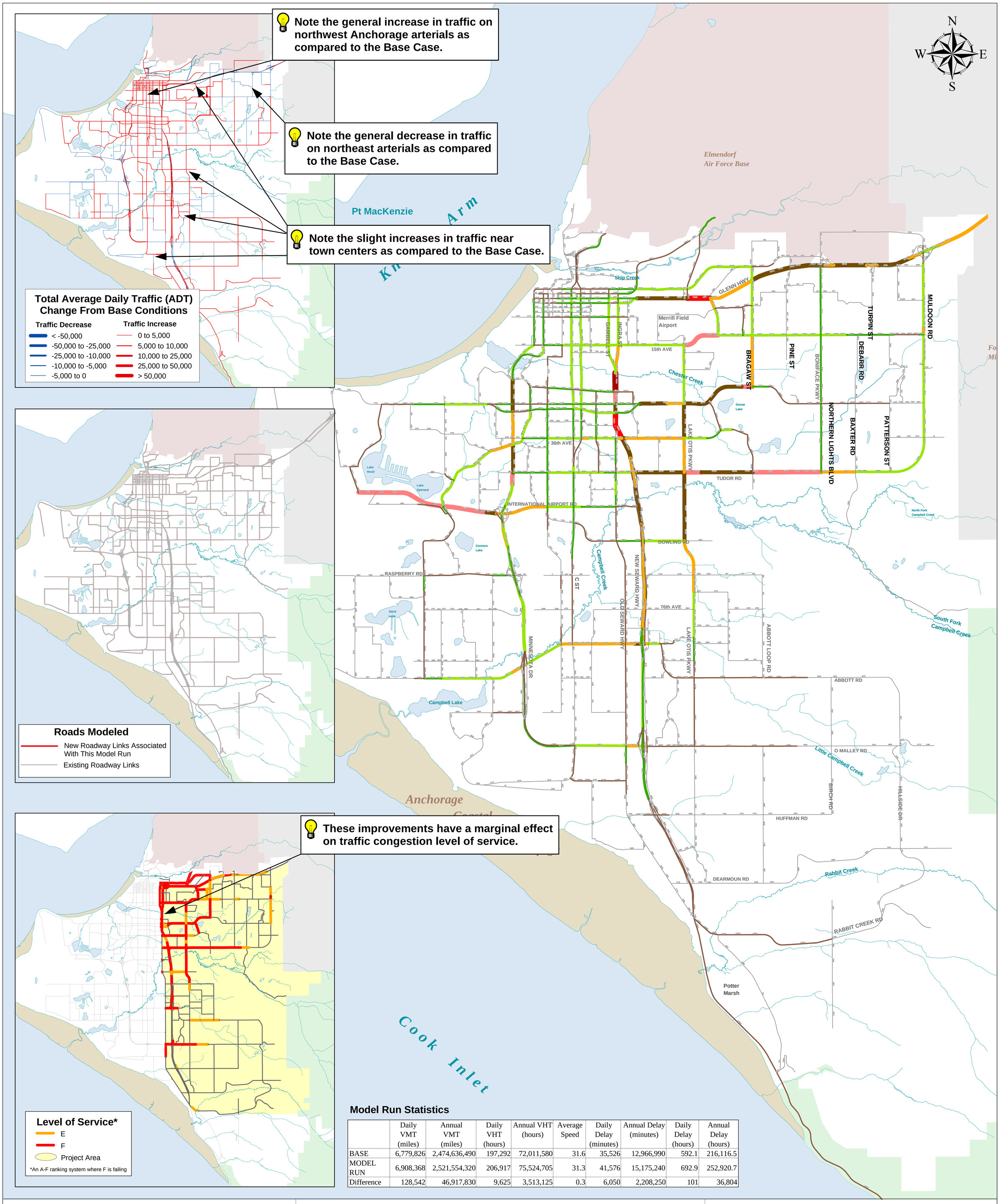
Appendix E

Land Use and Transit Model Runs



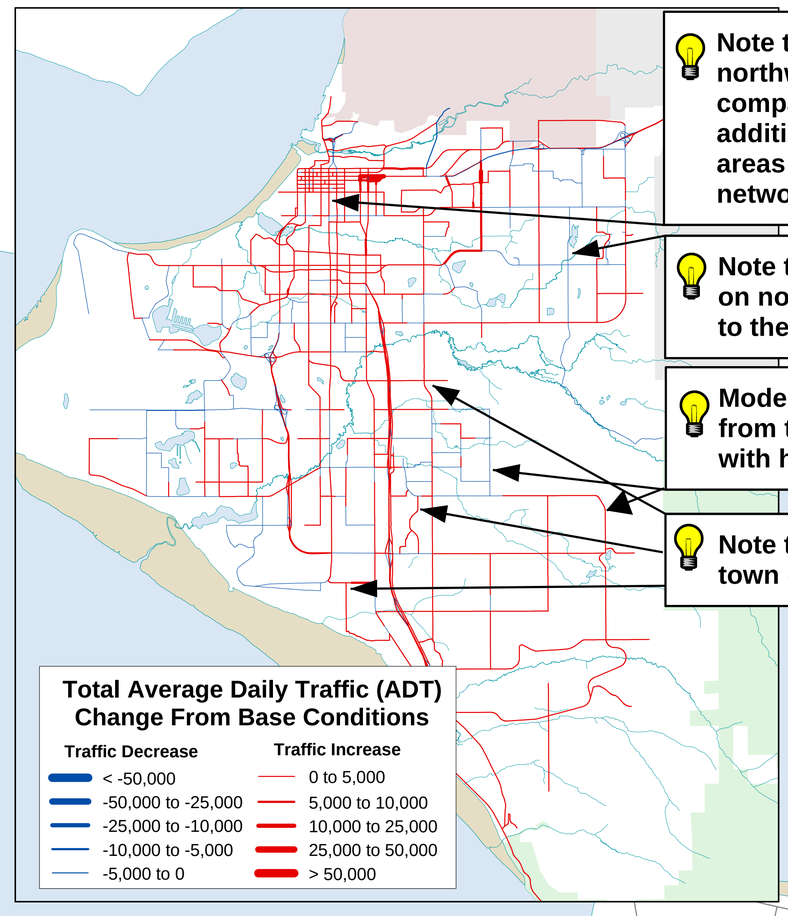
	Daily VMT (miles)	Annual VMT (miles)	Daily VHT (hours)	Annual VHT (hours)	Average Speed	Daily Delay (minutes)	Annual Delay (minutes)	Daily Delay (hours)	Annual Delay (hours)
BASE	6,779,826	2,474,636,490	197,292	72,011,580	31.6	35,526	12,966,990	592.1	216,116.5
MODEL RUN	6,908,368	2,521,554,320	206,917	75,524,705	31.3	41,576	15,175,240	692.9	252,920.7
Difference	128,542	46,917,830	9,625	3,513,125	0.3	6,050	2,208,250	101	36,804

