

**Texas Department of Transportation
Book 2 - Technical Provisions**

IH 35E Managed Lanes Project

Attachment 8-1

ESALs and Traffic Data

**IH 35E Managed Lanes Project
ESALs and Traffic Data**

Mainlane Roads - 20 yrs

Location	Average Daily Traffic		Base Year Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Total # of 18K ESAL Applications in One Direction Expected for a 20 Year Period (2010 to 2030)			
	2010	2030	ADT	DHV			Flexible Pavement	S N	Rigid Pavement	SLAB
<u>I-35E Mainlanes Only Section 2</u> From Belt Line Road To Valley Ridge Dallas & Denton Counties	200,300	288,000	6.3	2.8	16,400	30	54,599,000	3	75,349,000 77,016,000 77,607,000	8" 10" 12"

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year	
	% of ADT	% of DHV
Light Duty	93.7	97.2
Medium Duty	1.8	0.8
Heavy Duty	4.5	2

Mainlane Roads - 30 yrs

Location	Average Daily Traffic		Base Year Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Total # of 18K ESAL Applications in One Direction Expected for a 30 Year Period (2010 to 2040)			
	2010	2040	ADT	DHV			Flexible Pavement	S N	Rigid Pavement	SLAB
<u>I-35E Mainlanes Only Section 2</u> From Belt Line Road To Valley Ridge Dallas & Denton Counties	200,300	312,000	6.3	2.8	16,400	30	85,926,000	3	118,582,000 121,206,000 122,135,000	8" 10" 12"

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Mainlane Roads - 20 yrs

Location	Average Daily Traffic		Base Year Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Total # of 18K ESAL Applications in One Direction Expected for a 20 Year Period (2010 to 2030)			
	2010	2030	ADT	DHV			Flexible Pavement	S N	Rigid Pavement	SLAB
	I-35E Mainlanes Only Section 3 From Valley Ridge To US 377 Denton County	166,000	242,100	6.7			3.0	16,200	40	48,499,000

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year	
	% of ADT	% of DHV
Light Duty	93.3	97
Medium Duty	1.9	0.9
Heavy Duty	4.8	2.1

Mainlane Roads - 30 yrs

Location	Average Daily Traffic		Base Year Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Total # of 18K ESAL Applications in One Direction Expected for a 30 Year Period (2010 to 2040)			
	2010	2040	ADT	DHV			Flexible Pavement	S N	Rigid Pavement	SLAB
	I-35E Mainlanes Only Section 3 From Valley Ridge To US 377 Denton County	166,000	262,900	6.7			3.0	16,300	40	76,459,000

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Mainlane Roads - 20 yrs

Location	Average Daily Traffic		Base Year Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Total # of 18K ESAL Applications in One Direction Expected for a 20 Year Period (2010 to 2030)			
	2010	2030	ADT	DHV			Flexible Pavement	S N	Rigid Pavement	SLAB
	<u>I-35E Mainlanes Only Section 4</u> From US 377 to US 380 Denton County	115,700	170,200	7.7			3.5	15,900	40	38,999,000

Data for Use in Air & Noise Analysis

Vehicle Class	Base Year	
	% of ADT	% of DHV
Light Duty	92.3	96.5
Medium Duty	2.2	1
Heavy Duty	5.5	2.5

Mainlane Roads - 30 yrs

Location	Average Daily Traffic		Base Year Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Total # of 18K ESAL Applications in One Direction Expected for a 30 Year Period (2010 to 2040)			
	2010	2040	ADT	DHV			Flexible Pavement	S N	Rigid Pavement	SLAB
	<u>I-35E Mainlanes Only Section 4</u> From US 377 to US 380 Denton County	115,700	185,000	7.7			3.5	15,900	40	61,531,000