
7788	CITY OF LEAGUE CITY	FM 518 BYPASS	FM 518 / FM 2094 / FM 270		INTERSECTION IMPROVEMENTS @ 3 INTERSECTIONS	\$2,600,000	TSM	0.500	06/15/2006	1.624	3.177
7001	TXDOT HOUSTON DISTRICT	US 290	0.37 MI E OF BECKER RD	0.75 MI EAST OF BAUER RD	INTERIM DIAMOND INTERCHANGE W/ RURAL FRONTAGE ROADS WEST OF BAUER	\$11,935,232	TSM	1.628	08/04/2005	1.770	3.450
7000	TXDOT HOUSTON DISTRICT	US 290	0.52 MI E OF ROBERTS RD	0.72 MI E OF BECKER RD	INTERIM DIAMOND INTERCHANGE W/ RURAL FRONTAGE ROADS	\$11,814,766	TSM	1.237	08/04/2005	1.339	2.620
6099	TXDOT HOUSTON DISTRICT	US 290	BADTKE RD	0.52 MI E OF ROBERTS RD	INTERIM DIAMOND INTERCHANGE W/ RURAL FRONTAGE ROADS	\$8,939,993	TSM	1.624	08/04/2005	1.758	3.440
Category Totals:						\$35,289,991		4.989		6.491	12.687

Category: **INTERSECTION IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
3006	TXDOT HOUSTON DISTRICT	IH 45 N	AT FM 1097		IMPROVE INTERSECTION & WIDEN BRIDGE	\$2,000,000	TSM	1.243	04/20/2000	1.346	2.633
COMPLETE 2000											
3007	TXDOT HOUSTON DISTRICT	IH 610	AT N SHEPHERD, N DURHAM AND ELLA BLVD		CONSTRUCT U-TURNS	\$680,000	TSM		03/20/2000	0.550	0.800
COMPLETE 2000											
2986	CITY OF HOUSTON	WESTHEIMER	AT WILCREST		INTERSECTION IMPROVEMENTS	\$150,000	TSM	0.100	01/01/2003	0.100	0.180
Category Totals:						\$2,830,000		1.343		1.996	3.613

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **OTHER**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
2445	PORT OF HOUSTON AUTHORITY	BARBOURS CUT QUEUE LANES	ALONG GEORGE ALTVATER RD	BARBOURS CUT BLVD	CONSTRUCT QUEUING LANES ALONG GEORGE ALTVATER ROAD/TRAFFIC CROSSOVER TO BARBOURS CUT BLVD	\$3,903,000	INTMDL	0.001	02/01/2005	1.740	3.820
<i>PROJECT COMPLETED WITH LOCAL FUNDS USED EXISTING ROADWAY MADE A SMALLER PROJECT</i>											
Category Totals:						\$3,903,000		0.001		1.740	3.820

Category: **TRAFFIC ENGINEERING**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
270	TXDOT HOUSTON DISTRICT	US 59 S	0.681 KM W OF S KIRKWOOD DR	RAMPS @ SP 41/SUGAR CREEK BLVD	WIDEN TO 8 LANES WITH HOV & FRTG RDS AT ULTIMATE LOCATION	\$32,756,000	TSM	1.897	09/21/2004	0.930	1.360
<i>COMPLETED 2004</i>											
9720	TXDOT HOUSTON DISTRICT	US 59 S	RAMPS AT SP 41/SUGAR CREEK BLVD	0.682 KM E OF WILLIAMS TRACE BLVD	WIDEN TO 8 MAIN LANES W/HOV & FRTG RDS @ ULTIMATE LOCATION & TMS	\$29,136,000	TSM	1.697	12/03/2003	1.051	3.144
<i>COMPLETED 2003</i>											
Category Totals:						\$61,892,000		3.594		1.981	4.504

