

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

Grand Parkway Project

**Attachment 8-2
ESALs and Traffic Data**

SH99 - ESALs and Traffic Data

Mainlanes - 30yrs

Total # of 18K ESAL Applications in One Direction Expected for a 30 Year Period (2011 to 2041)

Location	Average Daily Traffic		Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Flexible Pavement	Rigid Pavement
	2011	2041	ADT	DHV				
From IH 10 to SH 249	45,500	82,800	14.5	9.6	15,700	40	NA	62,381,000
From SH 249 to US 59N	65,000	118,300	11.1	7.3	15,800	40	NA	68,269,000

Frontage Roads - 30yrs

Total # of 18K ESAL Applications in One Direction Expected for a 30 Year Period (2011 to 2041)

Location	Average Daily Traffic		Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Flexible Pavement	Rigid Pavement
	2011	2041	ADT	DHV				
From IH 10 to SH 249	5,100	9,300	31.4	23.6	13,500	50	8,618,000	10,715,000
From SH 249 to US 59N	11,500	20,900	20.9	15.7	14,000	50	12,967,000	16,111,000

Frontage Roads -
20yrs

Total # of 18K ESAL Applications in One Direction Expected for a 20 Year Period (2011 to 2031)

Location	Average Daily Traffic		Percent Truck		ATHWLD	% Tandem Axles in ATHWLD	Flexible Pavement	Rigid Pavement
	2011	2031	ADT	DHV				
From IH 10 to SH 249	5,100	8,300	31.4	23.6	13,400	50	5,346,000	6,647,000
From SH 249 to US 59N	11,500	18,600	20.9	15.7	13,900	50	8,030,000	9,978,000