

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

**North Tarrant Express Project  
Segments 3A and 3B Facility**

**Attachment 19-2  
Residual Life Requirements**

**September 30, 2012**

**Table 19-2 Residual Life Requirements**

<b>Element Category</b>	<b>Required Final Residual Life (yrs)</b>	<b>Element Category</b>	<b>Required Final Residual Life (yrs)</b>	<b>Element Category</b>	<b>Required Final Residual Life (yrs)</b>
<b>Structures</b>		<b>Road Pavement</b>		<b>Ancillary</b>	
Reinforced concrete	50	Main lanes	10	Earthwork slopes	50
Pre-stressed concrete	50	Ramps/direct connectors	10	Metal beam guard rail	10
Structural steelwork	50	Frontage/access roads	10	Concrete barrier	20
Weathering steel	50	Toll plaza approaches	10	Impact attenuators	0
Corrugated steel	50	Local/collector roads	10	Lighting columns	10
Corrosion protection for structural steelwork	10	High mast lighting	10	Overhead signs	10
Deck surfacing	10			Traffic signal housing and mountings	10
Deck joints	10	<b>Buiding and Maintenance Facilities</b>	25	Fences	10
Bearings	30			Manhole covers, gratings, frames, and boxes	50
Railing	50	<b>Toll Collection and TM Facilities</b>		curbs and gutters	10
Sign/signal gantries	50			Lanterns (lamps/luminaires)	
Retaining walls	50	<b>Drainage</b>		Roadside traffic signs	
Noise Walls	50	Underground storm sewer systems	50	Pavement markings	
Traffic signal poles	10	Culverts	50	Delineators	
High mast lighting	10	Ditches	10		
		Inlets	50		