Category: **TRAFFIC SIGNAL IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
1095	HCTRA	BW 8	SH 249	IH 45	INSTALL SIGNAL COORDINATION SYSTEM	\$1,900,000	ITS			18.810	14.490
<i>COMPLETED WITH LOCAL FUNDS</i>											
1124	CITY OF SUGAR LAND	DULLES AVE	SH 6	US 90A	SYNCRONIZATION & INNERCONNECTION	\$285,000	ITS	0.001		2.050	1.640
<i>IMPROVEMENTS BEING IMPLEMENTED BY CITY</i>											
9846	TXDOT HOUSTON DISTRICT	FM 529	HUFFMEISTER RD	BARKER-CY PRESS RD	INSTALL ATMS	\$393,513	RCTSS	4.510	03/21/2001	4.014	8.835
<i>COMPLETE 2001</i>											
1008	TXDOT HOUSTON DISTRICT	IH 10 E	MEADOW ST	SP 330	INSTALL COMPUTERIZED TRANSPORTATION MANAGEMENT SYSTEM	\$6,177,062	RCTSS	29.359	05/25/2000	2.140	4.710
<i>COMPLETE 2000</i>											

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **TRAFFIC SIGNAL IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
1011	TXDOT HOUSTON DISTRICT	IH 45 S	W OF 59TH ST	61ST ST	INSTALL ARTERIAL TRAFFIC MGMT SYSTEM @ GALVESTON CAUSEWAY	\$65,000	RCTSS	0.324	08/01/2004	0.280	0.634
1121	CITY OF SUGAR LAND	LEXINGTON BLVD, AUSTIN PKWY & SWEETWATER BLVD			SYNCHRONIZATION AND INTERCONNECTION OF TRAFFIC SIGNALS	\$600,000	ITS	0.001	03/30/2005	6.010	13.230
3090	MONTGOMERY COUNTY	RESEARCH FOREST DR	IH 45	KUYKENDAH L	SIGNAL SYNCHRONIZATION	\$593,521	RCTSS		01/07/2000	4.450	9.795
1020	TXDOT HOUSTON DISTRICT	SH 35	14TH ST	SH 36	INSTALL ARTERIAL TRAFFIC MANAGEMENT SYSTEM	\$178,000	RCTSS	0.890	02/01/2006	0.790	1.740
1023	TXDOT HOUSTON DISTRICT	SH 6	FM 2004	FM 519	INSTALL ATMS	\$183,000	RCTSS	0.910	10/30/2000	0.810	1.780
1120	CITY OF SUGAR LAND	SH 6	LEXINGTON BLVD	AUSTIN PKWY	SYNCHRONIZATION & INNERCONNECTION	\$150,000	ITS			0.360	0.300
<i>COMPLETED LOCALLY</i>											
1119	CITY OF SUGAR LAND	SH 6	US 59	BROOKS ST	SYNCHRONIZATION & INNERCONNECTION	\$50,000	ITS			0.120	0.100
<i>COMPLETED LOCALLY</i>											
1034	TXDOT HOUSTON DISTRICT	US 90	FM 359 W	FM 359 E	INSTALL ARTERIAL TRAFFIC MANAGEMENT SYSTEM	\$289,879	RCTSS	0.359	08/29/2003	0.320	0.705
1118	CITY OF SUGAR LAND	WILLIAMS TRACE BLVD	SH 6	AUSTIN PKWY	SIGNALIZATION, SYNCHRONIZATION, & INTERCONNECTION	\$215,000	RCTSS		08/07/2001	2.310	5.090
1117	CITY OF SUGAR LAND	WILLIAMS TRACE BLVD	US 59	SH 6	SIGNALIZATION, SYNCHRONIZATION, & INTERCONNECTION	\$265,000	RCTSS		08/07/2001	2.770	6.110
3092	MONTGOMERY COUNTY	WOODLANDS PKWY	IH 45	COCHRANS CROSSING	SIGNAL SYNCHRONIZATION	\$572,527	RCTSS		01/07/2000	0.270	0.510

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **TRAFFIC SIGNAL IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
<i>Category Totals:</i>						\$11,917,502		36.354		45.504	69.669

