

Texas Department of Transportation
BOOK 2 – TECHNICAL PROVISIONS
FOR
LOOP 375 - BORDER HIGHWAY WEST EXTENSION
PROJECT
Design-Build Project

ATTACHMENT 8-1
TRAFFIC DATA

August 22, 2014

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

El Paso District

September 7, 2012

									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2015 to 2035)			
Description of Location	Average Daily Traffic		Base Year				ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S N	Rigid Pavement	SLAB
	2015	2035	Dir Dist %	K Factor	Percent Trucks							
					ADT	DHV						
<p>Border Highway West (BHW) Project</p> <p>Loop 375, East of Downtown (East of Coles St)</p> <p>El Paso County</p>												
41,400	57,000	53 - 47	8.4	9.1	6.0	14,500	50	12,637,000	3	16,588,000	8"	
Data for Use in Air & Noise Analysis												
Vehicle Class		Base Year										
		% of ADT	% of DHV									
Light Duty		90.9	94.0									
Medium Duty		3.8	2.5									
Heavy Duty		5.3	3.5									
									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2015 to 2045)			
Description of Location	Average Daily Traffic		Base Year				ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S N	Rigid Pavement	SLAB
	2015	2045	Dir Dist %	K Factor	Percent Trucks							
					ADT	DHV						
<p>Border Highway West (BHW) Project</p> <p>Loop 375, East of Downtown (East of Coles St)</p> <p>El Paso County</p>												
41,400	64,600	53 - 47	8.4	9.1	6.0	14,600	50	20,420,000	3	26,805,000	8"	

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

September 7, 2012

El Paso District

									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2015 to 2035)			
Description of Location	Average Daily Traffic		Base Year				ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S N	Rigid Pavement	SLAB
	2015	2035	Dir Dist %	K Factor	Percent Trucks							
					ADT	DHV						
<p>Border Highway West (BHW) Project</p> <p>Loop 375, South of Downtown (Between Campbell St & Coles St)</p> <p>El Paso County</p>												
	11,600	22,700	53 - 47	8.4	7.7	5.1	12,800	70	3,733,000	3	4,897,000	8"
Data for Use in Air & Noise Analysis												
		Base Year										
Vehicle Class		% of ADT	% of DHV									
Light Duty		92.3	94.9									
Medium Duty		3.2	2.1									
Heavy Duty		4.5	3.0									
									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2015 to 2045)			
Description of Location	Average Daily Traffic		Base Year				ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S N	Rigid Pavement	SLAB
	2015	2045	Dir Dist %	K Factor	Percent Trucks							
					ADT	DHV						
<p>Border Highway West (BHW) Project</p> <p>Loop 375, South of Downtown (Between Campbell St & Coles St)</p> <p>El Paso County</p>												
	11,600	27,700	53 - 47	8.4	7.7	5.1	13,000	70	6,416,000	3	8,416,000	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

El Paso District

September 7, 2012

									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2015 to 2035)			
Description of Location	Average Daily Traffic		Base Year				ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S N	Rigid Pavement	SLAB
	2015	2035	Dir Dist %	K Factor	Percent Trucks							
					ADT	DHV						
<p><u>Border Highway West (BHW) Project</u></p> <p>Managed Lanes (BHW): (South of Exec Center Blvd)</p> <p>El Paso County</p>												
	10,100	23,900	53 - 47	8.4	7.6	5.0	12,700	70	3,653,000	3	4,791,000	8"
Data for Use in Air & Noise Analysis												
Vehicle Class	Base Year											
	% of ADT		% of DHV									
Light Duty	92.4		95.0									
Medium Duty	3.2		2.1									
Heavy Duty	4.4		2.9									
									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2015 to 2045)			
Description of Location	Average Daily Traffic		Base Year				ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S N	Rigid Pavement	SLAB
	2015	2045	Dir Dist %	K Factor	Percent Trucks							
					ADT	DHV						
<p><u>Border Highway West (BHW) Project</u></p> <p>Managed Lanes (BHW): (South of Exec Center Blvd)</p> <p>El Paso County</p>												
	10,100	29,100	53 - 47	8.4	7.6	5.0	12,900	70	6,318,000	3	8,286,000	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

September 7, 2012

El Paso District

									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2015 to 2035)			
Description of Location	Average Daily Traffic		Dir Dist %	K Factor	Base Year Percent Trucks		ATHWLD	Percent Tandem Axles in ATHWLD				
	2015	2035			ADT	DHV						
Border Highway West (BHW) Project												
Managed Lanes (BHW): (North of Exec Center Blvd)												
El Paso County												
	23,300	33,200	53 - 47	8.4	8.8	5.8	13,600	60	7,019,000	3	9,212,000	8"
Data for Use in Air & Noise Analysis												
Base Year												
Vehicle Class												
% of ADT												
% of DHV												
Light Duty												
Medium Duty												
Heavy Duty												
	91.2		94.2									
	3.7		2.4									
	5.1		3.4									
									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2015 to 2045)			
Description of Location	Average Daily Traffic		Dir Dist %	K Factor	Base Year Percent Trucks		ATHWLD	Percent Tandem Axles in ATHWLD				
	2015	2045			ADT	DHV						
Border Highway West (BHW) Project												
Managed Lanes (BHW): (North of Exec Center Blvd)												
El Paso County												
	23,300	38,000	53 - 47	8.4	8.8	5.8	13,700	60	11,423,000	3	14,992,000	8"

TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

El Paso District

September 7, 2012

									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2015 to 2035)			
Description of Location	Average Daily Traffic		Base Year				ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S N	Rigid Pavement	SLAB
	2015	2035	Dir Dist %	K Factor	Percent Trucks							
					ADT	DHV						
<p>Border Highway West (BHW) Project</p> <p>Managed Lanes (BHW): (South of Doniphan Dr)</p> <p>El Paso County</p>												
	13,100	17,200	53 - 47	8.4	7.9	5.2	12,600	70	3,383,000	3	4,438,000	8"
Data for Use in Air & Noise Analysis												
Vehicle Class		Base Year										
		% of ADT	% of DHV									
Light Duty		92.1	94.8									
Medium Duty		3.3	2.2									
Heavy Duty		4.6	3.0									
									Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2015 to 2045)			
Description of Location	Average Daily Traffic		Base Year				ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S N	Rigid Pavement	SLAB
	2015	2045	Dir Dist %	K Factor	Percent Trucks							
					ADT	DHV						
<p>Border Highway West (BHW) Project</p> <p>Managed Lanes (BHW): (South of Doniphan Dr)</p> <p>El Paso County</p>												
	13,100	19,200	53 - 47	8.4	7.9	5.2	12,700	70	5,409,000	3	7,095,000	8"