Provide Land Use and Transit Choices Solution Theme

Model Run: Scenario A

FIGURE

E1

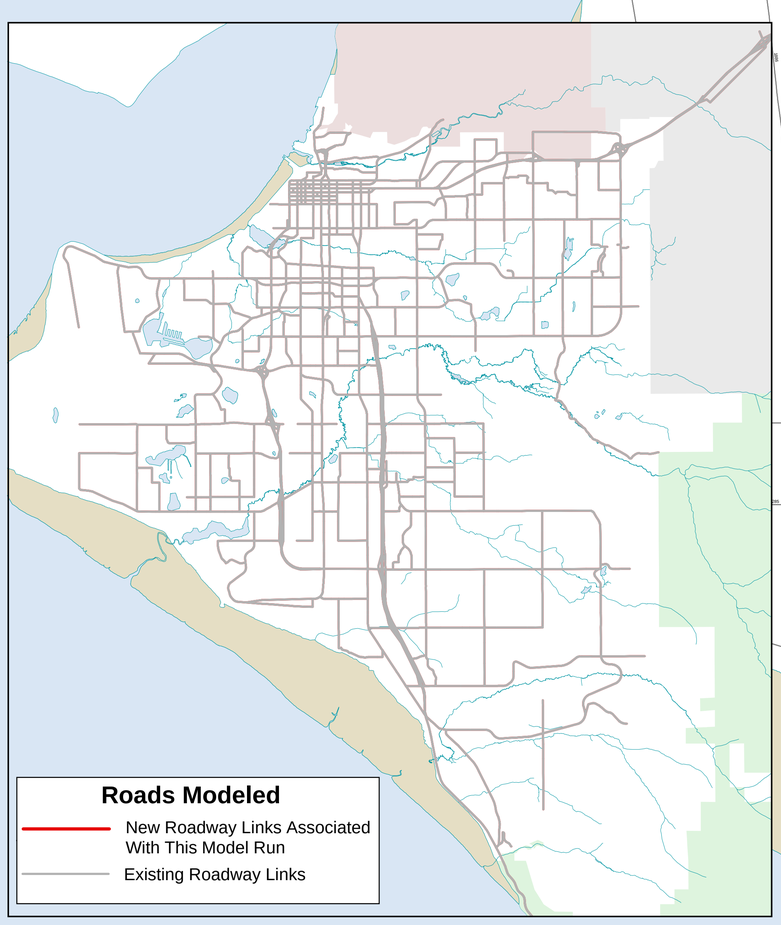


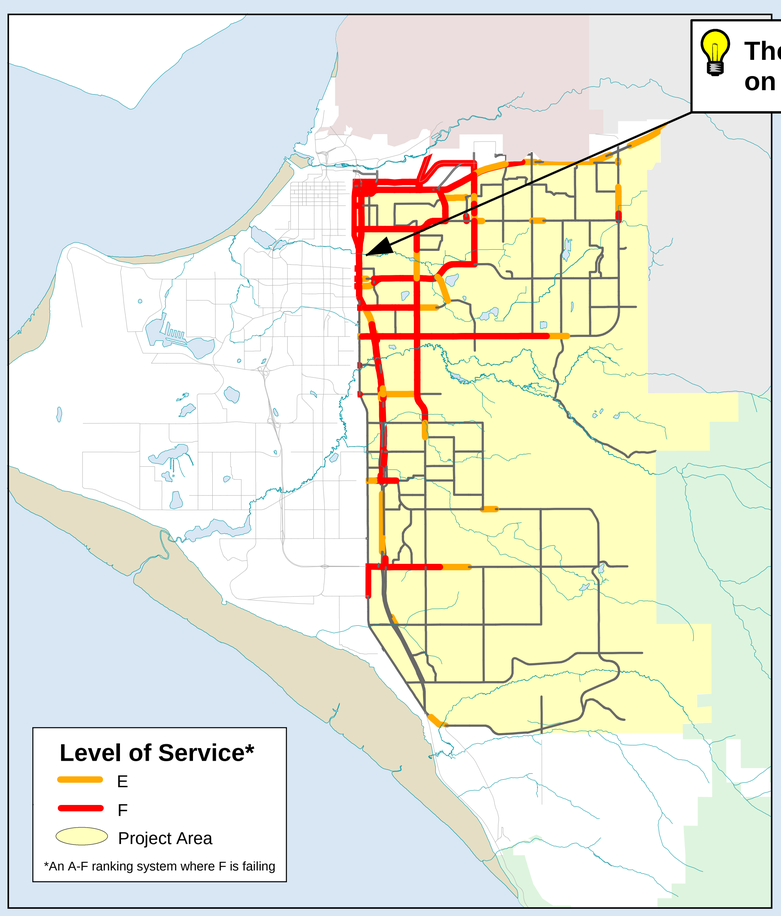
Note the general increase in traffic on northwest Anchorage arterials as compared to the Base Case. Adding additional density in already congested areas could contribute to delay in the network.

Note the general decrease in traffic on northeast arterials as compared to the Base Case.