Category: **TURN LANES**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
2993	TXDOT HOUSTON DISTRICT	BW 8		AT RICHMOND AVE & WESTHEIMER RD	ADD RIGHT TURN LANES	\$500,000	TSM	0.928	08/30/2001	1.046	1.966
7292	TXDOT HOUSTON DISTRICT	FM 1464	FM 1093	0.320 MI S. OF WEST OAKS (W. OAK VILLAGE)	WIDEN SUBGRADE ACP OVERLAY PAVEMENT MARKINGS AND TRAFFIC SIGNAL (LEFT TURN CHANNEL)	\$443,700	TSM	0.570	05/07/2002	2.950	4.130
7295	TXDOT HOUSTON DISTRICT	FM 1488		AT NEW MAGNOLIA HIGH SCHOOL	WIDEN PAVEMENT FOR LEFT AND RIGHT TURN CHANNELIZATION & FLASHING BEACONS	\$485,000	TSM	0.360	10/24/2001	0.779	1.525
10720	TXDOT HOUSTON DISTRICT	FM 2100		AT WOLF RD	LEFT TURN CHANNELIZATION AND TRAFFIC SIGNAL	\$255,100	TSM	0.301	08/02/2004	0.594	1.227
<i>COMPLETED 2004</i>											
7283	TXDOT HOUSTON DISTRICT	FM 359		AT LAMAR CONSOLIDATED ISD CAMPUS	ADD RIGHT AND LEFT TURN LANE	\$355,825	TSM	0.937	07/26/2002	1.014	1.985
10714	TXDOT HOUSTON DISTRICT	FM 518		AT CLEARVIEW AVE	LEFT TURN CHANNELIZATION AND TRAFFIC SIGNAL	\$109,000	TSM	0.108	07/06/2004	0.850	2.980
<i>COMPLETED 2004</i>											
7284	TXDOT HOUSTON DISTRICT	FM 518	SH 35	PEARLAND AVE	CONTINUOUS LEFT TURN LANE, SHOULDER AND OVERLAY	\$680,000	TSM	0.321	08/05/2003	0.347	0.680
<i>COMPLETED 2003</i>											
7252	TXDOT HOUSTON DISTRICT	LP 494		AT COMMUNITY DR	LEFT TURN CHANNELIZATION AND TRAFFIC SIGNAL	\$210,000	TSM	0.234	06/13/2003	0.644	1.130
<i>COMPLETED 2003</i>											

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **TURN LANES**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
7253	TXDOT HOUSTON DISTRICT	LP 494		AT GREEN FARRIS ROAD	LEFT TURN CHANNELIZATION AND TRAFFIC SIGNAL	\$240,000	TSM	0.238	06/13/2003	0.531	1.040
<i>COMPLETED 2003</i>											
1151	TXDOT BEAUMONT DISTRICT	LP 573	BOULEVARD ST	BOOTHE ST	CONSTRUCT CONTINUOUS LEFT TURN LANE BY REMOVING MEDIAN	\$500,000	TSM	0.000	05/30/1998	1.100	2.110
7320	TXDOT HOUSTON DISTRICT	SH 105		AT LONGVIEW ST	ADD LEFT TURN LANE	\$120,000	TSM	0.341	12/06/2001	0.369	0.722
<i>COMPLETED 2001</i>											
10391	TXDOT HOUSTON DISTRICT	SH 3		AT NASA RD 1	LENGTHEN LEFT TURN LANE	\$80,300	TSM	0.001	11/18/2003	0.361	0.706
<i>COMPLETED 2003</i>											
7394	TXDOT HOUSTON DISTRICT	SH 35		AT BS 35C N & S, FM 2917, CR 192, SP 28 & CR 46	INSTALL LEFT TURN LANES	\$1,520,000	TSM	2.220	02/09/2004	1.850	3.980
<i>COMPLETED 2004</i>											
11367	TXDOT HOUSTON DISTRICT	SH 35	SH 288	WAKER STREET	CONTINUOUS LEFT TURN LANE, SHOULDER AND OVERLAY	\$230,000	TSM	0.689	08/05/2003	1.330	2.920
7270	TXDOT HOUSTON DISTRICT	SH 36		AT FRITZELLA M.S. & H.S.	WIDEN SUBGRADE ACP OVERLAY AND PAVEMENT MARKINGS (PRECIOUS CARGO PROGRAM)	\$127,000	TSM	0.116	05/07/2002	0.570	0.790
7370	TXDOT HOUSTON DISTRICT	SH 36	FM 360 &	COLONY/NE EDVILLE-FAI RCHILD RD	LEFT TURN CHANNELIZATION AND TRAFFIC SIGNAL	\$602,800	TSM	0.835	06/10/2003	1.018	2.192
<i>COMPLETED 2003</i>											
7315	TXDOT HOUSTON DISTRICT	SH 75		LEAGUE LINE RD ETC.	ADD LEFT TURN LANE AND TRAFFIC SIGNAL	\$220,000	TSM	0.341	12/06/2001	0.980	2.190
7251	TXDOT HOUSTON DISTRICT	SP 149		AT FM 1488	LEFT TURN CHANNELIZATION AND TRAFFIC SIGNAL	\$288,300	TSM	0.225	10/17/2003	0.444	0.917
<i>COMPLETED 2003</i>											

