

**TABLE C-4. CHANGE IN LEVEL OF SERVICE (1997 - 2020)**

*[shading denotes I-73 segments]*

Location	Change in Level of Service 2020			
	1-East	2-Central-East	3-Central-West	4-West
<b>Interstate 81</b>				
1) I-81 South of I-581	-neg-	-neg-	-neg-	same
2) I-81 North of I-581	same	same	same	same
3) I-81 North of alt US-220	-neg-	-neg-	-neg-	-neg-
<b>Interstate 581</b>				
4) I-581 South of I-81	-neg-	-neg-	same	-neg-
5) I-581 North of US-460	same	same	Better	same
6) I-581 US-460(Orange) to VA-11	Better	Better	Better	Better
7) I-581 VA-11 to VA-24(Elm)	Better	Better	Better	Better
<b>US-220</b>				
8) US-220 VA-24(Elm) to Wonju St.	same	same	same	same
9) US-220(Wonju) to VA-419(Franklin)	same	Better	-neg-	same
<b>US-460</b>				
10) US 460 East of alt US-220	Better	same	same	same
11) US 460 West of alt US-220	same	same	same	same

Source: Segment Level of Service Ratings, from VDOT Traffic and Transportation Technical Memorandum, draft, 1999.

## ❖ C.2 MIX OF LOCAL VS. THROUGH TRAFFIC

Based on our analysis of Table C-1 data, we estimate the following breakdown between local and pass-through traffic, as shown below.

**Table C-5. Estimated Mix of Local vs. Pass-Through Traffic**

Market Segment	1 East Alignment	2-3 Central Alignment	4 West Alignment
Base Traffic -- Through Trips (No Build 2020) *	NA	34-44	NA
Base Traffic -- Local Trips (No Build 2020) *	NA	50-65	NA
Additional I-73 Traffic due to Through Trips (I-73 Build 2020) *	13	16	16
Additional I-73 Traffic due to Local Trips (I-73 Build 2020)*	16	0-2	4
<b>TOTAL</b>	<b>29</b>	<b>100-127</b>	<b>20</b>

Source: calculations and estimates by Economic Development Research Group

\* Total traffic along I-73, including base traffic (without I-73) and additional traffic (with I-73) is based on the state's traffic model forecasts for 2020 as shown in Table C-1. The breakdowns of local-vs-through trips for existing (base) traffic are estimates, since no data was collected for an accurate measure. The breakdown of local-vs-through trips for incremental I-73 traffic was calculated by comparing forecasts of traffic levels at/near Roanoke with forecasts of traffic levels south of the city.