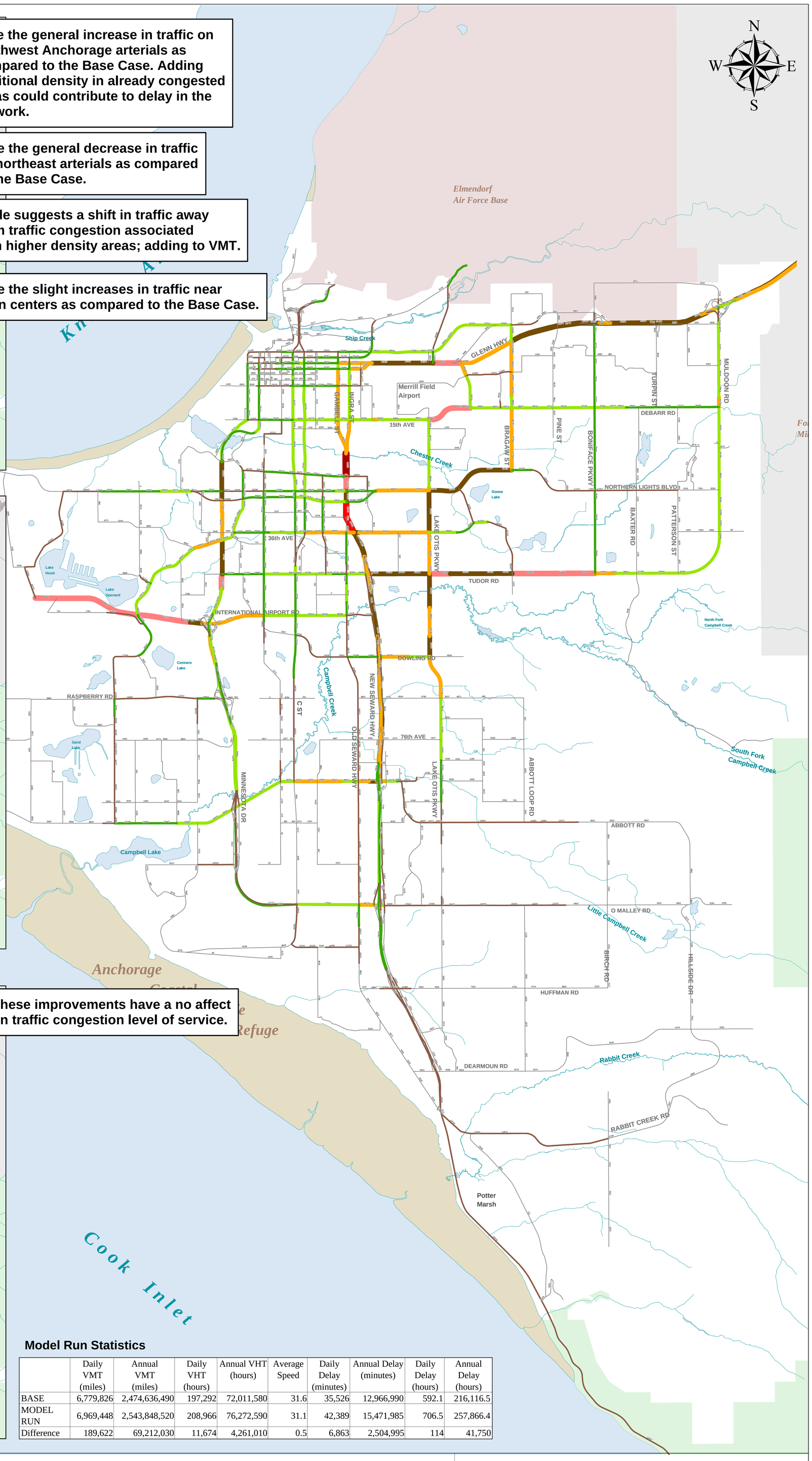
Mode suggests a shift in traffic away from traffic congestion associated with higher density areas; adding to VMT.

Note the slight increases in traffic near town centers as compared to the Base Case.





These improvements have a no affect on traffic congestion level of service.



Model Run Statistics

	Daily VMT (miles)	Annual VMT (miles)	Daily VHT (hours)	Annual VHT (hours)	Average Speed	Daily Delay (minutes)	Annual Delay (minutes)	Daily Delay (hours)	Annual Delay (hours)
BASE	6,779,826	2,474,636,490	197,292	72,011,580	31.6	35,526	12,966,990	592.1	216,116.5
MODEL RUN	6,969,448	2,543,848,520	208,966	76,272,590	31.1	42,389	15,471,985	706.5	257,866.4
Difference	189,622	69,212,030	11,674	4,261,010	0.5	6,863	2,504,995	114	41,750

LEGEND

Predicted Average Daily Traffic (# represents average daily traffic)

- 0 - 10,000
- 10,000 - 20,000
- 20,000 - 30,000
- 30,000 - 40,000
- 40,000 - 50,000
- 50,000 - 60,000
- 60,000 - 70,000
- 70,000 - 80,000
- 80,000 - 90,000
- > 90,000

- Roads
- Streams
- Mud Flats
- Water
- Technical Findings at a Glance

Provide Land Use and Transit Choices Solution Theme

Model Run: Scenario B

EAST ANCHORAGE STUDY OF TRANSPORTATION

0 0.5 1 2 3 Miles

0 0.5 1 2 3 Kilometers

Data Sources: MOA

Map Date: May 2003

FIGURE

E2