Type: **TRAFFIC FLOW IMPROVEMENTS**

Category: **TURN LANES**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
1152	TXDOT BEAUMONT DISTRICT	US 90	EAST ST	TENNESSEE ST	CONSTRUCT CONTINUOUS LEFT TURN LANE	\$375,000	TSM	0.000	10/31/1998	1.120	2.180
Category Totals:						\$7,342,025		8.765		17.897	35.370
Totals for Type: TRAFFIC FLOW IMPROVEMENTS						Type Totals:	\$267,264,214	235.409		178.834	340.403

Type: **TRANSIT**

Category: **LIGHT RAIL**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
9980	METRO	VA	CBD	DOME PROJECT	HIGH CAPACITY TRANSITWAY PROJECT	\$300,000,000	TDM	6.000	08/01/2004	14.440	20.220
Category Totals:						\$300,000,000		6.000		14.440	20.220

Category: **OPERATING**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
5096	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	RESEARCH FOREST P&R	VARIOUS		PROVIDE OPERATION OF 6 BUSES TO SERVE RESEARCH FOREST P&R EXPANSION FY 1998	\$600,000	P&R	0.001	05/01/2000	0.980	1.370
<i>COMPLETE 2000</i>											
Category Totals:						\$600,000		0.001		0.980	1.370

Category: **OTHER**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
9978	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	WOODLANDS TOWN CENTER	IH 45	GROGAN'S MILL RD	PURCHASE 4 SMALL ALT-FUELED VEHICLES	\$1,250,000	TRANS	0.000	09/01/2004	0.550	0.980
<i>FUNDING TRANSFERRED TO FTA--VEHICLES PURCHASED</i>											
Category Totals:						\$1,250,000		0.000		0.550	0.980

