



# MEMORANDUM

TEXAS DEPARTMENT  
OF TRANSPORTATION  
2013 MAR -1 AM 9: 20

**TO:** Mario Medina, P.E.  
Julie Brown, P.E.  
**FROM:** William E. Knowles, P.E.

**DATE:** February 26, 2013

**SUBJECT:** Traffic Data  
CSJ: 0517-02-040  
SH 16:  
From Atascosa/McMullen County Line  
To SH 72 East  
McMullen County

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Attached are tabulations showing traffic analysis for highway design for the 2013 to 2033 twenty year design period and the 2013 to 2043 thirty year design period for the described limits of the route. Also attached are tabulations showing data for use in air and noise analysis.

Due to significant differences in traffic volumes, this project was split into two sections:  
Section 1: From Atascosa/McMullen County Line to SH 72 West  
Section 2: From SH 72 West to SH 72 East

Please refer to your original memorandum dated January 31, 2013.

If you have any questions or need additional information, please contact Mollie Klenzendorf at (512) 486-5148.

Attachments

cc Lorri Pavliska, San Antonio District  
Design Division

A handwritten signature in black ink, appearing to read "William E. Knowles".

# TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

February 25, 2013

San Antonio District		Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2013 to 2033)																																																																																												
Description of Location	Average Daily Traffic		Dir Dist %	Base Year			ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement		Rigid Pavement		SLAB																																																																																	
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TRAFFIC ANALYSIS FOR HIGHWAY DESIGN

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		Base Year				Dir Dist %	K Factor	Percent Trucks		ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement		Rigid Pavement		SLAB
		Average Daily Traffic		ADT	DHV			S	N			S	N			
Description of Location		2013	2033													
SH 16 Section 2 From SH 72 West To SH 72 East McMullen County		8,800	13,900	55 - 45	11.6	16.5	10.9	11,800	60	7,067,000	3	10,234,000	8"			
Data for Use in Air & Noise Analysis Vehicle Class																
		Base Year														
		% of ADT	% of DHV													
Light Duty		83.5	89.1													
Medium Duty		2.6	1.7													
Heavy Duty		13.9	9.2													
Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2013 to 2043)																
SH 16 Section 2 From SH 72 West To SH 72 East McMullen County		Base Year				Dir Dist %	K Factor	Percent Trucks		ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement		Rigid Pavement		SLAB
		Average Daily Traffic		ADT	DHV			S	N			S	N			
		2013	2043													
Description of Location		8,800	15,600	55 - 45	11.6	16.5	10.9	11,900	60	11,394,000	3	16,500,000	8"			

NOT IN USE FOR CONSTRUCTION OR PERMIT PURPOSES  
 2013 TRUCK ADT 10,667,704  
 Serial Number 84704



# MEMORANDUM

2013 MAR -1 AM 9: 20

**TO:** Mario Medina, P.E.  
Julie Brown, P.E.

**DATE:** February 26, 2013

**FROM:** William E. Knowles, P.E.

**SUBJECT:** Traffic Data  
CSJ: 0517-03-030  
SH 16:  
From SH 72 East  
To McMullen/Duval County Line  
McMullen County

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Attached are tabulations showing traffic analysis for highway design for the 2013 to 2033 twenty year design period and the 2013 to 2043 thirty year design period for the described limits of the route. Also attached are tabulations showing data for use in air and noise analysis.

Due to significant differences in traffic volumes, this project was split into two sections:  
Section 1: From SH 72 East to FM 1962  
Section 2: From FM 1962 to McMullen/Duval County Line

Please refer to your original memorandum dated January 31, 2013.

If you have any questions or need additional information, please contact Mollie Klendendorf at (512) 486-5148.

Attachments

cc: Lorri Pavliska, San Antonio District  
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February 25, 2013

San Antonio District		Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 20 Year Period (2013 to 2033)											
		Base Year					30 Year Period (2013 to 2043)						
		Average Daily Traffic		Dir Dist %	K Factor	Percent Trucks	ATHWLD	Percent Tandem Axles in ATHWLD	Flexible Pavement	S	N	Rigid Pavement	SLAB
Description of Location		2013	2033										
<u>SH 16</u> Section 1 From SH 72 East To FM 1962 McMullen County		4,200	6,100	55 - 45	11.6	19.5	12.9	11,200	60	3,731,000	3	5,384,000	8"
Data for Use in Air & Noise Analysis NOT INTENDED FOR CONSTRUCTION BUDWISER VEHICLE REGISTER Vehicle Class Light Duty Medium Duty Heavy Duty													
		Base Year		Base Year		Base Year		Base Year		Base Year		Base Year	
		% of ADT	% of DHV	% of ADT	% of DHV	% of ADT	% of DHV	% of ADT	% of DHV	% of ADT	% of DHV	% of ADT	% of DHV
		80.5	87.1	3.4	2.2	16.1	10.7						
<u>SH 16</u> Section 1 From SH 72 East To FM 1962 McMullen County		4,200	6,900	55 - 45	11.6	19.5	12.9	11,300	60	6,032,000	3	8,704,000	8"
Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2013 to 2043)													

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	Description of Location	Base Year				Dir Dist %	K Factor	Percent Trucks	ATHWLD	Percent Tandem Axles in ATHWLD	SLAB		
		Average Daily Traffic		ADT	DHV								
		2013	2033										
From FM 1962 To McMullen/Duval County Line McMullen County	SH 16 Section 2	1,700	2,500	55 - 45	11.6	28.3	18.7	10,900	70	2,206,000	3	3,185,000	8"
<b>Data for Use in Air &amp; Noise Analysis</b>													
Vehicle Class		Base Year		% of DHV									
		% of ADT		% of DHV									
Light Duty		71.7		81.3									
Medium Duty		5.0		3.3									
Heavy Duty		23.3		15.4									
San Antonio District	Total Number of Equivalent 18k Single Axle Load Applications One Direction Expected for a 30 Year Period (2013 to 2043)												
	Description of Location	Base Year				Dir Dist %	K Factor	Percent Trucks	ATHWLD	Percent Tandem Axles in ATHWLD	SLAB		
		Average Daily Traffic		ADT	DHV								
		2013	2043										
From FM 1962 To McMullen/Duval County Line McMullen County	SH 16 Section 2	1,700	2,800	55 - 45	11.6	28.3	18.7	11,000	70	3,545,000	3	5,119,000	8"