Type: **TRANSIT**

Category: **PARK & RIDE**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
4068	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	RESEARCH FOREST P&R	RESEARCH FOREST PARK & RIDE LOT		CONSTRUCT RESEARCH FOREST PARK & RIDE EXPANSION	\$1,150,000	P&R	0.001		3.337	4.730
<i>COMPLETE 250 SPACES</i>											
9756	FORT BEND COUNTY	SH 36	FAIRGROUNDS P&R	@ US 59	PHASE 2: CONSTRUCT FAIRGROUNDS PARK AND RIDE (250 SPACES)	\$1,869,763	P&R	0.001	09/01/2011	3.337	4.730
<i>250 SPACES IN AN ADJACENT PARKING LOT IS BEING TEMPORARILY USED FOR P&R UNTIL THIS PROJECT IS CONSTRUCTED</i>											
3041	TXDOT HOUSTON DISTRICT	UNIVERSITY BLVD	IN SUGARLAND		CONSTRUCT PARK & RIDE	\$1,252,360	P&R	0.001	10/04/2002	3.060	4.350
13462	METRO	WEST BELLFORT P&R			EXPANSION OF PARK & RIDE (608 SPACES)	\$0	P&R	15.750	09/01/2003	9.030	10.700
<i>COMPLETED BY METRO</i>											
13463	METRO	WESTCHASE P&R			EXPANSION OF WESTCHASE P&R (1468 SPACES)	\$0	P&R		09/01/2004	16.910	14.280
<i>COMPLETED BY METRO</i>											
10225	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	WOODLANDS PKWY	PARK & RIDE		THE WOODLANDS PARKWAY PARK & RIDE (PHASE II) 400-SPACE LOT	\$1,878,234	P&R	0.001	11/01/2007	5.339	7.568
<i>DUE TO WEATHER DELAYS COMPLETION SLATED FOR NOV 2007</i>											
10224	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	WOODLANDS PKWY (NEAR)	AT KUYKENDAHL, JOHN COOPER DR & BRANCH CROSSING		CONSTRUCTION OF PARK AND RIDE FACILITY (200 SPACES)	\$6,393,000	P&R	0.001		6.670	9.450
<i>PROJECT WILL BE COMPLETED BY NOVEMBER 2006</i>											
Category Totals:						\$12,543,357		15.755		47.683	55.808

Category: **PEDESTRIAN IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)
Project Notes:											
10357	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	CR (12' WIDE CONCRETE SHARED-USE PATH)	TURNING BASIN ON WOODLANDS WATERWAY	LAKE ROBBINS (NEAR IH 45)	WOODLANDS TOWN CENTER PEDESTRIAN CORRIDOR SOUTH SIDE	\$2,280,000	BIKE/PED	1.200	08/01/2004	0.550	0.980
<i>complete 2004</i>											

Type: **TRANSIT**

Category: **PEDESTRIAN IMPROVEMENTS**

MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)	
Project Notes:												
11193	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	VA	LAKE ROBBINS	WOODLAND S REGIONAL MALL	CONSTRUCT PEDESTRIAN TRANSITWAY (PHASE I)	\$5,625,000	BIKE/PED	0.001	10/01/2005	14.873	19.620	
<i>COMPLETE 2005</i>												
4069	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	WOODLANDS TOWN CENTER	LAKE ROBBINS	GROGANS MILL	CONSTRUCT PEDESTRIAN BRIDGES @ LAKE ROBBINS & WOODSTEAD	\$2,350,000	BIKE/PED	6.200	09/01/2005	0.550	0.980	
<i>WAS CLASSIFIED AS A PEDESTRIAN/BICYCLE PROJECT BUT SHOULD BE CLASSIFIED AS A TRANSIT PROJECT</i>												
1215	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	WOODLANDS TOWN CENTER	TOWN CENTER PEDESTRIAN/TRANSIT CENTER	CORRIDOR IN THE WOODLANDS	CONSTRUCT PEDESTRIAN/ TRANSITWAY (PHASE II)	\$12,738,000	BIKE/PED	2.360	10/01/1998	13.520	24.710	
<i>WAS CLASSIFIED AS A PEDESTRIAN/BICYCLE PROJECT BUT SHOULD BE CLASSIFIED AS TRANSIT</i>												
Category Totals:						\$22,993,000		9.761		29.493	46.290	
Category: SERVICES												
MPO ID	Sponsor	Street	From Limit	To Limit	Project Description	Total Cost	SIP code	Length	Completion Date	VOC (kg/day)	NOx (kg/day)	
Project Notes:												
5097	THE DISTRICT (BRAZOS TRANSIT DISTRICT)	VA	VARIOUS		FY 1999 PROVIDE OPERATION OF 6 ADD'L BUSES TO SERVE RESEARCH FOREST P&R EXPANSION	\$600,000	P&R	0.001		0.980	1.370	
<i>COMPLETED 2001</i>												
Category Totals:						\$600,000		0.001		0.980	1.370	
Totals for Type: TRANSIT						Type Totals:	\$337,986,357		31.518		94.126	126.038